Thermophysical Properties of Chemicals and Hydrocarbons

Carl L. Yaws

William Andrew

PREFACE

This book is the product of a life's work in analysis and presentation of property data helpful in the application of chemical engineering and scientific principles. It is not meant to be a theoretical treatise, but an aid to the practicing engineer and scientist in the field. The data contained in this volume provides important information that is helpful in design, research, development, and manufacturing operations. It is intended for quick use in both day-to-day operations and long range projects.

I hope that the readers find this information useful and treat this book as a "hands on" manual, something to get dirty and use in the field, in the lab, or in the office. It is not meant to sit on a shelf and gather dust, but to be a helpful tool for the engineer and scientist.

I would like to thank, again, everyone who made this book possible, including all of the contributors, all of the people at the publisher, William Andrew Inc., and my family and friends.

I especially wish to thank Phil Carmical for his encouragement and support over the years.

Carl L. Yaws
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HOW TO USE THIS BOOK

Thermophysical properties for more than 7,800 chemicals and hydrocarbons are presented in this book for temperature dependent properties. Values for enthalpy of vaporization at normal boiling point are provided for more than 22,000 compounds. The comprehensive coverage includes C1 to C100 organics and Ac to Zr inorganics.

The property data are helpful in many engineering and scientific applications:

- **Molecular formula** – indicates size of molecule, determine groups for group contribution methods to estimate thermodynamic properties
- **Name** – identification of compound, helpful in locating safety regulations.
- ***In the tables, an **asterisk (*)** beside the name of a compound signifies that the name has been shortened to fit the format of the table. To see the full name, refer to the compound by CAS or ID number in chapter one.
- **CAS No** – Chemical Abstracts Registry Number, useful in specifying compound, helpful in finding MSDS data and locating manufacturers on web
- **Freezing point** – useful to determine state at normal conditions – gas, liquid, or solid, helpful in specifying containers for storage and shipping
- **Boiling point** – helpful in ascertaining temperatures required for vaporization in process operations, determine separation by distillation, characterize general volatility characteristics
- **Critical temperature** – useful in corresponding state correlations for thermodynamic and transport properties
- **Critical pressure** – helpful in corresponding state correlations for thermodynamic and transport properties
- **Acentric factor** – useful in corresponding state correlations for thermodynamic and transport properties
- **Critical volume** – helpful in corresponding state correlations
- **Critical density** – useful in corresponding state correlations
- **Critical compressibility factor** – helpful in corresponding state correlations
- **Density of liquid** – useful in design of storage vessels and shipping containers, useful in many engineering applications involving liquids, helpful in relief valve sizing for safety
- **Density of solid** – helpful in design of storage vessels and shipping containers
- **Enthalpy of vaporization** – useful in design of vaporizers and condensers, engineering applications involving saturated liquids and vapors, safety engineering such as ascertaining vaporization quantities from vessel rupture

- **Enthalpy of fusion** – useful in energy balance calculations

- **Solubility parameter** – helpful in vapor-liquid-equilibrium calculations
- **Liquid volume** – useful in engineering calculations involving liquids
- **Van der waals area and volume** – helpful in molecular thermodynamics
- **Radius of gyration** – useful in molecular thermodynamics
- **Dipole moment** – helpful in corresponding state correlations for polar compounds
- **Surface tension** – useful in heat and mass transfer correlations

Chapter 1

CRITICAL PROPERTIES AND ACENTRIC FACTOR – ORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 1. The tabulation is arranged by carbon number (C, C2, C3, ...) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for freezing point, boiling point, critical temperature, pressure, volume, density, and compressibility factor are given in the adjacent columns. The code for each property is also given. The last column provides the acentric factor.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-39). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (1-2), Daubert and Danner (3), Dechema (15), TRC (13-14), Vargaftik (18), and Yaws (19-36) were used extensively for critical properties. Estimates of critical temperature, pressure, and volume were primarily based on the Joback method (10-12) and proprietary techniques of the author. Critical density was determined from dividing molecular weight by critical volume. Critical compressibility factor was ascertained from application of the gas law at the critical point. Estimates for acentric factor were primarily made by using the Antoine equation for vapor pressure (11-12).

A comparison of calculated and data values for critical temperature is shown in Figure 1 for normal alkanes. The graph shows favorable agreement of equation and data.

Example

In an engineering analysis, the critical properties and acentric factor are needed for ethylene (C2H4). Determine the critical properties and acentric factor for ethylene.

Inspection of the tabulation for critical properties and acentric factor yields:

Tc = 282.34 K

Pc = 50.41 bar

Vc = 131.0 ml/mol

rhoc = 0.2142 g/ml

Zc = 0.281

omega = 0.086

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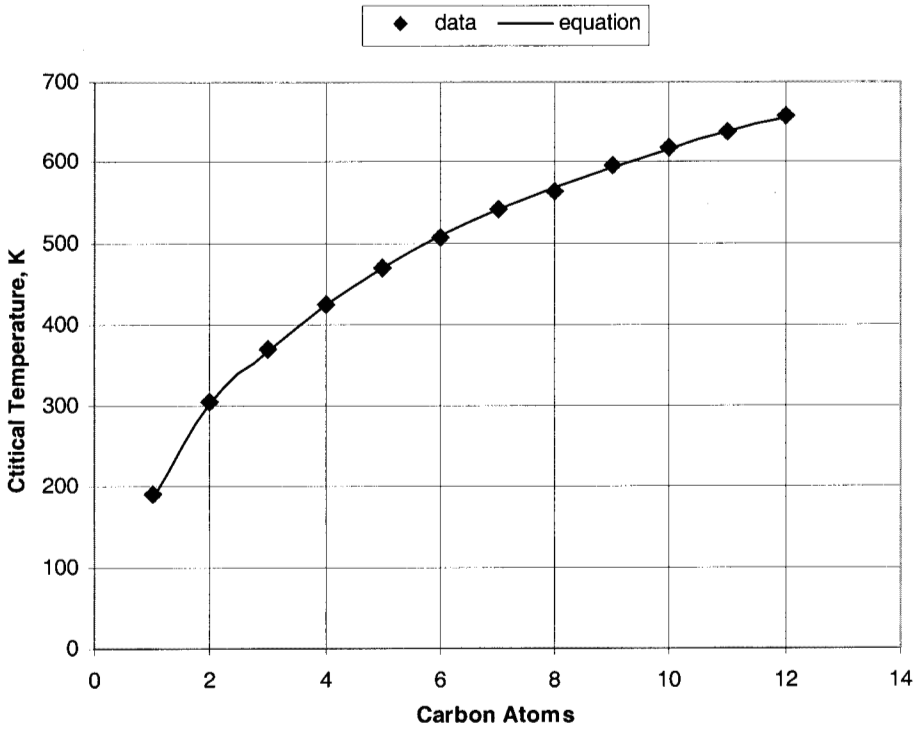


Figure 1 Critical Temperature of Normal Alkanes

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
13	CBrClF2	bromochlorodifluoromethane	353-59-3	113.65	1	269.14	1	426.15	1	42.54	1	246.0	1	0.6722	1	0.295	1	0.187
15	CBrCl2F	bromodichlorofluoromethane	353-58-2	113.65	1	269.14	1	512.90	2	45.30	2	266.0	2	0.6830	2	0.283	2	0.187
16	CBrCl3	bromotrichloromethane	75-62-7	252.15	1	378.05	1	606.00	2	49.70	2	284.0	2	0.6981	2	0.280	2	0.192
17	CBrF3	bromotrifluoromethane	75-63-8	105.15	1	215.26	1	340.15	1	39.70	1	200.0	1	0.7446	1	0.281	1	0.170
23	CBr2F2	dibromodifluoromethane	75-61-6	163.05	1	295.94	1	478.00	2	40.70	2	249.0	2	0.8426	2	0.255	2	0.108
29	CBr4	carbon tetrabromide	558-13-4	364.15	1	462.65	1	724.91	2	96.31	2	328.5	2	1.0095	2	0.525	2	0.501
34	CClF3	chlorotrifluoromethane	75-72-9	92.15	1	191.74	1	302.00	1	38.70	1	180.3	1	0.5794	1	0.278	1	0.172
39	CClN	cyanogen chloride	506-77-4	266.65	1	286.00	1	449.00	2	59.90	2	163.0	2	0.3771	2	0.262	2	0.320
42	CCl2F2	dichlorodifluoromethane	75-71-8	115.15	1	243.36	1	384.95	1	41.25	1	217.0	1	0.5572	1	0.280	1	0.180
44	CCl2O	phosgene	75-44-5	145.37	1	280.71	1	455.00	1	56.74	1	190.2	1	0.5200	1	0.285	1	0.201
47	CCl3F	trichlorofluoromethane	75-69-4	162.04	1	296.97	1	471.20	1	44.08	1	248.0	1	0.5539	1	0.279	1	0.189
50	CCl4	carbon tetrachloride	56-23-5	250.33	1	349.79	1	556.35	1	45.60	1	276.0	1	0.5573	1	0.272	1	0.193
68	CF2O	carbonyl fluoride	353-50-4	161.89	1	188.58	1	297.00	2	57.60	2	141.0	2	0.4681	2	0.329	2	0.283
74	CF4	carbon tetrafluoride	75-73-0	89.56	1	145.09	1	227.50	1	37.40	1	140.0	1	0.6286	1	0.277	1	0.179
92	CHBrF2	bromodifluoromethane	1511-62-2	128.00	1	257.67	1	411.98	1	51.32	2	167.0	1	0.7840	1	0.250	1,2	0.205
96	CHBr3	bromoform	75-25-2	281.20	1	422.35	1	696.00	2	60.90	2	286.0	2	0.8837	2	0.301	2	0.156
97	CHClF2	chlorodifluoromethane	75-45-6	115.73	1	232.32	1	369.30	1	49.71	1	166.0	1	0.5209	1	0.269	1	0.219
101	CHCl2F	dichlorofluoromethane	75-43-4	138.15	1	282.05	1	451.58	1	51.84	1	196.0	1	0.5251	1	0.271	1	0.205
104	CHCl3	chloroform	67-66-3	209.63	1	334.33	1	536.40	1	54.72	1	239.0	1	0.4995	1	0.293	1	0.222
113	CHF3	fluoroform	75-46-7	117.97	1	191.09	1	299.01	1	48.16	1	132.0	1	0.5304	1	0.256	1	0.264
117	CHI3	iodoform	75-47-8	396.16	1	491.16	1	794.55	2	53.12	2	349.5	2	1.1266	2	0.281	2	0.193
122	CHN	hydrogen cyanide	74-90-8	259.91	1	298.85	1	456.65	1	53.90	1	139.0	1	0.1944	1	0.197	1	0.410
140	CH2BrCl	bromochloromethane	74-97-5	185.20	1	341.20	1	557.00	2	64.70	2	204.0	2	0.6342	2	0.285	2	0.206
144	CH2Br2	dibromomethane	74-95-3	220.60	1	370.10	1	611.00	2	71.70	2	223.0	2	0.7795	2	0.315	2	0.210
145	CH2ClF	chlorofluoromethane	593-70-4	138.00	1	264.06	1	427.00	2	56.20	2	154.0	2	0.4447	2	0.244	2	0.211
147	CH2ClNO	carbamic chloride	463-72-9	323.15	1	334.65	1	517.00	2	73.80	2	201.0	2	0.3955	2	0.345	2	0.445
149	CH2Cl2	dichloromethane	75-09-2	178.01	1	312.90	1	510.00	1	60.80	1	185.0	2	0.4591	2	0.265	1,2	0.199
158	CH2F2	difluoromethane	75-10-5	137.00	1	221.50	1	351.26	1	57.84	1	123.0	1	0.4230	1	0.244	1	0.277
161	CH2I2	diiodomethane	75-11-6	279.25	1	455.15	1	747.00	2	54.70	2	272.0	2	0.9847	2	0.240	2	0.141
175	CH2O	formaldehyde	50-00-0	181.15	1	254.05	1	408.00	2	65.86	2	105.0	2	0.2860	2	0.204	2	0.282
176	CH2O2	formic acid	64-18-6	281.55	1	373.71	1	588.00	1	58.10	2	125.0	2	0.3682	2	0.149	1,2	0.317
191	CH3Br	methyl bromide	74-83-9	179.55	1	276.71	1	467.00	1	80.00	2	156.0	1	0.6086	1	0.321	1,2	0.192
196	CH3Cl	methyl chloride	74-87-3	175.45	1	248.93	1	416.25	1	66.80	1	143.0	1	0.3531	1	0.276	1	0.153
201	CH3ClO2S	methanesulfonyl chloride	124-63-0	242.15	1	434.65	1	676.00	2	52.30	2	260.0	2	0.4406	2	0.242	2	0.300
210	CH3Cl3Si	methyl trichlorosilane	75-79-6	195.35	1	339.55	1	517.00	1	35.30	1	340.0	1	0.4396	1	0.279	1	0.263
214	CH3F	methyl fluoride	593-53-3	131.35	1	194.82	1	317.42	1	58.75	1	113.0	1	0.3012	1	0.252	1	0.198
222	CH3I	methyl iodide	74-88-4	206.70	1	315.58	1	528.00	2	73.70	2	185.0	2	0.7672	2	0.311	2	0.197
232	CH3NO	formamide	75-12-7	275.70	1	493.00	1	771.00	2	78.00	2	163.0	2	0.2763	2	0.198	2	0.453
235	CH3NO2	nitromethane	75-52-5	244.60	1	374.35	1	588.15	1	63.13	1	173.4	1	0.3520	1	0.224	1	0.348
251	CH4	methane	74-82-8	90.69	1	111.66	1	190.56	1	45.99	1	98.6	1	0.1627	1	0.286	1	0.012
254	CH4Cl2Si	methyl dichlorosilane	75-54-7	182.55	1	314.70	1	483.00	2	39.50	2	289.0	2	0.3980	2	0.284	2	0.276
259	CH4N2O	N-hydroxymethanimidamide	624-82-8	405.85	1	465.00	1	705.00	2	90.50	2	218.0	2	0.2755	2	0.337	2	---
265	CH4N2S	ammonium thiocyanate	1762-95-4	454.15	1	536.00	1	854.00	2	82.30	2	248.0	2	0.3069	2	0.287	2	0.359
272	CH4O	methyl alcohol	67-56-1	175.47	1	337.85	1	512.64	1	80.97	1	118.0	1	0.2715	1	0.224	1	0.564
275	CH4O3S	methanesulfonic acid	75-75-2	292.81	1	561.00	1	---	---	---	---	220.0	2	0.4368	2	---	---	---
278	CH4S	methyl mercaptan	74-93-1	150.18	1	279.11	1	469.95	1	72.30	1	145.0	1	0.3318	1	0.268	1	0.158
284	CH5ClSi	methyl chlorosilane	993-00-0	139.05	1	281.85	1	442.00	2	41.70	2	246.0	2	0.3276	2	0.279	2	0.225
286	CH5N	methylamine	74-89-5	179.69	1	266.82	1	430.05	1	74.60	1	154.0	2	0.2017	2	0.321	1,2	0.281
322	CH6Si	methyl silane	992-94-9	116.34	1	216.25	1	352.50	1	48.40	2	205.0	2	0.2251	2	0.339	1,2	0.139
337	CI4	carbon tetraiodide	507-25-5	444.15	1	591.61	2	961.09	2	52.28	2	432.5	2	1.2015	2	0.283	2	0.181
351	CNNa	sodium cyanide	143-33-9	836.85	1	1769.15	1	2900.00	2	---	---	---	---	---	---	---	---	---
363	CN4O8	tetranitromethane	509-14-8	287.05	1	398.85	1	540.00	2	26.80	2	439.0	2	0.4465	2	0.262	2	0.705
372	CO	carbon monoxide	630-08-0	68.15	1	81.70	1	132.92	1	34.99	1	93.1	1	0.3009	1	0.295	1	0.066
373	COS	carbonyl sulfide	463-58-1	134.35	1	223.00	1	378.80	1	63.49	1	135.1	1	0.4447	1	0.272	1	0.097
375	CO2	carbon dioxide	124-38-9	216.58	1	194.67	1	304.19	1	73.82	1	94.0	1	0.4682	1	0.274	1	0.228
382	CS2	carbon disulfide	75-15-0	161.58	1	319.37	1	552.00	1	79.00	1	160.0	1	0.4759	1	0.275	1	0.111
404	C2BrF3	bromotrifluoroethylene	598-73-2	---	---	270.65	1	432.00	2	44.80	2	239.0	2	0.6733	2	0.298	2	0.175
413	C2Br2F4	1,2-dibromotetrafluoroethane	124-73-2	163.00	1	320.31	1	487.80	1	33.93	1	341.0	1	0.7619	1	0.285	1	0.243
423	C2ClF3	chlorotrifluoroethylene	79-38-9	115.00	1	244.80	1	379.15	1	40.53	1	212.0	1	0.5494	1	0.273	1	0.244
427	C2ClF5	chloropentafluoroethane	76-15-3	173.71	1	234.04	1	353.15	1	31.57	1	252.0	1	0.6130	1	0.271	1	0.251
441	C2Cl2F4	1,2-dichloro-1,1,2,2-tetrafluoroethane	76-14-2	180.62	1	276.92	1	418.85	1	32.60	1	294.0	1	0.5814	1	0.275	1	0.252
442	C2Cl2F4	1,1-dichloro-1,2,2,2-tetrafluoroethane	374-07-2	216.58	1	276.17	1	418.55	1	33.00	1	294.0	1	0.5814	1	0.279	1	0.253
449	C2Cl3F3	1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	236.92	1	320.75	1	487.25	1	34.10	1	325.0	1	0.5765	1	0.274	1	0.252
450	C2Cl3F3	1,1,1-trichloro-2,2,2-trifluoroethane	354-58-5	287.52	1	319.20	1	483.00	2	33.20	2	321.0	2	0.5837	2	0.265	2	0.267
455	C2Cl4	tetrachloroethylene	127-18-4	250.80	1	394.40	1	620.00	2	44.90	2	248.0	2	0.6687	2	0.216	2	0.214
456	C2Cl4F2	1,1,2,2-tetrachloro-1,2-difluoroethane	76-12-0	297.91	1	366.00	1	551.00	2	33.40	2	351.0	2	0.5807	2	0.256	2	0.279
457	C2Cl4F2	1,1,1,2-tetrachloro-2,2-difluoroethane	76-11-9	313.75	1	364.65	1	552.00	2	33.40	2	351.0	2	0.5807	2	0.255	2	0.257
459	C2Cl4O	trichloroacetyl chloride	76-02-8	216.20	1	391.15	1	590.00	2	41.00	2	332.0	2	0.5477	2	0.277	2	0.350
462	C2Cl5F	pentachlorofluoroethane	354-56-3	373.15	1	411.05	1	624.00	2	33.40	2	382.0	2	0.5767	2	0.246	2	0.245
463	C2Cl6	hexachloroethane	67-72-1	459.95	1	458.00	1	695.00	2	33.40	2	412.0	2	0.5746	2	0.238	2	0.239
488	C2F4	tetrafluoroethylene	116-14-3	142.00	1	197.51	1	306.45	1	39.44	1	172.0	1	0.5815	1	0.266	1	0.227
494	C2F6	hexafluoroethane	76-16-4	173.10	1	194.95	1	292.80	1	29.80	1	224.0	1	0.6161	1	0.274	1	0.249
511	C2HBrClF3	halothane	151-67-7	157.40	1	323.35	1	496.00	2	39.20	2	296.0	2	0.6668	2	0.281	2	0.275
525	C2HClF2	2-chloro-1,1-difluoroethylene	359-10-4	134.65	1	254.55	1	400.55	1	44.58	1	197.0	1	0.4999	1	0.264	1	0.212
528	C2HClF4	1-chloro-1,1,2,2-tetrafluoroethane	354-25-6	156.15	1	261.41	1	400.00	1	37.60	1	252.0	1	0.5416	1	0.285	1	0.274
529	C2HClF4	2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0	74.00	1	261.05	1	395.65	1	36.60	1	243.8	1	0.5598	1	0.271	1	0.288
534	C2HCl2F3	1,1-dichloro-1,2,2-trifluoroethane	812-04-4	255.51	2	303.00	2	481.32	2	39.46	2	282.5	2	0.5413	2	0.279	2	0.287
535	C2HCl2F3	1,2-dichloro-1,1,2-trifluoroethane	354-23-4	195.15	1	301.15	1	461.60	1	36.10	2	278.0	2	0.5501	2	0.262	1,2	0.241
536	C2HCl2F3	2,2-dichloro-1,1,1-trifluoroethane	306-83-2	166.00	1	301.05	1	456.94	1	36.76	1	278.0	1	0.5501	1	0.269	1	0.282
539	C2HCl3	trichloroethylene	79-01-6	188.40	1	360.10	1	571.00	2	49.10	2	256.0	2	0.5132	2	0.265	2	0.217

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
540	C2HCl3F2	1,1,1-trichloro-2,2-difluoroethane	354-12-1	253.28	2	346.15	1	530.70	2	39.90	2	314.0	2	0.5394	2	0.284	2	0.288
541	C2HCl3F2	1,1,2-trichloro-1,2-difluoroethane	354-15-4	253.28	2	345.65	1	530.00	2	39.90	2	314.0	2	0.5394	2	0.284	2	0.288
542	C2HCl3F2	1,2,2-trichloro-1,1-difluoroethane	354-21-2	253.28	2	345.05	1	529.00	2	39.90	2	314.0	2	0.5394	2	0.285	2	0.288
543	C2HCl3O	dichloroacetyl chloride	79-36-7	---	---	382.15	1	579.00	2	46.10	2	288.0	2	0.5118	2	0.276	2	0.371
544	C2HCl3O	trichloroacetaldehyde	75-87-6	216.00	1	370.85	1	565.00	2	44.10	2	288.0	2	0.5118	2	0.270	2	0.332
547	C2HCl3O2	trichloroacetic acid	76-03-9	330.00	1	470.78	1	688.00	2	48.10	2	309.0	2	0.5288	2	0.260	2	0.554
549	C2HCl4F	1,1,1,2-tetrachloro-2-fluoroethane	354-11-0	177.80	1	390.15	1	598.60	2	40.30	2	345.0	2	0.5387	2	0.279	2	0.289
550	C2HCl4F	1,1,2,2-tetrachloro-1-fluoroethane	354-14-3	190.55	1	389.75	1	598.00	2	40.30	2	345.0	2	0.5387	2	0.280	2	0.289
551	C2HCl5	pentachloroethane	76-01-7	244.15	1	433.03	1	665.00	2	36.80	2	369.0	2	0.5482	2	0.246	2	0.246
554	C2HF3	trifluoroethene	359-11-5	94.53	1	221.01	1	347.22	2	45.16	2	182.5	2	0.4495	2	0.285	2	0.238
556	C2HF3O2	trifluoroacetic acid	76-05-1	257.90	1	344.95	1	491.25	1	32.58	1	204.0	1	0.5589	1	0.163	1	0.524
558	C2HF5	pentafluoroethane	354-33-6	170.15	1	225.04	1	339.17	1	36.20	1	211.3	1	0.5680	1	0.271	1	0.305
571	C2H2	acetylene	74-86-2	192.40	1	189.35	1	308.30	1	61.38	1	112.0	1	0.2325	1	0.268	1	0.191
592	C2H2Br4	1,1,2,2-tetrabromoethane	79-27-6	273.15	1	516.65	1	824.00	2	46.00	2	401.0	2	0.8620	2	0.269	2	0.147
593	C2H2Br4	1,1,1,2-tetrabromoethane	630-16-0	273.15	1	523.15	1	800.13	2	46.00	2	384.5	2	0.8990	2	0.266	2	0.544
604	C2H2ClF3	1-chloro-1,1,2-trifluoroethane	421-04-5	240.59	2	285.15	1	428.95	2	40.93	2	239.5	2	0.4947	2	0.275	2	0.263
605	C2H2ClF3	1-chloro-1,2,2-trifluoroethane	431-07-2	208.17	2	290.15	1	428.68	2	40.78	2	238.5	2	0.4968	2	0.273	2	0.295
606	C2H2ClF3	2-chloro-1,1,1-trifluoroethane	75-88-7	167.56	1	279.25	1	430.00	2	40.78	2	238.0	2	0.4978	2	0.271	2	0.247
615	C2H2Cl2	1,1-dichloroethylene	75-35-4	150.65	1	304.71	1	482.00	2	51.90	2	224.0	2	0.4328	2	0.290	2	0.272
616	C2H2Cl2	cis-1,2-dichloroethylene	156-59-2	193.15	1	333.65	1	544.00	1	51.90	2	224.0	2	0.4328	2	0.257	1,2	0.135
617	C2H2Cl2	trans-1,2-dichloroethylene	156-60-5	223.35	1	320.85	1	516.50	1	55.10	1	224.0	2	0.4328	2	0.287	1,2	0.223
618	C2H2Cl2	dichloroethylene	25323-30-2	192.75	1	333.15	1	505.67	2	51.90	2	224.0	2	0.4328	2	0.277	2	0.267
619	C2H2Cl2	1,2-dichloroethylene, cis and trans	540-59-0	216.15	1	328.15	1	505.67	2	51.90	2	224.0	2	0.4328	2	0.277	2	0.267
620	C2H2Cl2F2	1,1-dichloro-1,2-difluoroethane	1842-05-3	238.36	2	315.33	2	488.39	2	41.36	2	270.5	2	0.4989	2	0.276	2	0.264
621	C2H2Cl2F2	1,1-dichloro-2,2-difluoroethane	471-43-2	205.94	2	333.15	1	515.98	2	41.36	2	271.0	2	0.4979	2	0.261	2	0.112
622	C2H2Cl2F2	1,2-dichloro-1,1-difluoroethane	1649-08-7	171.35	1	319.78	1	495.15	2	45.60	2	271.0	2	0.4979	2	0.300	2	0.298
623	C2H2Cl2F2	1,2-dichloro-1,2-difluoroethane	431-06-1	171.95	1	319.95	1	487.57	2	41.20	2	269.5	2	0.5007	2	0.274	2	0.295
625	C2H2Cl2O	chloroacetyl chloride	79-04-9	251.15	1	379.15	1	581.00	2	51.10	2	245.0	2	0.4610	2	0.259	2	0.354
626	C2H2Cl2O	dichloroacetaldehyde	79-02-7	223.00	1	362.00	1	555.00	2	49.50	2	245.0	2	0.4610	2	0.263	2	0.344
627	C2H2Cl2O2	dichloroacetic acid	79-43-6	286.55	1	467.15	1	686.00	2	51.70	2	265.0	2	0.4866	2	0.240	2	0.555
630	C2H2Cl3F	1,1,1-trichloro-2-fluoroethane	2366-36-1	170.00	1	366.00	1	565.00	2	39.90	2	294.0	2	0.5149	2	0.250	2	0.250
631	C2H2Cl3F	1,1,2-trichloro-1-fluoroethane	811-95-0	168.45	1	361.15	1	559.78	2	41.78	2	302.0	2	0.5013	2	0.271	2	0.264
632	C2H2Cl3F	1,1,2-trichloro-2-fluoroethane	359-28-4	203.71	2	375.15	1	552.93	2	41.62	2	300.5	2	0.5038	2	0.272	2	0.296
635	C2H2Cl4	1,1,1,2-tetrachloroethane	630-20-6	202.94	1	403.65	1	624.00	2	40.20	2	325.0	2	0.5165	2	0.252	2	0.242
636	C2H2Cl4	1,1,2,2-tetrachloroethane	79-34-5	229.35	1	418.25	1	645.00	2	40.90	2	325.0	2	0.5165	2	0.248	2	0.247
642	C2H2F2	1,1-difluoroethylene	75-38-7	129.15	1	187.50	1	302.80	1	44.60	1	154.0	1	0.4158	1	0.273	1	0.136
643	C2H2F2	cis-1,2-difluoroethene	1630-77-9	107.90	1	245.15	1	394.67	2	47.69	2	163.5	2	0.3917	2	0.238	2	0.210
644	C2H2F2	trans-1,2-difluoroethene	1630-78-0	107.90	1	245.15	2	394.67	2	47.69	2	163.5	2	0.3917	2	0.238	2	0.210
650	C2H2F4	1,1,1,2-tetrafluoroethane	811-97-2	172.00	1	247.08	1	374.18	1	40.56	1	198.8	1	0.5132	1	0.259	1	0.327
651	C2H2F4	1,1,2,2-tetrafluoroethane	359-35-3	184.15	1	250.15	1	391.80	1	46.20	2	191.0	2	0.5342	2	0.271	1,2	0.266
652	C2H2F4O	tetrafluorodimethyl ether	1691-17-4	150.00	1	279.50	1	420.25	2	42.28	2	223.0	2	0.5293	2	0.270	2	0.368
660	C2H2I4	1,1,1,2-tetraiodoethane	---	346.46	2	614.49	2	972.04	2	45.72	2	488.5	2	1.0924	2	0.276	2	0.224
661	C2H2I4	1,1,2,2-tetraiodoethane	---	311.30	2	619.12	2	963.61	2	43.17	2	517.5	2	1.0312	2	0.279	2	0.261
681	C2H2O	ketene	463-51-4	122.00	1	223.34	1	370.00	2	58.10	2	144.0	2	0.2919	2	0.272	2	0.126
682	C2H2O2	glyoxal	107-22-2	288.15	1	323.55	1	495.00	2	58.80	2	164.0	2	0.3539	2	0.234	2	0.413
684	C2H2O4	oxalic acid	144-62-7	462.65	1	569.00	1	804.00	2	70.20	2	205.0	2	0.4392	2	0.215	2	0.918
688	C2H3Br	vinyl bromide	593-60-2	135.35	1	288.95	1	473.00	2	71.80	2	200.0	2	0.5347	2	0.365	2	0.277
697	C2H3Br3	1,1,1-tribromoethane	2311-14-0	293.62	2	446.15	1	698.32	2	71.33	2	322.5	2	0.8272	2	0.396	2	0.407
698	C2H3Br3	1,1,2-tribromoethane	78-74-0	243.85	1	462.08	1	709.90	2	70.03	2	327.5	2	0.8145	2	0.389	2	0.476
701	C2H3Cl	vinyl chloride	75-01-4	119.36	1	259.25	1	432.00	2	56.70	2	179.0	2	0.3492	2	0.283	2	0.100
702	C2H3ClF2	1-chloro-1,1-difluoroethane	75-68-3	142.35	1	263.95	1	410.29	1	40.41	1	225.0	1	0.4466	1	0.267	1	0.231
703	C2H3ClF2	1-chloro-1,2-difluoroethane	338-64-7	191.02	2	280.69	2	435.18	2	42.77	2	226.5	2	0.4437	2	0.268	2	0.271
704	C2H3ClF2	2-chloro-1,1-difluoroethane	338-65-8	191.02	2	308.25	1	477.91	2	42.77	2	227.0	2	0.4427	2	0.244	2	0.271
707	C2H3ClO	acetyl chloride	75-36-5	160.30	1	323.90	1	508.00	2	57.00	2	196.0	2	0.4005	2	0.265	2	0.334
708	C2H3ClO	chloroacetaldehyde	107-20-0	---	---	358.00	1	555.00	2	53.70	2	201.0	2	0.3905	2	0.234	2	0.330
710	C2H3ClO2	chloroacetic acid	79-11-8	333.15	1	462.50	1	686.00	2	57.80	2	221.0	2	0.4276	2	0.224	2	0.551
711	C2H3ClO2	methyl chloroformate	79-22-1	---	---	344.00	1	525.00	2	53.60	2	221.0	2	0.4276	2	0.271	2	0.393
714	C2H3Cl2F	1,1-dichloro-1-fluoroethane	1717-00-6	169.65	1	305.15	1	478.85	1	43.40	1	253.0	1	0.4623	1	0.276	1	0.221
715	C2H3Cl2F	1,1-dichloro-2-fluoroethane	430-53-5	188.79	2	305.00	2	473.24	2	43.23	2	257.5	2	0.4542	2	0.283	2	0.272
716	C2H3Cl2F	1,2-dichloro-1-fluoroethane	430-57-9	213.15	1	346.95	1	538.33	2	43.23	2	258.0	2	0.4533	2	0.249	2	0.272
720	C2H3Cl3	1,1,1-trichloroethane	71-55-6	243.10	1	347.23	1	545.00	1	43.00	1	281.0	2	0.4747	2	0.267	1,2	0.218
721	C2H3Cl3	1,1,2-trichloroethane	79-00-5	236.50	1	387.00	1	602.00	2	44.80	2	281.0	2	0.4747	2	0.252	2	0.259
725	C2H3Cl3Si	trichlorovinylsilane	75-94-5	178.35	1	363.85	1	543.15	2	30.60	2	408.0	2	0.3958	2	0.276	2	0.282
728	C2H3F	vinyl fluoride	75-02-5	112.65	1	200.95	1	327.80	1	52.40	1	144.0	1	0.3198	1	0.277	1	0.143
735	C2H3F3	1,1,1-trifluoroethane	420-46-2	161.82	1	225.81	1	345.88	1	37.64	1	195.0	1	0.4310	1	0.255	1	0.261
736	C2H3F3	1,1,2-trifluoroethane	430-66-0	189.15	1	278.15	1	429.80	2	52.41	2	179.0	2	0.4695	2	0.263	2	0.326
743	C2H3I	vinyl iodide	593-66-8	168.10	2	329.15	1	536.99	2	51.76	2	216.5	2	0.7111	2	0.251	2	0.165
746	C2H3I3	1,1,1-triiodoethane	594-21-8	366.15	1	521.35	2	838.10	2	47.11	2	400.5	2	1.0181	2	0.271	2	0.182
747	C2H3I3	1,1,2-triiodoethane	---	270.98	2	524.14	2	825.88	2	46.40	2	405.5	2	1.0056	2	0.274	2	0.242
753	C2H3N	acetonitrile	75-05-8	229.32	1	354.75	1	545.50	1	48.33	1	173.0	2	0.2373	2	0.184	1,2	0.338
754	C2H3N	methyl isocyanide	593-75-9	228.15	1	332.16	1	517.86	2	48.56	2	173.5	2	0.2366	2	0.196	2	0.294
755	C2H3NO	methyl isocyanate	624-83-9	256.15	1	312.00	1	505.00	2	51.90	2	190.0	2	0.3003	2	0.235	2	0.175
756	C2H3NO	hydroxyacetonitrile	107-16-4	---	---	467.00	dec	664.00	2	59.30	2	195.0	2	0.2926	2	0.209	2	0.801
787	C2H4	ethylene	74-85-1	104.00	1	169.47	1	282.34	1	50.41	1	131.0	1	0.2142	1	0.281	1	0.086
798	C2H4Br2	1,1-dibromoethane	557-91-5	210.15	1	381.15	1	628.00	2	60.30	2	276.0	2	0.6807	2	0.319	2	0.125
799	C2H4Br2	1,2-dibromoethane	106-93-4	282.94	1	404.51	1	650.15	1	54.77	1	261.6	1	0.7182	1	0.265	1	0.207
801	C2H4ClF	1-chloro-1-fluoroethane	1615-75-4	158.87	2	289.30	1	458.07	2	45.41	2	209.0	2	0.3948	2	0.249	2	0.219
802	C2H4ClF	1-chloro-2-fluoroethane	762-50-5	197.15	1	326.15	1	511.00	2	44.92	2	215.0	2	0.3837	2	0.227	2	0.251
812	C2H4Cl2	1,1-dichloroethane	75-34-3	176.19	1	330.45	1	523.00	1	50.70	1	240.0	1	0.4123	1	0.280	1	0.234
813	C2H4Cl2	1,2-dichloroethane	107-06-2	237.49	1	356.59	1	561.60	1	53.70	1	220.0	1	0.4498	1	0.253	1	0.287

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
814	C2H4Cl2	dichloroethane	1300-21-6	206.84	2	343.52	2	542.00	2	52.18	2	230.0	2	0.4311	2	0.266	2	0.266
816	C2H4Cl2O	bis(chloromethyl) ether	542-88-1	231.65	1	378.00	1	579.00	2	45.80	2	258.0	2	0.4456	2	0.245	2	0.324
834	C2H4F2	1,1-difluoroethane	75-37-6	156.15	1	249.13	1	386.44	1	45.20	1	179.0	1	0.3690	1	0.252	1	0.275
835	C2H4F2	1,2-difluoroethane	624-72-6	176.10	2	283.65	1	445.00	2	43.40	2	195.0	2	0.3387	2	0.229	2	0.222
844	C2H4I2	1,1-diiodoethane	594-02-5	212.92	2	452.15	1	723.89	2	47.83	2	317.5	2	0.8878	2	0.252	2	0.199
845	C2H4I2	1,2-diiodoethane	624-73-7	356.16	1	473.16	1	749.91	2	47.30	2	323.5	2	0.8713	2	0.245	2	0.223
851	C2H4N2	aminoacetonitrile	540-61-4	---	---	425.00	2	638.00	2	54.40	2	229.0	2	0.2448	2	0.235	2	0.466
865	C2H4N2O6	ethylene glycol dinitrate	628-96-6	250.85	1	472.15	1	654.00	2	40.40	2	362.0	2	0.4201	2	0.269	2	0.790
870	C2H4N4	cyanoguanidine	461-58-5	482.65	1	581.00	2	834.00	2	53.40	2	329.0	2	0.2556	2	0.253	2	0.692
884	C2H4O	acetaldehyde	75-07-0	150.15	1	294.00	1	466.00	1	55.50	2	154.0	1	0.2861	1	0.221	1,2	0.291
885	C2H4O	ethylene oxide	75-21-8	160.65	1	283.60	1	469.15	1	71.90	1	140.3	1	0.3140	1	0.259	1	0.197
888	C2H4OS	thioacetic-acid	507-09-5	150.16	1	360.16	1	577.34	2	69.21	2	219.5	2	0.3468	2	0.316	2	0.304
889	C2H4O2	acetic acid	64-19-7	289.81	1	391.05	1	591.95	1	57.86	1	179.7	1	0.3342	1	0.211	1	0.467
890	C2H4O2	methyl formate	107-31-3	174.15	1	304.90	1	487.20	1	59.98	1	172.0	1	0.3491	1	0.255	1	0.254
892	C2H4O2S	thioglycolic acid	68-11-1	256.65	1	493.00	1	733.00	2	61.00	2	239.0	2	0.3854	2	0.239	2	0.560
893	C2H4O3	glycolic acid	79-14-1	352.65	1	443.00	2	616.00	2	73.10	2	177.7	2	0.4280	2	0.254	2	1.059
894	C2H4O3	peroxyacetic acid	79-21-0	272.95	1	383.15	1	552.00	2	64.00	2	198.0	2	0.3841	2	0.276	2	0.752
901	C2H4S	ethylene sulfide	420-12-2	164.15	1	328.08	1	547.00	2	67.80	2	167.0	2	0.3600	2	0.249	2	0.161
910	C2H5Br	bromoethane	74-96-4	154.55	1	311.50	1	503.80	1	62.30	1	215.0	1	0.5068	1	0.320	1	0.255
914	C2H5Cl	ethyl chloride	75-00-3	136.75	1	285.42	1	460.35	1	52.70	1	200.0	1	0.3226	1	0.275	---	0.190
917	C2H5ClO	2-chloroethanol	107-07-3	205.65	1	401.75	1	585.00	2	59.20	2	212.0	2	0.3798	2	0.258	2	0.658
918	C2H5ClO	chloromethyl methyl ether	107-30-2	169.65	1	332.65	1	521.00	2	50.30	2	214.0	2	0.3762	2	0.249	2	0.270
920	C2H5ClO2S	ethanesulfonyl chloride	594-44-5	205.15	1	448.49	2	682.00	2	47.40	2	204.0	2	0.6303	2	0.171	2	0.369
937	C2H5Cl3Si	trichloroethylsilane	115-21-9	167.55	1	371.05	1	559.95	1	33.30	1	414.0	2	0.3949	2	0.296	1,2	0.269
939	C2H5F	ethyl fluoride	353-36-6	129.95	1	235.45	1	375.31	1	50.28	1	164.0	2	0.2931	2	0.264	1,2	0.220
948	C2H5I	ethyl iodide	75-03-6	162.05	1	345.45	1	561.00	2	59.90	2	238.0	2	0.6553	2	0.306	2	0.224
954	C2H5N	ethyleneimine	151-56-4	195.20	1	329.00	1	537.00	2	68.50	2	173.0	2	0.2490	2	0.265	2	0.201
955	C2H5NO	acetaldoxime	107-29-9	319.65	1	388.35	1	568.00	2	60.40	2	213.0	2	0.2773	2	0.272	2	0.638
956	C2H5NO	acetamide	60-35-5	354.15	1	494.30	1	761.00	2	66.00	2	215.0	2	0.2747	2	0.224	2	0.421
957	C2H5NO	N-methylformamide	123-39-7	269.35	1	472.66	1	721.00	2	56.20	2	215.0	2	0.2747	2	0.202	2	0.410
958	C2H5NO2	nitroethane	79-24-3	183.63	1	387.22	1	593.00	2	51.60	2	236.0	2	0.3181	2	0.247	2	0.380
985	C2H6	ethane	74-84-0	90.35	1	184.55	1	305.32	1	48.72	1	145.5	1	0.2067	1	0.279	1	0.100
986	C2H6AlCl	dimethylaluminum chloride	1184-58-3	252.15	1	399.15	1	619.00	2	36.20	2	320.0	2	0.2891	2	0.225	2	0.183
1017	C2H6Cl2Si	dichlorodimethylsilane	75-78-5	197.05	1	343.35	1	520.35	1	34.90	1	358.0	1	0.3605	1	0.289	1	0.268
1065	C2H6O	ethyl alcohol	64-17-5	159.05	1	351.44	1	513.92	1	61.48	1	167.0	1	0.2759	1	0.240	1	0.645
1066	C2H6O	dimethyl ether	115-10-6	131.66	1	248.31	1	400.10	1	53.70	1	170.0	1	0.2710	1	0.274	1	0.200
1067	C2H6OS	dimethyl sulfoxide	67-68-5	291.67	1	464.00	2	729.00	2	56.50	2	227.0	2	0.3442	2	0.212	2	0.281
1068	C2H6OS	2-mercaptoethanol	60-24-2	---	---	430.90	1	629.00	2	62.70	2	219.0	2	0.3568	2	0.263	2	0.672
1072	C2H6O2	ethylene glycol	107-21-1	260.15	1	470.45	1	720.00	1	82.00	1	191.0	2	0.3250	2	0.262	1,2	0.507
1083	C2H6O4S	dimethyl sulfate	77-78-1	241.15	1	462.15	1	716.00	2	70.10	2	293.0	2	0.4305	2	0.345	2	0.439
1084	C2H6O4S	ethyl sulfate	540-82-9	289.00	2	553.15	1	857.00	2	89.80	2	293.0	2	0.4305	2	0.369	2	0.494
1092	C2H6S	ethyl mercaptan	75-08-1	125.26	1	308.15	1	499.15	1	54.90	1	207.0	1	0.3002	1	0.274	1	0.188
1093	C2H6S	dimethyl sulfide	75-18-3	174.88	1	310.48	1	503.04	1	55.30	1	201.0	1	0.3091	1	0.266	1	0.194
1094	C2H6S2	dimethyl disulfide	624-92-0	188.44	1	382.90	1	615.00	1	53.60	2	252.0	2	0.3738	2	0.264	1,2	0.206
1095	C2H6S2	1,2-ethanedithiol	540-63-6	231.95	1	419.20	1	663.00	2	53.60	2	209.0	2	0.4507	2	0.203	2	0.257
1112	C2H7ClSi	chlorodimethylsilane	1066-35-9	162.15	1	308.65	1	472.00	2	36.20	2	299.0	2	0.3164	2	0.276	2	0.253
1115	C2H7N	ethylamine	75-04-7	192.15	1	289.73	1	456.15	1	56.20	1	207.0	2	0.2178	2	0.307	1,2	0.285
1116	C2H7N	dimethylamine	124-40-3	180.96	1	280.03	1	437.20	1	53.40	2	180.0	2	0.2505	2	0.264	1,2	0.300
1117	C2H7NO	monoethanolamine	141-43-5	283.65	1	444.15	1	678.20	1	71.24	2	225.0	2	0.2715	2	0.284	1,2	0.447
1118	C2H7NO	1-aminoethanol	75-39-8	370.15	1	444.15	2	638.00	2	68.70	2	225.0	2	0.2715	2	0.291	2	0.797
1159	C2H8N2	ethylenediamine	107-15-3	284.29	1	390.41	1	593.00	2	62.90	2	264.0	2	0.2276	2	0.337	2	0.472
1168	C2H8Si	dimethyl silane	1111-74-6	122.93	1	253.55	1	402.00	2	35.60	2	258.0	2	0.2332	2	0.275	2	0.130
1210	C2N2	cyanogen	460-19-5	245.25	1	252.00	1	400.15	1	59.80	1	195.0	2	0.2669	2	0.351	1,2	0.279
1254	C3Cl2F6	1,2-dichlorohexafluoropropane	661-97-2	148.25	1	309.25	1	449.00	2	25.70	2	369.0	2	0.5987	2	0.254	2	0.329
1284	C3F6	hexafluoropropylene	116-15-4	116.65	1	243.55	1	368.00	2	29.00	2	268.0	2	0.5598	2	0.254	2	0.205
1287	C3F6O	hexafluoroacetone	684-16-2	151.15	1	245.88	1	357.14	1	28.37	1	329.0	1	0.5046	1	0.314	1	0.364
1291	C3F6O	trifluoromethyl trifluorovinyl ether	1187-93-5	118.00	2	247.15	1	363.00	2	31.10	2	289.0	2	0.5745	2	0.298	2	0.350
1299	C3F8	octafluoropropane	76-19-7	125.46	1	236.40	1	345.05	1	26.80	1	299.0	1	0.6288	1	0.279	1	0.327
1333	C3HF7	heptafluoropropane	431-89-0	142.00	1	256.79	1	374.83	1	29.12	2	274.0	1	0.6205	1	0.256	1,2	0.355
1368	C3H2F6	1,1,1,2,2,3-hexafluoropropane	677-56-5	190.00	2	274.35	1	401.21	2	33.11	2	345.5	2	0.4401	2	0.343	2	0.409
1369	C3H2F6	1,1,1,2,3,3-hexafluoropropane	431-63-0	170.00	1	279.40	1	412.38	1	34.12	1	270.0	2	0.5631	2	0.269	1,2	0.369
1370	C3H2F6	1,1,1,3,3,3-hexafluoropropane	690-39-1	179.53	1	272.45	1	406.85	2	33.11	2	289.5	2	0.5252	2	0.283	2	0.321
1371	C3H2F6	1,1,2,2,3,3-hexafluoropropane	680-00-2	190.00	2	283.15	1	417.09	2	31.53	2	318.5	2	0.4774	2	0.290	2	0.358
1377	C3H2N2	malononitrile	109-77-3	304.90	1	491.50	1	715.00	2	40.40	2	248.0	2	0.2664	2	0.169	2	0.502
1402	C3H3Cl	propargyl chloride	624-65-7	---	---	331.00	1	541.00	2	53.00	2	211.0	2	0.3531	2	0.249	2	0.152
1441	C3H3F3	3,3,3-trifluoropropene	677-21-4	162.00	2	248.15	1	378.59	1	36.09	1	211.0	1	0.4552	1	0.242	1	0.265
1449	C3H3F5	1,1,1,2,2-pentafluoropropane	1814-88-6	190.00	2	255.50	2	380.11	1	31.37	1	273.2	1	0.4907	1	0.271	1	0.305
1450	C3H3F5	1,1,1,2,3-pentafluoropropane	431-31-2	190.00	2	270.00	2	403.84	2	34.44	2	276.5	2	0.4848	2	0.284	2	0.330
1451	C3H3F5	1,1,1,3,3-pentafluoropropane	460-73-1	190.00	2	270.00	2	403.84	2	34.44	2	276.5	2	0.4848	2	0.284	2	0.330
1452	C3H3F5	1,1,2,2,3-pentafluoropropane	679-86-7	190.00	2	299.15	1	447.44	2	34.44	2	276.5	2	0.4848	2	0.256	2	0.330
1453	C3H3F5	1,1,2,3,3-pentafluoropropane	24270-66-4	190.00	2	300.00	2	441.38	2	32.03	2	320.5	2	0.4183	2	0.280	2	0.370
1454	C3H3F5O	perfluoroethyl methyl ether	---	---	---	278.74	1	444.03	2	34.20	2	289.0	2	0.5192	2	0.268	2	0.389
1462	C3H3N	acrylonitrile	107-13-1	189.63	1	350.50	1	535.00	2	44.80	2	212.0	2	0.2503	2	0.214	2	0.350
1463	C3H3NO	oxazole	288-42-6	191.15	1	342.65	1	554.00	2	63.20	2	237.0	2	0.2914	2	0.325	2	0.231
1464	C3H3NO	isoxazole	288-14-2	206.05	1	367.90	1	590.00	1	61.00	1	190.9	1	0.3618	1	0.237	1	0.257
1492	C3H4	methylacetylene	74-99-7	170.45	1	249.94	1	402.40	1	56.30	1	164.0	1	0.2443	1	0.276	1	0.212
1493	C3H4	allene	463-49-0	136.87	1	238.65	1	394.00	1	52.50	1	165.0	2	0.2428	2	0.264	1,2	0.104
1514	C3H4Br4	1,1,1,2-tetrabromopropane	62127-49-5	349.69	2	523.15	1	788.99	2	69.10	2	434.5	2	0.8278	2	0.458	2	0.552
1515	C3H4Br4	1,1,1,3-tetrabromopropane	62127-50-8	364.69	2	533.15	1	797.25	2	68.19	2	440.5	2	0.8165	2	0.453	2	0.587
1516	C3H4Br4	1,1,2,2-tetrabromopropane	34570-59-7	349.69	2	508.15	1	766.37	2	69.10	2	434.5	2	0.8278	2	0.471	2	0.552

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_c, K	code	P_c, bar	code	V_c, ml/mol	code	rho_c, g/ml	code	Z_c	code	omega
1517	C3H4Br4	1,1,2,3-tetrabromopropane	34581-76-5	332.27	2	538.15	1	798.18	2	67.85	2	439.5	2	0.8184	2	0.449	2	0.625
1518	C3H4Br4	1,1,3,3-tetrabromopropane	51525-97-4	332.27	2	548.15	1	813.01	2	67.85	2	439.5	2	0.8184	2	0.441	2	0.625
1519	C3H4Br4	1,2,2,3-tetrabromopropane	54268-02-9	283.85	1	523.15	1	782.30	2	68.19	2	440.5	2	0.8165	2	0.462	2	0.587
1533	C3H4Cl2	2,3-dichloropropene	78-88-6	183.15	2	366.50	1	578.00	2	43.80	2	277.0	2	0.4006	2	0.252	2	0.194
1534	C3H4Cl2	1,1-dichloropropene	563-58-6	191.50	2	349.65	1	577.00	2	43.80	2	277.0	2	0.4006	2	0.253	2	0.206
1535	C3H4Cl2	cis-1,2-dichloropropene	6923-20-2	191.50	2	366.15	1	577.00	2	43.80	2	277.0	2	0.4006	2	0.253	2	0.206
1536	C3H4Cl2	trans-1,2-dichloropropene	7069-38-7	191.50	2	350.15	1	577.00	2	43.80	2	277.0	2	0.4006	2	0.253	2	0.206
1537	C3H4Cl2	cis-1,3-dichloropropene	10061-01-5	191.50	2	377.45	1	577.00	2	43.80	2	277.0	2	0.4006	2	0.253	2	0.206
1538	C3H4Cl2	trans-1,3-dichloropropene	10061-02-6	191.50	2	385.15	1	577.00	2	43.80	2	277.0	2	0.4006	2	0.253	2	0.206
1539	C3H4Cl2	3,3-dichloropropene	563-57-5	191.50	2	357.55	1	577.00	2	43.80	2	277.0	2	0.4006	2	0.253	2	0.206
1540	C3H4Cl2	1,3-dichloropropene; (cis+trans)	542-75-6	191.50	2	380.65	1	577.00	2	43.80	2	277.0	2	0.4006	2	0.253	2	0.206
1541	C3H4Cl2	1,2-dichloropropene	563-54-2	191.50	2	348.15	1	577.00	2	43.80	2	277.0	2	0.4006	2	0.253	2	0.206
1542	C3H4Cl2	dichloropropylene	26952-23-8	191.50	2	364.52	2	577.00	2	43.80	2	277.0	2	0.4006	2	0.253	2	0.206
1565	C3H4Cl4	1,1,1,2-tetrachloropropane	812-03-3	208.15	1	423.15	1	646.86	2	37.78	2	382.5	2	0.4755	2	0.269	2	0.280
1566	C3H4Cl4	1,1,1,3-tetrachloropropane	1070-78-6	237.74	1	432.15	1	654.78	2	37.41	2	388.5	2	0.4681	2	0.267	2	0.310
1567	C3H4Cl4	1,1,2,2-tetrachloropropane	13116-60-4	230.17	2	428.15	1	654.51	2	37.78	2	382.5	2	0.4755	2	0.266	2	0.280
1568	C3H4Cl4	1,1,2,3-tetrachloropropane	18495-30-2	212.75	2	451.15	1	677.77	2	37.27	2	387.5	2	0.4694	2	0.256	2	0.342
1569	C3H4Cl4	1,1,3,3-tetrachloropropane	1653-17-4	212.75	2	440.00	2	661.02	2	37.27	2	387.5	2	0.4694	2	0.263	2	0.342
1570	C3H4Cl4	1,2,2,3-tetrachloropropane	13116-53-5	245.17	2	437.15	1	662.36	2	37.41	2	388.5	2	0.4681	2	0.264	2	0.310
1578	C3H4F4	1,1,1,2-tetrafluoropropane	421-48-7	239.09	2	272.15	1	414.81	2	36.33	2	258.5	2	0.4490	2	0.272	2	0.277
1579	C3H4F4	1,1,1,3-tetrafluoropropane	460-36-6	254.09	2	302.55	1	457.10	2	35.99	2	264.5	2	0.4388	2	0.250	2	0.306
1580	C3H4F4	1,1,2,2-tetrafluoropropane	40723-63-5	239.09	2	300.00	2	457.26	2	36.33	2	258.5	2	0.4490	2	0.247	2	0.277
1581	C3H4F4	1,1,2,3-tetrafluoropropane	---	221.67	2	300.00	2	449.44	2	35.86	2	263.5	2	0.4405	2	0.253	2	0.338
1582	C3H4F4	1,1,3,3-tetrafluoropropane	---	221.67	2	300.00	2	449.44	2	35.86	2	263.5	2	0.4405	2	0.253	2	0.338
1583	C3H4F4	1,2,2,3-tetrafluoropropane	813-75-2	254.09	2	300.00	2	453.25	2	35.99	2	264.5	2	0.4388	2	0.253	2	0.306
1585	C3H4I4	1,1,1,2-tetraiodopropane	66794-31-8	342.73	2	636.93	2	992.10	2	40.73	2	538.5	2	1.0171	2	0.266	2	0.239
1586	C3H4I4	1,1,1,3-tetraiodopropane	66794-32-9	357.73	2	637.37	2	983.52	2	40.31	2	544.5	2	1.0058	2	0.268	2	0.268
1587	C3H4I4	1,1,2,2-tetraiodopropane	66794-33-0	342.73	2	636.93	2	992.10	2	40.73	2	538.5	2	1.0171	2	0.266	2	0.239
1588	C3H4I4	1,1,2,3-tetraiodopropane	66794-21-6	325.31	2	639.72	2	978.29	2	40.16	2	543.5	2	1.0077	2	0.268	2	0.300
1589	C3H4I4	1,1,3,3-tetraiodopropane	66794-34-1	325.31	2	639.72	2	978.29	2	40.16	2	543.5	2	1.0077	2	0.268	2	0.300
1590	C3H4I4	1,2,2,3-tetraiodopropane	66794-20-5	357.73	2	637.37	2	983.52	2	40.31	2	544.5	2	1.0058	2	0.268	2	0.268
1594	C3H4N2	1H-pyrazole	288-13-1	341.65	1	460.15	1	734.00	2	66.00	2	235.0	2	0.2897	2	0.254	2	0.287
1621	C3H4O	acrolein	107-02-8	185.45	1	325.84	1	506.00	2	50.00	2	197.0	2	0.2846	2	0.234	2	0.320
1622	C3H4O	propargyl alcohol	107-19-7	221.35	1	386.75	1	580.00	2	65.30	2	176.0	2	0.3185	2	0.238	2	0.555
1626	C3H4O2	acrylic acid	79-10-7	286.65	1	414.15	1	615.00	2	56.60	2	208.0	2	0.3465	2	0.230	2	0.518
1627	C3H4O2	beta-propiolactone	57-57-8	239.75	1	435.15	1	686.00	2	69.10	2	206.0	2	0.3498	2	0.250	2	0.358
1628	C3H4O2	vinyl formate	692-45-5	---	---	320.00	1	498.00	2	50.20	2	217.0	2	0.3321	2	0.263	2	0.285
1633	C3H4O3	ethylene carbonate	96-49-1	309.55	1	521.35	1	806.00	2	67.70	2	193.0	2	0.4563	2	0.195	2	0.442
1634	C3H4O3	pyruvic acid	127-17-3	286.75	1	438.15	dec	634.52	2	56.50	2	239.0	2	0.3685	2	0.256	2	0.671
1636	C3H4O4	malonic acid	141-82-2	407.95	1	580.00	2	805.00	2	56.40	2	258.0	2	0.4033	2	0.217	2	0.942
1642	C3H5Br	cis-1-bromo-1-propene	590-13-6	160.15	1	330.95	1	523.23	2	52.13	2	245.5	2	0.4928	2	0.294	2	0.268
1643	C3H5Br	trans-1-bromo-1-propene	590-15-8	196.65	1	336.35	1	531.77	2	52.13	2	245.5	2	0.4928	2	0.289	2	0.268
1644	C3H5Br	2-bromo-1-propene	557-93-7	147.15	1	321.55	1	510.32	2	51.76	2	247.5	2	0.4888	2	0.302	2	0.253
1645	C3H5Br	3-bromo-1-propene	106-95-6	153.76	1	343.16	1	540.20	2	51.39	2	246.5	2	0.4908	2	0.282	2	0.273
1647	C3H5Br	1-bromo-1-propene; (cis+trans)	590-14-7	157.25	1	333.65	1	526.38	2	51.85	2	246.3	2	0.4913	2	0.292	2	0.265
1663	C3H5Br3	1,1,1-tribromopropane	62127-61-1	304.89	2	465.15	1	710.72	2	61.04	2	378.5	2	0.7418	2	0.391	2	0.451
1664	C3H5Br3	1,1,2-tribromopropane	14602-62-1	272.47	2	474.15	1	718.16	2	60.75	2	377.5	2	0.7438	2	0.384	2	0.486
1665	C3H5Br3	1,1,3-tribromopropane	23511-78-6	287.47	2	478.15	1	718.00	2	60.00	2	383.5	2	0.7322	2	0.385	2	0.520
1666	C3H5Br3	1,2,2-tribromopropane	14476-30-3	304.89	2	464.15	1	709.19	2	61.04	2	378.5	2	0.7418	2	0.392	2	0.451
1667	C3H5Br3	1,2,3-tribromopropane	96-11-7	289.34	1	495.31	1	743.76	2	60.00	2	383.5	2	0.7322	2	0.372	2	0.520
1668	C3H5Cl	cis-1-chloro-1-propene	16136-84-8	138.35	1	305.95	1	485.56	2	44.98	2	232.5	2	0.3291	2	0.259	2	0.208
1669	C3H5Cl	trans-1-chloro-1-propene	16136-85-9	174.15	1	310.55	1	492.86	2	44.98	2	232.5	2	0.3291	2	0.255	2	0.208
1670	C3H5Cl	2-chloro-1-propene	557-98-2	135.75	1	295.80	1	478.00	2	47.10	2	234.0	2	0.3270	2	0.277	2	0.152
1671	C3H5Cl	3-chloro-1-propene	107-05-1	138.65	1	318.30	1	514.15	1	47.10	2	234.0	2	0.3270	2	0.258	1,2	0.148
1672	C3H5Cl	1-chloro-1-propene	590-21-6	135.85	1	302.50	1	492.64	2	46.04	2	233.3	2	0.3281	2	0.262	2	0.181
1676	C3H5ClO	alpha-epichlorohydrin	106-89-8	215.95	1	391.65	1	615.00	2	49.00	2	233.0	2	0.3971	2	0.223	2	0.252
1688	C3H5ClO2	methyl chloroacetate	96-34-4	241.03	1	402.97	1	600.00	2	45.00	2	270.0	2	0.4019	2	0.244	2	0.434
1689	C3H5ClO2	ethyl chloroformate	541-41-3	192.00	1	366.00	1	508.15	1	45.00	2	274.0	2	0.3961	2	0.292	1,2	0.835
1703	C3H5Cl3	1,1,1-trichloropropane	7789-89-1	215.25	2	379.15	1	585.43	2	39.16	2	339.5	2	0.4343	2	0.273	2	0.256
1704	C3H5Cl3	1,1,2-trichloropropane	598-77-6	182.83	2	405.15	1	619.96	2	39.01	2	338.5	2	0.4355	2	0.256	2	0.287
1705	C3H5Cl3	1,1,3-trichloropropane	20395-25-9	214.17	1	418.70	1	635.01	2	38.63	2	344.5	2	0.4280	2	0.252	2	0.317
1706	C3H5Cl3	1,2,2-trichloropropane	3175-23-3	215.25	2	396.15	1	611.68	2	39.16	2	339.5	2	0.4343	2	0.261	2	0.256
1707	C3H5Cl3	1,2,3-trichloropropane	96-18-4	258.45	1	430.00	1	652.00	2	38.70	2	334.0	2	0.4414	2	0.238	2	0.306
1711	C3H5F	cis-1-fluoro-1-propene	19184-10-2	150.14	2	271.47	2	430.49	2	44.50	2	201.5	2	0.2981	2	0.251	2	0.208
1712	C3H5F	trans-1-fluoro-1-propene	20327-65-5	150.14	2	271.47	2	430.49	2	44.50	2	201.5	2	0.2981	2	0.251	2	0.208
1713	C3H5F	2-fluoro-1-propene	1184-60-7	139.50	2	249.15	1	396.62	2	44.21	2	203.5	2	0.2952	2	0.273	2	0.193
1714	C3H5F	3-fluoro-1-propene	818-92-8	190.00	2	270.15	1	394.72	2	43.92	2	202.5	2	0.2966	2	0.271	2	0.218
1721	C3H5F3	1,1,1-trifluoropropane	421-07-8	124.35	1	260.15	1	392.00	1	34.50	1	249.0	1	0.3938	1	0.264	1	0.301
1722	C3H5F3	1,1,2-trifluoropropane	---	189.52	2	264.97	2	404.56	2	37.87	2	245.5	2	0.3995	2	0.276	2	0.285
1723	C3H5F3	1,1,3-trifluoropropane	24270-67-5	204.52	2	265.41	2	401.66	2	37.50	2	251.5	2	0.3899	2	0.282	2	0.315
1724	C3H5F3	1,2,2-trifluoropropane	811-94-9	221.94	2	262.62	2	404.58	2	38.01	2	246.5	2	0.3978	2	0.279	2	0.254
1725	C3H5F3	1,2,3-trifluoropropane	66794-36-3	204.52	2	265.41	2	401.66	2	37.50	2	251.5	2	0.3899	2	0.282	2	0.315
1734	C3H5I	cis-1-iodo-1-propene	7796-36-3	176.05	2	365.34	2	582.79	2	45.90	2	271.5	2	0.6187	2	0.257	2	0.198
1735	C3H5I	trans-1-iodo-1-propene	7796-54-5	176.05	2	365.34	2	582.79	2	45.90	2	271.5	2	0.6187	2	0.257	2	0.198
1736	C3H5I	2-iodo-1-propene	4375-96-6	165.41	2	373.15	1	597.58	2	45.59	2	273.5	2	0.6142	2	0.251	2	0.184
1737	C3H5I	3-iodo-1-propene	556-56-9	173.86	1	375.16	1	595.81	2	45.29	2	272.5	2	0.6164	2	0.249	2	0.202
1742	C3H5I3	1,1,1-triiodopropane	---	299.67	2	544.23	2	852.51	2	41.46	2	456.5	2	0.9240	2	0.267	2	0.225
1743	C3H5I3	1,1,2-triiodopropane	---	267.25	2	546.58	2	848.18	2	41.30	2	455.5	2	0.9260	2	0.267	2	0.256
1744	C3H5I3	1,1,3-triiodopropane	---	282.25	2	547.02	2	841.02	2	40.88	2	461.5	2	0.9139	2	0.270	2	0.286
1745	C3H5I3	1,2,2-triiodopropane	---	299.67	2	544.23	2	852.51	2	41.46	2	456.5	2	0.9240	2	0.267	2	0.225

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
1746	C3H5I3	1,2,3-triiodopropane	---	282.25	2	547.02	2	841.02	2	40.88	2	461.5	2	0.9139	2	0.270	2	0.286
1752	C3H5N	propionitrile	107-12-0	180.26	1	370.50	1	564.40	1	41.85	2	229.0	2	0.2405	2	0.204	1,2	0.325
1753	C3H5N	ethyl isocyanide	624-79-3	193.16	2	351.65	1	535.33	2	42.66	2	229.5	2	0.2400	2	0.220	2	0.338
1755	C3H5NO	acrylamide	79-06-1	357.65	1	514.00	2	776.00	2	57.30	2	260.0	2	0.2734	2	0.231	2	0.486
1756	C3H5NO	hydracrylonitrile	109-78-4	227.15	1	494.15	1	690.00	2	48.90	2	243.0	2	0.2925	2	0.207	2	0.826
1757	C3H5NO	lactonitrile	78-97-7	233.00	1	457.00	1	643.00	2	50.30	2	243.0	2	0.2925	2	0.229	2	0.796
1760	C3H5NO	ethyl isocyanate	109-90-0	---	---	333.15	1	526.00	2	46.07	2	246.7	2	0.2920	2	0.260	2	0.255
1796	C3H5N3O9	nitroglycerine	55-63-0	286.15	1	523.00	1	680.00	2	30.00	2	419.0	2	0.5420	2	0.222	2	1.184
1809	C3H6	cyclopropane	75-19-4	145.59	1	240.37	1	397.91	1	54.95	1	162.8	1	0.2585	1	0.270	1	0.127
1810	C3H6	propylene	115-07-1	87.89	1	225.46	1	364.90	1	46.00	1	185.0	1	0.2275	1	0.281	1	0.141
1824	C3H6Br2	1,1-dibromopropane	598-17-4	227.67	2	406.65	1	624.11	2	54.07	2	321.5	2	0.6280	2	0.335	2	0.390
1825	C3H6Br2	1,2-dibromopropane	78-75-1	217.96	1	413.16	1	634.11	2	54.07	2	321.5	2	0.6280	2	0.330	2	0.384
1826	C3H6Br2	1,3-dibromopropane	109-64-8	238.95	1	440.45	1	669.94	2	53.44	2	327.5	2	0.6165	2	0.314	2	0.422
1827	C3H6Br2	2,2-dibromopropane	594-16-1	245.09	2	388.25	1	607.05	2	54.95	2	316.5	2	0.6379	2	0.345	2	0.325
1844	C3H6Cl2	1,1-dichloropropane	78-99-9	167.91	2	361.25	1	560.00	2	42.40	2	291.0	2	0.3883	2	0.265	2	0.253
1845	C3H6Cl2	1,2-dichloropropane	78-87-5	172.71	1	369.52	1	572.00	2	42.40	2	291.0	2	0.3883	2	0.259	2	0.256
1846	C3H6Cl2	1,3-dichloropropane	142-28-9	173.65	1	393.55	1	603.00	2	41.50	2	291.0	2	0.3883	2	0.241	2	0.292
1847	C3H6Cl2	2,2-dichloropropane	594-20-7	239.36	1	342.46	1	539.46	2	41.04	2	290.5	2	0.3889	2	0.266	2	0.198
1848	C3H6Cl2	1,2-dichloropropane, (±)	26198-63-0	172.62	1	369.55	1	568.62	2	41.84	2	290.9	2	0.3885	2	0.257	2	0.249
1849	C3H6Cl2	dichloropropane	26638-19-7	172.65	1	369.75	1	568.62	2	41.84	2	290.9	2	0.3885	2	0.257	2	0.249
1850	C3H6Cl2O	2,3-dichloro-1-propanol	616-23-9	244.00	1	457.15	1	647.00	2	45.00	2	308.0	2	0.4188	2	0.258	2	0.699
1853	C3H6Cl2O	1,3-dichloro-2-propanol	96-23-1	269.15	1	447.45	1	633.00	2	45.00	2	308.0	2	0.4188	2	0.263	2	0.700
1856	C3H6Cl2Si	dichlorovinylmethylsilane	124-70-9	178.15	1	366.95	1	544.10	2	29.40	2	409.0	2	0.3449	2	0.266	2	0.293
1865	C3H6F2	1,1-difluoropropane	430-61-5	172.37	2	281.15	1	430.00	2	37.60	2	236.0	2	0.3393	2	0.248	2	0.276
1866	C3H6F2	1,2-difluoropropane	62126-90-3	171.00	2	288.15	1	443.30	2	38.67	2	248.5	2	0.3222	2	0.261	2	0.265
1867	C3H6F2	1,3-difluoropropane	462-39-5	187.37	2	314.45	1	480.87	2	39.26	2	239.5	2	0.3344	2	0.235	2	0.292
1868	C3H6F2	2,2-difluoropropane	420-45-1	168.35	1	272.75	1	428.96	2	40.21	2	228.5	2	0.3504	2	0.258	2	0.202
1871	C3H6I2	1,1-diiodopropane	10250-52-9	224.19	2	453.88	2	708.27	2	42.06	2	373.5	2	0.7922	2	0.267	2	0.243
1872	C3H6I2	1,2-diiodopropane	598-29-8	253.16	1	500.16	1	780.49	2	42.06	2	373.5	2	0.7922	2	0.242	2	0.237
1873	C3H6I2	1,3-diiodopropane	627-31-6	260.15	1	496.15	1	766.97	2	41.62	2	379.5	2	0.7797	2	0.248	2	0.273
1874	C3H6I2	2,2-diiodopropane	630-13-7	241.61	2	446.15	1	709.92	2	42.66	2	368.5	2	0.8030	2	0.266	2	0.183
1917	C3H6N6	1,3,5-triazine-2,4,6-triamine	108-78-1	625.15	1	704.00	1	1017.00	2	58.60	2	445.0	2	0.2834	2	0.308	2	0.695
1920	C3H6O	allyl alcohol	107-18-6	144.15	1	370.23	1	545.10	1	56.20	2	208.0	2	0.2792	2	0.258	1,2	0.570
1921	C3H6O	methyl vinyl ether	107-25-5	151.15	1	278.65	1	437.00	2	46.70	2	210.0	2	0.2766	2	0.270	2	0.237
1922	C3H6O	propionaldehyde	123-38-6	170.00	1	321.15	1	504.40	1	49.20	2	204.0	1	0.2847	1	0.239	1,2	0.256
1923	C3H6O	acetone	67-64-1	178.45	1	329.44	1	508.20	1	47.02	1	209.0	1	0.2779	1	0.233	1	0.306
1924	C3H6O	1,2-propylene oxide	75-56-9	161.22	1	307.65	1	482.25	1	49.20	1	186.0	1	0.3123	1	0.228	1	0.268
1925	C3H6O	1,3-propylene oxide	503-30-0	---	---	321.00	1	520.00	2	57.50	2	188.0	2	0.3089	2	0.250	2	0.201
1927	C3H6O	(S)-(-)-propylene oxide	16088-62-3	161.25	1	308.05	1	501.13	2	53.37	2	187.0	2	0.3106	2	0.240	2	0.236
1928	C3H6O	(R)-(+)-propylene oxide	15448-47-2	---	---	317.97	2	501.13	2	53.37	2	187.0	2	0.3106	2	0.240	2	0.236
1930	C3H6O2	propanoic acid	79-09-4	252.45	1	414.32	1	600.81	1	46.17	1	233.0	1	0.3179	1	0.215	1	0.575
1931	C3H6O2	ethyl formate	109-94-4	193.55	1	327.46	1	508.40	1	47.42	1	229.0	1	0.3235	1	0.257	1	0.285
1932	C3H6O2	methyl acetate	79-20-9	175.15	1	330.09	1	506.55	1	47.50	1	228.0	1	0.3249	1	0.257	1	0.331
1934	C3H6O2	1-hydroxy-2-propanone	116-09-6	256.15	1	418.65	1	596.00	2	57.40	2	228.0	2	0.3249	2	0.264	2	0.774
1937	C3H6O2	(±)-glycidol	556-52-5	228.15	1	433.65	1	630.00	2	59.50	2	216.0	2	0.3430	2	0.245	2	0.672
1942	C3H6O2S	3-mercaptopropionic acid	107-96-0	290.65	1	501.00	1	729.00	2	50.20	2	281.0	2	0.3777	2	0.233	2	0.589
1948	C3H6O3	lactic acid	50-21-5	289.90	1	490.00	2	675.00	2	59.60	2	251.0	2	0.3589	2	0.267	2	1.022
1949	C3H6O3	methoxyacetic acid	625-45-6	281.00	1	478.26	1	691.00	2	49.80	2	251.0	2	0.3589	2	0.218	2	0.625
1950	C3H6O3	trioxane	110-88-3	334.65	1	387.65	1	604.00	2	58.20	2	224.0	2	0.4021	2	0.260	2	0.334
1953	C3H6O3	dimethyl carbonate	616-38-6	273.15	1	363.40	1	548.00	2	45.00	2	251.0	2	0.3589	2	0.248	2	0.385
1967	C3H6S	thiacyclobutane	287-27-4	199.91	1	368.12	1	602.00	2	58.60	2	218.0	2	0.3401	2	0.255	2	0.173
1968	C3H6S	2-methylthiacyclopropane	1072-43-1	182.15	1	347.55	1	561.10	2	52.36	2	206.5	2	0.3591	2	0.232	2	0.201
1978	C3H7Br	1-bromopropane	106-94-5	163.15	1	344.15	1	544.00	2	53.90	2	266.0	2	0.4624	2	0.317	2	0.285
1979	C3H7Br	2-bromopropane	75-26-3	184.15	1	332.56	1	532.00	2	55.10	2	266.0	2	0.4624	2	0.331	2	0.243
1986	C3H7Cl	1-chloropropane	540-54-5	150.35	1	319.67	1	503.15	1	45.80	1	247.0	2	0.3180	2	0.270	1,2	0.228
1987	C3H7Cl	2-chloropropane	75-29-6	155.97	1	308.85	1	489.00	2	45.40	2	247.0	2	0.3180	2	0.276	2	0.199
2002	C3H7ClO2	3-chloro-1,2-propanediol	96-24-2	233.15	1	486.15	1	648.00	2	52.50	2	283.0	2	0.3906	2	0.276	2	1.219
2020	C3H7F	1-fluoropropane	460-13-9	114.16	1	269.95	1	422.00	2	41.57	2	221.5	2	0.2803	2	0.262	2	0.227
2021	C3H7F	2-fluoropropane	420-26-8	139.80	1	263.81	1	415.68	2	42.00	2	215.5	2	0.2881	2	0.262	2	0.204
2025	C3H7I	1-iodopropane	107-08-4	171.85	1	375.60	1	593.00	2	50.30	2	290.0	2	0.5862	2	0.296	2	0.258
2026	C3H7I	2-iodopropane	75-30-9	183.15	1	362.65	1	578.00	2	51.20	2	290.0	2	0.5862	2	0.309	2	0.238
2030	C3H7N	allylamine	107-11-9	184.95	1	326.45	1	505.00	2	51.70	2	247.0	2	0.2312	2	0.304	2	0.327
2031	C3H7N	propyleneimine	75-55-8	229.00	1	334.00	1	529.00	2	54.20	2	208.0	2	0.2745	2	0.256	2	0.257
2036	C3H7NO	N,N-dimethylformamide	68-12-2	212.72	1	426.15	1	649.60	1	44.20	2	262.0	1	0.2790	1	0.214	1,2	0.318
2037	C3H7NO	N-methylacetamide	79-16-3	301.15	1	478.15	1	718.00	2	49.80	2	267.0	2	0.2738	2	0.223	2	0.435
2038	C3H7NO	N-ethylformamide	627-45-2	230.00	2	471.15	1	647.00	2	44.20	2	267.0	2	0.2738	2	0.219	2	0.376
2045	C3H7NO2	1-nitropropane	108-03-2	169.16	1	404.33	1	605.00	2	43.50	2	288.8	2	0.3085	2	0.250	2	0.413
2046	C3H7NO2	2-nitropropane	79-46-9	181.83	1	393.40	1	594.00	2	44.50	2	288.0	2	0.3094	2	0.260	2	0.384
2094	C3H8	propane	74-98-6	85.47	1	231.11	1	369.83	1	42.48	1	200.0	1	0.2205	1	0.276	1	0.152
2129	C3H8O	propyl alcohol	71-23-8	146.95	1	370.35	1	536.78	1	51.75	1	219.0	1	0.2744	1	0.254	1	0.622
2130	C3H8O	isopropyl alcohol	67-63-0	185.28	1	355.41	1	508.31	1	47.64	1	220.1	1	0.2730	1	0.248	1	0.669
2131	C3H8O	methyl ethyl ether	540-67-0	160.00	1	280.50	1	437.80	1	44.00	1	221.0	1	0.2719	1	0.267	1	0.222
2138	C3H8O2	2-methoxyethanol	109-86-4	188.05	1	397.50	1	564.00	2	50.10	2	242.0	2	0.3144	2	0.259	2	0.733
2139	C3H8O2	methylal	109-87-5	168.35	1	315.00	1	480.60	1	39.52	1	213.0	1	0.3573	1	0.211	1	0.290
2140	C3H8O2	1,2-propanediol (propylene glycol)	57-55-6	213.15	2	460.75	1	626.00	2	61.00	2	239.0	2	0.3184	2	0.280	2	1.107
2141	C3H8O2	1,3-propanediol	504-63-2	246.45	1	487.55	1	724.00	1	95.00	2	217.0	2	0.3507	2	0.342	1,2	0.740
2143	C3H8O2	(R)-(-)-1,2-propanediol	4254-14-2	380.37	1	460.15	1	642.00	2	60.10	2	228.0	2	0.3346	2	0.257	2	1.130
2144	C3H8O2	(S)-(+)-1,2-propanediol	4254-15-3	380.37	1	460.15	1	642.00	2	60.10	2	228.0	2	0.3346	2	0.257	2	1.130
2148	C3H8O3	glycerol	56-81-5	291.33	1	561.00	2	850.00	1	75.00	1	264.0	2	0.3488	2	0.280	1,2	0.513
2156	C3H8O4S	ethyl methyl sulfate	814-40-4	241.15	2	472.42	2	775.00	2	60.25	2	345.5	2	0.4090	2	0.323	2	0.126

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
2158	C3H8S	propyl mercaptan	107-03-9	159.95	1	340.87	1	536.60	1	46.30	2	254.0	2	0.2999	2	0.264	1,2	0.232
2159	C3H8S	isopropyl mercaptan	75-33-2	142.61	1	325.71	1	517.00	2	47.50	2	254.0	2	0.2999	2	0.281	2	0.214
2160	C3H8S	methyl ethyl sulfide	624-89-5	167.23	1	339.80	1	533.00	1	42.60	1	254.0	2	0.2999	2	0.244	1,2	0.209
2161	C3H8S2	bis(methylthio)methane	1618-26-4	---	---	421.15	1	624.00	2	46.15	2	305.0	2	0.3577	2	0.271	2	0.306
2165	C3H9Al	trimethyl aluminum	75-24-1	288.43	1	400.27	1	620.00	2	40.00	2	271.0	2	0.2660	2	0.210	2	0.218
2190	C3H9ClSi	trimethylchlorosilane	75-77-4	215.45	1	330.75	1	497.75	1	32.00	1	366.0	1	0.2968	1	0.283	1	0.270
2193	C3H9Ga	trimethylgallium	1445-79-0	257.45	1	328.95	1	510.00	2	44.00	2	211.0	2	0.5442	2	0.219	2	0.208
2200	C3H9N	propylamine	107-10-8	190.15	1	321.00	1	496.95	1	47.40	1	260.0	2	0.2274	2	0.298	1,2	0.280
2201	C3H9N	isopropylamine	75-31-0	177.95	1	304.92	1	471.85	1	45.40	1	221.0	1	0.2675	1	0.256	1	0.276
2202	C3H9N	methylethylamine	624-78-2	195.00	2	309.15	1	475.00	1	44.60	1	235.0	1	0.2515	1	0.265	1	0.319
2203	C3H9N	trimethylamine	75-50-3	156.08	1	276.02	1	433.25	1	40.73	1	254.0	1	0.2327	1	0.287	1	0.209
2204	C3H9NO	1-amino-2-propanol	78-96-6	274.89	1	432.61	1	614.00	2	56.70	2	278.0	2	0.2702	2	0.309	2	0.787
2205	C3H9NO	3-amino-1-propanol	156-87-6	284.15	1	460.65	1	649.00	2	55.00	2	245.0	2	0.3066	2	0.250	2	0.827
2206	C3H9NO	methylethanolamine	109-83-1	268.65	1	431.15	1	630.00	2	52.20	2	253.0	2	0.2969	2	0.252	2	0.586
2207	C3H9NO	2-amino-1-propanol, (±)	6168-72-5	286.52	2	447.65	1	631.00	2	54.63	2	269.7	2	0.2791	2	0.281	2	0.737
2210	C3H9NO	s(+)-2-amino-1-propanol	2749-11-3	286.52	2	447.65	1	631.00	2	54.63	2	269.7	2	0.2791	2	0.281	2	0.737
2211	C3H9NO	(R)-(-)-1-amino-2-propanol	2799-16-8	297.65	1	433.15	1	631.00	2	54.63	2	269.7	2	0.2791	2	0.281	2	0.737
2212	C3H9NO	(S)-(+)-1-amino-2-propanol	2799-17-9	295.65	1	433.15	1	631.00	2	54.63	2	269.7	2	0.2791	2	0.281	2	0.737
2213	C3H9NO	(R)-(-)-2-amino-1-propanol	35320-23-1	286.52	2	447.65	1	631.00	2	54.63	2	269.7	2	0.2791	2	0.281	2	0.737
2214	C3H9NO	2-aminopropanol	78-91-1	298.15	1	447.15	1	631.00	2	54.63	2	269.7	2	0.2791	2	0.281	2	0.737
2241	C3H9O4P	trimethyl phosphate	512-56-1	227.00	1	470.35	1	729.00	2	83.70	2	277.0	2	0.5057	2	0.383	2	0.489
2255	C3H10N2	1,2-propanediamine	78-90-0	236.53	1	392.45	1	587.00	2	52.70	2	316.0	2	0.2346	2	0.341	2	0.474
2257	C3H10N2	1,2-propanediamine, (±)	10424-38-1	236.53	1	392.65	1	587.00	2	52.70	2	266.9	2	0.2777	2	0.288	2	0.474
2258	C3H10N2	1,3-propanediamine	109-76-2	261.15	1	410.15	1	608.00	2	51.20	2	316.0	2	0.2346	2	0.320	2	0.506
2266	C3H10O3Si	trimethoxysilane	2487-90-3	159.60	1	357.50	1	525.00	2	28.90	2	408.0	2	0.2995	2	0.270	2	0.322
2268	C3H10Si	trimethyl silane	993-07-7	137.26	1	279.85	1	432.00	2	31.90	2	311.0	2	0.2386	2	0.276	2	0.175
2302	C4Cl2F6	1,2-dichloro-1,2,3,3,4,4-hexafluorocyclobutane	356-18-3	249.15	1	332.15	1	497.00	2	27.30	2	386.0	2	0.6035	2	0.255	2	0.233
2317	C4Cl4S	tetrachlorothiophene	6012-97-1	301.97	1	506.54	1	753.00	2	36.70	2	428.0	2	0.5185	2	0.251	2	0.361
2318	C4Cl6	hexachloro-1,3-butadiene	87-68-3	252.15	1	486.15	1	738.00	2	28.40	2	550.0	2	0.4741	2	0.255	2	0.168
2334	C4F8	octafluoro-2-butene	360-89-4	138.15	1	270.36	1	392.00	2	23.30	2	347.0	2	0.5765	2	0.248	2	0.292
2335	C4F8	perfluoroisobutene	382-21-8	143.15	1	280.15	1	392.00	2	23.30	2	347.0	2	0.5765	2	0.248	2	0.291
2336	C4F8	octafluorocyclobutane	115-25-3	232.96	1	267.17	1	388.37	1	27.78	1	324.8	1	0.6159	1	0.279	1	0.356
2337	C4F8	1,1,2,3,3,4,4,4-octafluoro-1-butene	357-26-6	140.65	2	277.00	1	392.00	2	23.30	2	347.0	2	0.5765	2	0.248	2	0.291
2338.1	C4F8O	pentafluoroethyl trifluorovinyl ether	10493-43-3	128.00	2	281.15	1	401.00	2	28.00	2	358.0	2	0.6034	2	0.301	2	0.449
2344	C4F10	decafluorobutane	355-25-9	144.95	1	271.15	1	386.35	1	23.23	1	397.0	1	0.5996	1	0.287	1	0.372
2345	C4F10	perfluoroisobutane	354-92-7	144.95	2	261.15	2	386.35	2	23.23	2	397.0	2	0.5996	2	0.287	2	0.372
2374	C4H2	biacetylene	460-12-8	237.16	1	283.46	1	478.02	2	58.63	2	183.5	2	0.2728	2	0.271	2	0.100
2420	C4H2N2	trans-2-butenedinitrile	764-42-1	369.95	1	459.15	1	657.00	2	37.30	2	287.0	2	0.2720	2	0.196	2	0.557
2420.1	C4H2N2	maleonitrile	928-53-0	304.40	1	492.00	2	704.00	2	37.30	2	287.0	2	0.2720	2	0.183	2	0.558
2430	C4H2O3	maleic anhydride	108-31-6	326.00	1	475.15	1	721.00	2	72.80	2	219.0	2	0.4478	2	0.266	2	0.546
2510	C4H4	vinylacetylene	689-97-4	---	---	278.25	1	454.00	2	48.60	2	205.0	2	0.2540	2	0.264	2	0.118
2562	C4H4N2	succinonitrile	110-61-2	331.30	1	540.15	1	770.00	2	35.40	2	300.0	2	0.2670	2	0.166	2	0.559
2563	C4H4N2	pyrazine	290-37-9	327.15	1	389.15	1	626.00	2	54.90	2	274.0	2	0.2923	2	0.289	2	0.203
2564	C4H4N2	pyridazine	289-80-5	265.15	1	481.15	1	774.00	2	54.90	2	274.0	2	0.2923	2	0.234	2	0.204
2565	C4H4N2	pyrimidine	289-95-2	294.90	1	396.90	1	638.00	2	54.90	2	274.0	2	0.2923	2	0.284	2	0.211
2592	C4H4O	furan	110-00-9	187.55	1	304.50	1	490.15	1	55.00	1	218.0	1	0.3123	1	0.294	1	0.202
2598	C4H4O2	diketene	674-82-8	266.65	1	399.20	1	616.00	2	59.60	2	234.0	2	0.3593	2	0.272	2	0.382
2603	C4H4O3	succinic anhydride	108-30-5	393.00	1	536.58	1	811.00	2	67.30	2	223.0	2	0.4488	2	0.223	2	0.530
2605	C4H4O4	fumaric acid	110-17-8	560.15	1	563.15	1	771.00	2	49.80	2	297.0	2	0.3908	2	0.231	2	0.989
2606	C4H4O4	maleic acid	110-16-7	403.80	1	565.00	1	773.00	2	49.90	2	297.0	2	0.3908	2	0.231	2	0.998
2613	C4H4S	thiophene	110-02-1	234.94	1	357.31	1	579.35	1	56.90	1	219.0	1	0.3842	1	0.259	1	0.197
2634	C4H5Cl	chloroprene	126-99-8	143.15	1	332.55	1	525.00	2	42.60	2	273.0	2	0.3243	2	0.266	2	0.197
2635	C4H5Cl	4-chloro-1,2-butadiene	25790-55-0	---	---	361.15	1	525.00	2	42.60	2	273.0	2	0.3243	2	0.266	2	0.193
2636	C4H5Cl	1-chloro-1,3-butadiene	627-22-5	---	---	341.15	1	525.00	2	42.60	2	273.0	2	0.3243	2	0.266	2	0.193
2695	C4H5N	trans-crotonitrile	627-26-9	222.00	1	394.38	1	586.00	2	38.80	2	282.0	2	0.2379	2	0.225	2	0.398
2696	C4H5N	cis-crotonitrile	1190-76-7	200.55	1	380.60	1	568.00	2	38.80	2	265.0	2	0.2532	2	0.218	2	0.279
2697	C4H5N	methacrylonitrile	126-98-7	237.35	1	363.45	1	554.00	2	38.80	2	265.0	2	0.2532	2	0.223	2	0.301
2698	C4H5N	vinylacetonitrile	109-75-1	186.15	1	391.67	1	584.00	2	38.80	2	259.0	2	0.2590	2	0.207	2	0.378
2699	C4H5N	2-butenenitrile	4786-20-3	221.65	1	393.65	1	573.00	2	38.80	2	267.8	2	0.2508	2	0.218	2	0.364
2701	C4H5N	pyrrole	109-97-7	249.74	1	403.00	1	639.75	1	62.10	2	230.0	2	0.2917	2	0.269	1,2	0.288
2709	C4H5NO	2-hydroxy-3-butenenitrile	5809-59-6	---	---	461.00	2	639.00	2	45.10	2	278.0	2	0.2989	2	0.236	2	0.844
2713	C4H5NO2	methyl cyanoacetate	105-34-0	260.08	1	478.24	1	687.00	2	38.10	2	305.0	2	0.3249	2	0.203	2	0.541
2716	C4H5NO2	succinimide	123-56-8	398.65	1	568.60	1	858.00	2	59.70	2	271.0	2	0.3656	2	0.227	2	0.483
2733	C4H5N3	1,1'-imidodiacetonitrile	628-87-5	349.15	1	527.00	2	731.00	2	35.40	2	357.0	2	0.2664	2	0.208	2	0.719
2753	C4H6	cyclobutene	822-35-5	153.76	1	275.75	1	446.33	2	52.66	2	195.5	2	0.2767	2	0.277	2	0.189
2754	C4H6	dimethylacetylene	503-17-3	240.91	1	300.13	1	473.20	2	48.70	2	221.0	2	0.2448	2	0.274	2	0.239
2755	C4H6	ethylacetylene	107-00-6	147.43	1	281.22	1	443.20	2	49.50	2	222.0	2	0.2437	2	0.298	2	0.247
2756	C4H6	1,2-butadiene	590-19-2	136.95	1	284.00	1	452.00	2	43.60	2	220.0	2	0.2459	2	0.255	2	0.166
2757	C4H6	butadiene (1,3 butadiene)	106-99-0	164.25	1	268.74	1	425.37	1	43.30	1	220.8	1	0.2449	1	0.270	1	0.193
2806	C4H6Cl2	1,3-dichloro-trans-2-butene	7415-31-8	225.15	2	402.00	1	618.00	2	37.80	2	325.0	2	0.3846	2	0.239	2	0.242
2807	C4H6Cl2	1,4-dichloro-cis-2-butene	1476-11-5	223.15	1	425.65	1	640.00	2	37.80	2	343.0	2	0.3644	2	0.244	2	0.330
2808	C4H6Cl2	1,4-dichloro-trans-2-butene	110-57-6	275.65	1	429.26	1	646.00	2	37.80	2	346.0	2	0.3613	2	0.244	2	0.328
2809	C4H6Cl2	3,4-dichloro-1-butene	760-23-6	212.00	1	388.00	1	589.00	2	38.50	2	330.0	2	0.3788	2	0.259	2	0.300
2810	C4H6Cl2	3-chloro-2-(chloromethyl)-1-propene	1871-57-4	259.15	1	411.15	1	640.00	2	37.98	2	332.0	2	0.3767	2	0.237	2	0.302
2811	C4H6Cl2	1,3-dichloro-1-butene	52497-07-1	243.20	2	398.15	1	640.00	2	37.98	2	332.0	2	0.3767	2	0.237	2	0.302
2812	C4H6Cl2	2,3-dichloro-1-butene	7013-11-8	243.20	2	385.15	1	640.00	2	37.98	2	332.0	2	0.3767	2	0.237	2	0.302
2813	C4H6Cl2	1,1-dichloro-2-butene	56800-09-0	243.20	2	399.15	1	640.00	2	37.98	2	332.0	2	0.3767	2	0.237	2	0.302
2814	C4H6Cl2	1,2-dichloro-2-butene	13602-13-6	243.20	2	403.65	1	640.00	2	37.98	2	332.0	2	0.3767	2	0.237	2	0.302
2815	C4H6Cl2	cis-1,3-dichloro-2-butene	10075-38-4	243.20	2	403.15	1	640.00	2	37.98	2	332.0	2	0.3767	2	0.237	2	0.302
2816	C4H6Cl2	cis-2,3-dichloro-2-butene	1587-26-4	243.20	2	398.65	1	640.00	2	37.98	2	332.0	2	0.3767	2	0.237	2	0.302

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
2817	C4H6Cl2	trans-2,3-dichloro-2-butene	1587-29-7	243.20	2	375.15	1	640.00	2	37.98	2	332.0	2	0.3767	2	0.237	2	0.302
2818	C4H6Cl2	1,1-dichloro-2-methyl-1-propene	6065-93-6	230.15	1	381.65	1	640.00	2	37.98	2	332.0	2	0.3767	2	0.237	2	0.302
2819	C4H6Cl2	3,3-dichloro-2-methyl-1-propene	22227-75-4	243.20	2	381.15	1	640.00	2	37.98	2	332.0	2	0.3767	2	0.237	2	0.302
2820	C4H6Cl2	1,4-dichloro-2-butene	764-41-0	276.65	1	430.15	1	640.00	2	37.98	2	332.0	2	0.3767	2	0.237	2	0.302
2821	C4H6Cl2	1,3-dichloro-2-butene, cis and trans	926-57-8	243.20	2	401.15	1	640.00	2	37.98	2	332.0	2	0.3767	2	0.237	2	0.302
2822	C4H6Cl2	dichlorobutene	11069-19-5	243.20	2	400.83	2	640.00	2	37.98	2	332.0	2	0.3767	2	0.237	2	0.302
2856	C4H6Cl4	1,1,1,2-tetrachlorobutane	39966-95-5	301.32	2	408.15	1	690.00	2	34.00	2	439.5	2	0.4457	2	0.260	2	---
2857	C4H6Cl4	1,2,2,3-tetrachlorobutane	79630-70-9	225.15	1	455.15	1	690.00	2	34.00	2	439.5	2	0.4457	2	0.260	2	---
2858	C4H6Cl4	1,2,3,3-tetrachlorobutane	13138-51-7	301.32	2	452.78	2	690.00	2	34.00	2	439.5	2	0.4457	2	0.260	2	---
2859	C4H6Cl4	1,1,1,2-tetrachloro-2-methylpropane	7086-07-9	451.65	1	452.78	2	690.00	2	34.00	2	439.5	2	0.4457	2	0.260	2	---
2860	C4H6Cl4	1,1,2,3-tetrachloro-2-methylpropane	18963-01-4	227.15	1	463.65	1	690.00	2	34.00	2	439.5	2	0.4457	2	0.260	2	---
2861	C4H6Cl4	1,2,3-trichloro-2-(chloromethyl)propane	18963-00-3	301.32	2	484.15	1	690.00	2	34.00	2	439.5	2	0.4457	2	0.260	2	---
2862	C4H6Cl4	1,2,3,4-tetrachlorobutane	3405-32-1	301.32	2	452.78	2	690.00	2	34.00	2	439.5	2	0.4457	2	0.260	2	---
2939.1	C4H6O	cis-crotonaldehyde	15798-64-8	158.38	2	361.87	2	554.00	2	45.90	2	257.0	2	0.2727	2	0.256	2	0.324
2940	C4H6O	trans-crotonaldehyde	123-73-9	196.65	1	375.37	1	569.00	2	42.50	2	250.0	2	0.2804	2	0.225	2	0.338
2941	C4H6O	methacrolein	78-85-3	192.15	1	341.15	1	530.00	2	42.50	2	255.0	2	0.2749	2	0.246	2	0.246
2942	C4H6O	2,5-dihydrofuran	1708-29-8	171.00	2	339.00	1	542.00	2	55.00	2	206.0	2	0.3402	2	0.251	2	0.220
2943	C4H6O	2,3-dihydrofuran	1191-99-7	176.00	2	327.65	1	524.00	2	55.00	2	205.0	2	0.3419	2	0.259	2	0.226
2944	C4H6O	divinyl ether	109-93-3	172.05	1	301.45	1	463.00	2	42.50	2	250.0	2	0.2804	2	0.276	2	0.291
2946	C4H6O	3-buten-2-one	78-94-4	---	---	354.55	1	555.00	2	47.60	2	269.8	2	0.2598	2	0.278	2	---
2956	C4H6O	crotonaldehyde	4170-30-3	198.00	1	377.15	1	550.50	2	45.00	2	239.9	2	0.2921	2	0.236	2	0.296
2958	C4H6O	2-methyl-1-propen-1-one	598-26-5	---	---	365.55	2	555.00	2	47.60	2	269.8	2	0.2598	2	0.278	2	---
2959	C4H6O	methyl vinyl ketone	78-94-4	---	---	412.15	1	555.00	2	47.60	2	269.8	2	0.2598	2	0.278	2	---
2963	C4H6O2	2-butyne-1,4-diol	110-65-6	331.00	1	511.15	1	695.00	2	58.60	2	256.0	2	0.3363	2	0.260	2	1.130
2965	C4H6O2	gamma-butyrolactone	96-48-0	229.78	1	477.15	1	739.00	2	59.40	2	265.0	2	0.3249	2	0.256	2	0.369
2966	C4H6O2	cis-2-butenoic acid	503-64-0	288.65	1	445.05	1	647.00	2	47.00	2	270.0	2	0.3189	2	0.236	2	0.572
2967	C4H6O2	trans-2-butenoic acid	107-93-7	344.55	1	458.15	1	666.00	2	47.00	2	270.0	2	0.3189	2	0.229	2	0.571
2968	C4H6O2	vinylacetic acid	625-38-7	238.15	1	442.15	1	669.69	2	45.41	2	266.5	2	0.3230	2	0.217	2	0.381
2969	C4H6O2	methacrylic acid	79-41-4	288.15	1	434.15	1	662.00	2	47.90	2	280.0	2	0.3075	2	0.244	2	0.332
2970	C4H6O2	methyl acrylate	96-33-3	196.32	1	353.35	1	536.00	2	42.50	2	270.0	2	0.3189	2	0.258	2	0.348
2971	C4H6O2	vinyl acetate	108-05-4	180.35	1	345.65	1	519.13	1	39.58	2	270.0	2	0.3189	2	0.248	1,2	0.351
2972	C4H6O2	allyl formate	1838-59-1	188.34	2	356.75	1	530.00	2	42.50	2	270.0	2	0.3189	2	0.260	2	0.343
2978	C4H6O2	cyclopropanecarboxylic acid	1759-53-1	291.65	1	456.15	1	656.42	2	46.60	2	269.1	2	0.3199	2	0.230	2	0.500
2981	C4H6O2	crotonic acid	3724-65-0	290.23	2	460.15	1	656.42	2	46.60	2	269.1	2	0.3199	2	0.230	2	0.500
2990	C4H6O3	acetic anhydride	108-24-7	200.15	1	412.70	1	606.00	1	40.00	1	290.0	2	0.3520	2	0.230	1,2	0.454
2995	C4H6O3	propylene carbonate	108-32-7	223.95	1	514.85	1	778.00	2	54.10	2	246.0	2	0.4150	2	0.206	2	0.442
3006	C4H6O4	succinic acid	110-15-6	460.65	1	591.00	1	806.00	2	47.10	2	317.0	2	0.3725	2	0.223	2	0.992
3007	C4H6O4	(acetyloxy)acetic acid	13831-30-6	341.15	1	542.00	2	764.00	2	43.20	2	311.0	2	0.3797	2	0.212	2	0.710
3023	C4H6O5	diglycolic acid	110-99-6	421.15	1	610.00	1	820.00	2	44.20	2	331.0	2	0.4051	2	0.215	2	0.108
3024	C4H6O5	malic acid	6915-15-7	403.15	1	602.00	1	781.00	2	50.70	2	331.0	2	0.4051	2	0.258	2	1.526
3033	C4H6O6	tartaric acid	87-69-4	479.15	1	660.00	1	828.00	2	51.80	2	305.0	2	0.4921	2	0.230	2	2.011
3035	C4H6O6	DL-tartaric acid	133-37-9	479.15	1	660.00	2	828.00	2	51.80	2	305.0	2	0.4921	2	0.230	2	2.011
3047	C4H7Br	cis-1-bromo-1-butene	31849-78-2	189.06	2	359.30	1	554.15	2	45.59	2	301.5	2	0.4478	2	0.298	2	0.312
3048	C4H7Br	trans-1-bromo-1-butene	32620-08-9	172.85	1	367.85	1	567.34	2	45.59	2	301.5	2	0.4478	2	0.291	2	0.312
3049	C4H7Br	2-bromo-1-butene	23074-36-4	139.75	1	354.15	1	548.16	2	45.29	2	303.5	2	0.4448	2	0.302	2	0.297
3050	C4H7Br	3-bromo-1-butene	22037-73-6	177.38	2	378.15	1	586.28	2	45.47	2	296.5	2	0.4553	2	0.277	2	0.292
3051	C4H7Br	4-bromo-1-butene	5162-44-7	192.38	2	371.95	1	571.36	2	44.98	2	302.5	2	0.4463	2	0.286	2	0.323
3052	C4H7Br	1-bromo-cis-2-butene	39616-19-8	189.06	2	377.15	1	581.68	2	45.59	2	301.5	2	0.4478	2	0.284	2	0.312
3053	C4H7Br	1-bromo-trans-2-butene	29576-14-5	189.06	2	377.15	1	581.68	2	45.59	2	301.5	2	0.4478	2	0.284	2	0.312
3054	C4H7Br	2-bromo-cis-2-butene	3017-68-3	161.95	1	358.95	1	557.88	2	45.90	2	302.5	2	0.4463	2	0.299	2	0.286
3055	C4H7Br	2-bromo-trans-2-butene	3017-71-8	157.75	1	367.95	1	571.87	2	45.90	2	302.5	2	0.4463	2	0.292	2	0.286
3056	C4H7Br	1-bromo-2-methyl-1-propene	3017-69-4	175.10	2	364.15	1	565.96	2	45.90	2	302.5	2	0.4463	2	0.295	2	0.286
3057	C4H7Br	3-bromo-2-methyl-1-propene	1458-98-6	178.42	2	368.15	1	569.83	2	45.29	2	303.5	2	0.4448	2	0.290	2	0.297
3058	C4H7Br	1-bromo-2-butene	4784-77-4	174.80	2	377.65	1	568.74	2	45.55	2	301.8	2	0.4474	2	0.291	2	0.301
3059	C4H7Br	2-bromo-2-butene; (cis+trans)	13294-71-8	174.80	2	361.65	1	568.74	2	45.55	2	301.8	2	0.4474	2	0.291	2	0.301
3083	C4H7Br3	1,1,1-tribromobutane	62127-62-2	316.16	2	484.15	1	723.31	2	52.82	2	434.5	2	0.6785	2	0.382	2	0.495
3084	C4H7Br3	1,1,2-tribromobutane	3675-68-1	283.74	2	489.35	1	725.15	2	52.59	2	433.5	2	0.6801	2	0.378	2	0.531
3085	C4H7Br3	1,1,3-tribromobutane	---	283.74	2	488.52	2	723.92	2	52.59	2	433.5	2	0.6801	2	0.379	2	0.531
3086	C4H7Br3	1,1,4-tribromobutane	---	298.74	2	488.96	2	718.77	2	51.98	2	439.5	2	0.6708	2	0.382	2	0.565
3087	C4H7Br3	1,2,2-tribromobutane	3675-69-2	316.16	2	486.95	1	727.50	2	52.82	2	434.5	2	0.6785	2	0.379	2	0.495
3088	C4H7Br3	1,2,3-tribromobutane	632-05-3	254.15	1	493.15	1	730.78	2	52.59	2	433.5	2	0.6801	2	0.375	2	0.531
3089	C4H7Br3	1,2,4-tribromobutane	38300-67-3	255.15	1	488.15	1	717.58	2	51.98	2	439.5	2	0.6708	2	0.383	2	0.565
3090	C4H7Br3	1,3,3-tribromobutane	62127-46-2	316.16	2	458.15	1	684.47	2	52.82	2	434.5	2	0.6785	2	0.403	2	0.495
3091	C4H7Br3	2,3,3-tribromobutane	62127-47-3	275.00	1	479.15	1	721.95	2	53.44	2	428.5	2	0.6880	2	0.381	2	0.462
3092	C4H7Br3	1,1,1-tribromo-2-methylpropane	---	301.16	2	485.73	2	731.86	2	53.44	2	428.5	2	0.6880	2	0.376	2	0.462
3093	C4H7Br3	1,1,2-tribromo-2-methylpropane	15331-16-5	301.16	2	503.15	1	758.11	2	53.44	2	428.5	2	0.6880	2	0.363	2	0.462
3094	C4H7Br3	1,1,3-tribromo-2-methylpropane	---	283.74	2	488.52	2	723.92	2	52.59	2	433.5	2	0.6801	2	0.379	2	0.531
3095	C4H7Br3	1,2,3-tribromo-2-methylpropane	631-28-7	316.16	2	493.15	1	736.76	2	52.82	2	434.5	2	0.6785	2	0.375	2	0.495
3096	C4H7Br3	1,3-dibromo-2-(bromomethyl)propane	62127-48-4	241.15	1	493.15	1	724.93	2	51.98	2	439.5	2	0.6708	2	0.379	2	0.565
3098	C4H7Cl	cis-1-chloro-1-butene	7611-86-1	159.18	2	336.65	1	521.07	2	39.71	2	288.5	2	0.3139	2	0.264	2	0.252
3099	C4H7Cl	trans-1-chloro-1-butene	7611-87-2	159.18	2	341.25	1	528.19	2	39.71	2	288.5	2	0.3139	2	0.261	2	0.252
3100	C4H7Cl	2-chloro-1-butene	2211-70-3	148.54	2	331.65	1	515.18	2	39.46	2	290.5	2	0.3117	2	0.268	2	0.237
3101	C4H7Cl	3-chloro-1-butene	563-52-0	147.50	2	337.15	1	524.61	2	39.61	2	283.5	2	0.3194	2	0.257	2	0.233
3102	C4H7Cl	4-chloro-1-butene	927-73-1	162.50	2	347.15	1	535.14	2	39.21	2	289.5	2	0.3128	2	0.255	2	0.262
3103	C4H7Cl	1-chloro-cis-2-butene	4628-21-1	159.18	2	357.35	1	553.11	2	39.71	2	288.5	2	0.3139	2	0.249	2	0.252
3104	C4H7Cl	1-chloro-trans-2-butene	4894-61-5	159.18	2	358.25	1	554.50	2	39.71	2	288.5	2	0.3139	2	0.248	2	0.252
3105	C4H7Cl	2-chloro-cis-2-butene	2211-69-0	155.85	1	339.95	1	530.28	2	39.96	2	289.5	2	0.3128	2	0.262	2	0.227
3106	C4H7Cl	2-chloro-trans-2-butene	2211-68-9	167.35	1	335.75	1	523.73	2	39.96	2	289.5	2	0.3128	2	0.266	2	0.227
3107	C4H7Cl	1-chloro-2-methyl-1-propene	513-37-1	145.22	2	341.25	1	532.31	2	39.96	2	289.5	2	0.3128	2	0.261	2	0.227
3108	C4H7Cl	3-chloro-2-methyl-1-propene	563-47-3	148.54	2	345.35	1	536.47	2	39.46	2	290.5	2	0.3117	2	0.257	2	0.237

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
3110	C4H7Cl	1-chloro-2-butene	591-97-9	208.25	1	352.15	1	532.24	2	39.67	2	288.8	2	0.3136	2	0.259	2	0.242
3111	C4H7Cl	2-chloro-2-butene	4461-41-0	160.04	2	337.65	1	532.24	2	39.67	2	288.8	2	0.3136	2	0.259	2	0.242
3142	C4H7ClO2	ethyl chloroacetate	105-39-5	247.15	1	417.35	1	618.00	2	37.90	2	327.0	2	0.3748	2	0.241	2	0.393
3156	C4H7Cl3	1,1,1-trichlorobutane	13279-85-1	226.52	2	407.15	1	614.26	2	34.85	2	395.5	2	0.4082	2	0.270	2	0.300
3157	C4H7Cl3	1,1,2-trichlorobutane	---	194.10	2	420.00	2	628.34	2	34.72	2	394.5	2	0.4093	2	0.262	2	0.332
3158	C4H7Cl3	1,1,3-trichlorobutane	13279-87-3	194.10	2	426.15	1	628.34	2	34.72	2	394.5	2	0.4093	2	0.262	2	0.332
3159	C4H7Cl3	1,1,4-trichlorobutane	66250-03-1	209.10	2	420.00	2	623.15	2	34.40	2	400.5	2	0.4031	2	0.266	2	0.362
3160	C4H7Cl3	1,2,2-trichlorobutane	---	226.52	2	440.00	2	663.82	2	34.85	2	395.5	2	0.4082	2	0.250	2	0.300
3161	C4H7Cl3	1,2,3-trichlorobutane	18338-40-4	194.10	2	439.15	1	656.99	2	34.72	2	394.5	2	0.4093	2	0.251	2	0.332
3162	C4H7Cl3	1,2,4-trichlorobutane	1790-22-3	209.10	2	440.00	2	652.82	2	34.40	2	400.5	2	0.4031	2	0.254	2	0.362
3163	C4H7Cl3	1,3,3-trichlorobutane	13280-60-9	226.52	2	420.00	2	633.65	2	34.85	2	395.5	2	0.4082	2	0.262	2	0.300
3164	C4H7Cl3	2,3,3-trichlorobutane	10403-60-8	211.52	2	416.15	1	633.36	2	35.18	2	389.5	2	0.4145	2	0.260	2	0.271
3165	C4H7Cl3	1,1,1-trichloro-2-methylpropane	---	211.52	2	415.00	2	631.61	2	35.18	2	389.5	2	0.4145	2	0.261	2	0.271
3166	C4H7Cl3	1,1,2-trichloro-2-methylpropane	29559-52-2	267.15	1	417.65	1	635.65	2	35.18	2	389.5	2	0.4145	2	0.259	2	0.271
3167	C4H7Cl3	1,1,3-trichloro-2-methylpropane	62108-65-0	267.15	1	415.00	2	620.86	2	34.72	2	394.5	2	0.4093	2	0.265	2	0.332
3168	C4H7Cl3	1,2,3-trichloro-2-methylpropane	1871-58-5	226.52	2	437.15	1	659.52	2	34.85	2	395.5	2	0.4082	2	0.251	2	0.300
3169	C4H7Cl3	1,3-dichloro-2-(chloromethyl)-propane	2014-83-7	209.10	2	402.77	2	597.58	2	34.40	2	400.5	2	0.4031	2	0.277	2	0.362
3177	C4H7F	cis-1-fluoro-1-butene	66675-34-1	161.41	2	294.35	2	455.25	2	39.31	2	257.5	2	0.2878	2	0.267	2	0.251
3178	C4H7F	trans-1-fluoro-1-butene	66675-35-2	161.41	2	294.35	2	455.25	2	39.31	2	257.5	2	0.2878	2	0.267	2	0.251
3179	C4H7F	2-fluoro-1-butene	430-44-4	150.77	2	297.65	1	462.01	2	39.06	2	259.5	2	0.2855	2	0.264	2	0.237
3180	C4H7F	3-fluoro-1-butene	---	149.73	2	286.43	2	445.34	2	39.21	2	252.5	2	0.2935	2	0.267	2	0.232
3181	C4H7F	4-fluoro-1-butene	---	164.73	2	286.87	2	441.88	2	38.82	2	258.5	2	0.2866	2	0.273	2	0.261
3182	C4H7F	cis-1-fluoro-2-butene	---	161.41	2	294.35	2	455.25	2	39.31	2	257.5	2	0.2878	2	0.267	2	0.251
3183	C4H7F	trans-1-fluoro-2-butene	---	161.41	2	294.35	2	455.25	2	39.31	2	257.5	2	0.2878	2	0.267	2	0.251
3184	C4H7F	cis-2-fluoro-2-butene	66675-38-5	147.45	2	300.15	1	467.83	2	39.56	2	258.5	2	0.2866	2	0.263	2	0.227
3185	C4H7F	trans-2-fluoro-2-butene	66675-39-6	147.45	2	300.15	1	467.83	2	39.56	2	258.5	2	0.2866	2	0.263	2	0.227
3186	C4H7F	1-fluoro-2-methyl-1-propene	---	147.45	2	305.00	2	475.39	2	39.56	2	258.5	2	0.2866	2	0.259	2	0.227
3187	C4H7F	3-fluoro-2-methyl-1-propene	---	150.77	2	305.00	2	473.42	2	39.06	2	259.5	2	0.2855	2	0.258	2	0.237
3192	C4H7F3	1,1,1-trifluorobutane	460-34-4	158.35	1	289.85	1	425.80	2	31.40	2	302.0	2	0.3712	2	0.268	2	0.368
3193	C4H7F3	1,1,2-trifluorobutane	---	200.79	2	287.85	2	429.75	2	33.76	2	301.5	2	0.3718	2	0.285	2	0.330
3194	C4H7F3	1,1,3-trifluorobutane	---	200.79	2	287.85	2	429.75	2	33.76	2	301.5	2	0.3718	2	0.285	2	0.330
3195	C4H7F3	1,1,4-trifluorobutane	---	215.79	2	288.29	2	426.87	2	33.45	2	307.5	2	0.3645	2	0.290	2	0.360
3196	C4H7F3	1,2,2-trifluorobutane	---	233.21	2	285.50	2	429.82	2	33.88	2	302.5	2	0.3706	2	0.287	2	0.298
3197	C4H7F3	1,2,3-trifluorobutane	---	200.79	2	287.85	2	429.75	2	33.76	2	301.5	2	0.3718	2	0.285	2	0.330
3198	C4H7F3	1,2,4-trifluorobutane	---	215.79	2	288.29	2	426.87	2	33.45	2	307.5	2	0.3645	2	0.290	2	0.360
3199	C4H7F3	1,3,3-trifluorobutane	---	233.21	2	285.50	2	429.82	2	33.88	2	302.5	2	0.3706	2	0.287	2	0.298
3200	C4H7F3	2,3,3-trifluorobutane	---	218.21	2	285.06	2	432.90	2	34.20	2	296.5	2	0.3781	2	0.282	2	0.269
3201	C4H7F3	1,1,1-trifluoro-2-methylpropane	---	218.21	2	285.06	2	432.90	2	34.20	2	296.5	2	0.3781	2	0.282	2	0.269
3202	C4H7F3	1,1,2-trifluoro-2-methylpropane	---	218.21	2	285.06	2	432.90	2	34.20	2	296.5	2	0.3781	2	0.282	2	0.269
3203	C4H7F3	1,1,3-trifluoro-2-methylpropane	---	200.79	2	287.85	2	429.75	2	33.76	2	301.5	2	0.3718	2	0.285	2	0.330
3204	C4H7F3	1,3-difluoro-2-(fluoromethyl)-propane	---	215.79	2	288.29	2	426.87	2	33.45	2	307.5	2	0.3645	2	0.290	2	0.360
3209	C4H7I	cis-1-iodo-1-butene	54068-75-6	187.32	2	441.15	1	686.08	2	40.47	2	327.5	2	0.5557	2	0.232	2	0.242
3210	C4H7I	trans-1-iodo-1-butene	62154-92-1	187.32	2	400.65	1	623.09	2	40.47	2	327.5	2	0.5557	2	0.256	2	0.242
3211	C4H7I	2-iodo-1-butene	24308-61-0	176.68	2	400.00	2	624.36	2	40.21	2	329.5	2	0.5524	2	0.255	2	0.227
3212	C4H7I	3-iodo-1-butene	62154-74-9	175.64	2	400.00	2	625.42	2	40.36	2	322.5	2	0.5644	2	0.250	2	0.223
3213	C4H7I	4-iodo-1-butene	7766-51-0	190.64	2	400.00	2	619.52	2	39.96	2	328.5	2	0.5540	2	0.255	2	0.252
3214	C4H7I	1-iodo-cis-2-butene	53121-23-6	187.32	2	405.15	1	630.09	2	40.47	2	327.5	2	0.5557	2	0.253	2	0.242
3215	C4H7I	1-iodo-trans-2-butene	38169-04-9	187.32	2	405.15	1	630.09	2	40.47	2	327.5	2	0.5557	2	0.253	2	0.242
3216	C4H7I	2-iodo-cis-2-butene	24298-09-7	173.36	2	388.10	2	608.34	2	40.73	2	328.5	2	0.5540	2	0.265	2	0.217
3217	C4H7I	2-iodo-trans-2-butene	24298-08-6	173.36	2	388.10	2	608.34	2	40.73	2	328.5	2	0.5540	2	0.265	2	0.217
3218	C4H7I	1-iodo-2-methyl-1-propene	20687-01-8	173.36	2	388.10	2	608.34	2	40.73	2	328.5	2	0.5540	2	0.265	2	0.217
3219	C4H7I	3-iodo-2-methyl-1-propene	3756-30-7	176.68	2	380.62	2	594.11	2	40.21	2	329.5	2	0.5524	2	0.268	2	0.227
3224	C4H7I3	1,1,1-triiodobutane	---	310.94	2	567.11	2	867.15	2	36.78	2	512.5	2	0.8504	2	0.261	2	0.269
3225	C4H7I3	1,1,2-triiodobutane	---	278.52	2	569.46	2	863.14	2	36.64	2	511.5	2	0.8520	2	0.261	2	0.301
3226	C4H7I3	1,1,3-triiodobutane	---	278.52	2	569.46	2	863.14	2	36.64	2	511.5	2	0.8520	2	0.261	2	0.301
3227	C4H7I3	1,1,4-triiodobutane	---	293.52	2	569.90	2	856.37	2	36.29	2	517.5	2	0.8422	2	0.264	2	0.331
3228	C4H7I3	1,2,2-triiodobutane	---	310.94	2	567.11	2	867.15	2	36.78	2	512.5	2	0.8504	2	0.261	2	0.269
3229	C4H7I3	1,2,3-triiodobutane	---	278.52	2	569.46	2	863.14	2	36.64	2	511.5	2	0.8520	2	0.261	2	0.301
3230	C4H7I3	1,2,4-triiodobutane	---	293.52	2	569.90	2	856.37	2	36.29	2	517.5	2	0.8422	2	0.264	2	0.331
3231	C4H7I3	1,3,3-triiodobutane	---	310.94	2	567.11	2	867.15	2	36.78	2	512.5	2	0.8504	2	0.261	2	0.269
3232	C4H7I3	2,2,3-triiodobutane	---	295.94	2	566.67	2	874.42	2	37.13	2	506.5	2	0.8604	2	0.259	2	0.240
3233	C4H7I3	1,1,1-triiodo-2-methylpropane	---	295.94	2	566.67	2	874.42	2	37.13	2	506.5	2	0.8604	2	0.259	2	0.240
3234	C4H7I3	1,1,2-triiodo-2-methylpropane	---	295.94	2	566.67	2	874.42	2	37.13	2	506.5	2	0.8604	2	0.259	2	0.240
3235	C4H7I3	1,1,3-triiodo-2-methylpropane	---	278.52	2	569.46	2	863.14	2	36.64	2	511.5	2	0.8520	2	0.261	2	0.301
3236	C4H7I3	1,2,3-triiodo-2-methylpropane	---	310.94	2	567.11	2	867.15	2	36.78	2	512.5	2	0.8504	2	0.261	2	0.269
3237	C4H7I3	1,3-diiodo-2-(iodomethyl)-propane	---	293.52	2	569.90	2	856.37	2	36.29	2	517.5	2	0.8422	2	0.264	2	0.331
3238	C4H7N	butyronitrile	109-74-0	161.25	1	390.75	1	582.35	1	37.90	1	278.0	2	0.2486	2	0.218	1,2	0.371
3239	C4H7N	isobutyronitrile	78-82-0	201.70	1	376.76	1	565.00	2	37.60	2	278.0	2	0.2486	2	0.223	2	0.338
3240	C4H7N	propyl isocyanide	627-36-1	204.43	2	372.15	1	554.09	2	37.78	2	285.5	2	0.2421	2	0.234	2	0.383
3241	C4H7N	isopropyl isocyanide	598-45-8	189.43	2	360.35	1	541.04	2	38.15	2	279.5	2	0.2473	2	0.237	2	0.353
3246	C4H7NO	acetone cyanohydrin	75-86-5	253.15	1	444.00	2	620.00	2	42.50	2	296.0	2	0.2875	2	0.244	2	0.767
3247	C4H7NO	2-methacrylamide	79-39-0	383.65	1	488.00	1	741.00	2	54.50	2	298.0	2	0.2856	2	0.264	2	0.421
3248	C4H7NO	3-methoxypropionitrile	110-67-8	210.12	1	439.00	1	638.00	2	36.30	2	324.0	2	0.2627	2	0.222	2	0.465
3249	C4H7NO	2-pyrrolidone	616-45-5	297.15	1	524.32	1	802.00	2	61.70	2	264.0	2	0.3224	2	0.244	2	0.432
3254	C4H7NO	propyl isocyanate	110-78-1	---	---	356.65	1	547.00	2	40.23	2	303.3	2	0.2837	2	0.268	2	0.335
3318	C4H8	methylcyclopropane	594-11-6	95.85	1	273.88	1	437.13	2	46.15	2	216.5	2	0.2592	2	0.275	2	0.198
3319	C4H8	cyclobutane	287-23-0	182.48	1	285.66	1	459.93	2	49.80	2	210.0	2	0.2672	2	0.273	2	0.185
3320	C4H8	1-butene	106-98-9	87.80	1	266.90	1	419.59	1	40.20	1	239.9	1	0.2338	1	0.276	1	0.187
3321	C4H8	2-butene; (cis+trans)	107-01-7	130.62	2	275.50	1	425.43	2	40.82	2	237.8	2	0.2360	2	0.274	2	0.199
3322	C4H8	cis-2-butene	590-18-1	134.26	1	276.87	1	435.58	1	42.06	1	234.0	1	0.2398	1	0.272	1	0.203

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
3323	C4H8	trans-2-butene	624-64-6	167.62	1	274.03	1	428.63	1	41.02	1	238.2	1	0.2356	1	0.274	1	0.218
3324	C4H8	isobutene	115-11-7	132.81	1	266.25	1	417.90	1	39.99	1	238.9	1	0.2349	1	0.275	1	0.189
3333	C4H8Br2	1,1-dibromobutane	62168-25-6	238.94	2	431.15	1	646.82	2	47.17	2	377.5	2	0.5720	2	0.331	2	0.435
3334	C4H8Br2	1,2-dibromobutane	533-98-2	207.76	1	439.46	1	659.28	2	47.17	2	377.5	2	0.5720	2	0.325	2	0.429
3335	C4H8Br2	1,3-dibromobutane	107-80-2	238.94	2	448.15	1	672.32	2	47.17	2	377.5	2	0.5720	2	0.319	2	0.435
3336	C4H8Br2	1,4-dibromobutane	110-52-1	256.62	1	470.15	1	699.44	2	46.66	2	383.5	2	0.5630	2	0.308	2	0.467
3337	C4H8Br2	2,2-dibromobutane	50341-35-0	256.36	2	417.15	1	636.75	2	47.89	2	372.5	2	0.5796	2	0.337	2	0.369
3338	C4H8Br2	DL-2,3-dibromobutane	598-71-0	223.94	2	433.65	1	656.19	2	47.69	2	371.5	2	0.5812	2	0.325	2	0.403
3339	C4H8Br2	meso-2,3-dibromobutane	5780-13-2	238.65	1	430.45	1	651.35	2	47.69	2	371.5	2	0.5812	2	0.327	2	0.403
3340	C4H8Br2	1,1-dibromo-2-methylpropane	33693-78-6	223.94	2	420.15	1	635.76	2	47.69	2	371.5	2	0.5812	2	0.335	2	0.403
3341	C4H8Br2	1,2-dibromo-2-methylpropane	594-34-3	283.65	1	422.15	1	644.38	2	47.89	2	372.5	2	0.5796	2	0.333	2	0.369
3342	C4H8Br2	1,3-dibromo-2-methylpropane	28148-04-1	238.94	2	448.15	1	672.32	2	47.17	2	377.5	2	0.5720	2	0.319	2	0.435
3343	C4H8Br2	2,3-dibromobutane	5408-86-6	249.15	1	434.15	1	657.46	2	47.42	2	375.3	2	0.5754	2	0.326	2	0.415
3360	C4H8Cl2	1,1-dichlorobutane	541-33-3	179.18	2	386.95	1	584.34	2	35.94	2	351.5	2	0.3613	2	0.260	2	0.308
3361	C4H8Cl2	1,2-dichlorobutane	616-21-7	210.00	2	397.15	1	600.00	2	36.80	2	343.0	2	0.3703	2	0.253	2	0.299
3362	C4H8Cl2	1,3-dichlorobutane	1190-22-3	179.18	2	406.65	1	614.09	2	35.94	2	351.5	2	0.3613	2	0.247	2	0.308
3363	C4H8Cl2	1,4-dichlorobutane	110-56-5	235.85	1	428.25	1	641.00	2	36.10	2	343.0	2	0.3703	2	0.232	2	0.326
3364	C4H8Cl2	2,2-dichlorobutane	4279-22-5	199.15	1	376.15	1	578.17	2	36.42	2	346.5	2	0.3666	2	0.263	2	0.247
3365	C4H8Cl2	DL-2,3-dichlorobutane	2211-67-8	193.15	1	392.65	1	598.18	2	36.29	2	345.5	2	0.3676	2	0.252	2	0.278
3366	C4H8Cl2	meso-2,3-dichlorobutane	4028-56-2	192.75	1	389.15	1	592.85	2	36.29	2	345.5	2	0.3676	2	0.254	2	0.278
3367	C4H8Cl2	1,1-dichloro-2-methylpropane	598-76-5	164.18	2	378.15	1	576.09	2	36.29	2	345.5	2	0.3676	2	0.262	2	0.278
3368	C4H8Cl2	1,2-dichloro-2-methylpropane	594-37-6	196.60	2	380.15	1	584.32	2	36.42	2	346.5	2	0.3666	2	0.260	2	0.247
3369	C4H8Cl2	1,3-dichloro-2-methylpropane	616-19-3	179.18	2	408.15	1	616.35	2	35.94	2	351.5	2	0.3613	2	0.247	2	0.308
3370	C4H8Cl2	2,3-dichlorobutane, dl and meso	7581-97-7	193.15	1	392.65	1	599.00	2	37.40	2	343.0	2	0.3703	2	0.258	2	0.268
3371	C4H8Cl2	mixo-dichlorobutane	26761-81-9	190.15	2	393.94	2	598.51	2	36.16	2	347.9	2	0.3652	2	0.253	2	0.288
3375	C4H8Cl2O	bis(2-chloroethyl) ether	111-44-4	226.15	1	451.65	1	666.00	2	35.90	2	364.0	2	0.3929	2	0.236	2	0.394
3389	C4H8F2	1,1-difluorobutane	2358-38-5	183.64	2	314.15	1	463.30	2	32.60	2	288.0	2	0.3268	2	0.244	2	0.367
3390	C4H8F2	1,2-difluorobutane	686-65-7	183.64	2	323.15	1	487.30	2	35.26	2	289.5	2	0.3251	2	0.252	2	0.306
3391	C4H8F2	1,3-difluorobutane	691-42-9	183.64	2	333.15	1	502.38	2	35.26	2	289.5	2	0.3251	2	0.244	2	0.306
3392	C4H8F2	1,4-difluorobutane	372-90-7	198.64	2	350.95	1	524.74	2	34.93	2	295.5	2	0.3185	2	0.237	2	0.336
3393	C4H8F2	2,2-difluorobutane	353-81-1	155.65	1	304.05	1	466.65	2	35.73	2	284.5	2	0.3308	2	0.262	2	0.246
3394	C4H8F2	2,3-difluorobutane	666-21-7	168.64	2	320.15	1	487.02	2	35.60	2	283.5	2	0.3319	2	0.249	2	0.277
3395	C4H8F2	1,1-difluoro-2-methylpropane	62126-91-4	168.64	2	306.15	1	465.72	2	35.60	2	283.5	2	0.3319	2	0.261	2	0.277
3396	C4H8F2	1,2-difluoro-2-methylpropane	62126-92-5	201.06	2	308.15	1	472.94	2	35.73	2	284.5	2	0.3308	2	0.259	2	0.246
3397	C4H8F2	1,3-difluoro-2-methylpropane	62126-93-6	183.64	2	336.15	1	506.90	2	35.26	2	289.5	2	0.3251	2	0.242	2	0.306
3401	C4H8I2	1,1-diiodobutane	66587-65-3	235.46	2	476.76	2	726.41	2	37.27	2	429.5	2	0.7216	2	0.265	2	0.287
3402	C4H8I2	1,2-diiodobutane	53161-72-1	279.06	1	476.76	1	726.41	2	37.27	2	429.5	2	0.7216	2	0.265	2	0.281
3403	C4H8I2	1,3-diiodobutane	18371-24-9	235.46	2	476.76	2	726.41	2	37.27	2	429.5	2	0.7216	2	0.265	2	0.287
3404	C4H8I2	1,4-diiodobutane	628-21-7	279.05	1	477.20	2	720.71	2	36.91	2	435.5	2	0.7116	2	0.268	2	0.317
3405	C4H8I2	2,2-diiodobutane	29443-50-3	252.88	2	473.97	2	735.41	2	37.78	2	424.5	2	0.7301	2	0.262	2	0.227
3406	C4H8I2	2,3-diiodobutane	66587-66-4	220.46	2	476.32	2	732.32	2	37.64	2	423.5	2	0.7318	2	0.262	2	0.258
3407	C4H8I2	1,1-diiodo-2-methylpropane	10250-55-2	220.46	2	476.32	2	732.32	2	37.64	2	423.5	2	0.7318	2	0.262	2	0.258
3408	C4H8I2	1,2-diiodo-2-methylpropane	66794-23-8	252.88	2	473.97	2	735.41	2	37.78	2	424.5	2	0.7301	2	0.262	2	0.227
3409	C4H8I2	1,3-diiodo-2-methylpropane	17616-44-3	235.46	2	476.76	2	726.41	2	37.27	2	429.5	2	0.7216	2	0.265	2	0.287
3474	C4H8O	1,2-epoxybutane	106-88-7	143.87	1	336.57	1	526.00	2	43.90	2	258.0	2	0.2795	2	0.259	2	0.235
3476	C4H8O	ethyl vinyl ether	109-92-2	157.35	1	308.70	1	475.15	1	40.70	1	263.0	2	0.2742	2	0.271	1,2	0.267
3477	C4H8O	3-methoxy-1-propene	627-40-7	157.35	2	317.15	1	475.15	2	40.73	2	263.0	2	0.2742	2	0.271	2	0.266
3478	C4H8O	butyraldehyde	123-72-8	176.75	1	347.95	1	537.20	1	43.20	1	258.0	1	0.2795	1	0.250	1	0.277
3479	C4H8O	isobutyraldehyde	78-84-2	208.15	1	337.25	1	507.00	2	41.00	2	263.0	2	0.2742	2	0.256	2	0.362
3480	C4H8O	methyl ethyl ketone	78-93-3	186.48	1	352.79	1	535.50	1	41.54	1	267.0	1	0.2701	1	0.249	1	0.324
3481	C4H8O	tetrahydrofuran	109-99-9	164.65	1	338.00	1	540.15	1	51.88	1	223.9	1	0.3220	1	0.259	1	0.226
3482	C4H8O	cis-crotonyl alcohol	4088-60-2	194.65	2	396.15	1	559.00	2	52.20	2	223.2	2	0.3231	2	0.251	2	---
3483	C4H8O	trans-2-buten-1-ol	504-61-0	188.95	2	394.35	1	559.00	2	52.20	2	223.2	2	0.3231	2	0.251	2	---
3484	C4H8O	2-buten-1-ol	6117-91-5	188.95	2	394.65	1	559.00	2	52.20	2	223.2	2	0.3231	2	0.251	2	---
3485	C4H8O	3-buten-1-ol	627-27-0	188.95	2	386.65	1	559.00	2	52.20	2	223.2	2	0.3231	2	0.251	2	---
3486	C4H8O	3-buten-2-ol, (±)	6118-14-5	188.95	2	370.45	1	559.00	2	52.20	2	223.2	2	0.3231	2	0.251	2	---
3487	C4H8O	2-methyl-2-propenol	513-42-8	188.95	2	387.65	1	559.00	2	52.20	2	223.2	2	0.3231	2	0.251	2	---
3490	C4H8O	2,2-dimethyloxirane	558-30-5	---	---	324.65	1	521.00	2	46.60	2	242.0	2	0.2980	2	0.260	2	0.171
3493	C4H8O	3-buten-2-ol	598-32-3	183.25	1	370.15	1	559.00	2	52.20	2	223.2	2	0.3231	2	0.251	2	---
3499	C4H8OS	s-ethyl thioacetate	625-60-5	200.00	2	388.00	1	590.55	1	40.75	1	319.0	1	0.3266	1	0.265	1	0.310
3500	C4H8OS	3-(methylthio)propanal	3268-49-3	247.00	2	438.65	1	650.00	2	40.20	2	314.0	2	0.3318	2	0.234	2	0.417
3504	C4H8O2	butyric acid	107-92-6	267.95	1	436.42	1	615.70	1	40.64	1	291.7	1	0.3020	1	0.232	1	0.681
3505	C4H8O2	isobutyric acid	79-31-2	227.15	1	427.65	1	605.00	1	37.00	1	292.0	1	0.3017	1	0.215	1	0.614
3506	C4H8O2	propyl formate	110-74-7	180.25	1	353.97	1	538.00	1	40.63	1	285.0	1	0.3091	1	0.259	1	0.318
3507	C4H8O2	isopropyl formate	625-55-8	178.04	2	341.25	1	518.50	2	38.90	2	282.0	2	0.3124	2	0.254	2	0.313
3508	C4H8O2	ethyl acetate	141-78-6	189.60	1	350.21	1	523.30	1	38.80	1	286.0	1	0.3081	1	0.255	1	0.366
3509	C4H8O2	methyl propanoate	554-12-1	185.65	1	352.60	1	530.60	1	40.04	1	282.0	1	0.3124	1	0.256	1	0.347
3510	C4H8O2	1,4-dioxane	123-91-1	284.95	1	374.47	1	587.00	1	52.08	1	238.0	1	0.3702	1	0.254	1	0.280
3511	C4H8O2	cis-2-butene-1,4-diol	6117-80-2	284.15	1	508.15	1	678.00	2	52.00	2	279.0	2	0.3158	2	0.257	2	1.175
3512	C4H8O2	trans-2-butene-1,4-diol	821-11-4	300.45	1	499.00	1	666.00	2	52.00	2	279.0	2	0.3158	2	0.262	2	1.219
3513	C4H8O2	3-butene-1,2-diol	497-06-3	288.25	2	469.65	1	679.44	2	52.00	2	279.0	2	0.3158	2	0.257	2	1.174
3514	C4H8O2	1,3-dioxane	505-22-6	228.15	1	378.15	1	590.00	2	51.50	2	239.0	2	0.3686	2	0.251	2	0.289
3517	C4H8O2	3-hydroxybutanal	107-89-1	---	---	444.00	2	620.00	2	45.90	2	278.0	2	0.3169	2	0.248	2	0.797
3526	C4H8O2	2-butene-1,4-diol	110-64-5	280.15	1	408.11	2	679.44	2	52.00	2	279.0	2	0.3158	2	0.257	2	1.174
3533	C4H8O2	R,S-3-butene-1,2-diol	86161-40-2	288.25	2	414.90	1	679.44	2	52.00	2	279.0	2	0.3158	2	0.257	2	1.174
3535.1	C4H8O2	4-hydroxybutraldehyde	25714-71-0	---	---	432.00	2	599.00	2	44.80	2	265.0	2	0.3325	2	0.238	2	0.840
3535.2	C4H8O2	3-hydroxy-2-methyl propionaldehyde	38433-80-6	---	---	440.00	2	615.00	2	45.90	2	281.0	2	0.3135	2	0.252	2	0.793
3536	C4H8O2S	sulfolane	126-33-0	300.55	1	560.45	1	853.00	2	50.30	2	300.0	2	0.4006	2	0.213	2	0.382
3552	C4H8O3	2-hydroxy-2-methylpropanoic acid	594-61-6	352.15	1	485.15	1	664.00	2	49.20	2	301.0	2	0.3459	2	0.268	2	0.983
3564	C4H8O3	methyl lactate	547-64-8	207.15	1	417.95	1	584.00	2	44.80	2	301.0	2	0.3459	2	0.278	2	0.770

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
3581	C4H8S	tetrahydrothiophene	110-01-0	176.99	1	394.27	1	631.95	1	51.60	2	249.0	2	0.3541	2	0.245	1,2	0.200
3583	C4H8S	2-ethylthiacyclopropane	3195-86-6	235.73	2	378.15	1	594.72	2	45.78	2	262.5	2	0.3359	2	0.243	2	0.244
3584	C4H8S	2,2-dimethylthiacyclopropane	3772-13-2	259.63	2	359.15	1	574.84	2	48.70	2	260.5	2	0.3385	2	0.265	2	0.206
3585	C4H8S	2,cis-3-dimethylthiacyclopropane	5954-71-2	231.49	2	340.82	2	537.89	2	43.80	2	261.5	2	0.3372	2	0.256	2	0.218
3586	C4H8S	2,trans-3-dimethylthiacyclopropane	5955-98-6	231.49	2	340.82	2	537.89	2	43.80	2	261.5	2	0.3372	2	0.256	2	0.218
3598	C4H9Br	1-bromobutane	109-65-9	160.75	1	374.75	1	577.00	2	45.40	2	319.0	2	0.4295	2	0.302	2	0.323
3599	C4H9Br	2-bromobutane	78-76-2	161.25	1	364.37	1	567.00	2	46.30	2	320.0	2	0.4282	2	0.314	2	0.268
3600	C4H9Br	1-bromo-2-methylpropane	78-77-3	155.75	1	364.68	1	559.14	2	43.00	2	315.5	2	0.4343	2	0.292	2	0.314
3601	C4H9Br	2-bromo-2-methylpropane	507-19-7	256.95	1	346.40	1	541.05	2	43.63	2	310.5	2	0.4413	2	0.301	2	0.252
3602	C4H9Br	2-bromobutane, (±)	5787-31-5	160.50	1	364.45	1	561.05	2	44.58	2	316.3	2	0.4333	2	0.302	2	0.289
3610	C4H9Cl	1-chlorobutane	109-69-3	150.05	1	351.58	1	537.00	2	38.20	2	300.0	2	0.3086	2	0.257	2	0.274
3611	C4H9Cl	1-chloro-2-methylpropane	513-36-0	142.85	1	342.00	1	528.00	2	39.00	2	300.0	2	0.3086	2	0.267	2	0.242
3612	C4H9Cl	2-chlorobutane	78-86-4	141.85	1	341.25	1	520.60	1	39.00	2	300.0	2	0.3086	2	0.270	1,2	0.291
3613	C4H9Cl	2-chloro-2-methylpropane	507-20-0	247.75	1	323.75	1	507.00	2	39.00	2	300.0	2	0.3086	2	0.278	2	0.191
3614	C4H9Cl	2-chlorobutane	53178-20-4	141.85	1	341.35	1	522.70	2	38.45	2	300.6	2	0.3080	2	0.266	2	0.253
3657	C4H9F	1-fluorobutane	2366-52-1	139.15	1	305.65	1	460.70	2	35.30	2	278.0	2	0.2738	2	0.256	2	0.309
3658	C4H9F	2-fluorobutane	359-01-3	151.75	1	298.25	1	458.55	2	37.23	2	271.5	2	0.2803	2	0.265	2	0.254
3659	C4H9F	1-fluoro-2-methylpropane	359-00-2	151.49	2	289.15	1	444.56	2	37.23	2	271.5	2	0.2803	2	0.273	2	0.254
3660	C4H9F	2-fluoro-2-methylpropane	353-61-7	196.15	1	285.25	1	446.83	2	37.73	2	266.5	2	0.2856	2	0.271	2	0.194
3666	C4H9I	1-iodobutane	542-69-8	170.15	1	403.68	1	621.00	2	43.20	2	343.0	2	0.5365	2	0.287	2	0.209
3667	C4H9I	2-iodobutane	513-48-4	169.15	1	393.15	1	563.37	2	46.28	2	272.5	2	0.6753	2	0.269	2	0.648
3668	C4H9I	1-iodo-2-methylpropane	513-38-2	182.45	1	393.55	1	563.95	2	46.28	2	272.5	2	0.6753	2	0.269	2	0.648
3669	C4H9I	2-iodo-2-methylpropane	558-17-8	234.96	1	373.16	1	587.90	2	38.82	2	336.5	2	0.5469	2	0.267	2	0.179
3670	C4H9I	2-iodobutane, (±)	52152-71-3	168.95	1	393.25	1	572.40	2	44.29	2	290.0	2	0.6396	2	0.270	2	0.540
3675	C4H9N	pyrrolidine	123-75-1	215.31	1	359.72	1	568.55	1	56.10	1	249.0	1	0.2856	1	0.296	1	0.267
3681	C4H9NO	N,N-dimethylacetamide	127-19-5	253.15	1	439.25	1	658.00	2	40.30	2	321.0	2	0.2714	2	0.236	2	0.364
3682	C4H9NO	morpholine	110-91-8	268.55	1	401.15	1	618.00	2	53.40	2	276.0	2	0.3157	2	0.287	2	0.355
3697	C4H9NO2	1-nitrobutane	627-05-4	191.82	1	425.92	1	623.00	2	37.60	2	341.0	2	0.3024	2	0.248	2	0.455
3698	C4H9NO2	2-nitrobutane	600-24-8	141.16	1	412.85	1	615.00	2	36.00	2	335.5	2	0.3074	2	0.236	2	0.357
3699	C4H9NO2	1-nitro-2-methylpropane	625-74-1	196.30	1	414.87	1	609.00	2	35.00	2	336.0	2	0.3069	2	0.232	2	0.415
3700	C4H9NO2	2-nitro-2-methylpropane	594-70-7	299.38	1	400.31	1	592.00	2	35.00	2	337.0	2	0.3060	2	0.240	2	0.383
3715	C4H9NO2	2-nitrobutane, (±)	116781-85-2	141.15	1	413.15	1	610.00	2	36.00	2	337.5	2	0.3056	2	0.240	2	0.402
3783	C4H10	butane	106-97-8	134.86	1	272.65	1	425.12	1	37.96	1	255.0	1	0.2279	1	0.274	1	0.200
3784	C4H10	isobutane	75-28-5	113.54	1	261.43	1	407.80	1	36.40	1	259.0	1	0.2244	1	0.278	1	0.184
3830	C4H10N2	piperazine	110-85-0	379.15	1	419.15	1	638.00	2	55.30	2	310.0	2	0.2779	2	0.323	2	0.414
3865	C4H10O	butanol	71-36-3	183.85	1	390.81	1	563.05	1	44.23	1	275.0	1	0.2695	1	0.260	1	0.594
3866	C4H10O	isobutanol	78-83-1	165.15	1	380.81	1	547.78	1	43.00	1	273.0	1	0.2715	1	0.258	1	0.585
3867	C4H10O	sec-butanol	78-92-2	158.45	1	372.70	1	536.05	1	41.79	1	269.0	1	0.2755	1	0.252	1	0.572
3868	C4H10O	tert-butanol	75-65-0	298.97	1	355.57	1	506.21	1	39.73	1	275.0	1	0.2695	1	0.260	1	0.612
3869	C4H10O	diethyl ether	60-29-7	156.85	1	307.58	1	466.70	1	36.40	1	280.0	1	0.2647	1	0.263	1	0.281
3870	C4H10O	methyl propyl ether	557-17-5	133.97	1	312.20	1	476.25	1	38.01	1	276.0	1	0.2686	1	0.265	1	0.277
3871	C4H10O	methyl isopropyl ether	598-53-8	127.93	1	303.92	1	464.48	1	37.62	1	276.0	2	0.2686	2	0.269	1,2	0.266
3872	C4H10O	(R)-(-)-2-butanol	14898-79-4	159.25	1	372.65	1	538.22	1	42.19	1	272.4	1	0.2722	1	0.257	1	0.593
3873	C4H10O	(S)-(+)-2-butanol	4221-99-2	159.25	1	372.60	1	538.22	1	42.19	1	272.4	1	0.2722	1	0.257	1	0.593
3874	C4H10O	(<+->)-2-butanol	15892-23-6	187.49	2	372.00	1	538.22	1	42.19	1	272.4	1	0.2722	1	0.257	1	0.593
3876	C4H10OS	2-(ethylthio)ethanol	110-77-0	173.15	1	456.65	1	641.00	2	43.20	2	325.0	2	0.3267	2	0.263	2	0.731
3880	C4H10OS2	2,2'-oxydiethanethiol	2150-02-9	193.15	1	490.15	1	720.00	2	36.90	2	378.0	2	0.3658	2	0.233	2	0.419
3881	C4H10O2	t-butyl hydroperoxide	75-91-2	277.45	1	405.50	1	576.00	2	43.40	2	290.0	2	0.3108	2	0.263	2	0.668
3882	C4H10O2	1,2-dimethoxyethane	110-71-4	215.15	1	357.20	1	536.15	1	38.71	1	270.6	1	0.3330	1	0.235	1	0.346
3883	C4H10O2	2-ethoxyethanol	110-80-5	214.15	1	408.15	1	569.00	2	42.40	2	294.0	2	0.3065	2	0.264	2	0.758
3884	C4H10O2	1,2-butanediol	584-03-2	220.00	2	469.57	1	680.00	1	52.10	2	303.0	1	0.2974	1	0.279	1,2	0.631
3885	C4H10O2	1,3-butanediol	107-88-0	196.15	1	481.38	1	676.00	1	40.20	1	305.0	1	0.2955	1	0.218	1	0.704
3886	C4H10O2	1,4-butanediol	110-63-4	293.05	1	501.15	1	667.00	2	48.80	2	297.0	2	0.3034	2	0.261	2	1.189
3887	C4H10O2	DL-2,3-butanediol	6982-25-8	280.75	1	453.85	1	611.00	2	51.30	2	267.0	2	0.3375	2	0.270	2	1.106
3888	C4H10O2	meso-2,3-butanediol	5341-95-7	225.98	2	452.00	2	609.07	2	50.87	2	285.5	2	0.3157	2	0.287	2	1.103
3889	C4H10O2	2-methyl-1,2-propanediol	558-43-0	258.40	2	451.15	1	611.21	2	51.09	2	286.5	2	0.3146	2	0.288	2	1.062
3890	C4H10O2	1-methyl-1,3-propanediol	18826-95-4	240.98	2	487.15	1	652.97	2	50.30	2	291.5	2	0.3092	2	0.270	2	1.141
3891	C4H10O2	1,2-butanediol, (±)	26171-83-5	262.76	2	463.65	1	630.99	2	50.32	2	289.9	2	0.3109	2	0.278	2	1.127
3893.1	C4H10O2	n-butylhydroperoxide	4813-50-7	213.00	2	405.00	2	565.00	2	52.10	2	294.0	2	0.3065	2	0.326	2	0.866
3894	C4H10O2	2-methoxy-1-propanol	1589-47-5	176.35	2	402.65	1	566.00	2	43.40	2	294.0	2	0.3065	2	0.271	2	0.719
3895	C4H10O2	propylene glycol monomethyl ether	107-98-2	176.48	2	393.25	1	553.00	2	43.40	2	294.0	2	0.3065	2	0.278	2	0.722
3896	C4H10O2	(2S,3S)-(+)-2,3-butanediol	19132-06-0	293.15	1	452.60	1	630.99	2	50.32	2	289.9	2	0.3109	2	0.278	2	1.127
3897	C4H10O2	(2R,3R)-(-)-2,3-butanediol	24347-58-8	372.15	1	430.70	2	630.99	2	50.32	2	289.9	2	0.3109	2	0.278	2	1.127
3898	C4H10O2	(S)-(+)-1,3-butanediol	24621-61-2	262.76	2	430.70	2	630.99	2	50.32	2	289.9	2	0.3109	2	0.278	2	1.127
3899	C4H10O2	2,3-butanediol	513-85-9	295.15	1	455.15	1	630.99	2	50.32	2	289.9	2	0.3109	2	0.278	2	1.127
3900	C4H10O2	(R)-(-)-1,3-butanediol	6290-03-5	262.76	2	430.70	2	630.99	2	50.32	2	289.9	2	0.3109	2	0.278	2	1.127
3901	C4H10O2	(S)-(+)-2-methoxypropanol	116422-39-0	176.35	2	430.70	2	569.00	2	42.40	2	297.3	2	0.3031	2	0.266	2	0.759
3902	C4H10O2	methoxypropanol	1320-67-8	176.55	1	393.15	1	569.00	2	42.40	2	297.3	2	0.3031	2	0.266	2	0.759
3903	C4H10O2	(S)-(+)-1-methoxy-2-propanol	26550-55-0	176.35	2	430.70	2	569.00	2	42.40	2	297.3	2	0.3031	2	0.266	2	0.759
3904	C4H10O2	(R)-(-)-1-methoxy-2-propanol	4984-22-9	176.15	1	430.70	2	569.00	2	42.40	2	297.3	2	0.3031	2	0.266	2	0.759
3905	C4H10O2	2-methyl-1,3-propanediol	2163-42-0	182.15	1	487.15	1	697.00	2	53.50	2	292.0	2	0.3086	2	0.270	2	0.714
3906	C4H10O2	3-methoxy-1-propanol	1589-49-7	176.35	2	430.70	2	569.00	2	42.40	2	297.3	2	0.3031	2	0.266	2	0.759
3907	C4H10O2S	bis(2-hydroxyethyl) sulfide	111-48-8	262.95	1	555.15	1	731.00	2	46.10	2	343.0	2	0.3562	2	0.260	2	1.176
3918	C4H10O3	diethylene glycol	111-46-6	262.70	1	517.95	1	744.60	1	46.00	2	312.0	2	0.3401	2	0.232	1,2	0.622
3919	C4H10O3	1,2,3-butanetriol	4435-50-1	273.00	2	560.00	2	719.00	2	58.30	2	305.0	2	0.3479	2	0.297	2	1.750
3920	C4H10O3	1,2,4-butanetriol	3068-00-6	274.00	2	545.00	2	697.00	2	57.60	2	311.0	2	0.3412	2	0.309	2	1.796
3928	C4H10O3S	diethyl sulfite	623-81-4	273.15	2	431.15	1	624.00	2	37.70	2	373.0	2	0.3705	2	0.271	2	0.507
3937	C4H10O4S	diethyl sulfate	64-67-5	248.15	1	482.65	1	749.00	2	64.80	2	398.0	2	0.3874	2	0.414	2	0.387
3938	C4H10O4S	methyl propyl sulfate	5867-91-4	241.15	2	483.69	2	792.00	2	68.90	2	398.0	2	0.3874	2	0.416	2	0.162
3942	C4H10S	butyl mercaptan	109-79-5	157.46	1	371.61	1	570.10	1	39.70	2	307.0	2	0.2938	2	0.257	1,2	0.271

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
3943	C4H10S	isobutyl mercaptan	513-44-0	128.31	1	361.64	1	559.00	2	40.60	2	307.0	2	0.2938	2	0.268	2	0.253
3944	C4H10S	sec-butyl mercaptan	513-53-1	133.02	1	358.13	1	554.00	2	40.60	2	307.0	2	0.2938	2	0.271	2	0.251
3945	C4H10S	tert-butyl mercaptan	75-66-1	274.26	1	337.37	1	530.00	2	40.60	2	307.0	2	0.2938	2	0.283	2	0.191
3946	C4H10S	2-butanethiol	91840-99-2	108.15	1	358.15	1	553.00	2	40.38	2	307.0	2	0.2938	2	0.270	2	0.242
3947	C4H10S	diethyl sulfide	352-93-2	169.20	1	365.25	1	557.15	1	39.60	1	318.0	1	0.2836	1	0.272	1	0.290
3948	C4H10S	methyl propyl sulfide	3877-15-4	160.17	1	368.69	1	565.00	2	39.70	2	307.0	2	0.2938	2	0.259	2	0.274
3949	C4H10S	methyl isopropyl sulfide	1551-21-9	171.65	1	357.90	1	551.00	2	39.00	2	307.5	2	0.2933	2	0.262	2	0.259
3950	C4H10S2	diethyl disulfide	110-81-6	171.63	1	427.13	1	642.00	1	38.70	2	358.0	2	0.3415	2	0.260	1,2	0.347
3951	C4H10S2	1,2-bis(methylthio)ethane	6628-18-8	---	---	455.15	1	642.00	2	38.70	2	358.0	2	0.3415	2	0.260	2	0.346
3954	C4H10S2	methyl propyl disulfide	2179-60-4	171.63	2	450.31	2	642.00	2	38.70	2	358.0	2	0.3415	2	0.260	2	0.346
3977	C4H11N	butylamine	109-73-9	224.05	1	350.55	1	531.90	1	42.00	1	310.0	2	0.2359	2	0.294	1,2	0.329
3978	C4H11N	isobutylamine	78-81-9	188.55	1	340.88	1	513.73	2	42.15	2	312.6	2	0.2340	2	0.308	2	0.363
3979	C4H11N	sec-butylamine	13952-84-6	168.65	1	336.15	1	514.30	1	40.00	2	310.0	2	0.2359	2	0.290	1,2	0.282
3980	C4H11N	tert-butylamine	75-64-9	206.19	1	317.55	1	483.90	1	38.40	1	293.0	1	0.2496	1	0.280	1	0.275
3981	C4H11N	2-butanamine, (.+/-.)-	33966-50-6	187.657	2.000	335.88	1	503.50	2	39.45	2	299.9	2	0.2442	2	0.283	2	0.331
3982	C4H11N	methyl-propylamine	627-35-0	223.35	2	336.15	1	500.00	2	39.50	2	290.0	2	0.2522	2	0.276	2	0.404
3983	C4H11N	methylisopropylamine	4747-21-1	223.35	2	323.55	1	487.60	2	2.00	2	290.0	2	0.2522	2	0.014	2	0.589
3984	C4H11N	diethylamine	109-89-7	223.35	1	328.60	1	496.60	1	37.10	1	301.0	1	0.2430	1	0.270	1	0.304
3985	C4H11N	dimethylethylamine	598-56-1	133.15	1	310.15	1	500.00	1	36.63	1	290.0	1	0.2522	1	0.256	1	0.097
3986	C4H11N	(R)-(-)-sec-butylamine	13250-12-9	169.25	1	333.15	1	503.50	2	39.45	2	299.9	2	0.2442	2	0.283	2	0.331
3987	C4H11N	(S)-(+)-sec-butylamine	513-49-5	169.25	1	335.10	1	503.50	2	39.45	2	299.9	2	0.2442	2	0.283	2	0.331
3988	C4H11NO	dimethylethanolamine	108-01-0	214.15	1	407.15	1	571.82	2	41.40	2	300.0	2	0.2971	2	0.261	2	0.711
3989	C4H11NO	3-amino-1-butanol	2867-59-6	281.87	2	426.84	2	571.82	2	41.40	2	300.0	2	0.2971	2	0.261	2	0.711
3990	C4H11NO	3-amino-2-butanol	42551-55-3	292.15	1	433.15	1	571.82	2	41.40	2	300.0	2	0.2971	2	0.261	2	0.711
3991	C4H11NO	4-amino-1-butanol	13325-10-5	281.87	2	478.15	1	571.82	2	41.40	2	300.0	2	0.2971	2	0.261	2	0.711
3992	C4H11NO	2-amino-1-butanol, (±)-	13054-87-0	272.15	1	451.15	1	571.82	2	41.40	2	300.0	2	0.2971	2	0.261	2	0.711
3993	C4H11NO	2-amino-2-methyl-1-propanol	124-68-5	298.65	1	438.65	1	571.82	2	41.40	2	300.0	2	0.2971	2	0.261	2	0.711
3995	C4H11NO	2-(ethylamino)ethanol	110-73-6	281.87	2	442.65	1	571.82	2	41.40	2	300.0	2	0.2971	2	0.261	2	0.711
3996	C4H11NO	N-ethyl-N-hydroxyethanamine	3710-84-7	247.65	1	403.70	1	567.00	2	41.30	2	331.0	2	0.2693	2	0.290	2	0.715
3998	C4H11NO	4-amino-2-butanol	39884-48-5	281.87	2	426.84	2	571.82	2	41.40	2	300.0	2	0.2971	2	0.261	2	0.711
3999	C4H11NO	1-amino-2-butanol	13552-21-1	276.15	1	442.05	1	571.82	2	41.40	2	300.0	2	0.2971	2	0.261	2	0.711
4000	C4H11NO	4-aminobutan-2-ol	39884-48-5	281.87	2	426.84	2	571.82	2	41.40	2	300.0	2	0.2971	2	0.261	2	0.711
4001	C4H11NO	(S)-(+)-2-amino-1-butanol	5856-62-2	359.20	1	446.15	1	571.82	2	41.40	2	300.0	2	0.2971	2	0.261	2	0.711
4002	C4H11NO	(R)-(-)-2-amino-1-butanol	5856-63-3	271.25	1	446.15	1	571.82	2	41.40	2	300.0	2	0.2971	2	0.261	2	0.711
4003	C4H11NO	2-aminobutan-1-ol	96-20-8	271.25	1	450.15	1	571.82	2	41.40	2	300.0	2	0.2971	2	0.261	2	0.711
4004	C4H11NO	2-amino-1-methoxypropane	37143-54-7	281.15	---	370.00	1	548.00	2	40.90	2	333.0	2	0.2677	2	0.299	2	0.423
4005	C4H11NO	1-amino-2-methyl-2-propanol	2854-16-2	281.87	2	424.05	1	571.82	2	41.40	2	300.0	2	0.2971	2	0.261	2	0.711
4006	C4H11NO2	diethanolamine	111-42-2	301.15	1	541.54	1	736.60	1	42.70	2	349.0	2	0.3013	2	0.243	1,2	0.953
4007	C4H11NO2	2-aminoethoxyethanol	929-06-6	---	---	514.00	1	699.00	2	43.60	2	330.0	2	0.3186	2	0.248	2	0.969
4008	C4H11NO2	2-amino-2-methyl-1,3-propanediol	115-69-5	383.15	1	525.40	2	715.00	2	32.70	2	349.0	2	0.3013	2	0.192	2	1.046
4010	C4H11NO2	3-methylamino-1,2-propanediol	40137-22-2	342.15	2	520.15	1	715.00	2	32.70	2	349.0	2	0.3013	2	0.192	2	1.046
4070	C4H12N2	1,4-butanediamine	110-60-1	300.65	1	431.65	1	612.33	2	46.10	2	318.3	2	0.2770	2	0.288	2	0.533
4071	C4H12N2	2,3-butanediamine, (R*,R*)-(±)	20699-48-3	251.15	1	396.09	2	612.33	2	46.10	2	318.3	2	0.2770	2	0.288	2	0.533
4072	C4H12N2	N,N'-dimethyl-1,2-ethanediamine	110-70-3	274.78	2	393.15	1	612.33	2	46.10	2	316.1	2	0.2789	2	0.286	2	0.533
4073	C4H12N2	N-ethyl-1,2-ethanediamine	110-72-5	274.78	2	402.15	1	612.33	2	46.10	2	316.1	2	0.2789	2	0.286	2	0.533
4074	C4H12N2	2-methyl-1,2-propanediamine	811-93-8	256.10	1	396.15	1	612.33	2	46.10	2	316.1	2	0.2789	2	0.286	2	0.533
4077	C4H12N2	1,3-butanediamine	590-88-5	274.78	2	419.15	1	612.33	2	46.10	2	316.1	2	0.2789	2	0.286	2	0.533
4078	C4H12N2	N,N-dimethylethylenediamine	108-00-9	291.20	1	378.65	1	612.33	2	46.10	2	316.1	2	0.2789	2	0.286	2	0.533
4079	C4H12N2	3-(methylamino)propylamine	6291-84-5	274.78	2	413.15	1	612.33	2	46.10	2	316.1	2	0.2789	2	0.286	2	0.533
4080	C4H12N2O	N-aminoethyl ethanolamine	111-41-1	---	---	517.00	1	698.00	2	44.60	2	387.0	2	0.2691	2	0.297	2	1.050
4096	C4H12O2Si	dimethoxydimethylsilane	1112-39-6	193.00	1	354.55	1	524.00	2	26.60	2	441.0	2	0.2726	2	0.269	2	0.263
4110	C4H12Si	tetramethylsilane	75-76-3	174.07	1	299.80	1	450.40	1	28.14	1	357.0	2	0.2471	2	0.268	1,2	0.224
4118	C4H13N3	diethylene triamine	111-40-0	234.15	1	480.25	1	676.00	2	42.20	2	342.0	2	0.3017	2	0.257	2	0.700
4169	C5Cl6	hexachlorocyclopentadiene	77-47-4	283.65	1	512.15	1	746.00	2	30.10	2	526.0	2	0.5186	2	0.255	2	0.383
4175	C5F8	octafluorocyclopentene	559-40-0	203.15	1	300.15	1	465.23	2	30.23	2	351.7	2	0.6029	2	0.275	2	0.110
4327	C5H4O2	furfural	98-01-1	236.65	1	434.85	1	670.15	1	56.60	1	252.0	2	0.3813	2	0.256	1,2	0.368
4340	C5H4O3	3-methyl-2,5-furandione	616-02-4	281.15	1	486.15	1	721.00	2	58.40	2	272.0	2	0.4121	2	0.265	2	0.570
4391	C5H5N	pyridine	110-86-1	231.53	1	388.41	1	619.95	1	56.30	1	254.0	1	0.3114	1	0.277	1	0.239
4447	C5H6	cyclopentadiene	542-92-7	188.15	1	314.65	1	507.00	2	51.50	2	225.0	2	0.2938	2	0.275	2	0.212
4448	C5H6	2-methyl-1-butene-3-yne	78-80-8	160.15	1	305.40	1	492.00	2	43.80	2	248.0	2	0.2665	2	0.266	2	0.137
4449	C5H6	1-pentene-3-yne	646-05-9	160.15	2	332.40	1	520.00	2	44.00	2	256.0	2	0.2582	2	0.261	2	0.252
4450	C5H6	1-pentene-4-yne	871-28-3	160.15	2	315.65	1	503.00	2	44.00	2	256.0	2	0.2582	2	0.269	2	0.179
4451	C5H6	cis-3-penten-1-yne	1574-40-9	160.15	2	317.75	1	505.00	2	43.93	2	253.3	2	0.2610	2	0.265	2	0.189
4452	C5H6	trans-3-penten-1-yne	2004-69-5	160.15	2	325.35	1	505.00	2	43.93	2	253.3	2	0.2610	2	0.265	2	0.189
4490	C5H6N2	glutaronitrile	544-13-8	244.21	1	559.15	1	782.00	2	31.50	2	352.0	2	0.2674	2	0.171	2	0.603
4534	C5H6O	2-methylfuran	534-22-5	178.87	1	337.85	1	527.00	1	47.20	1	247.0	1	0.3324	1	0.266	1	0.283
4535	C5H6O	3-methylfuran	930-27-8	182.44	2	338.65	1	528.60	2	48.43	2	250.5	2	0.3278	2	0.276	2	0.289
4548	C5H6O2	furfuryl alcohol	98-00-0	258.52	1	443.15	1	632.00	2	53.50	2	263.0	2	0.3730	2	0.268	2	0.734
4567	C5H6O3	glutaric anhydride	108-55-4	328.00	1	562.69	1	838.00	2	58.00	2	275.0	2	0.4149	2	0.229	2	0.537
4576	C5H6O4	citraconic acid	498-23-7	356.15	1	607.00	1	829.00	2	42.40	2	340.0	2	0.3826	2	0.209	2	0.927
4577	C5H6O4	itaconic acid	97-65-4	438.75	1	601.00	1	821.00	2	42.40	2	340.0	2	0.3826	2	0.211	2	0.925
4587	C5H6S	2-methylthiophene	554-14-3	209.79	1	385.71	1	609.00	2	49.10	0	275.0	2	0.3570	2	0.267	1,2	0.239
4588	C5H6S	3-methylthiophene	616-44-4	204.19	1	388.55	1	613.00	2	49.10	2	276.0	2	0.3557	2	0.266	2	0.240
4658	C5H7N	N-methylpyrrole	96-54-8	216.91	1	385.89	1	610.00	2	47.70	2	283.0	2	0.2866	2	0.266	2	0.213
4659	C5H7N	2-methylpyrrole	636-41-9	237.55	1	420.75	1	610.00	2	47.70	2	283.0	2	0.2866	2	0.266	2	0.213
4660	C5H7N	3-methylpyrrole	616-43-3	224.75	1	416.05	1	610.00	2	47.70	2	283.0	2	0.2866	2	0.266	2	0.213
4677	C5H7NO2	ethyl cyanoacetate	105-56-6	250.65	1	479.15	1	679.00	2	33.40	2	358.0	2	0.3160	2	0.212	2	0.558
4736	C5H8	spiropentane	157-40-4	166.11	1	312.19	1	499.74	2	52.13	2	236.5	2	0.2880	2	0.297	2	0.221
4737	C5H8	cyclopentene	142-29-0	138.13	1	317.38	1	507.00	2	47.90	2	240.0	2	0.2838	2	0.273	2	0.195
4738	C5H8	isoprene	78-79-5	127.27	1	307.21	1	484.00	2	38.50	2	276.0	2	0.2468	2	0.264	2	0.158

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
4739	C5H8	3-methyl-1,2-butadiene	598-25-4	159.53	1	314.00	1	490.00	2	38.30	2	291.0	2	0.2341	2	0.274	2	0.187
4740	C5H8	1,2-pentadiene	591-95-7	135.89	1	318.01	1	500.00	2	38.00	2	276.0	2	0.2468	2	0.252	2	0.154
4741	C5H8	cis-1,3-pentadiene	1574-41-0	132.35	1	317.22	1	499.00	2	37.40	2	276.0	2	0.2468	2	0.249	2	0.147
4742	C5H8	trans-1,3-pentadiene	2004-70-8	185.71	1	315.17	1	500.00	2	37.40	2	276.0	2	0.2468	2	0.248	2	0.116
4743	C5H8	1,4-pentadiene	591-93-5	124.86	1	299.11	1	479.00	2	37.40	2	303.0	2	0.2248	2	0.285	2	0.084
4744	C5H8	2,3-pentadiene	591-96-8	147.50	1	321.40	1	497.00	2	38.00	2	295.0	2	0.2309	2	0.271	2	0.218
4745	C5H8	1-pentyne	627-19-0	167.45	1	313.33	1	481.20	2	41.70	2	277.0	2	0.2459	2	0.289	2	0.290
4746	C5H8	2-pentyne	627-21-4	163.83	1	329.27	1	519.00	2	40.30	2	276.0	2	0.2468	2	0.258	2	0.175
4747	C5H8	3-methyl-1-butyne	598-23-2	183.45	1	302.15	1	463.20	2	42.00	2	275.0	2	0.2477	2	0.300	2	0.308
4751	C5H8	1,3-pentadiene; (cis+trans)	504-60-9	144.72	2	315.05	1	492.61	2	37.70	2	283.3	2	0.2409	2	0.261	2	0.153
4770	C5H8Cl2	3-chloro-2-(chloromethyl)-1-butene	69295-21-2	---	---	428.15	1	660.00	2	35.00	2	376.0	2	0.3697	2	0.240	2	---
4771	C5H8Cl2	1,3-dichloro-2-methyl-2-butene	25148-87-2	---	---	423.15	1	660.00	2	35.00	2	376.0	2	0.3697	2	0.240	2	---
4772	C5H8Cl2	1,4-dichloro-2-methyl-2-butene	29843-58-1	---	---	425.15	2	660.00	2	35.00	2	376.0	2	0.3697	2	0.240	2	---
4773	C5H8Cl2	3,3-dichloro-2-methyl-1-butene	42101-38-2	---	---	425.15	2	660.00	2	35.00	2	376.0	2	0.3697	2	0.240	2	---
4774	C5H8Cl2	2,5-dichloro-2-pentene	20177-02-0	---	---	424.15	1	660.00	2	35.00	2	376.0	2	0.3697	2	0.240	2	---
4797	C5H8Cl4	2,2-bis(chloromethyl)-1,3-dichloropropane	3228-99-7	370.15	1	485.00	2	725.00	2	32.00	2	490.7	2	0.4279	2	0.260	2	---
4798	C5H8Cl4	1,1,1,5-tetrachloropentane	2467-10-9	---	---	485.00	2	725.00	2	32.00	2	490.7	2	0.4279	2	0.260	2	---
4845	C5H8N4O12	pentaerythritol tetranitrate	78-11-5	413.65	1	543.00	1	676.00	2	22.40	2	731.0	2	0.4325	2	0.291	2	1.451
4848	C5H8O	cyclopentanone	120-92-3	221.85	1	403.80	1	624.50	1	46.00	1	258.0	2	0.3260	2	0.229	1,2	0.288
4849	C5H8O	methyl isopropenyl ketone	814-78-8	219.55	1	371.15	1	566.00	2	38.90	2	302.0	2	0.2785	2	0.250	2	0.286
4861	C5H8O	trans-2-methyl-2-butenal	497-03-0	---	---	390.15	1	570.00	2	41.00	2	271.5	2	0.3098	2	0.235	2	---
4862	C5H8O	2-methyl-2-butenal	1115-11-3	---	---	390.15	1	570.00	2	41.00	2	271.5	2	0.3098	2	0.235	2	---
4863	C5H8O	3-methyl-2-butenal	107-86-8	---	---	407.15	1	570.00	2	41.00	2	271.5	2	0.3098	2	0.235	2	---
4864	C5H8O	4-pentenal	2100-17-6	---	---	372.15	1	570.00	2	41.00	2	271.5	2	0.3098	2	0.235	2	---
4871	C5H8O	trans-3-penten-2-one	3102-33-8	---	---	395.15	1	575.00	2	43.60	2	305.2	2	0.2756	2	0.278	2	---
4872	C5H8O	1-penten-3-one	1629-58-9	---	---	376.15	1	575.00	2	43.60	2	303.0	2	0.2776	2	0.276	2	---
4874	C5H8O	2-ethylacrolein	922-63-4	---	---	365.65	1	570.00	2	41.00	2	271.5	2	0.3098	2	0.235	2	---
4876	C5H8O	trans-2-pentenal	1576-87-0	---	---	393.15	1	570.00	2	41.00	2	271.5	2	0.3098	2	0.235	2	---
4877	C5H8O	3-penten-2-one	625-33-2	---	---	395.65	1	575.00	2	43.60	2	303.0	2	0.2776	2	0.276	2	---
4880	C5H8O	2-pentenal	764-39-6	---	---	397.00	1	570.00	2	41.00	2	271.5	2	0.3098	2	0.235	2	---
4882	C5H8O2	acetylacetone	123-54-6	249.95	1	413.55	1	646.65	1	39.60	2	323.0	2	0.3100	2	0.238	1,2	0.211
4883	C5H8O2	allyl acetate	591-87-7	138.00	1	377.15	1	559.00	2	36.80	2	323.0	2	0.3100	2	0.256	2	0.388
4884	C5H8O2	isopropenyl acetate	108-22-5	180.25	1	367.15	1	555.50	2	36.80	2	323.0	2	0.3100	2	0.257	2	0.355
4885	C5H8O2	vinyl propionate	105-38-4	192.05	1	368.15	1	546.00	2	36.80	2	323.0	2	0.3100	2	0.262	2	0.380
4886	C5H8O2	methyl cis-2-butenoate	4358-59-2	194.73	2	391.15	1	555.50	2	36.80	2	323.0	2	0.3100	2	0.257	2	0.355
4887	C5H8O2	methyl trans-2-butenoate	623-43-8	231.15	1	394.15	1	555.50	2	36.80	2	323.0	2	0.3100	2	0.257	2	0.355
4888	C5H8O2	ethyl acrylate	140-88-5	201.95	1	372.65	1	553.00	2	36.80	2	323.0	2	0.3100	2	0.259	2	0.378
4889	C5H8O2	methyl methacrylate	80-62-6	224.95	1	373.45	1	564.00	2	36.80	2	323.0	2	0.3100	2	0.253	2	0.317
4890	C5H8O2	2-methylenebutanoic acid	3586-58-1	257.15	1	453.15	1	676.00	2	40.57	2	321.5	2	0.3114	2	0.232	2	0.415
4891	C5H8O2	trans-2-methyl-2-butenoic acid	80-59-1	338.15	1	471.65	1	676.00	2	40.83	2	322.5	2	0.3104	2	0.234	2	0.389
4892	C5H8O2	cis-2-methyl-2-butenoic acid	565-63-9	318.15	1	458.15	1	676.00	2	40.83	2	322.5	2	0.3104	2	0.234	2	0.389
4893	C5H8O2	2-methyl-3-butenoic acid	53774-20-2	289.45	2	450.00	2	676.00	2	40.47	2	316.5	2	0.3163	2	0.228	2	0.395
4894	C5H8O2	3-methyl-2-butenoic acid	541-47-9	343.15	1	468.15	1	676.00	2	40.83	2	322.5	2	0.3104	2	0.234	2	0.389
4895	C5H8O2	3-methyl-3-butenoic acid	1617-31-8	294.15	1	450.00	2	676.00	2	40.31	2	323.5	2	0.3095	2	0.232	2	0.399
4896	C5H8O2	trans-2-pentenoic acid	13991-37-2	283.15	1	473.15	1	676.00	2	40.57	2	321.5	2	0.3114	2	0.232	2	0.415
4897	C5H8O2	cis-2-pentenoic acid	16666-42-5	301.13	2	458.15	1	676.00	2	40.57	2	321.5	2	0.3114	2	0.232	2	0.415
4898	C5H8O2	trans-3-pentenoic acid	1617-32-9	274.65	1	466.15	1	676.00	2	40.57	2	321.5	2	0.3114	2	0.232	2	0.415
4899	C5H8O2	cis-3-pentenoic acid	33698-87-2	301.13	2	466.15	1	676.00	2	40.57	2	321.5	2	0.3114	2	0.232	2	0.415
4900	C5H8O2	4-pentenoic acid	591-80-0	250.65	1	461.15	1	676.00	2	40.06	2	322.5	2	0.3104	2	0.230	2	0.426
4904	C5H8O2	4-methyl-gamma-butyrolactone	108-29-2	242.15	1	480.65	1	727.00	2	48.40	2	279.0	2	0.3588	2	0.223	2	0.403
4909	C5H8O2	pentanedial	111-30-8	196.00	2	461.15	1	660.00	2	35.90	2	347.0	2	0.2885	2	0.227	2	0.537
4918	C5H8O2	methyl 3-butenoate	3724-55-8	194.73	2	385.15	1	555.50	2	36.80	2	323.0	2	0.3100	2	0.257	2	0.355
4927	C5H8O3	2-hydroxyethyl acrylate	818-61-1	213.00	1	484.00	1	662.00	2	39.80	2	359.0	2	0.3234	2	0.260	2	0.864
4928	C5H8O3	levulinic acid	123-76-2	308.15	1	530.00	1	738.00	2	40.20	2	343.0	2	0.3385	2	0.225	2	0.756
4929	C5H8O3	methyl acetoacetate	105-45-3	193.15	1	444.85	1	642.00	2	37.10	2	343.0	2	0.3385	2	0.238	2	0.513
4945	C5H8O4	glutaric acid	110-94-1	370.65	1	595.54	1	807.00	2	44.00	2	363.0	2	0.3640	2	0.238	2	0.959
4964	C5H9Br	cis-1-bromo-1-pentene	31849-75-9	200.33	2	388.15	1	584.97	2	40.21	2	357.5	2	0.4169	2	0.296	2	0.357
4965	C5H9Br	trans-1-bromo-1-pentene	31849-76-0	200.33	2	388.15	1	584.97	2	40.21	2	357.5	2	0.4169	2	0.296	2	0.357
4966	C5H9Br	2-bromo-1-pentene	31844-95-8	189.69	2	381.15	1	576.34	2	39.96	2	359.5	2	0.4145	2	0.300	2	0.341
4967	C5H9Br	3-bromo-1-pentene	53045-71-9	188.65	2	383.15	1	580.26	2	40.11	2	352.5	2	0.4228	2	0.293	2	0.337
4968	C5H9Br	4-bromo-1-pentene	31950-56-8	188.65	2	384.15	1	581.77	2	40.11	2	352.5	2	0.4228	2	0.292	2	0.337
4969	C5H9Br	5-bromo-1-pentene	1119-51-3	203.65	2	401.15	1	602.30	2	39.71	2	358.5	2	0.4157	2	0.284	2	0.367
4970	C5H9Br	1-bromo-cis-2-pentene	7348-78-9	200.33	2	396.15	1	597.03	2	40.21	2	357.5	2	0.4169	2	0.290	2	0.357
4971	C5H9Br	1-bromo-trans-2-pentene	7348-71-2	200.33	2	396.15	1	597.03	2	40.21	2	357.5	2	0.4169	2	0.290	2	0.357
4972	C5H9Br	2-bromo-cis-2-pentene	54653-29-1	186.37	2	385.15	1	584.62	2	40.47	2	358.5	2	0.4157	2	0.298	2	0.331
4973	C5H9Br	2-bromo-trans-2-pentene	54653-30-4	186.37	2	385.15	1	584.62	2	40.47	2	358.5	2	0.4157	2	0.298	2	0.331
4974	C5H9Br	3-bromo-cis-2-pentene	23068-94-2	186.37	2	383.15	1	581.59	2	40.47	2	358.5	2	0.4157	2	0.300	2	0.331
4975	C5H9Br	3-bromo-trans-2-pentene	54653-28-0	186.37	2	383.15	1	581.59	2	40.47	2	358.5	2	0.4157	2	0.300	2	0.331
4976	C5H9Br	4-bromo-cis-2-pentene	56535-63-8	185.33	2	389.65	1	592.38	2	40.62	2	351.5	2	0.4240	2	0.290	2	0.326
4977	C5H9Br	4-bromo-trans-2-pentene	23068-95-3	185.33	2	389.65	1	592.38	2	40.62	2	351.5	2	0.4240	2	0.290	2	0.326
4978	C5H9Br	5-bromo-cis-2-pentene	50273-84-2	200.33	2	398.15	1	600.04	2	40.21	2	357.5	2	0.4169	2	0.288	2	0.357
4979	C5H9Br	5-bromo-trans-2-pentene	7515-62-0	200.33	2	398.15	1	600.04	2	40.21	2	357.5	2	0.4169	2	0.288	2	0.357
4980	C5H9Br	cis-1-bromo-2-methyl-1-butene	36668-55-0	186.37	2	390.15	1	592.21	2	40.47	2	358.5	2	0.4157	2	0.295	2	0.331
4981	C5H9Br	trans-1-bromo-2-methyl-1-butene	54265-17-7	186.37	2	390.15	1	592.21	2	40.47	2	358.5	2	0.4157	2	0.295	2	0.331
4982	C5H9Br	3-bromo-2-methyl-1-butene	51872-48-1	174.69	2	376.08	2	573.71	2	40.36	2	353.5	2	0.4216	2	0.299	2	0.311
4983	C5H9Br	4-bromo-2-methyl-1-butene	20038-12-4	189.69	2	376.52	2	569.33	2	39.96	2	359.5	2	0.4145	2	0.303	2	0.341
4984	C5H9Br	cis-1-bromo-3-methyl-1-butene	16416-44-7	185.33	2	383.15	1	582.50	2	40.62	2	351.5	2	0.4240	2	0.295	2	0.326
4985	C5H9Br	trans-1-bromo-3-methyl-1-butene	16416-41-4	185.33	2	383.15	1	582.50	2	40.62	2	351.5	2	0.4240	2	0.295	2	0.326
4986	C5H9Br	2-bromo-3-methyl-1-butene	31844-96-9	174.69	2	374.15	1	570.77	2	40.36	2	353.5	2	0.4216	2	0.301	2	0.311
4987	C5H9Br	3-bromo-3-methyl-1-butene	865-58-7	206.07	2	373.41	2	575.70	2	40.67	2	347.5	2	0.4289	2	0.295	2	0.274

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
4988	C5H9Br	4-bromo-3-methyl-1-butene	31950-55-7	188.65	2	376.20	2	569.74	2	40.11	2	352.5	2	0.4228	2	0.298	2	0.337
4989	C5H9Br	1-bromo-2-methyl-cis-2-butene	57253-29-9	186.37	2	397.15	1	602.84	2	40.47	2	358.5	2	0.4157	2	0.289	2	0.331
4990	C5H9Br	1-bromo-2-methyl-trans-2-butene	57253-30-2	186.37	2	397.15	1	602.84	2	40.47	2	358.5	2	0.4157	2	0.289	2	0.331
4991	C5H9Br	1-bromo-3-methyl-2-butene	870-63-3	186.37	2	384.00	2	582.88	2	40.47	2	358.5	2	0.4157	2	0.299	2	0.331
4992	C5H9Br	2-bromo-3-methyl-2-butene	3017-70-7	172.41	2	391.15	1	598.09	2	40.73	2	359.5	2	0.4145	2	0.294	2	0.305
4993	C5H9Br	3-bromo-2-ethyl-1-propene	---	189.69	2	376.52	2	569.33	2	39.96	2	359.5	2	0.4145	2	0.303	2	0.341
4995	C5H9Br	1-bromo-1-pentene	60468-23-7	189.57	2	392.15	1	586.22	2	40.33	2	356.2	2	0.4184	2	0.295	2	0.334
4996	C5H9Br	1-bromo-2-pentene	20599-27-3	189.57	2	396.65	1	586.22	2	40.33	2	356.2	2	0.4184	2	0.295	2	0.334
4997	C5H9Br	2-bromo-2-pentene	80204-19-9	189.57	2	383.15	1	586.22	2	40.33	2	356.2	2	0.4184	2	0.295	2	0.334
4998	C5H9Br	3-bromo-2-pentene	21964-23-8	189.57	2	389.15	1	586.22	2	40.33	2	356.2	2	0.4184	2	0.295	2	0.334
4999	C5H9Br	4-bromo-2-pentene	1809-26-3	189.57	2	391.15	1	586.22	2	40.33	2	356.2	2	0.4184	2	0.295	2	0.334
5000	C5H9Br	5-bromo-2-pentene	51952-42-2	189.57	2	388.08	2	586.22	2	40.33	2	356.2	2	0.4184	2	0.295	2	0.334
5022	C5H9Br3	1,1,1-tribromopentane	16644-66-9	327.43	2	503.15	1	736.13	2	46.15	2	490.5	2	0.6296	2	0.370	2	0.541
5023	C5H9Cl	cis-1-chloro-1-pentene	66213-69-2	170.45	2	361.65	1	546.85	2	35.30	2	344.5	2	0.3036	2	0.268	2	0.296
5024	C5H9Cl	trans-1-chloro-1-pentene	66213-70-5	170.45	2	361.65	1	546.85	2	35.30	2	344.5	2	0.3036	2	0.268	2	0.296
5025	C5H9Cl	2-chloro-1-pentene	42131-85-1	159.81	2	361.15	1	547.93	2	35.10	2	346.5	2	0.3018	2	0.267	2	0.281
5026	C5H9Cl	3-chloro-1-pentene	24356-00-1	158.77	2	366.15	1	556.39	2	35.22	2	339.5	2	0.3080	2	0.258	2	0.277
5027	C5H9Cl	4-chloro-1-pentene	10524-08-0	158.77	2	370.15	1	562.47	2	35.22	2	339.5	2	0.3080	2	0.256	2	0.277
5028	C5H9Cl	5-chloro-1-pentene	928-50-7	173.77	2	376.15	1	566.62	2	34.89	2	345.5	2	0.3027	2	0.256	2	0.307
5029	C5H9Cl	1-chloro-cis-2-pentene	6261-19-4	170.45	2	382.15	1	577.85	2	35.30	2	344.5	2	0.3036	2	0.253	2	0.296
5030	C5H9Cl	1-chloro-trans-2-pentene	6261-25-2	170.45	2	383.15	1	579.36	2	35.30	2	344.5	2	0.3036	2	0.253	2	0.296
5031	C5H9Cl	2-chloro-cis-2-pentene	42131-98-6	156.49	2	365.15	1	556.15	2	35.52	2	345.5	2	0.3027	2	0.265	2	0.271
5032	C5H9Cl	2-chloro-trans-2-pentene	42132-00-3	156.49	2	365.15	1	556.15	2	35.52	2	345.5	2	0.3027	2	0.265	2	0.271
5033	C5H9Cl	3-chloro-cis-2-pentene	26423-60-9	156.49	2	363.15	1	553.10	2	35.52	2	345.5	2	0.3027	2	0.267	2	0.271
5034	C5H9Cl	3-chloro-trans-2-pentene	26423-61-0	156.49	2	363.15	1	553.10	2	35.52	2	345.5	2	0.3027	2	0.267	2	0.271
5035	C5H9Cl	4-chloro-cis-2-pentene	26423-63-2	155.45	2	370.15	1	564.66	2	35.64	2	338.5	2	0.3089	2	0.257	2	0.267
5036	C5H9Cl	4-chloro-trans-2-pentene	18610-33-8	155.45	2	370.15	1	564.66	2	35.64	2	338.5	2	0.3089	2	0.257	2	0.267
5037	C5H9Cl	5-chloro-cis-2-pentene	53543-44-5	170.45	2	381.15	1	576.34	2	35.30	2	344.5	2	0.3036	2	0.254	2	0.296
5038	C5H9Cl	5-chloro-trans-2-pentene	10524-07-9	170.45	2	381.15	1	576.34	2	35.30	2	344.5	2	0.3036	2	0.254	2	0.296
5039	C5H9Cl	cis-1-chloro-2-methyl-1-butene	7611-88-3	156.49	2	363.15	1	553.10	2	35.52	2	345.5	2	0.3027	2	0.267	2	0.271
5040	C5H9Cl	trans-1-chloro-2-methyl-1-butene	7611-89-4	156.49	2	363.15	1	553.10	2	35.52	2	345.5	2	0.3027	2	0.267	2	0.271
5041	C5H9Cl	3-chloro-2-methyl-1-butene	5166-35-8	144.81	2	366.95	1	561.72	2	35.43	2	340.5	2	0.3071	2	0.258	2	0.252
5042	C5H9Cl	4-chloro-2-methyl-1-butene	10523-96-3	159.81	2	375.15	1	569.17	2	35.10	2	346.5	2	0.3018	2	0.257	2	0.281
5043	C5H9Cl	cis-1-chloro-3-methyl-1-butene	66213-67-0	155.45	2	366.15	1	558.56	2	35.64	2	338.5	2	0.3089	2	0.260	2	0.267
5044	C5H9Cl	trans-1-chloro-3-methyl-1-butene	66213-68-1	155.45	2	366.15	1	558.56	2	35.64	2	338.5	2	0.3089	2	0.260	2	0.267
5045	C5H9Cl	2-chloro-3-methyl-1-butene	17773-64-7	144.81	2	363.15	1	555.90	2	35.43	2	340.5	2	0.3071	2	0.261	2	0.252
5046	C5H9Cl	3-chloro-3-methyl-1-butene	2190-48-9	176.19	2	353.15	1	546.40	2	35.69	2	334.5	2	0.3126	2	0.263	2	0.217
5047	C5H9Cl	4-chloro-3-methyl-1-butene	10524-01-3	158.77	2	365.15	1	554.87	2	35.22	2	339.5	2	0.3080	2	0.259	2	0.277
5048	C5H9Cl	1-chloro-2-methyl-cis-2-butene	23009-74-7	156.49	2	381.15	1	580.52	2	35.52	2	345.5	2	0.3027	2	0.254	2	0.271
5049	C5H9Cl	1-chloro-2-methyl-trans-2-butene	23009-73-6	156.49	2	378.15	1	575.95	2	35.52	2	345.5	2	0.3027	2	0.256	2	0.271
5050	C5H9Cl	1-chloro-3-methyl-2-butene	503-60-6	156.49	2	383.15	1	583.57	2	35.52	2	345.5	2	0.3027	2	0.253	2	0.271
5051	C5H9Cl	2-chloro-3-methyl-2-butene	17773-65-8	142.53	2	367.15	1	563.35	2	35.73	2	346.5	2	0.3018	2	0.264	2	0.247
5052	C5H9Cl	3-chloro-2-ethyl-1-propene	---	159.81	2	363.15	1	550.96	2	35.10	2	346.5	2	0.3018	2	0.265	2	0.281
5053	C5H9Cl	1-chloro-2-methyl-1-butene	23378-11-2	159.69	2	369.65	1	561.69	2	35.41	2	343.2	2	0.3047	2	0.260	2	0.275
5054	C5H9Cl	1-chloro-2-methyl-2-butene	13417-43-1	159.69	2	383.15	1	561.69	2	35.41	2	343.2	2	0.3047	2	0.260	2	0.275
5055	C5H9Cl	1-chloro-3-methyl-1-butene	23010-00-6	159.69	2	360.15	1	561.69	2	35.41	2	343.2	2	0.3047	2	0.260	2	0.275
5056	C5H9Cl	1-chloro-2-pentene	10071-60-0	159.69	2	381.15	1	561.69	2	35.41	2	343.2	2	0.3047	2	0.260	2	0.275
5057	C5H9Cl	2-chloro-2-pentene	67747-70-0	159.69	2	369.15	1	561.69	2	35.41	2	343.2	2	0.3047	2	0.260	2	0.275
5058	C5H9Cl	3-chloro-2-pentene	34238-52-3	159.69	2	364.15	1	561.69	2	35.41	2	343.2	2	0.3047	2	0.260	2	0.275
5059	C5H9Cl	4-chloro-2-pentene	1458-99-7	159.69	2	376.15	1	561.69	2	35.41	2	343.2	2	0.3047	2	0.260	2	0.275
5060	C5H9Cl	5-chloro-2-pentene	16435-50-0	159.69	2	381.15	1	561.69	2	35.41	2	343.2	2	0.3047	2	0.260	2	0.275
5100	C5H9Cl3	1,1,1-trichloropentane	3922-27-8	237.79	2	430.15	1	635.09	2	31.21	2	451.5	2	0.3887	2	0.267	2	0.345
5101	C5H9Cl3	1,2,3-trichloro-2-methylbutane	62521-69-1	264.47	2	457.15	1	635.09	2	31.21	2	451.5	2	0.3887	2	0.267	2	0.345
5102	C5H9Cl3	2,2,3-trichloro-3-methylbutane	98070-91-8	264.47	2	455.65	1	635.09	2	31.21	2	451.5	2	0.3887	2	0.267	2	0.345
5103	C5H9Cl3	1,3-dichloro-2-(chloromethyl)-2-methylpropane	1067-09-0	291.15	1	447.65	2	635.09	2	31.21	2	451.5	2	0.3887	2	0.267	2	0.345
5109	C5H9F	cis-1-fluoro-1-pentene	66213-83-0	172.68	2	317.23	2	479.34	2	34.97	2	313.5	2	0.2811	2	0.275	2	0.296
5110	C5H9F	trans-1-fluoro-1-pentene	66213-84-1	172.68	2	317.23	2	479.34	2	34.97	2	313.5	2	0.2811	2	0.275	2	0.296
5111	C5H9F	2-fluoro-1-pentene	66213-89-6	162.04	2	309.63	2	469.43	2	34.77	2	315.5	2	0.2793	2	0.281	2	0.281
5112	C5H9F	3-fluoro-1-pentene	66702-88-3	161.00	2	309.31	2	469.68	2	34.89	2	308.5	2	0.2857	2	0.276	2	0.276
5113	C5H9F	4-fluoro-1-pentene	66702-91-8	161.00	2	309.31	2	469.68	2	34.89	2	308.5	2	0.2857	2	0.276	2	0.276
5114	C5H9F	5-fluoro-1-pentene	407-79-4	176.00	2	335.15	1	504.50	2	34.56	2	314.5	2	0.2802	2	0.259	2	0.306
5115	C5H9F	1-fluoro-cis-2-pentene	66213-85-2	172.68	2	317.23	2	479.34	2	34.97	2	313.5	2	0.2811	2	0.275	2	0.296
5116	C5H9F	1-fluoro-trans-2-pentene	66213-86-3	172.68	2	317.23	2	479.34	2	34.97	2	313.5	2	0.2811	2	0.275	2	0.296
5117	C5H9F	2-fluoro-cis-2-pentene	66213-87-4	158.72	2	317.11	2	482.63	2	35.18	2	314.5	2	0.2802	2	0.276	2	0.271
5118	C5H9F	2-fluoro-trans-2-pentene	66213-88-5	158.72	2	317.11	2	482.63	2	35.18	2	314.5	2	0.2802	2	0.276	2	0.271
5119	C5H9F	3-fluoro-cis-2-pentene	66213-90-9	158.72	2	317.11	2	482.63	2	35.18	2	314.5	2	0.2802	2	0.276	2	0.271
5120	C5H9F	3-fluoro-trans-2-pentene	66702-87-2	158.72	2	317.11	2	482.63	2	35.18	2	314.5	2	0.2802	2	0.276	2	0.271
5121	C5H9F	4-fluoro-cis-2-pentene	66702-89-4	157.68	2	316.79	2	482.91	2	35.30	2	307.5	2	0.2866	2	0.270	2	0.266
5122	C5H9F	4-fluoro-trans-2-pentene	66702-90-7	157.68	2	316.79	2	482.91	2	35.30	2	307.5	2	0.2866	2	0.270	2	0.266
5123	C5H9F	5-fluoro-cis-2-pentene	66702-92-9	172.68	2	317.23	2	479.34	2	34.97	2	313.5	2	0.2811	2	0.275	2	0.296
5124	C5H9F	5-fluoro-trans-2-pentene	66702-93-0	172.68	2	317.23	2	479.34	2	34.97	2	313.5	2	0.2811	2	0.275	2	0.296
5125	C5H9F	cis-1-fluoro-2-methyl-1-butene	66213-72-7	158.72	2	317.11	2	482.63	2	35.18	2	314.5	2	0.2802	2	0.276	2	0.271
5126	C5H9F	trans-1-fluoro-2-methyl-1-butene	66213-74-9	158.72	2	317.11	2	482.63	2	35.18	2	314.5	2	0.2802	2	0.276	2	0.271
5127	C5H9F	3-fluoro-2-methyl-1-butene	53731-24-1	147.04	2	309.19	2	472.95	2	35.10	2	309.5	2	0.2847	2	0.276	2	0.251
5128	C5H9F	4-fluoro-2-methyl-1-butene	66213-81-8	162.04	2	309.63	2	469.43	2	34.77	2	315.5	2	0.2793	2	0.281	2	0.281
5129	C5H9F	cis-1-fluoro-3-methyl-1-butene	66213-73-8	157.68	2	316.79	2	482.91	2	35.30	2	307.5	2	0.2866	2	0.270	2	0.266
5130	C5H9F	trans-1-fluoro-3-methyl-1-butene	66213-75-0	157.68	2	316.79	2	482.91	2	35.30	2	307.5	2	0.2866	2	0.270	2	0.266
5131	C5H9F	2-fluoro-3-methyl-1-butene	66213-78-3	147.04	2	309.19	2	472.95	2	35.10	2	309.5	2	0.2847	2	0.276	2	0.251
5132	C5H9F	3-fluoro-3-methyl-1-butene	66213-80-7	178.42	2	306.52	2	473.89	2	35.35	2	303.5	2	0.2904	2	0.272	2	0.216
5133	C5H9F	4-fluoro-3-methyl-1-butene	66213-82-9	161.00	2	309.31	2	469.68	2	34.89	2	308.5	2	0.2857	2	0.276	2	0.276

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
5134	C5H9F	1-fluoro-2-methyl-cis-2-butene	66213-76-1	158.72	2	317.11	2	482.63	2	35.18	2	314.5	2	0.2802	2	0.276	2	0.271
5135	C5H9F	1-fluoro-2-methyl-trans-2-butene	66213-77-2	158.72	2	317.11	2	482.63	2	35.18	2	314.5	2	0.2802	2	0.276	2	0.271
5136	C5H9F	1-fluoro-3-methyl-2-butene	23425-81-2	158.72	2	317.11	2	482.63	2	35.18	2	314.5	2	0.2802	2	0.276	2	0.271
5137	C5H9F	2-fluoro-3-methyl-2-butene	66213-79-4	144.76	2	316.99	2	486.02	2	35.39	2	315.5	2	0.2793	2	0.276	2	0.246
5138	C5H9F	3-fluoro-2-ethyl-1-propene	---	162.04	2	309.63	2	469.43	2	34.77	2	315.5	2	0.2793	2	0.281	2	0.281
5144	C5H9F3	1,1,1-trifluoropentane	406-82-6	244.48	2	320.15	1	464.50	2	28.50	2	357.0	2	0.3533	2	0.263	2	0.383
5147	C5H9I	cis-1-iodo-1-pentene	66703-02-4	198.59	2	422.15	1	641.17	2	35.94	2	383.5	2	0.5112	2	0.259	2	0.286
5148	C5H9I	trans-1-iodo-1-pentene	66703-03-5	198.59	2	422.15	1	641.17	2	35.94	2	383.5	2	0.5112	2	0.259	2	0.286
5149	C5H9I	2-iodo-1-pentene	66688-59-3	187.95	2	403.50	2	614.94	2	35.73	2	385.5	2	0.5085	2	0.269	2	0.271
5150	C5H9I	3-iodo-1-pentene	66688-61-7	186.91	2	403.18	2	615.43	2	35.86	2	378.5	2	0.5179	2	0.265	2	0.267
5151	C5H9I	4-iodo-1-pentene	59967-14-5	186.91	2	403.18	2	615.43	2	35.86	2	378.5	2	0.5179	2	0.265	2	0.267
5152	C5H9I	5-iodo-1-pentene	7766-48-5	201.91	2	423.15	1	640.23	2	35.52	2	384.5	2	0.5098	2	0.257	2	0.296
5153	C5H9I	1-iodo-cis-2-pentene	66703-04-6	198.59	2	411.10	2	624.39	2	35.94	2	383.5	2	0.5112	2	0.266	2	0.286
5154	C5H9I	1-iodo-trans-2-pentene	66688-56-0	198.59	2	411.10	2	624.39	2	35.94	2	383.5	2	0.5112	2	0.266	2	0.286
5155	C5H9I	2-iodo-cis-2-pentene	66688-57-1	184.63	2	410.98	2	628.80	2	36.16	2	384.5	2	0.5098	2	0.266	2	0.261
5156	C5H9I	2-iodo-trans-2-pentene	66688-58-2	184.63	2	410.98	2	628.80	2	36.16	2	384.5	2	0.5098	2	0.266	2	0.261
5157	C5H9I	3-iodo-cis-2-pentene	35895-39-7	184.63	2	410.98	2	628.80	2	36.16	2	384.5	2	0.5098	2	0.266	2	0.261
5158	C5H9I	3-iodo-trans-2-pentene	66688-60-6	184.63	2	410.98	2	628.80	2	36.16	2	384.5	2	0.5098	2	0.266	2	0.261
5159	C5H9I	4-iodo-cis-2-pentene	66688-62-8	183.59	2	410.66	2	629.33	2	36.29	2	377.5	2	0.5193	2	0.262	2	0.257
5160	C5H9I	4-iodo-trans-2-pentene	66688-63-9	183.59	2	410.66	2	629.33	2	36.29	2	377.5	2	0.5193	2	0.262	2	0.257
5161	C5H9I	5-iodo-cis-2-pentene	66688-64-0	198.59	2	411.10	2	624.39	2	35.94	2	383.5	2	0.5112	2	0.266	2	0.286
5162	C5H9I	5-iodo-trans-2-pentene	56399-98-5	198.59	2	411.10	2	624.39	2	35.94	2	383.5	2	0.5112	2	0.266	2	0.286
5163	C5H9I	cis-1-iodo-2-methyl-1-butene	52812-57-4	184.63	2	410.98	2	628.80	2	36.16	2	384.5	2	0.5098	2	0.266	2	0.261
5164	C5H9I	trans-1-iodo-2-methyl-1-butene	66702-95-2	184.63	2	410.98	2	628.80	2	36.16	2	384.5	2	0.5098	2	0.266	2	0.261
5165	C5H9I	3-iodo-2-methyl-1-butene	66703-00-2	172.95	2	410.00	2	630.52	2	36.07	2	379.5	2	0.5166	2	0.261	2	0.242
5166	C5H9I	4-iodo-2-methyl-1-butene	53750-52-0	187.95	2	410.00	2	624.84	2	35.73	2	385.5	2	0.5085	2	0.265	2	0.271
5167	C5H9I	cis-1-iodo-3-methyl-1-butene	64245-25-6	183.59	2	410.66	2	629.33	2	36.29	2	377.5	2	0.5193	2	0.262	2	0.257
5168	C5H9I	trans-1-iodo-3-methyl-1-butene	66702-96-3	183.59	2	410.66	2	629.33	2	36.29	2	377.5	2	0.5193	2	0.262	2	0.257
5169	C5H9I	2-iodo-3-methyl-1-butene	32442-47-0	172.95	2	403.06	2	619.84	2	36.07	2	379.5	2	0.5166	2	0.266	2	0.242
5170	C5H9I	3-iodo-3-methyl-1-butene	59128-91-5	204.33	2	400.39	2	622.45	2	36.33	2	373.5	2	0.5248	2	0.262	2	0.207
5171	C5H9I	4-iodo-3-methyl-1-butene	66703-01-3	186.91	2	403.18	2	615.43	2	35.86	2	378.5	2	0.5179	2	0.265	2	0.267
5172	C5H9I	1-iodo-2-methyl-cis-2-butene	66702-97-4	184.63	2	410.98	2	628.80	2	36.16	2	384.5	2	0.5098	2	0.266	2	0.261
5173	C5H9I	1-iodo-2-methyl-trans-2-butene	66702-98-5	184.63	2	410.98	2	628.80	2	36.16	2	384.5	2	0.5098	2	0.266	2	0.261
5174	C5H9I	1-iodo-3-methyl-2-butene	41004-19-7	184.63	2	410.98	2	628.80	2	36.16	2	384.5	2	0.5098	2	0.266	2	0.261
5175	C5H9I	2-iodo-3-methyl-2-butene	66702-99-6	170.67	2	410.86	2	633.35	2	36.38	2	385.5	2	0.5085	2	0.266	2	0.236
5176	C5H9I	3-iodo-2-ethyl-1-propene	---	187.95	2	403.50	2	614.94	2	35.73	2	385.5	2	0.5085	2	0.269	2	0.271
5182	C5H9I3	1,1,1-triiodopentane	---	322.21	2	589.99	2	882.04	2	32.84	2	568.5	2	0.7913	2	0.255	2	0.314
5183	C5H9N	valeronitrile	110-59-8	176.95	1	414.45	1	603.00	2	32.60	2	331.0	2	0.2512	2	0.215	2	0.415
5184	C5H9N	2-methylbutanenitrile	18936-17-9	195.60	2	398.55	1	585.80	2	34.00	2	335.5	2	0.2478	2	0.234	2	0.397
5185	C5H9N	3-methylbutanenitrile	625-28-5	172.35	1	403.65	1	593.30	2	34.00	2	335.5	2	0.2478	2	0.231	2	0.397
5186	C5H9N	2,2-dimethylpropanenitrile	630-18-2	289.15	1	378.75	1	565.78	2	34.44	2	330.5	2	0.2515	2	0.242	2	0.335
5187	C5H9N	butyl isocyanide	2769-64-4	215.70	2	397.65	1	579.93	2	33.68	2	341.5	2	0.2434	2	0.239	2	0.428
5188	C5H9N	isobutyl isocyanide	590-94-3	200.70	2	383.15	1	563.17	2	34.00	2	335.5	2	0.2478	2	0.244	2	0.397
5189	C5H9N	sec-butyl isocyanide	14069-89-7	200.70	2	385.00	2	565.89	2	34.00	2	335.5	2	0.2478	2	0.242	2	0.397
5190	C5H9N	tert-butyl isocyanide	7188-38-7	218.12	2	364.65	1	544.72	2	34.44	2	330.5	2	0.2515	2	0.251	2	0.335
5195	C5H9N	(S)-(+)-2-methylbutyronitrile	25570-03-0	208.51	2	398.65	1	586.97	2	33.76	2	333.1	2	0.2496	2	0.230	2	0.386
5197	C5H9NO	butyl isocyanate	111-36-4	180.00	2	388.15	1	568.00	2	34.40	2	360.0	2	0.2754	2	0.262	2	0.415
5198	C5H9NO	N-methyl-2-pyrrolidone	872-50-4	249.15	1	477.42	1	721.60	1	45.20	1	310.0	1	0.3198	1	0.234	1	0.373
5203	C5H9NO	isobutyl isocyanate	1873-29-6	---	---	379.15	1	568.00	2	34.40	2	360.0	2	0.2754	2	0.262	2	0.415
5204	C5H9NO	2-isocyanato-2-methylpropane	1609-86-5	358.65	1	444.47	2	568.00	2	34.40	2	360.0	2	0.2754	2	0.262	2	0.415
5219	C5H9NO2	4-morpholinecarboxaldehyde	4394-85-8	293.60	1	513.15	1	762.00	2	39.83	2	335.0	2	0.3437	2	0.211	2	0.393
5245	C5H9NO4	L-glutamic acid	56-86-0	497.15	1	591.00	1	782.00	2	41.30	2	420.0	2	0.3503	2	0.267	2	1.184
5269.1	C5H9NS	N-methylthiopyrrolidone	10441-57-3	276.00	2	557.00	2	869.00	2	43.20	2	347.0	2	0.3320	2	0.207	2	0.238
5280	C5H10	1,1-dimethylcyclopropane	1630-94-0	164.25	1	293.78	1	464.97	2	43.11	2	270.5	2	0.2593	2	0.302	2	0.204
5281	C5H10	1,cis-2-dimethylcyclopropane	930-18-7	132.28	1	310.18	1	485.69	2	40.06	2	281.5	2	0.2491	2	0.279	2	0.215
5282	C5H10	1,trans-2-dimethylcyclopropane	2402-06-4	123.58	1	301.36	1	471.88	2	40.06	2	281.5	2	0.2491	2	0.287	2	0.215
5283	C5H10	ethylcyclopropane	1191-96-4	123.93	1	309.08	1	480.93	2	40.67	2	272.5	2	0.2574	2	0.277	2	0.242
5284	C5H10	methylcyclobutane	598-61-8	138.60	1	303.45	1	477.75	2	42.00	2	264.5	2	0.2652	2	0.280	2	0.213
5285	C5H10	cyclopentane	287-92-3	179.31	1	322.40	1	511.70	1	45.10	1	260.0	1	0.2697	1	0.276	1	0.195
5286	C5H10	1-pentene	109-67-1	108.02	1	303.11	1	464.80	1	35.60	1	298.0	1	0.2354	1	0.275	1	0.236
5287	C5H10	2-pentene; (cis+trans)	109-68-2	130.55	1	306.70	1	467.08	2	35.26	2	297.7	2	0.2357	2	0.270	2	0.241
5288	C5H10	cis-2-pentene	627-20-3	121.75	1	310.08	1	475.93	1	36.54	1	302.1	1	0.2322	1	0.279	1	0.241
5289	C5H10	trans-2-pentene	646-04-8	132.89	1	309.49	1	475.37	1	36.54	1	302.1	1	0.2322	1	0.279	1	0.237
5290	C5H10	2-methyl-1-butene	563-46-2	135.58	1	304.31	1	465.00	1	34.00	1	292.0	1	0.2402	1	0.257	1	0.230
5291	C5H10	3-methyl-1-butene	563-45-1	104.66	1	293.21	1	452.70	1	35.30	1	305.0	1	0.2299	1	0.286	1	0.210
5292	C5H10	2-methyl-2-butene	513-35-9	139.39	1	311.71	1	470.00	1	34.20	1	292.0	1	0.2402	1	0.256	1	0.287
5297	C5H10Br2	1,1-dibromopentane	13320-56-4	250.21	2	453.15	1	665.55	2	41.52	2	433.5	2	0.5304	2	0.325	2	0.480
5298	C5H10Br2	1,2-dibromopentane	3234-49-9	250.21	2	457.15	1	671.42	2	41.52	2	433.5	2	0.5304	2	0.322	2	0.480
5299	C5H10Br2	1,3-dibromopentane	42474-20-4	250.21	2	463.15	1	680.24	2	41.52	2	433.5	2	0.5304	2	0.318	2	0.480
5300	C5H10Br2	1,4-dibromopentane	626-87-9	238.73	1	473.15	1	694.92	2	41.52	2	433.5	2	0.5304	2	0.312	2	0.480
5301	C5H10Br2	1,5-dibromopentane	111-24-0	233.15	1	495.45	1	722.02	2	41.09	2	439.5	2	0.5232	2	0.301	2	0.513
5302	C5H10Br2	2,2-dibromopentane	54653-26-8	267.63	2	443.15	1	661.45	2	42.11	2	428.5	2	0.5366	2	0.328	2	0.414
5303	C5H10Br2	2,3-dibromopentane	5398-25-4	217.15	1	451.65	1	668.68	2	41.95	2	427.5	2	0.5379	2	0.323	2	0.448
5304	C5H10Br2	2,4-dibromopentane	19398-53-9	235.21	2	455.15	1	673.87	2	41.95	2	427.5	2	0.5379	2	0.320	2	0.448
5305	C5H10Br2	3,3-dibromopentane	54653-27-9	267.63	2	440.15	1	656.98	2	42.11	2	428.5	2	0.5366	2	0.330	2	0.414
5306	C5H10Br2	1,1-dibromo-2-methylbutane	62127-58-6	235.21	2	445.24	2	659.19	2	41.95	2	427.5	2	0.5379	2	0.327	2	0.448
5307	C5H10Br2	1,1-dibromo-3-methylbutane	62127-59-7	235.21	2	445.24	2	659.19	2	41.95	2	427.5	2	0.5379	2	0.327	2	0.448
5308	C5H10Br2	1,2-dibromo-2-methylbutane	10428-64-5	202.95	1	446.15	1	665.93	2	42.11	2	428.5	2	0.5366	2	0.326	2	0.414
5309	C5H10Br2	1,2-dibromo-3-methylbutane	10288-13-8	235.21	2	445.24	2	659.19	2	41.95	2	427.5	2	0.5379	2	0.327	2	0.448
5310	C5H10Br2	1,3-dibromo-2-methylbutane	49623-50-9	235.21	2	445.24	2	659.19	2	41.95	2	427.5	2	0.5379	2	0.327	2	0.448

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
5311	C5H10Br2	1,3-dibromo-3-methylbutane	24443-15-0	267.63	2	442.89	2	661.07	2	42.11	2	428.5	2	0.5366	2	0.328	2	0.414
5312	C5H10Br2	1,4-dibromo-2-methylbutane	69498-28-8	250.21	2	445.68	2	654.58	2	41.52	2	433.5	2	0.5304	2	0.331	2	0.480
5313	C5H10Br2	2,2-dibromo-3-methylbutane	62127-60-0	252.63	2	442.45	2	666.02	2	42.55	2	422.5	2	0.5442	2	0.325	2	0.382
5314	C5H10Br2	2,3-dibromo-2-methylbutane	594-51-4	288.00	1	444.01	1	668.37	2	42.55	2	422.5	2	0.5442	2	0.324	2	0.377
5315	C5H10Br2	1,1-dibromo-2,2-dimethylpropane	2443-91-6	287.15	1	453.15	1	665.55	2	41.52	2	433.5	2	0.5304	2	0.325	2	0.480
5316	C5H10Br2	1,3-dibromo-2,2-dimethylpropane	5434-27-5	252.63	2	456.15	1	686.65	2	42.55	2	422.5	2	0.5442	2	0.315	2	0.382
5317	C5H10Br2	1,3-dibromo-2-ethylpropane	---	267.63	2	442.89	2	661.07	2	42.11	2	428.5	2	0.5366	2	0.328	2	0.414
5330	C5H10Cl2	1,1-dichloropentane	820-55-3	190.45	2	412.95	1	610.24	2	32.14	2	407.5	2	0.3461	2	0.258	2	0.352
5331	C5H10Cl2	1,2-dichloropentane	1674-33-5	190.45	2	420.15	1	620.88	2	32.14	2	407.5	2	0.3461	2	0.254	2	0.352
5332	C5H10Cl2	1,3-dichloropentane	30122-12-4	190.45	2	428.15	1	632.70	2	32.14	2	407.5	2	0.3461	2	0.249	2	0.352
5333	C5H10Cl2	1,4-dichloropentane	626-92-6	190.45	2	435.15	1	643.04	2	32.14	2	407.5	2	0.3461	2	0.245	2	0.352
5334	C5H10Cl2	1,5-dichloropentane	628-76-2	200.35	1	456.16	1	668.00	2	31.90	2	396.0	2	0.3562	2	0.227	2	0.377
5335	C5H10Cl2	2,2-dichloropentane	34887-14-4	207.87	2	400.15	1	601.15	2	32.54	2	402.5	2	0.3504	2	0.262	2	0.291
5336	C5H10Cl2	2,3-dichloropentane	600-11-3	195.85	1	412.15	1	614.06	2	32.43	2	401.5	2	0.3513	2	0.255	2	0.323
5337	C5H10Cl2	2,4-dichloropentane	625-67-2	175.45	2	422.15	1	628.96	2	32.43	2	401.5	2	0.3513	2	0.249	2	0.323
5338	C5H10Cl2	3,3-dichloropentane	21571-91-5	207.87	2	405.15	1	608.66	2	32.54	2	402.5	2	0.3504	2	0.259	2	0.291
5339	C5H10Cl2	1,1-dichloro-2-methylbutane	23010-05-1	175.45	2	400.00	2	595.96	2	32.43	2	401.5	2	0.3513	2	0.263	2	0.323
5340	C5H10Cl2	1,1-dichloro-3-methylbutane	625-66-1	175.45	2	402.75	1	600.06	2	32.43	2	401.5	2	0.3513	2	0.261	2	0.323
5341	C5H10Cl2	1,2-dichloro-2-methylbutane	23010-04-0	207.87	2	407.15	1	615.95	2	32.54	2	402.5	2	0.3504	2	0.256	2	0.291
5342	C5H10Cl2	1,2-dichloro-3-methylbutane	600-10-2	175.45	2	416.15	1	620.02	2	32.43	2	401.5	2	0.3513	2	0.253	2	0.323
5343	C5H10Cl2	1,3-dichloro-2-methylbutane	23010-07-3	175.45	2	418.00	2	622.78	2	32.43	2	401.5	2	0.3513	2	0.251	2	0.323
5344	C5H10Cl2	1,3-dichloro-3-methylbutane	624-96-4	207.87	2	419.85	1	627.97	2	32.54	2	402.5	2	0.3504	2	0.251	2	0.291
5345	C5H10Cl2	1,4-dichloro-2-methylbutane	623-34-7	190.45	2	441.65	1	617.70	2	32.14	2	407.5	2	0.3461	2	0.255	2	0.352
5346	C5H10Cl2	2,2-dichloro-3-methylbutane	17773-66-9	192.87	2	418.00	2	633.42	2	32.84	2	396.5	2	0.3557	2	0.247	2	0.262
5347	C5H10Cl2	2,3-dichloro-2-methylbutane	507-45-9	192.87	2	402.15	1	633.42	2	32.84	2	396.5	2	0.3557	2	0.247	2	0.262
5348	C5H10Cl2	1,3-dichloro-2-ethylpropane	---	190.45	2	418.00	2	617.70	2	32.14	2	407.5	2	0.3461	2	0.255	2	0.352
5349	C5H10Cl2	1,1-dichloro-2,2-dimethylpropane	29559-54-4	192.87	2	418.00	2	633.42	2	32.84	2	396.5	2	0.3557	2	0.247	2	0.262
5350	C5H10Cl2	1,3-dichloro-2,2-dimethylpropane	29559-55-5	207.87	2	419.15	1	629.69	2	32.54	2	402.5	2	0.3504	2	0.250	2	0.291
5351	C5H10Cl2	dichloropentane	30586-10-8	192.10	2	403.15	1	622.42	2	32.41	2	403.7	2	0.3494	2	0.253	2	0.318
5358	C5H10F2	1,1-difluoropentane	62127-40-6	194.91	2	342.15	1	498.40	2	29.50	2	343.0	2	0.3153	2	0.244	2	0.380
5359	C5H10F2	1,2-difluoropentane	62126-94-7	194.91	2	348.15	1	513.80	2	31.56	2	345.5	2	0.3130	2	0.255	2	0.351
5360	C5H10F2	1,3-difluoropentane	62126-95-8	194.91	2	353.15	1	521.18	2	31.56	2	345.5	2	0.3130	2	0.252	2	0.351
5361	C5H10F2	1,4-difluoropentane	62126-96-9	194.91	2	359.15	1	530.03	2	31.56	2	345.5	2	0.3130	2	0.247	2	0.351
5362	C5H10F2	1,5-difluoropentane	373-17-1	209.91	2	378.65	1	554.40	2	31.28	2	351.5	2	0.3076	2	0.239	2	0.381
5363	C5H10F2	2,2-difluoropentane	371-65-3	175.05	1	332.85	1	499.35	2	31.96	2	340.5	2	0.3176	2	0.262	2	0.290
5364	C5H10F2	2,3-difluoropentane	66688-46-8	179.91	2	330.00	2	491.00	2	31.85	2	339.5	2	0.3185	2	0.265	2	0.321
5365	C5H10F2	2,4-difluoropentane	66688-47-9	179.91	2	330.00	2	491.00	2	31.85	2	339.5	2	0.3185	2	0.265	2	0.321
5366	C5H10F2	3,3-difluoropentane	358-03-2	179.15	1	333.45	1	500.25	2	31.96	2	340.5	2	0.3176	2	0.262	2	0.290
5367	C5H10F2	1,1-difluoro-2-methylbutane	66688-67-3	179.91	2	311.46	2	463.41	2	31.85	2	339.5	2	0.3185	2	0.281	2	0.321
5368	C5H10F2	1,1-difluoro-3-methylbutane	53731-22-9	179.91	2	311.46	2	463.41	2	31.85	2	339.5	2	0.3185	2	0.281	2	0.321
5369	C5H10F2	1,2-difluoro-2-methylbutane	66688-68-4	212.33	2	309.11	2	463.73	2	31.96	2	340.5	2	0.3176	2	0.282	2	0.290
5370	C5H10F2	1,2-difluoro-3-methylbutane	66688-69-5	179.91	2	311.46	2	463.41	2	31.85	2	339.5	2	0.3185	2	0.281	2	0.321
5371	C5H10F2	1,3-difluoro-2-methylbutane	66688-43-5	179.91	2	311.46	2	463.41	2	31.85	2	339.5	2	0.3185	2	0.281	2	0.321
5372	C5H10F2	1,3-difluoro-3-methylbutane	66688-44-6	212.33	2	309.11	2	463.73	2	31.96	2	340.5	2	0.3176	2	0.282	2	0.290
5373	C5H10F2	1,4-difluoro-2-methylbutane	66688-45-7	194.91	2	311.90	2	460.30	2	31.56	2	345.5	2	0.3130	2	0.285	2	0.351
5374	C5H10F2	2,2-difluoro-3-methylbutane	51891-58-8	197.33	2	308.67	2	467.07	2	32.25	2	334.5	2	0.3233	2	0.278	2	0.261
5375	C5H10F2	2,3-difluoro-2-methylbutane	53731-25-2	197.33	2	308.67	2	467.07	2	32.25	2	334.5	2	0.3233	2	0.278	2	0.261
5376	C5H10F2	1,3-difluoro-2-ethylpropane	---	194.91	2	311.90	2	460.30	2	31.56	2	345.5	2	0.3130	2	0.285	2	0.351
5377	C5H10F2	1,1-difluoro-2,2-dimethylpropane	53731-23-0	197.33	2	308.67	2	467.07	2	32.25	2	334.5	2	0.3233	2	0.278	2	0.261
5378	C5H10F2	1,3-difluoro-2,2-dimethylpropane	66688-66-2	212.33	2	309.11	2	463.73	2	31.96	2	340.5	2	0.3176	2	0.282	2	0.290
5380	C5H10I2	1,1-diiodopentane	66688-35-5	246.73	2	499.64	2	744.50	2	33.26	2	485.5	2	0.6672	2	0.261	2	0.332
5381	C5H10I2	1,2-diiodopentane	998-76-5	246.73	2	499.64	2	744.50	2	33.26	2	485.5	2	0.6672	2	0.261	2	0.332
5382	C5H10I2	1,3-diiodopentane	66688-36-6	246.73	2	499.64	2	744.50	2	33.26	2	485.5	2	0.6672	2	0.261	2	0.332
5383	C5H10I2	1,4-diiodopentane	55930-45-5	246.73	2	499.64	2	744.50	2	33.26	2	485.5	2	0.6672	2	0.261	2	0.332
5384	C5H10I2	1,5-diiodopentane	628-77-3	282.15	1	500.08	2	739.07	2	32.95	2	491.5	2	0.6591	2	0.264	2	0.362
5385	C5H10I2	2,2-diiodopentane	66688-37-7	264.15	2	496.85	2	752.99	2	33.68	2	480.5	2	0.6742	2	0.259	2	0.271
5386	C5H10I2	2,3-diiodopentane	66688-38-8	231.73	2	499.20	2	750.13	2	33.57	2	479.5	2	0.6756	2	0.258	2	0.302
5387	C5H10I2	2,4-diiodopentane	66719-29-7	231.73	2	499.20	2	750.13	2	33.57	2	479.5	2	0.6756	2	0.258	2	0.302
5388	C5H10I2	3,3-diiodopentane	66688-39-9	264.15	2	496.85	2	752.99	2	33.68	2	480.5	2	0.6742	2	0.259	2	0.271
5389	C5H10I2	1,1-diiodo-2-methylbutane	66688-50-4	231.73	2	499.20	2	750.13	2	33.57	2	479.5	2	0.6756	2	0.258	2	0.302
5390	C5H10I2	1,1-diiodo-3-methylbutane	66688-51-5	231.73	2	499.20	2	750.13	2	33.57	2	479.5	2	0.6756	2	0.258	2	0.302
5391	C5H10I2	1,2-diiodo-2-methylbutane	66688-52-6	264.15	2	496.85	2	752.99	2	33.68	2	480.5	2	0.6742	2	0.259	2	0.271
5392	C5H10I2	1,2-diiodo-3-methylbutane	66688-53-7	231.73	2	499.20	2	750.13	2	33.57	2	479.5	2	0.6756	2	0.258	2	0.302
5393	C5H10I2	1,3-diiodo-2-methylbutane	66688-54-8	231.73	2	499.20	2	750.13	2	33.57	2	479.5	2	0.6756	2	0.258	2	0.302
5394	C5H10I2	1,3-diiodo-3-methylbutane	66688-55-9	264.15	2	496.85	2	752.99	2	33.68	2	480.5	2	0.6742	2	0.259	2	0.271
5395	C5H10I2	1,4-diiodo-2-methylbutane	66688-32-2	246.73	2	499.64	2	744.50	2	33.26	2	485.5	2	0.6672	2	0.261	2	0.332
5396	C5H10I2	2,2-diiodo-3-methylbutane	66688-33-3	249.15	2	496.41	2	759.04	2	34.00	2	474.5	2	0.6827	2	0.256	2	0.242
5397	C5H10I2	2,3-diiodo-2-methylbutane	66688-34-4	249.15	2	496.41	2	759.04	2	34.00	2	474.5	2	0.6827	2	0.256	2	0.242
5398	C5H10I2	1,3-diiodo-2-ethylpropane	---	246.73	2	499.64	2	744.50	2	33.26	2	485.5	2	0.6672	2	0.261	2	0.332
5399	C5H10I2	1,1-diiodo-2,2-dimethylpropane	2443-89-2	249.15	2	496.41	2	759.04	2	34.00	2	474.5	2	0.6827	2	0.256	2	0.242
5400	C5H10I2	1,3-diiodo-2,2-dimethylpropane	66688-49-1	264.15	2	496.85	2	752.99	2	33.68	2	480.5	2	0.6742	2	0.259	2	0.271
5445	C5H10O	pentanal	110-62-3	182.00	1	376.15	1	566.10	1	39.70	1	313.0	1	0.2752	1	0.264	1	0.347
5446	C5H10O	2-methylbutanal	96-17-3	172.61	2	365.15	1	543.73	2	38.29	2	326.5	2	0.2638	2	0.277	2	0.388
5447	C5H10O	3-methylbutanal	590-86-3	168.15	1	365.75	1	544.62	2	38.29	2	326.5	2	0.2638	2	0.276	2	0.388
5448	C5H10O	2,2-dimethylpropanal	630-19-3	267.15	1	347.15	1	525.74	2	38.82	2	321.5	2	0.2679	2	0.286	2	0.325
5449	C5H10O	2-methylbutanal, (±)	57456-98-1	197.48	2	365.65	1	542.02	2	37.60	2	322.6	2	0.2670	2	0.269	2	0.373
5450	C5H10O	methyl propyl ketone	107-87-9	196.29	1	375.46	1	561.08	1	36.94	1	301.0	1	0.2862	1	0.238	1	0.343
5451	C5H10O	diethyl ketone	96-22-0	234.18	1	375.14	1	560.90	1	37.40	1	336.0	1	0.2564	1	0.269	1	0.345
5452	C5H10O	methyl isopropyl ketone	563-80-4	180.15	1	367.55	1	553.40	1	38.00	1	310.0	1	0.2779	1	0.256	1	0.321
5453	C5H10O	2-methyltetrahydrofuran	96-47-9	136.15	1	353.37	1	537.00	1	37.60	1	267.0	1	0.3226	1	0.225	1	0.300

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
5454	C5H10O	3-methyltetrahydrofuran	13423-15-9	159.55	2	411.15	1	639.01	2	42.89	2	277.5	2	0.3104	2	0.224	2	0.264
5455	C5H10O	allyl ethyl ether	557-31-3	133.15	2	340.75	1	505.58	2	35.97	2	313.5	2	0.2747	2	0.268	2	0.323
5456	C5H10O	isopropyl vinyl ether	926-65-8	133.15	1	328.65	1	505.58	2	35.97	2	313.5	2	0.2747	2	0.268	2	0.323
5457	C5H10O	3-methoxy-2-methyl-1-propene	22418-49-1	133.15	2	340.15	1	505.58	2	35.97	2	313.5	2	0.2747	2	0.268	2	0.323
5458	C5H10O	propyl vinyl ether	764-47-6	133.15	2	338.15	1	505.58	2	35.97	2	313.5	2	0.2747	2	0.268	2	0.323
5461	C5H10O	2-methyl-3-buten-2-ol	115-18-4	245.15	1	370.15	1	573.00	2	45.50	2	258.4	2	0.3334	2	0.247	2	---
5462	C5H10O	3-methyl-2-buten-1-ol	556-82-1	---	---	413.15	1	573.00	2	45.50	2	258.4	2	0.3334	2	0.247	2	---
5463	C5H10O	3-methyl-3-buten-2-ol	10473-14-0	---	---	387.15	1	573.00	2	45.50	2	258.4	2	0.3334	2	0.247	2	---
5464	C5H10O	1-penten-3-ol	616-25-1	---	---	388.15	1	573.00	2	45.50	2	258.4	2	0.3334	2	0.247	2	---
5465	C5H10O	3-penten-2-ol, (±)	42569-16-4	---	---	394.75	1	573.00	2	45.50	2	258.4	2	0.3334	2	0.247	2	---
5466	C5H10O	4-penten-1-ol	821-09-0	---	---	414.15	1	573.00	2	45.50	2	258.4	2	0.3334	2	0.247	2	---
5467	C5H10O	4-penten-2-ol	625-31-0	---	---	389.15	1	573.00	2	45.50	2	258.4	2	0.3334	2	0.247	2	---
5468	C5H10O	cis-2-penten-1-ol	1576-95-0	---	---	411.15	1	573.00	2	45.50	2	258.4	2	0.3334	2	0.247	2	---
5469	C5H10O	trans-2-penten-1-ol	1576-96-1	---	---	411.15	1	573.00	2	45.50	2	258.4	2	0.3334	2	0.247	2	---
5476	C5H10O	ethyl propenyl ether	928-55-2	133.15	2	343.15	1	505.58	2	35.97	2	313.5	2	0.2747	2	0.268	2	0.323
5477	C5H10O	2-methyl-3-buten-1-ol	4516-90-9	---	---	393.65	1	573.00	2	45.50	2	258.4	2	0.3334	2	0.247	2	---
5478	C5H10O	3-methyl-3-buten-1-ol	763-32-6	---	---	404.05	1	573.00	2	45.50	2	258.4	2	0.3334	2	0.247	2	---
5481	C5H10O	3-penten-2-ol	3899-34-1	---	---	393.15	1	573.00	2	45.50	2	258.4	2	0.3334	2	0.247	2	---
5482	C5H10O	pent-3-en-2-ol	1569-50-2	---	---	394.00	1	573.00	2	45.50	2	258.4	2	0.3334	2	0.247	2	---
5492	C5H10O2	pentanoic acid	109-52-4	239.15	1	458.95	1	639.16	1	35.72	1	336.2	1	0.3038	1	0.226	1	0.698
5493	C5H10O2	2-methylbutyric acid	116-53-0	218.15	1	450.15	1	643.00	2	38.90	2	347.0	2	0.2943	2	0.252	2	0.589
5494	C5H10O2	3-methylbutanoic acid	503-74-2	243.85	1	449.68	1	629.09	1	36.88	1	311.6	1	0.3278	1	0.220	1	0.682
5495	C5H10O2	2,2-dimethylpropanoic acid	75-98-9	309.08	1	436.95	1	632.00	2	38.90	2	336.0	2	0.3040	2	0.249	2	0.513
5496	C5H10O2	2-methylbutanoic acid	600-07-7	252.49	2	450.15	1	643.00	2	38.90	2	347.0	2	0.2943	2	0.252	2	0.589
5497	C5H10O2	butyl formate	592-84-7	181.25	1	379.25	1	559.00	2	35.10	2	336.0	2	0.3040	2	0.254	2	0.388
5498	C5H10O2	isobutyl formate	542-55-2	177.35	1	371.22	1	551.35	1	38.81	1	352.0	1	0.2902	1	0.298	1	0.390
5499	C5H10O2	sec-butyl formate	589-40-2	156.00	2	366.55	1	546.00	2	35.80	2	336.0	2	0.3040	2	0.265	2	0.349
5500	C5H10O2	tert-butyl formate	762-75-4	256.00	2	355.95	1	537.00	2	35.80	2	334.0	2	0.3058	2	0.268	2	0.294
5501	C5H10O2	propyl acetate	109-60-4	178.15	1	374.65	1	549.73	1	33.60	1	345.0	1	0.2960	1	0.254	1	0.389
5502	C5H10O2	isopropyl acetate	108-21-4	199.75	1	361.65	1	532.00	1	32.90	1	336.0	2	0.3040	2	0.250	1,2	0.368
5503	C5H10O2	ethyl propanoate	105-37-3	199.25	1	372.25	1	546.00	1	33.62	1	345.0	1	0.2960	1	0.256	1	0.394
5504	C5H10O2	methyl butanoate	623-42-7	187.35	1	375.90	1	554.50	1	34.73	1	340.0	1	0.3004	1	0.256	1	0.378
5505	C5H10O2	methyl isobutanoate	547-63-7	188.45	1	365.45	1	540.70	1	34.32	1	339.0	1	0.3013	1	0.259	1	0.364
5506	C5H10O2	tetrahydrofurfuryl alcohol	97-99-4	---	---	450.80	1	639.00	2	46.60	2	290.0	2	0.3522	2	0.254	2	0.704
5530	C5H10O2	(S)-(+)-2-methylbutyric acid	1730-91-2	252.49	2	409.77	2	640.04	2	38.86	2	336.9	2	0.3033	2	0.246	2	0.599
5537	C5H10O2S	3-methyl sulfolane	872-93-5	273.65	1	549.15	1	817.00	2	42.40	2	353.0	2	0.3802	2	0.220	2	0.419
5543	C5H10O3	diethyl carbonate	105-58-8	230.15	1	399.95	1	576.00	2	33.90	2	356.0	2	0.3318	2	0.252	2	0.486
5544	C5H10O3	ethyl lactate	97-64-3	247.15	1	427.65	1	588.00	2	38.60	2	354.0	2	0.3337	2	0.280	2	0.793
5593	C5H10S	thiacyclohexane	1613-51-0	292.14	1	414.90	1	657.12	2	46.53	2	295.5	2	0.3458	2	0.252	2	0.220
5594	C5H10S	2,2,3-trimethylthiacyclopropane	53971-47-4	266.66	2	363.94	2	569.72	2	40.99	2	315.5	2	0.3239	2	0.273	2	0.224
5595	C5H10S	2-methylthiacyclopentane	1795-09-1	172.44	1	405.63	1	637.00	2	43.06	2	302.5	2	0.3379	2	0.246	2	0.229
5596	C5H10S	3-methylthiacyclopentane	4740-00-5	191.99	1	411.49	1	646.20	2	43.06	2	302.5	2	0.3379	2	0.242	2	0.229
5597	C5H10S	cyclopentanethiol	1679-07-8	155.39	1	405.33	1	629.00	1	42.70	2	310.5	2	0.3291	2	0.254	1,2	0.262
5603	C5H11Br	1-bromopentane	110-53-2	185.26	1	402.74	1	564.76	2	37.68	2	377.5	2	0.4001	2	0.303	2	0.384
5604	C5H11Br	2-bromopentane	107-81-3	177.65	1	390.55	1	585.36	2	38.06	2	371.5	2	0.4066	2	0.291	2	0.359
5605	C5H11Br	3-bromopentane	1809-10-5	146.95	1	391.75	1	587.16	2	38.06	2	371.5	2	0.4066	2	0.290	2	0.359
5606	C5H11Br	1-bromo-2-methylbutane	10422-35-2	190.41	2	393.65	1	590.01	2	38.06	2	371.5	2	0.4066	2	0.288	2	0.359
5607	C5H11Br	1-bromo-3-methylbutane	107-82-4	161.15	1	393.55	1	589.86	2	38.06	2	371.5	2	0.4066	2	0.288	2	0.359
5608	C5H11Br	2-bromo-2-methylbutane	507-36-8	207.83	2	381.15	1	581.23	2	38.58	2	366.5	2	0.4121	2	0.293	2	0.296
5609	C5H11Br	2-bromo-3-methylbutane	18295-25-5	175.41	2	388.45	1	587.23	2	38.44	2	365.5	2	0.4133	2	0.288	2	0.328
5610	C5H11Br	1-bromo-2,2-dimethylpropane	630-17-1	207.83	2	379.15	1	578.18	2	38.58	2	366.5	2	0.4121	2	0.294	2	0.296
5611	C5H11Br	1-bromo-2-methylbutane, (S)	534-00-9	181.56	2	394.75	1	582.97	2	38.19	2	370.3	2	0.4080	2	0.292	2	0.342
5620	C5H11Cl	1-chloropentane	543-59-9	174.15	1	381.54	1	568.00	2	33.50	2	352.0	2	0.3028	2	0.250	2	0.333
5621	C5H11Cl	2-chloropentane	625-29-6	136.15	1	369.67	1	555.88	2	33.53	2	358.5	2	0.2973	2	0.260	2	0.299
5622	C5H11Cl	3-chloropentane	616-20-6	168.15	1	370.94	1	557.79	2	33.53	2	358.5	2	0.2973	2	0.259	2	0.299
5623	C5H11Cl	1-chloro-2-methylbutane	616-13-7	160.53	2	373.69	1	561.92	2	33.53	2	358.5	2	0.2973	2	0.257	2	0.299
5624	C5H11Cl	1-chloro-3-methylbutane	107-84-6	168.76	1	371.66	1	558.87	2	33.53	2	358.5	2	0.2973	2	0.259	2	0.293
5625	C5H11Cl	2-chloro-2-methylbutane	594-36-5	199.66	1	358.76	1	548.97	2	33.96	2	353.5	2	0.3015	2	0.263	2	0.233
5626	C5H11Cl	2-chloro-3-methylbutane	631-65-2	145.53	2	365.95	1	555.08	2	33.84	2	352.5	2	0.3024	2	0.258	2	0.269
5627	C5H11Cl	1-chloro-2,2-dimethylpropane	753-89-9	253.15	1	357.45	1	546.97	2	33.96	2	353.5	2	0.3015	2	0.264	2	0.239
5628	C5H11Cl	1-chloro-2-methylbutane, (±)	114180-21-1	171.36	2	373.05	1	556.69	2	33.67	2	355.7	2	0.2997	2	0.259	2	0.283
5629	C5H11Cl	2-chloropentane, (+)	29882-57-3	136.15	1	370.15	1	556.69	2	33.67	2	355.7	2	0.2997	2	0.259	2	0.283
5649	C5H11F	1-fluoropentane	592-50-7	153.15	1	335.95	1	496.70	2	31.60	2	333.0	2	0.2707	2	0.255	2	0.344
5650	C5H11F	2-fluoropentane	590-87-4	162.76	2	328.45	1	493.55	2	33.22	2	327.5	2	0.2752	2	0.265	2	0.298
5651	C5H11F	3-fluoropentane	41909-29-9	162.76	2	326.15	1	490.09	2	33.22	2	327.5	2	0.2752	2	0.267	2	0.298
5652	C5H11F	1-fluoro-2-methylbutane	10086-64-3	162.76	2	329.05	1	494.45	2	33.22	2	327.5	2	0.2752	2	0.265	2	0.298
5653	C5H11F	1-fluoro-3-methylbutane	407-06-7	162.76	2	326.65	1	490.84	2	33.22	2	327.5	2	0.2752	2	0.267	2	0.298
5654	C5H11F	2-fluoro-2-methylbutane	661-53-0	152.15	1	317.95	1	486.17	2	33.65	2	322.5	2	0.2795	2	0.268	2	0.238
5655	C5H11F	2-fluoro-3-methylbutane	62108-95-6	147.76	2	321.15	1	486.77	2	33.53	2	321.5	2	0.2804	2	0.266	2	0.269
5656	C5H11F	1-fluoro-2,2-dimethylpropane	59006-05-2	180.18	2	313.15	1	478.83	2	33.65	2	322.5	2	0.2795	2	0.273	2	0.238
5660	C5H11I	1-iodopentane	628-17-1	187.55	1	430.15	1	601.41	2	40.36	2	334.5	2	0.5921	2	0.270	2	0.728
5661	C5H11I	2-iodopentane	637-97-8	188.67	2	416.15	1	585.69	2	40.78	2	328.5	2	0.6029	2	0.275	2	0.694
5662	C5H11I	3-iodopentane	1809-05-8	188.67	2	418.15	1	588.50	2	40.78	2	328.5	2	0.6029	2	0.274	2	0.694
5663	C5H11I	1-iodo-2-methylbutane	29394-58-9	188.67	2	419.15	1	589.91	2	40.78	2	328.5	2	0.6029	2	0.273	2	0.694
5664	C5H11I	1-iodo-3-methylbutane	541-28-6	188.67	2	421.35	1	593.01	2	40.78	2	328.5	2	0.6029	2	0.272	2	0.694
5665	C5H11I	2-iodo-2-methylbutane	594-38-7	206.09	2	402.15	1	573.79	2	41.36	2	323.5	2	0.6122	2	0.280	2	0.623
5666	C5H11I	2-iodo-3-methylbutane	18295-27-7	173.67	2	413.15	1	585.43	2	41.20	2	322.5	2	0.6141	2	0.273	2	0.660
5667	C5H11I	1-iodo-2,2-dimethylpropane	15501-33-4	206.09	2	407.15	1	580.92	2	41.36	2	323.5	2	0.6122	2	0.277	2	0.623
5668	C5H11I	2-iodopentane, (±)	52152-72-4	191.01	2	413.15	1	587.33	2	40.92	2	327.3	2	0.6053	2	0.274	2	0.676
5669	C5H11N	N-methylpyrrolidine	120-94-5	183.15	1	352.30	1	550.00	2	42.00	2	300.0	2	0.2838	2	0.276	2	0.226

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
5670	C5H11N	piperidine	110-89-4	262.65	1	379.55	1	594.05	1	46.51	1	308.0	2	0.2765	2	0.290	1,2	0.243
5671	C5H11N	cyclopentylamine	1003-03-8	190.45	1	381.62	1	584.00	2	46.40	2	308.0	2	0.2765	2	0.294	2	0.329
5673	C5H11N	2-methylpyrrolidine	765-38-8	176.78	2	371.15	1	550.00	2	42.00	2	298.0	2	0.2857	2	0.274	2	0.227
5674	C5H11N	3-methylpyrrolidine	34375-89-8	170.40	1	364.05	2	550.00	2	42.00	2	298.0	2	0.2857	2	0.274	2	0.227
5675	C5H11NO	tert-butylformamide	2425-74-3	289.15	1	475.15	1	692.00	2	35.60	2	383.0	2	0.2641	2	0.237	2	0.449
5676	C5H11NO	N,N-diethylformamide	617-84-5	289.15	2	450.65	1	692.00	2	35.60	2	383.0	2	0.2641	2	0.237	2	0.449
5696	C5H11NO2	1-nitropentane	628-05-7	289.22	2	445.75	1	641.43	2	35.18	2	397.5	2	0.2947	2	0.262	2	0.510
5697	C5H11NO2	2-nitropentane	4609-89-6	274.22	2	425.15	1	611.00	2	31.00	2	391.0	2	0.2996	2	0.239	2	0.462
5698	C5H11NO2	3-nitropentane	551-88-2	274.22	2	425.15	1	611.00	2	31.00	2	391.0	2	0.2996	2	0.239	2	0.462
5699	C5H11NO2	1-nitro-2-methylbutane	3457-57-6	274.22	2	435.15	1	628.00	2	32.00	2	391.0	2	0.2996	2	0.240	2	0.456
5700	C5H11NO2	1-nitro-3-methylbutane	627-67-8	370.15	1	436.75	1	630.00	2	32.00	2	387.0	2	0.3027	2	0.236	2	0.458
5701	C5H11NO2	2-nitro-2-methylbutane	595-42-6	235.15	1	422.95	1	615.00	2	32.00	2	388.0	2	0.3019	2	0.243	2	0.421
5702	C5H11NO2	2-nitro-3-methylbutane	2625-35-6	259.22	2	424.15	1	614.00	2	32.00	2	385.0	2	0.3043	2	0.241	2	0.441
5703	C5H11NO2	1-nitro-2,2-dimethylpropane	34715-98-5	287.15	1	423.65	1	614.00	2	31.00	2	392.0	2	0.2988	2	0.238	2	0.423
5772	C5H12	pentane	109-66-0	143.42	1	309.22	1	469.70	1	33.70	1	313.0	1	0.2305	1	0.270	1	0.252
5773	C5H12	isopentane	78-78-4	113.25	1	300.99	1	460.40	1	33.80	1	306.0	1	0.2358	1	0.270	1	0.228
5774	C5H12	neopentane	463-82-1	256.60	1	282.65	1	433.80	1	31.96	1	307.0	1	0.2350	1	0.272	1	0.196
5831	C5H12O	1-pentanol	71-41-0	195.56	1	410.95	1	588.10	1	38.97	1	326.0	1	0.2704	1	0.260	1	0.573
5832	C5H12O	2-pentanol	6032-29-7	200.00	1	392.15	1	560.30	1	36.75	1	329.0	1	0.2679	1	0.260	1	0.559
5833	C5H12O	3-pentanol	584-02-1	204.15	1	388.45	1	559.60	1	38.80	2	325.0	1	0.2712	1	0.271	1,2	0.538
5834	C5H12O	2-methyl-1-butanol	137-32-6	195.00	2	401.85	1	575.40	1	39.40	1	327.0	2	0.2696	2	0.269	1,2	0.574
5835	C5H12O	2-methyl-1-butanol, (±)	34713-94-5	212.34	2	400.65	1	562.34	2	38.90	2	326.9	2	0.2697	2	0.272	2	0.577
5836	C5H12O	3-methyl-2-butanol, (±)	70116-68-6	212.34	2	386.05	1	562.34	2	38.90	2	326.9	2	0.2697	2	0.272	2	0.577
5837	C5H12O	3-methyl-1-butanol	123-51-3	155.95	1	404.35	1	577.20	1	39.30	1	327.0	2	0.2696	2	0.268	1,2	0.589
5838	C5H12O	tert-pentyl-alcohol	75-85-4	264.35	1	375.15	1	543.70	1	37.10	1	327.0	2	0.2696	2	0.268	1,2	0.479
5839	C5H12O	3-methyl-2-butanol	598-75-4	176.43	2	384.65	1	556.10	1	38.70	1	327.0	2	0.2696	2	0.274	1,2	0.512
5840	C5H12O	2,2-dimethyl-1-propanol	75-84-3	327.15	1	386.25	1	550.00	2	38.80	2	327.0	2	0.2696	2	0.277	2	0.604
5841	C5H12O	methyl butyl ether	628-28-4	157.48	1	343.31	1	512.74	1	33.71	1	329.0	1	0.2679	1	0.260	1	0.313
5842	C5H12O	methyl isobutyl ether	625-44-5	152.84	2	331.70	1	497.00	2	34.10	2	329.0	2	0.2679	2	0.272	2	0.310
5843	C5H12O	methyl sec-butyl ether	6795-87-5	152.84	2	332.15	1	498.00	2	34.10	2	329.0	2	0.2679	2	0.271	2	0.306
5844	C5H12O	methyl tert-butyl ether	1634-04-4	164.55	1	328.35	1	497.10	1	34.30	1	329.0	2	0.2679	2	0.273	1,2	0.266
5845	C5H12O	ethyl propyl ether	628-32-0	145.65	1	337.01	1	500.23	1	33.70	1	339.0	1	0.2600	1	0.275	1	0.346
5846	C5H12O	ethyl isopropyl ether	625-54-7	140.00	2	326.15	1	489.00	2	34.10	2	329.0	2	0.2679	2	0.276	2	0.306
5847	C5H12O	sec-butyl methyl ether	116783-23-4	154.48	2	332.25	1	497.32	2	34.09	2	330.8	2	0.2665	2	0.273	2	0.327
5848	C5H12O	sec-butyl methyl ether (d)	66610-39-7	154.48	2	333.85	1	497.32	2	34.09	2	330.8	2	0.2665	2	0.273	2	0.327
5849	C5H12O	(S)-(-)-2-methyl-1-butanol	1565-80-6	203.25	1	401.05	1	562.34	2	38.90	2	326.9	2	0.2697	2	0.272	2	0.577
5850	C5H12O	(S)-(+)-2-pentanol	26184-62-3	223.25	1	391.65	1	562.34	2	38.90	2	326.9	2	0.2697	2	0.272	2	0.577
5851	C5H12O	pentanol	30899-19-5	194.25	1	403.15	1	562.34	2	38.90	2	326.9	2	0.2697	2	0.272	2	0.577
5852	C5H12O	(R)-(-)-2-pentanol	31087-44-2	212.34	2	397.10	1	562.34	2	38.90	2	326.9	2	0.2697	2	0.272	2	0.577
5853	C5H12O	(S)-3-methyl-2-butanol	1517-66-4	212.34	2	372.19	2	562.34	2	38.90	2	326.9	2	0.2697	2	0.272	2	0.577
5857	C5H12O2	ethylene glycol monopropyl ether	2807-30-9	183.15	1	424.50	1	615.20	1	36.51	1	347.0	2	0.3001	2	0.248	1,2	0.486
5858	C5H12O2	neopentyl glycol	126-30-7	403.30		477.15	1	635.00	2	42.40	2	345.0	2	0.3019	2	0.277	2	1.126
5859	C5H12O2	1,2-pentanediol	5343-92-0	252.25	2	482.15	1	637.98	2	44.09	2	347.5	2	0.2997	2	0.289	2	1.179
5860	C5H12O2	1,2-pentanediol, (±)	91049-43-3	273.25	2	482.15	1	633.16	2	44.22	2	342.9	2	0.3038	2	0.288	2	1.144
5861	C5H12O2	1,3-pentanediol	3174-67-2	252.25	2	494.15	2	653.86	2	44.09	2	347.5	2	0.2997	2	0.282	2	1.179
5862	C5H12O2	1,4-pentanediol	626-95-9	252.25	2	475.15	1	657.63	2	44.09	2	347.5	2	0.2997	2	0.280	2	1.179
5863	C5H12O2	1,5-pentanediol	111-29-5	257.15	1	512.15	1	673.00	2	41.50	2	345.0	2	0.3019	2	0.256	2	1.222
5864	C5H12O2	2,3-pentanediol	42027-23-6	273.25	2	460.65	1	633.16	2	44.22	2	342.9	2	0.3038	2	0.288	2	1.144
5865	C5H12O2	2,4-pentanediol	625-69-4	325.65	1	474.15	1	629.00	2	43.30	2	325.0	2	0.3205	2	0.269	2	1.122
5866	C5H12O2	DL-erythro-2,3-pentanediol	61828-35-1	237.25	2	475.00	2	631.58	2	44.56	2	341.5	2	0.3050	2	0.290	2	1.142
5867	C5H12O2	DL-threo-2,3-pentanediol	61828-36-2	237.25	2	475.00	2	631.58	2	44.56	2	341.5	2	0.3050	2	0.290	2	1.142
5868	C5H12O2	DL-2,4-pentanediol	1825-14-5	322.15	1	474.15	1	630.45	2	44.56	2	341.5	2	0.3050	2	0.290	2	1.142
5869	C5H12O2	meso-2,4-pentanediol	3950-21-8	322.15	1	474.15	1	630.45	2	44.56	2	341.5	2	0.3050	2	0.290	2	1.142
5870	C5H12O2	2-methyl-1,2-butanediol	41051-72-3	269.67	2	462.15	1	617.54	2	44.74	2	342.5	2	0.3041	2	0.298	2	1.102
5871	C5H12O2	2-methyl-1,3-butanediol	684-84-4	237.25	2	473.15	1	615.15	2	44.56	2	341.5	2	0.3050	2	0.298	2	1.142
5872	C5H12O2	2-methyl-1,4-butanediol	2938-98-9	237.25	2	463.15	1	615.82	2	44.56	2	341.5	2	0.3050	2	0.297	2	1.142
5873	C5H12O2	2-methyl-2,3-butanediol	5396-58-7	254.67	2	447.15	1	600.61	2	45.22	2	336.5	2	0.3095	2	0.305	2	1.066
5874	C5H12O2	3-methyl-1,2-butanediol	50468-22-9	237.25	2	473.15	1	629.12	2	44.56	2	341.5	2	0.3050	2	0.291	2	1.142
5875	C5H12O2	3-methyl-1,3-butanediol	2568-33-4	271.04	2	472.15	1	632.01	2	45.96	2	327.5	2	0.3180	2	0.286	2	1.103
5876	C5H12O2	2-ethyl-1,3-propanediol	2612-29-5	235.88	2	475.20	2	630.78	2	43.40	2	356.5	2	0.2921	2	0.295	2	1.142
5877	C5H12O2	diethoxymethane	462-95-3	206.65	1	360.65	1	524.00	2	32.80	2	349.0	2	0.2984	2	0.263	2	0.430
5881	C5H12O2	1-ethoxy-2-propanol	1569-02-4	191.58	2	404.15	1	582.00	2	36.70	2	350.1	2	0.2975	2	0.266	2	0.783
5882	C5H12O2	2-ethoxy-1-propanol	19089-47-5	191.58	2	413.65	1	582.00	2	36.70	2	350.1	2	0.2975	2	0.266	2	0.783
5883	C5H12O2	2-isopropoxyethanol	109-59-1	191.58	2	418.15	1	582.00	2	36.70	2	350.1	2	0.2975	2	0.266	2	0.783
5884	C5H12O2	3-methoxy-1-butanol	2517-43-3	191.58	2	430.15	1	582.00	2	36.70	2	350.1	2	0.2975	2	0.266	2	0.783
5886	C5H12O2	3-ethoxy-1-propanol	111-35-3	200.00	2	420.00	1	582.00	2	36.70	2	350.1	2	0.2975	2	0.266	2	0.783
5887	C5H12O2	1-methoxy-2-butanol	53778-73-7	191.58	2	407.15	1	582.00	2	36.70	2	350.1	2	0.2975	2	0.266	2	0.783
5888	C5H12O2	(R,R)-(-)-2,4-pentanediol	42075-32-1	323.15	1	444.01	2	633.16	2	44.22	2	342.9	2	0.3038	2	0.288	2	1.144
5889	C5H12O2	(2S,4S)-(+)-pentanediol	72345-23-4	319.65	1	444.01	2	633.16	2	44.22	2	342.9	2	0.3038	2	0.288	2	1.144
5890	C5H12O2	ethyl ether of propylene glycol	52125-53-8	191.58	2	444.01	2	582.00	2	36.70	2	350.1	2	0.2975	2	0.266	2	0.783
5899	C5H12O3	2-(2-methoxyethoxy)ethanol	111-77-3	208.15	2	466.75	1	630.00	2	35.40	2	367.0	2	0.3274	2	0.248	2	0.871
5912	C5H12O4	pentaerythritol	115-77-5	538.65	1	631.00	1	780.00	2	47.80	2	381.0	2	0.3573	2	0.281	2	2.173
5921	C5H12S	pentyl mercaptan	110-66-7	197.45	1	399.79	1	598.00	2	34.70	2	359.0	2	0.2903	2	0.251	2	0.321
5922	C5H12S	2-pentanethiol	2084-19-7	104.20	1	385.55	1	580.00	1	34.00	1	362.0	1	0.2879	1	0.255	1	0.302
5923	C5H12S	3-pentanethiol	616-31-9	162.35	1	387.05	1	580.00	2	34.00	2	383.0	2	0.2721	2	0.270	2	0.317
5924	C5H12S	2-methyl-1-butanethiol	1878-18-8	167.07	2	392.15	1	591.00	2	35.00	2	364.0	2	0.2863	2	0.259	2	0.306
5925	C5H12S	3-methyl-1-butanethiol	541-31-1	139.64	1	391.50	1	604.00	2	35.00	2	364.0	2	0.2863	2	0.254	2	0.220
5926	C5H12S	2-methyl-2-butanethiol	1679-09-0	169.38	1	372.28	1	566.00	2	32.70	2	358.5	2	0.2907	2	0.249	2	0.243
5927	C5H12S	3-methyl-2-butanethiol	2084-18-6	149.33	2	382.91	1	579.00	2	34.00	2	362.0	2	0.2879	2	0.256	2	0.283
5928	C5H12S	2,2-dimethyl-1-propanethiol	1679-08-9	206.15	1	376.83	1	570.00	2	34.00	2	369.0	2	0.2824	2	0.265	2	0.281

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
5929	C5H12S	2-methyl-1-butanethiol, (+)	20089-07-0	161.95	2	392.25	1	583.50	2	34.18	2	365.2	2	0.2855	2	0.257	2	0.284
5930	C5H12S	methyl butyl sulfide	628-29-5	175.30	1	396.58	1	593.00	2	34.70	2	360.0	2	0.2895	2	0.253	2	0.323
5931	C5H12S	ethyl propyl sulfide	4110-50-3	156.15	1	391.65	1	584.00	2	33.80	2	369.5	2	0.2820	2	0.257	2	0.329
5932	C5H12S	3-methyl-2-thiapentane	10359-64-5	165.01	2	385.15	1	585.00	2	34.00	2	370.0	2	0.2817	2	0.259	2	0.266
5933	C5H12S	4-methyl-2-thiapentane	5008-69-5	164.05	1	385.65	1	585.00	2	34.00	2	370.0	2	0.2817	2	0.259	2	0.271
5934	C5H12S	2-methyl-3-thiapentane	5145-99-3	150.96	1	380.53	1	585.00	2	34.00	2	370.0	2	0.2817	2	0.259	2	0.223
5935	C5H12S	3,3-dimethyl-2-thiabutane	6163-64-0	190.84	1	372.05	1	570.00	2	35.40	2	360.0	2	0.2895	2	0.269	2	0.233
5937	C5H12S2	1,3-bis(methylthio)propane	24949-35-7	---	---	364.15	1	657.50	2	33.10	2	418.8	2	0.3275	2	0.254	2	0.358
5938	C5H12S2	1,1'-[methylenebis(thio)]bisethane	4396-19-4	---	---	426.65	2	657.50	2	33.10	2	418.8	2	0.3275	2	0.254	2	0.358
5947	C5H13N	pentylamine	110-58-7	218.15	1	377.65	1	555.00	2	35.80	2	365.0	2	0.2388	2	0.283	2	0.407
5948	C5H13N	1-methylbutylamine	625-30-9	203.15	2	364.85	1	534.90	2	34.90	2	347.0	2	0.2512	2	0.272	2	0.419
5949	C5H13N	2-methylbutylamine	96-15-1	203.15	2	368.65	1	542.60	2	36.20	2	341.0	2	0.2556	2	0.274	2	0.416
5950	C5H13N	3-methylbutylamine	107-85-7	203.15	2	370.15	1	544.90	2	36.20	2	340.0	2	0.2564	2	0.272	2	0.416
5951	C5H13N	1,1-dimethylpropylamine	594-39-8	168.15	1	350.15	1	526.00	2	36.60	2	367.0	2	0.2375	2	0.307	2	0.320
5952	C5H13N	1,2-dimethylpropylamine	598-74-3	223.15	1	357.15	1	527.40	2	35.40	2	339.0	2	0.2571	2	0.274	2	0.393
5953	C5H13N	2,2-dimethylpropylamine	5813-64-9	203.15	2	350.15	1	517.10	2	34.60	2	346.0	2	0.2519	2	0.278	2	0.384
5954	C5H13N	3-pentanamine	616-24-0	203.15	2	362.15	1	525.16	2	35.40	2	345.8	2	0.2522	2	0.280	2	0.379
5955	C5H13N	methyl-butylamine	110-68-9	198.15	1	364.25	1	531.80	2	35.20	2	345.0	2	0.2527	2	0.275	2	0.441
5956	C5H13N	methylisobutylamine	14610-37-8	198.15	2	350.15	1	515.20	2	34.90	2	345.0	2	0.2527	2	0.281	2	0.403
5957	C5H13N	methyl-sec-butylamine	7713-69-1	198.15	2	351.65	1	519.90	2	36.20	2	341.0	2	0.2556	2	0.286	2	0.397
5958	C5H13N	methyl-tert-butylamine	625-43-4	198.15	2	346.15	1	513.20	2	35.60	2	346.0	2	0.2519	2	0.289	2	0.378
5959	C5H13N	ethylpropylamine	20193-20-8	198.15	2	353.45	1	520.00	2	34.00	2	345.0	2	0.2527	2	0.271	2	0.393
5960	C5H13N	ethylisopropylamine	19961-27-4	198.15	2	349.15	1	513.80	2	34.90	2	345.0	2	0.2527	2	0.282	2	0.403
5961	C5H13N	methyldiethylamine	616-39-7	170.00	2	339.15	1	507.56	2	36.29	2	353.5	2	0.2466	2	0.304	2	0.347
5962	C5H13N	dimethyl-propylamine	926-63-6	170.00	2	339.15	1	528.00	2	33.50	2	345.0	2	0.2527	2	0.263	2	0.175
5963	C5H13N	dimethylisopropylamine	996-35-6	170.00	2	339.15	1	511.91	2	36.64	2	347.5	2	0.2508	2	0.299	2	0.317
5964	C5H13N	(S)-(-)-2-methylbutylamine	20626-52-2	203.15	2	354.02	2	525.16	2	35.40	2	345.8	2	0.2522	2	0.280	2	0.379
5965	C5H13N	N,N-dimethyl-2-propanamine	996-35-0	170.00	2	339.18	1	525.16	2	35.40	2	345.8	2	0.2522	2	0.280	2	0.379
5966	C5H13NO	2-amino-3-methyl-1-butanol, (±)	16369-05-4	302.99	2	435.30	2	626.41	2	37.90	2	368.0	2	0.2830	2	0.268	2	0.841
5967	C5H13NO	2-amino-3-pentanol	116836-16-9	302.99	2	444.15	1	626.41	2	37.90	2	368.0	2	0.2830	2	0.268	2	0.841
5968	C5H13NO	5-amino-1-pentanol	2508-29-4	311.65	1	494.65	1	626.41	2	37.90	2	368.0	2	0.2830	2	0.268	2	0.841
5969	C5H13NO	1-(dimethylamino)-2-propanol	108-16-7	302.99	2	397.65	1	626.41	2	37.90	2	368.0	2	0.2830	2	0.268	2	0.841
5970	C5H13NO	2-(dimethylamino)-1-propanol	15521-18-3	302.99	2	423.45	1	626.41	2	37.90	2	368.0	2	0.2830	2	0.268	2	0.841
5971	C5H13NO	3-(dimethylamino)-1-propanol	3179-63-3	302.99	2	436.65	1	626.41	2	37.90	2	368.0	2	0.2830	2	0.268	2	0.841
5973	C5H13NO	2-(isopropylamino)ethanol	109-56-8	289.00	1	446.15	1	626.41	2	37.90	2	368.0	2	0.2830	2	0.268	2	0.841
5975	C5H13NO	2-(propylamino)ethanol	16369-21-4	302.99	2	455.15	1	626.41	2	37.90	2	368.0	2	0.2830	2	0.268	2	0.841
5976	C5H13NO	(S)-(+)-2-amino-3-methyl-1-butanol	2026-48-4	304.15	1	435.30	2	626.41	2	37.90	2	368.0	2	0.2830	2	0.268	2	0.841
5977	C5H13NO	(R)-(-)-2-amino-3-methyl-1-butanol	4276-09-9	307.15	1	462.65	1	626.41	2	37.90	2	368.0	2	0.2830	2	0.268	2	0.841
5978	C5H13NO	2-amino-3-methyl-1-butanol	473-75-6	302.99	2	435.30	2	626.41	2	37.90	2	368.0	2	0.2830	2	0.268	2	0.841
5979	C5H13NO	DL-2-amino-1-pentanol	4146-04-7	302.99	2	467.65	1	626.41	2	37.90	2	368.0	2	0.2830	2	0.268	2	0.841
5980	C5H13NO	(S)-(+)-1-dimethylamino-2-propanol	53636-17-2	302.99	2	397.15	1	626.41	2	37.90	2	368.0	2	0.2830	2	0.268	2	0.841
5986	C5H13NO2	methyl diethanolamine	105-59-9	252.15	1	518.00	1	675.00	2	38.80	2	368.0	2	0.3238	2	0.254	2	1.165
5987	C5H13NO2	2-amino-2-ethyl-1,3-propanediol	115-70-8	310.65	1	449.90	2	678.00	2	38.80	2	401.0	2	0.2972	2	0.276	2	1.302
6009	C5H14N2	1,5-pentanediamine	462-94-2	282.15	1	452.15	1	637.67	2	42.10	2	358.0	2	0.2855	2	0.284	2	0.591
6010	C5H14N2	N,N,N',N'-tetramethylmethanediamine	51-80-9	242.26	2	356.15	1	637.67	2	42.10	2	358.0	2	0.2855	2	0.284	2	0.591
6011	C5H14N2	1,3-diaminopentane	589-37-7	152.25	1	437.15	1	637.67	2	42.10	2	358.0	2	0.2855	2	0.284	2	0.591
6012	C5H14N2	3-dimethylamino-1-propylamine	109-55-7	213.25	1	406.65	1	637.67	2	42.10	2	358.0	2	0.2855	2	0.284	2	0.591
6013	C5H14N2	N,N'-dimethyl-1,3-propanediamine	111-33-1	194.43	1	418.15	1	637.67	2	42.10	2	358.0	2	0.2855	2	0.284	2	0.591
6014	C5H14N2	2,2-dimethyl-1,3-propanediamine	7328-91-8	303.15	1	426.15	1	637.67	2	42.10	2	358.0	2	0.2855	2	0.284	2	0.591
6015	C5H14N2	1-dimethylamino-2-propylamine	62689-51-4	308.33	1	385.65	1	637.67	2	42.10	2	358.0	2	0.2855	2	0.284	2	0.591
6016	C5H14N2	N-isopropylethylenediamine	19522-67-9	242.26	2	409.15	1	637.67	2	42.10	2	358.0	2	0.2855	2	0.284	2	0.591
6017	C5H14N2	N-propylethylenediamine	111-39-7	242.26	2	421.65	1	637.67	2	42.10	2	358.0	2	0.2855	2	0.284	2	0.591
6018	C5H14N2	N,N,N'-trimethylethylenediamine	142-25-6	242.26	2	390.15	1	637.67	2	42.10	2	358.0	2	0.2855	2	0.284	2	0.591
6067	C6Cl6	hexachlorobenzene	118-74-1	501.70	1	582.55	1	825.00	2	28.50	2	526.0	2	0.5414	2	0.219	2	0.497
6080	C6F6	hexafluorobenzene	392-56-3	278.25	1	353.41	1	516.73	1	32.73	1	335.0	1	0.5554	1	0.255	1	0.395
6115	C6HCl5	pentachlorobenzene	608-93-5	358.65	1	549.15	1	791.17	2	34.28	2	508.5	2	0.4923	2	0.265	2	0.493
6174	C6H2Cl4	1,2,3,4-tetrachlorobenzene	634-66-2	319.65	1	527.25	1	772.88	2	36.47	2	459.5	2	0.4698	2	0.261	2	0.437
6175	C6H2Cl4	1,2,3,5-tetrachlorobenzene	634-90-2	327.65	1	519.25	1	761.15	2	36.47	2	459.5	2	0.4698	2	0.265	2	0.437
6176	C6H2Cl4	1,2,4,5-tetrachlorobenzene	95-94-3	412.15	1	518.25	1	759.69	2	36.47	2	459.5	2	0.4698	2	0.265	2	0.437
6281	C6H3ClN2O4	1-chloro-2,4-dinitrobenzene	97-00-7	326.55		588.00	1	813.77	2	34.90	2	478.0	2	0.4238	2	0.247	2	0.732
6296	C6H3Cl2NO2	1,2-dichloro-4-nitrobenzene	99-54-7	315.65	1	529.00	1	758.00	2	36.00	2	436.0	2	0.4404	2	0.249	2	0.539
6305	C6H3Cl3	1,2,4-trichlorobenzene	120-82-1	290.15	1	486.15	1	725.00	2	37.20	2	395.0	2	0.4594	2	0.244	2	0.358
6306	C6H3Cl3	1,2,3-trichlorobenzene	87-61-6	325.65	1	491.75	1	734.00	2	45.10	2	395.0	2	0.4594	2	0.292	2	0.426
6307	C6H3Cl3	1,3,5-trichlorobenzene	108-70-3	336.65	1	481.55	1	718.00	2	37.20	2	425.0	2	0.4269	2	0.265	2	0.360
6308	C6H3Cl3	trichlorobenzene	12002-48-1	313.40	1	486.40	1	726.09	2	38.31	2	405.3	2	0.4478	2	0.257	2	0.374
6367	C6H3N3O6	1,3,5-trinitrobenzene	99-35-4	398.40		629.60	1	846.00	2	33.90	2	479.0	2	0.4449	2	0.231	2	0.862
6411	C6H4Br2	m-dibromobenzene	108-36-1	266.25	1	491.15	1	761.00	2	46.60	2	372.0	2	0.6342	2	0.274	2	0.293
6412	C6H4Br2	o-dibromobenzene	583-53-9	274.95	1	498.15	1	761.00	2	46.60	2	372.0	2	0.6342	2	0.274	2	0.293
6413	C6H4Br2	p-dibromobenzene	106-37-6	360.00	1	491.65	1	761.00	2	46.60	2	372.0	2	0.6342	2	0.274	2	0.293
6414	C6H4Br2	dibromobenzene	26249-12-7	300.40	2	493.65	2	761.00	2	46.60	2	372.0	2	0.6342	2	0.274	2	0.293
6443	C6H4ClNO2	m-chloronitrobenzene	121-73-3	317.65	1	508.75	1	742.00	2	39.80	2	432.0	2	0.3647	2	0.279	2	0.492
6444	C6H4ClNO2	o-chloronitrobenzene	88-73-3	306.15	1	519.00	1	757.00	2	39.80	2	432.0	2	0.3647	2	0.273	2	0.486
6445	C6H4ClNO2	p-chloronitrobenzene	100-00-5	356.65	1	515.15	1	751.00	2	39.80	2	432.0	2	0.3647	2	0.275	2	0.491
6469	C6H4Cl2	o-dichlorobenzene	95-50-1	256.15	1	453.57	1	705.00	2	40.70	2	351.0	2	0.4188	2	0.244	2	0.219
6470	C6H4Cl2	m-dichlorobenzene	541-73-1	248.39	1	446.23	1	683.95	1	40.70	2	351.0	2	0.4188	2	0.251	1,2	0.279
6471	C6H4Cl2	p-dichlorobenzene	106-46-7	326.14	1	447.21	1	684.75	1	40.70	2	351.0	2	0.4188	2	0.251	1,2	0.285
6524	C6H4F2	m-difluorobenzene	372-18-9	204.03	1	363.66	1	552.94	2	40.67	2	299.5	2	0.3809	2	0.265	2	0.320
6525	C6H4F2	o-difluorobenzene	367-11-3	239.16	1	364.66	1	554.46	2	40.67	2	299.5	2	0.3809	2	0.264	2	0.320
6526	C6H4F2	p-difluorobenzene	540-36-3	260.16	1	362.00	1	556.00	2	44.00	2	299.5	2	0.3809	2	0.285	2	0.299
6567	C6H4N2	3-pyridinecarbonitrile	100-54-9	323.15	1	474.15	1	703.00	2	41.20	2	344.0	2	0.3027	2	0.242	2	0.422

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_c, K	code	P_c, bar	code	V_c, ml/mol	code	rho_c, g/ml	code	Z_c	code	omega
6580	C6H4N2O4	m-dinitrobenzene	99-65-0	363.23	1	575.50	1	808.00	2	38.50	2	434.0	2	0.3873	2	0.249	2	0.667
6581	C6H4N2O4	o-dinitrobenzene	528-29-0	390.08	1	592.00	1	831.00	2	38.50	2	434.0	2	0.3873	2	0.242	2	0.669
6582	C6H4N2O4	p-dinitrobenzene	100-25-4	446.60	1	571.50	1	803.00	2	38.50	2	434.0	2	0.3873	2	0.250	2	0.662
6616	C6H4O2	p-benzoquinone	106-51-4	388.85		454.00	2	683.00	2	59.60	2	291.0	2	0.3715	2	0.305	2	0.495
6656	C6H5Br	bromobenzene	108-86-1	242.43	1	429.24	1	670.15	1	45.19	1	324.0	1	0.4846	1	0.263	1	0.251
6692	C6H5Cl	chlorobenzene	108-90-7	227.95	1	404.87	1	632.35	1	45.19	1	308.0	1	0.3654	1	0.265	1	0.250
6720	C6H5ClO	m-chlorophenol	108-43-0	306.00	1	487.00	1	729.00	2	53.20	2	320.0	2	0.4017	2	0.281	2	0.486
6721	C6H5ClO	o-chlorophenol	95-57-8	282.00	1	447.53	1	675.00	2	50.00	2	325.0	2	0.3956	2	0.290	2	0.437
6722	C6H5ClO	p-chlorophenol	106-48-9	316.00	1	493.11	1	738.00	2	53.20	2	325.0	2	0.3956	2	0.282	2	0.485
6734	C6H5ClO3S	4-chlorobenzenesulfonic acid	98-66-8	367.15	1	---	---	---	---	---	---	429.0	2	0.4490	2	---	---	---
6740	C6H5Cl2N	3,4-dichloroaniline	95-76-1	344.65	1	545.00	1	800.00	2	41.10	2	409.0	2	0.3961	2	0.253	2	0.468
6764	C6H5Cl3Si	trichlorophenylsilane	98-13-5	233.20	1	474.95	1	688.00	2	29.60	2	499.0	2	0.4239	2	0.258	2	0.396
6769	C6H5F	fluorobenzene	462-06-6	230.94	1	357.88	1	560.09	1	45.51	1	269.0	1	0.3573	1	0.263	1	0.247
6795	C6H5I	iodobenzene	591-50-4	241.83	1	461.60	1	721.15	1	45.19	1	351.0	1	0.5812	1	0.265	1	0.247
6819	C6H5NO2	nitrobenzene	98-95-3	278.91	1	483.95	1	719.00	2	44.00	2	349.0	2	0.3528	2	0.257	2	0.449
6822	C6H5NO2	3-pyridinecarboxylic acid	59-67-6	509.65	1	526.00	2	760.00	2	46.40	2	349.0	2	0.3528	2	0.256	2	0.596
6876	C6H6	benzene	71-43-2	278.68	1	353.24	1	562.05	1	48.95	1	256.0	1	0.3051	1	0.268	1	0.210
6923	C6H6ClN	m-chloroaniline	108-42-9	262.75	1	501.65	1	751.00	2	45.90	2	364.0	2	0.3505	2	0.268	2	0.420
6924	C6H6ClN	o-chloroaniline	95-51-2	271.05	1	481.99	1	722.00	2	45.90	2	364.0	2	0.3505	2	0.278	2	0.421
6925	C6H6ClN	p-chloroaniline	106-47-8	343.05	1	503.65	1	754.00	2	45.90	2	364.0	2	0.3505	2	0.267	2	0.421
6979	C6H6N2	cis-dicyano-1-butene	2141-58-4	249.00	1	577.00	1	796.00	2	29.50	2	392.0	2	0.2707	2	0.175	2	0.664
6980	C6H6N2	trans-dicyano-1-butene	2141-59-5	260.15	1	555.00	1	766.00	2	29.50	2	392.0	2	0.2707	2	0.182	2	0.659
6981	C6H6N2	trans-1,4-dicyano-2-butene	1119-85-3	349.00	1	547.00	1	755.00	2	29.50	2	426.0	2	0.2491	2	0.200	2	0.667
6996	C6H6N2O2	m-nitroaniline	99-09-2	387.15	1	579.00	1	815.00	2	44.20	2	406.0	2	0.3402	2	0.265	2	0.730
6997	C6H6N2O2	o-nitroaniline	88-74-4	344.65	1	558.00	1	784.00	2	44.20	2	406.0	2	0.3402	2	0.275	2	0.741
6998	C6H6N2O2	p-nitroaniline	100-01-6	420.65	1	609.15	1	851.00	2	44.20	2	406.0	2	0.3402	2	0.254	2	0.782
7000	C6H6N2O2	N-nitroaniline	645-55-6	320.45	1	557.33	2	816.67	2	44.20	2	406.0	2	0.3402	2	0.264	2	0.754
7039	C6H6N4	nitrilotrisacetonitrile	7327-60-8	399.15	1	623.00	2	823.00	2	26.40	2	485.0	2	0.2766	2	0.187	2	0.924
7057	C6H6O	phenol	108-95-2	314.06	1	454.99	1	694.25	1	61.30	1	229.0	1	0.4110	1	0.243	1	0.426
7070	C6H6O2	pyrocatechol	120-80-9	377.60	1	518.65	1	764.00	2	74.90	2	300.0	2	0.3670	2	0.354	2	0.701
7071	C6H6O2	resorcinol	108-46-3	382.00	1	549.65	1	810.00	2	74.90	2	300.0	2	0.3670	2	0.334	2	0.677
7072	C6H6O2	p-hydroquinone	123-31-9	444.65	1	559.15	1	823.00	2	74.50	2	300.0	2	0.3670	2	0.327	2	0.682
7085	C6H6O3	1,2,3-benzenetriol	87-66-1	405.15	1	581.85	1	830.00	2	88.10	2	318.0	2	0.3966	2	0.406	2	0.945
7102	C6H6O3S	benzenesulfonic acid	98-11-3	338.65	1	---	---	---	---	---	---	386.0	2	0.4098	2	---	---	---
7121	C6H6S	phenyl mercaptan	108-98-5	258.26	1	442.29	1	689.00	2	47.40	2	315.0	2	0.3498	2	0.261	2	0.263
7172	C6H7N	aniline	62-53-3	267.13	1	457.15	1	699.00	1	53.10	2	270.0	2	0.3449	2	0.247	1,2	0.378
7173	C6H7N	2-methylpyridine	109-06-8	206.44	1	402.55	1	621.00	1	46.00	1	335.0	1	0.2780	1	0.298	1	0.299
7174	C6H7N	3-methylpyridine	108-99-6	255.01	1	417.29	1	645.00	1	46.60	2	320.0	2	0.2910	2	0.278	1,2	0.298
7175	C6H7N	4-methylpyridine	108-89-4	276.80	1	418.50	1	646.15	1	46.60	1	326.0	1	0.2857	1	0.283	1	0.301
7178	C6H7N	methylpyridine	1333-41-1	275.55	1	418.15	1	637.38	2	44.74	2	321.9	2	0.2893	2	0.272	2	0.284
7267	C6H8	1,3-cyclohexadiene	592-57-4	161.00	1	353.49	1	558.00	2	47.30	2	277.0	2	0.2893	2	0.282	2	0.231
7268	C6H8	methylcyclopentadiene	26519-91-5	---	---	345.93	1	541.00	2	44.30	2	279.0	2	0.2872	2	0.275	2	0.238
7269	C6H8	1,4-cyclohexadiene	628-41-1	223.95		360.15	1	569.00	2	47.30	2	277.0	2	0.2893	2	0.277	2	0.205
7273	C6H8	1-hexen-3-yne	13721-54-5	---	---	358.15	1	525.00	2	40.00	2	284.3	2	0.2818	2	0.261	2	---
7274	C6H8	1-hexen-4-yne	5009-11-0	---	---	360.15	1	525.00	2	40.00	2	284.3	2	0.2818	2	0.261	2	---
7275	C6H8	1-hexen-5-yne	14548-31-3	---	---	343.15	1	525.00	2	40.00	2	284.3	2	0.2818	2	0.261	2	---
7276	C6H8	2-hexen-4-yne	14092-20-7	---	---	361.65	1	525.00	2	40.00	2	284.3	2	0.2818	2	0.261	2	---
7277	C6H8	2-methyl-1-penten-3-yne	926-55-6	---	---	351.11	2	525.00	2	40.00	2	284.3	2	0.2818	2	0.261	2	---
7278	C6H8	3-methyl-3-penten-1-yne	1574-33-0	---	---	339.65	1	525.00	2	40.00	2	284.3	2	0.2818	2	0.261	2	---
7316	C6H8N2	adiponitrile	111-69-3	275.55	1	568.15	1	781.00	2	28.30	2	406.0	2	0.2664	2	0.177	2	0.659
7317	C6H8N2	methylglutaronitrile	4553-62-2	228.15	1	536.15	1	742.00	2	28.80	2	404.0	2	0.2677	2	0.189	2	0.638
7318	C6H8N2	m-phenylenediamine	108-45-2	339.10	1	560.00	1	824.00	2	51.80	2	377.0	2	0.2869	2	0.285	2	0.546
7319	C6H8N2	o-phenylenediamine	95-54-5	376.95	1	530.15	1	781.00	2	51.80	2	315.0	2	0.3433	2	0.251	2	0.539
7320	C6H8N2	p-phenylenediamine	106-50-3	413.00	1	540.00	1	796.00	2	51.80	2	317.0	2	0.3411	2	0.248	2	0.539
7321	C6H8N2	phenylhydrazine	100-63-0	292.35	1	516.65	1	761.00	2	49.10	2	418.0	2	0.2587	2	0.324	2	0.535
7343	C6H8N2O	bis(cyanoethyl) ether	1656-48-0	246.85	1	579.00	1	783.00	2	28.30	2	377.0	2	0.3293	2	0.164	2	0.782
7381	C6H8O	2-ethylfuran	3208-16-0	182.44	2	365.65	1	557.25	2	42.55	2	306.5	2	0.3136	2	0.282	2	0.333
7382	C6H8O	3-ethylfuran	67363-95-5	182.44	2	365.00	2	556.26	2	42.55	2	306.5	2	0.3136	2	0.282	2	0.333
7383	C6H8O	2,3-dimethylfuran	14920-89-9	177.34	2	367.65	1	559.41	2	41.73	2	306.5	2	0.3136	2	0.275	2	0.332
7384	C6H8O	2,4-dimethylfuran	3710-43-8	177.34	2	368.15	1	560.17	2	41.73	2	306.5	2	0.3136	2	0.275	2	0.332
7385	C6H8O	2,5-dimethylfuran	625-86-5	210.35	1	366.15	1	557.13	2	41.73	2	306.5	2	0.3136	2	0.276	2	0.332
7386	C6H8O	3,4-dimethylfuran	20843-07-6	177.34	2	351.67	2	535.10	2	41.73	2	290.4	1	0.3310	1	0.272	1,2	0.332
7446	C6H8O4	dimethyl maleate	624-48-6	254.15	1	478.15	1	675.00	2	32.20	2	403.0	2	0.3576	2	0.231	2	0.562
7459	C6H8O6	ascorbic acid	50-81-7	465.15	1	637.00	1	783.00	2	52.90	2	339.0	2	0.5195	2	0.275	2	2.389
7464	C6H8O7	citric acid	77-92-9	426.15	1	659.00	1	822.00	2	37.98	2	419.7	2	0.4578	2	0.233	2	1.845
7467	C6H8S	2-ethylthiophene	872-55-9	241.08	2	407.15	1	623.60	2	40.60	2	325.0	2	0.3452	2	0.255	2	0.298
7468	C6H8S	3-ethylthiophene	1795-01-3	184.05	1	409.15	1	626.70	2	40.60	2	325.0	2	0.3452	2	0.253	2	0.298
7469	C6H8S	2,3-dimethylthiophene	632-16-6	224.15	1	414.75	1	635.30	2	40.60	2	325.0	2	0.3452	2	0.250	2	0.297
7470	C6H8S	2,4-dimethylthiophene	638-00-6	241.08	2	413.85	1	634.00	2	40.60	2	325.0	2	0.3452	2	0.250	2	0.297
7471	C6H8S	2,5-dimethylthiophene	638-02-8	210.55	1	409.85	1	627.80	2	40.60	2	325.0	2	0.3452	2	0.253	2	0.297
7472	C6H8S	3,4-dimethylthiophene	632-15-5	241.08	2	418.15	1	640.40	2	40.60	2	325.0	2	0.3452	2	0.248	2	0.298
7533	C6H9N	2,4-dimethylpyrrole	625-82-1	279.65	2	441.15	1	630.00	2	44.00	2	312.5	2	0.3044	2	0.263	2	---
7534	C6H9N	2,5-dimethylpyrrole	625-84-3	279.65	1	444.15	1	630.00	2	44.00	2	312.5	2	0.3044	2	0.263	2	---
7535	C6H9N	1-ethyl-1H-pyrrole	617-92-5	279.65	2	402.65	1	630.00	2	44.00	2	312.5	2	0.3044	2	0.263	2	---
7536	C6H9N	2-ethyl-1H-pyrrole	1551-06-0	279.65	2	437.15	1	630.00	2	44.00	2	312.5	2	0.3044	2	0.263	2	---
7619	C6H10	1-methylcyclopentene	693-89-0	146.62		348.95	1	542.00	2	41.30	2	303.0	2	0.2711	2	0.278	2	0.232
7620	C6H10	3-methylcyclopentene	1120-62-3	130.16	1	338.05	1	526.00	2	41.30	2	303.0	2	0.2711	2	0.286	2	0.230
7621	C6H10	4-methylcyclopentene	1759-81-5	112.30	1	338.82	1	527.00	2	41.30	2	303.0	2	0.2711	2	0.286	2	0.236
7622	C6H10	cyclohexene	110-83-8	169.67	1	356.12	1	560.40	1	43.50	2	291.0	2	0.2823	2	0.272	1,2	0.212
7623	C6H10	1,2-hexadiene	592-44-9	145.00	2	349.15	1	526.00	2	33.50	2	331.0	2	0.2482	2	0.254	2	0.276

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
7624	C6H10	1,cis-3-hexadiene	14596-92-0	150.04	2	346.15	1	526.70	2	34.60	2	332.5	2	0.2471	2	0.263	2	0.266
7625	C6H10	1,trans-3-hexadiene	20237-34-7	170.75	1	346.15	1	526.70	2	34.60	2	332.5	2	0.2471	2	0.263	2	0.266
7626	C6H10	1,4-hexadiene	592-45-0	134.45	1	338.15	1	510.00	2	33.50	2	331.0	2	0.2482	2	0.262	2	0.280
7627	C6H10	1,cis-4-hexadiene	7318-67-4	150.04	2	338.15	1	514.53	2	34.60	2	332.5	2	0.2471	2	0.269	2	0.266
7628	C6H10	1,trans-4-hexadiene	7319-00-8	134.45	1	338.15	1	514.53	2	34.60	2	332.5	2	0.2471	2	0.269	2	0.266
7629	C6H10	1,5-hexadiene	592-42-7	132.47	1	332.61	1	507.00	1	33.50	2	339.0	2	0.2423	2	0.269	1,2	0.232
7630	C6H10	2,3-hexadiene	592-49-4	158.31	2	341.15	1	523.91	2	36.73	2	331.5	2	0.2478	2	0.280	2	0.253
7631	C6H10	2,4-hexadiene	592-46-1	194.15	1	353.15	1	526.51	2	34.94	2	332.4	2	0.2472	2	0.265	2	0.250
7632	C6H10	cis-2,trans-4-hexadiene	5194-50-3	177.05	1	356.65	1	538.00	2	33.50	2	331.0	2	0.2482	2	0.248	2	0.275
7633	C6H10	cis-2,cis-4-hexadiene	6108-61-8	146.72	2	353.15	1	539.46	2	35.01	2	331.5	2	0.2478	2	0.259	2	0.256
7634	C6H10	trans-2,trans-4-hexadiene	5194-51-4	228.25	1	355.05	1	535.00	2	33.50	2	331.0	2	0.2482	2	0.249	2	0.282
7635	C6H10	3-methyl-1,2-pentadiene	7417-48-3	147.67	2	343.15	1	528.84	2	36.51	2	333.5	2	0.2463	2	0.277	2	0.239
7636	C6H10	4-methyl-1,2-pentadiene	13643-05-5	145.26	2	343.15	1	528.04	2	35.77	2	341.5	2	0.2405	2	0.278	2	0.237
7637	C6H10	3-methyl-1,3-pentadiene	4549-74-0	145.26	2	350.15	1	526.51	2	34.94	2	332.4	2	0.2472	2	0.265	2	0.250
7638	C6H10	2-methyl-1,cis-3-pentadiene	1501-60-6	155.55	1	349.15	1	535.20	2	34.81	2	333.5	2	0.2463	2	0.261	2	0.241
7639	C6H10	2-methyl-1,trans-3-pentadiene	926-54-5	136.08	2	349.15	1	535.20	2	34.81	2	333.5	2	0.2463	2	0.261	2	0.241
7640	C6H10	3-methyl-1,cis-3-pentadiene	2787-45-3	136.08	2	350.15	1	536.73	2	34.81	2	333.5	2	0.2463	2	0.260	2	0.241
7641	C6H10	3-methyl-1,trans-3-pentadiene	2787-43-1	136.08	2	350.15	1	536.73	2	34.81	2	333.5	2	0.2463	2	0.260	2	0.241
7642	C6H10	4-methyl-1,3-pentadiene	926-56-7	136.08	2	349.45	1	535.66	2	34.81	2	333.5	2	0.2463	2	0.261	2	0.241
7643	C6H10	2-methyl-1,4-pentadiene	763-30-4	139.40	2	323.15	1	493.39	2	34.40	2	334.5	2	0.2456	2	0.281	2	0.251
7644	C6H10	3-methyl-1,4-pentadiene	1115-08-8	132.00	2	326.00	1	497.00	2	34.90	2	323.0	2	0.2543	2	0.273	2	0.247
7645	C6H10	2-methyl-2,3-pentadiene	3043-33-2	144.35	2	345.15	1	534.09	2	36.95	2	332.5	2	0.2471	2	0.277	2	0.229
7646	C6H10	2-ethyl-1,3-butadiene	3404-63-5	139.40	2	348.15	1	531.56	2	34.40	2	334.5	2	0.2456	2	0.260	2	0.251
7647	C6H10	2,3-dimethyl-1,3-butadiene	513-81-5	197.15	1	341.93	1	526.00	2	35.20	2	315.0	2	0.2608	2	0.254	2	0.214
7648	C6H10	1-hexyne	693-02-7	141.25	1	344.48	1	516.00	2	36.20	2	322.0	2	0.2551	2	0.272	2	0.333
7649	C6H10	2-hexyne	764-35-2	183.65	1	357.67	1	549.00	2	35.30	2	331.0	2	0.2482	2	0.256	2	0.221
7650	C6H10	3-hexyne	928-49-4	170.05	1	354.35	1	544.00	2	35.30	2	331.0	2	0.2482	2	0.258	2	0.218
7651	C6H10	3-methyl-1-pentyne	922-59-8	188.85	2	330.85	1	512.82	2	37.27	2	327.5	2	0.2508	2	0.286	2	0.226
7652	C6H10	4-methyl-1-pentyne	7154-75-8	168.55	1	334.32	1	518.20	2	37.27	2	327.5	2	0.2508	2	0.283	2	0.226
7653	C6H10	4-methyl-2-pentyne	21020-27-9	162.85	1	346.28	1	540.58	2	37.82	2	327.5	2	0.2508	2	0.276	2	0.206
7654	C6H10	3,3-dimethyl-1-butyne	917-92-0	194.95	1	310.87	1	491.15	2	37.78	2	322.5	2	0.2547	2	0.298	2	0.167
7657	C6H10	1,3-hexadiene, cis and trans	592-48-3	158.35	2	346.55	1	526.51	2	34.94	2	332.4	2	0.2472	2	0.265	2	0.250
7658	C6H10	2-methyl-1,3-pentadiene	1118-58-7	258.25	1	348.55	1	526.51	2	34.94	2	332.4	2	0.2472	2	0.265	2	0.250
7659	C6H10	methylpentadiene, isomers	54363-49-4	158.35	2	349.15	1	526.51	2	34.94	2	332.4	2	0.2472	2	0.265	2	0.250
7660	C6H10	hexadiene	42296-74-2	158.35	2	344.64	2	526.51	2	34.94	2	332.4	2	0.2472	2	0.265	2	0.250
7688	C6H10Cl2	cis-1,2-dichloro-1-hexene	59697-55-1	---	---	463.25	2	660.00	2	32.00	2	409.6	2	0.3737	2	0.239	2	---
7689	C6H10Cl2	trans-1,2-dichloro-1-hexene	59697-51-7	---	---	463.25	2	660.00	2	32.00	2	409.6	2	0.3737	2	0.239	2	---
7760	C6H10O	cyclohexanone	108-94-1	242.00	1	428.90	1	553.00	1	40.00	1	311.0	2	0.3156	2	0.271	1,2	0.306
7761	C6H10O	mesityl oxide	141-79-7	220.15	1	402.95	1	600.00	2	34.10	2	355.0	2	0.2765	2	0.243	2	0.327
7772	C6H10O	2-ethyl-1-buten-1-one	24264-08-2	---	---	361.65	1	595.00	2	39.60	2	342.8	2	0.2863	2	0.274	2	---
7773	C6H10O	3-hexen-2-one	763-93-9	---	---	413.15	1	595.00	2	39.60	2	342.8	2	0.2863	2	0.274	2	---
7774	C6H10O	4-hexen-2-one	25659-22-7	---	---	400.15	1	595.00	2	39.60	2	342.8	2	0.2863	2	0.274	2	---
7775	C6H10O	4-hexen-3-one	2497-21-4	---	---	411.65	1	595.00	2	39.60	2	342.8	2	0.2863	2	0.274	2	---
7776	C6H10O	5-hexen-2-one	109-49-9	---	---	402.65	1	595.00	2	39.60	2	342.8	2	0.2863	2	0.274	2	---
7777	C6H10O	trans-3-hexen-2-one	4376-23-2	---	---	413.15	1	595.00	2	39.60	2	342.8	2	0.2863	2	0.274	2	---
7778	C6H10O	2-methyl-1-penten-3-one	25044-01-3	203.65	1	391.65	1	595.00	2	39.60	2	342.8	2	0.2863	2	0.274	2	---
7779	C6H10O	4-methyl-4-penten-2-one	3744-02-3	200.55	1	397.35	1	595.00	2	39.60	2	342.8	2	0.2863	2	0.274	2	---
7785	C6H10O	trans-2-hexenal	6728-26-3	---	---	419.65	1	590.00	2	37.00	2	310.1	2	0.3165	2	0.234	2	---
7786	C6H10O	cis-3-hexenal	6789-80-6	---	---	394.15	1	590.00	2	37.00	2	310.1	2	0.3165	2	0.234	2	---
7787	C6H10O	trans-3-hexenal	69112-21-6	---	---	403.66	2	590.00	2	37.00	2	310.1	2	0.3165	2	0.234	2	---
7788	C6H10O	2-methyl-2-pentenal	623-36-9	238.00	2	409.65	1	605.00	2	32.60	2	355.0	2	0.2765	2	0.230	2	0.349
7801	C6H10O	4-methylpent-2-enal	5362-56-1	---	---	403.66	2	590.00	2	37.00	2	310.1	2	0.3165	2	0.234	2	---
7804	C6H10O	3-methyl-3-penten-2-one	565-62-8	---	---	411.20	1	595.00	2	39.60	2	342.8	2	0.2863	2	0.274	2	---
7805	C6H10O	2-ethylcrotonaldehyde	19780-25-7	---	---	403.66	2	590.00	2	37.00	2	310.1	2	0.3165	2	0.234	2	---
7806	C6H10O	2-hexenal	505-57-7	---	---	447.15	1	590.00	2	37.00	2	310.1	2	0.3165	2	0.234	2	---
7813	C6H10O2	epsilon-caprolactone	502-44-3	271.85	1	514.00	1	771.00	2	46.30	2	352.0	2	0.3243	2	0.254	2	0.442
7814	C6H10O2	ethyl methacrylate	97-63-2	272.00	2	390.15	1	577.00	2	32.50	2	375.0	2	0.3044	2	0.254	2	0.344
7815	C6H10O2	propyl acrylate	925-60-0	205.00	2	392.15	1	569.00	2	32.50	2	376.0	2	0.3036	2	0.258	2	0.432
7816	C6H10O2	allyl glycidyl ether	106-92-3	223.00	2	427.15	1	629.00	2	36.80	2	366.0	2	0.3119	2	0.258	2	0.409
7817	C6H10O2	2-buten-1-yl acetate	628-08-0	291.19	2	405.15	1	569.00	2	32.50	2	376.0	2	0.3036	2	0.258	2	0.434
7818	C6H10O2	allyl propanoate	2408-20-0	291.19	2	396.15	1	569.00	2	32.50	2	376.0	2	0.3036	2	0.258	2	0.434
7820	C6H10O2	2,2-dimethyl-3-butenoic acid	10276-09-2	267.15	1	458.15	1	696.00	2	33.00	2	389.4	2	0.2931	2	0.222	2	---
7821	C6H10O2	trans-2-ethyl-2-butenoic acid	1187-13-9	318.65	1	482.15	1	696.00	2	33.00	2	389.4	2	0.2931	2	0.222	2	---
7822	C6H10O2	2-hexenoic acid	1191-04-4	309.65	1	489.65	1	696.00	2	33.00	2	389.4	2	0.2931	2	0.222	2	---
7823	C6H10O2	3-hexenoic acid	4219-24-3	285.15	1	481.15	1	696.00	2	33.00	2	389.4	2	0.2931	2	0.222	2	---
7824	C6H10O2	5-hexenoic acid	1577-22-6	236.15	1	476.15	1	696.00	2	33.00	2	389.4	2	0.2931	2	0.222	2	---
7825	C6H10O2	2-methyl-3-pentenoic acid	37674-63-8	290.45	2	472.15	1	696.00	2	33.00	2	389.4	2	0.2931	2	0.222	2	---
7826	C6H10O2	4-methyl-2-pentenoic acid	10321-71-8	308.15	1	490.15	1	696.00	2	33.00	2	389.4	2	0.2931	2	0.222	2	---
7827	C6H10O2	trans-2-methyl-2-pentenoic acid	16957-70-3	297.55	1	487.15	1	696.00	2	33.00	2	389.4	2	0.2931	2	0.222	2	---
7828	C6H10O2	cis-3-methyl-2-pentenoic acid	19866-51-4	285.15	1	475.00	2	696.00	2	33.00	2	389.4	2	0.2931	2	0.222	2	---
7829	C6H10O2	ethyl 3-butenoate	1617-18-1	291.19	2	392.15	1	569.00	2	32.50	2	376.0	2	0.3036	2	0.258	2	0.434
7830	C6H10O2	ethyl cis-2-butenoate	6776-19-8	291.19	2	409.15	1	569.00	2	32.50	2	376.0	2	0.3036	2	0.258	2	0.434
7831	C6H10O2	ethyl 2-butenoate	10544-63-5	291.19	2	409.65	1	569.00	2	32.50	2	376.0	2	0.3036	2	0.258	2	0.434
7832	C6H10O2	ethyl trans-2-butenoate	623-70-1	291.19	2	411.15	1	569.00	2	32.50	2	376.0	2	0.3036	2	0.258	2	0.434
7833	C6H10O2	vinyl butanoate	123-20-6	291.19	2	389.85	1	569.00	2	32.50	2	376.0	2	0.3036	2	0.258	2	0.434
7834	C6H10O2	vinyl 2-methylpropanoate	2424-98-8	291.19	2	377.65	1	569.00	2	32.50	2	376.0	2	0.3036	2	0.258	2	0.434
7844	C6H10O2	2-methylenepentanoic acid	5650-75-9	297.55	1	487.15	1	696.00	2	33.00	2	389.4	2	0.2931	2	0.222	2	---
7845	C6H10O2	methyl 2-methyl-2-butenoate	6622-76-0	291.19	2	412.15	1	569.00	2	32.50	2	376.0	2	0.3036	2	0.258	2	0.434
7846	C6H10O2	methyl 3-methyl-2-butenoate	924-50-5	310.37	1	409.65	1	569.00	2	32.50	2	376.0	2	0.3036	2	0.258	2	0.434
7848.1	C6H10O2	isopropyl acrylate	689-12-3	190.00	2	383.15	1	560.00	2	33.10	2	376.0	2	0.3036	2	0.267	2	0.405

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
7849	C6H10O2	3,4-dihydro-2-methoxy-2H-pyran	4454-05-1	255.00	2	400.75	1	599.00	2	39.30	2	331.0	2	0.3448	2	0.261	2	0.367
7856	C6H10O2	trans-2-hexenoic acid	13419-69-7	305.15	1	490.15	1	696.00	2	33.00	2	389.4	2	0.2931	2	0.222	2	---
7857	C6H10O2	trans-3-hexenoic acid	1577-18-0	284.65	1	481.15	1	696.00	2	33.00	2	389.4	2	0.2931	2	0.222	2	---
7859	C6H10O2	methyl trans-2-pentenoate	15790-88-2	291.19	2	435.22	2	569.00	2	32.50	2	376.0	2	0.3036	2	0.258	2	0.434
7860	C6H10O2	methyl trans-3-pentenoate	20515-19-9	291.19	2	435.22	2	569.00	2	32.50	2	376.0	2	0.3036	2	0.258	2	0.434
7861	C6H10O2	2-methyl-4-pentenoic acid	1575-74-2	290.45	2	475.00	2	696.00	2	33.00	2	389.4	2	0.2931	2	0.222	2	---
7862	C6H10O2	2-methyl-2-pentenoic acid	3142-72-1	290.45	2	475.00	2	696.00	2	33.00	2	389.4	2	0.2931	2	0.222	2	---
7881	C6H10O3	ethylacetoacetate	141-97-9	234.15	1	453.95	1	643.00	2	32.70	2	391.0	2	0.3328	2	0.239	2	0.561
7882	C6H10O3	propionic anhydride	123-62-6	228.15	1	440.15	1	623.00	2	32.70	2	396.0	2	0.3286	2	0.250	2	0.560
7888	C6H10O3	ethylene glycol monomethacrylate	868-77-9	261.15	---	499.15	1	677.00	2	36.40	2	394.0	2	0.3303	2	0.255	2	0.839
7917	C6H10O4	adipic acid	124-04-9	425.50	1	611.00	1	809.00	2	35.30	2	400.0	2	0.3654	2	0.210	2	1.051
7918	C6H10O4	diethyl oxalate	95-92-1	232.55	1	458.61	1	618.00	1	30.90	2	452.2	1	0.3232	1	0.272	1,2	0.808
7919	C6H10O4	ethylene glycol diacetate	111-55-7	242.15	1	463.65	1	653.00	2	30.90	2	416.0	2	0.3513	2	0.237	2	0.560
7920	C6H10O4	ethylidene diacetate	542-10-9	292.00	1	442.15	1	635.00	2	32.60	2	406.0	2	0.3600	2	0.251	2	0.478
7924	C6H10O4	dimethyl succinate	106-65-0	291.35	1	469.35	1	657.00	2	32.80	2	424.0	2	0.3447	2	0.255	2	0.622
7953.1	C6H10O5	dilactic acid	19201-34-4	385.65	1	489.00	2	660.00	2	34.80	2	436.0	2	0.3719	2	0.277	2	0.907
7979	C6H11Br	cis-1-bromo-1-hexene	13154-12-6	211.60	2	413.15	1	609.39	2	35.73	2	413.5	2	0.3943	2	0.292	2	0.402
7980	C6H11Br	trans-1-bromo-1-hexene	13154-13-7	211.60	2	413.15	1	609.39	2	35.73	2	413.5	2	0.3943	2	0.292	2	0.402
7982	C6H11Br	6-bromo-1-hexene	2695-47-8	211.60	2	422.95	2	609.39	2	35.73	2	413.5	2	0.3943	2	0.292	2	0.402
7983	C6H11Br	5-bromo-2-methyl-2-pentene	2270-59-9	211.60	2	426.15	1	609.39	2	35.73	2	413.5	2	0.3943	2	0.292	2	0.402
8004	C6H11Br3	1,1,1-tribromohexane	62127-63-3	338.70	2	520.15	1	746.32	2	40.67	2	546.5	2	0.5908	2	0.358	2	0.586
8006	C6H11Cl	cis-1-chloro-1-hexene	50586-18-0	181.72	2	394.45	1	583.61	2	31.60	2	400.5	2	0.2961	2	0.261	2	0.341
8007	C6H11Cl	trans-1-chloro-1-hexene	50586-19-1	181.72	2	394.45	1	583.61	2	31.60	2	400.5	2	0.2961	2	0.261	2	0.341
8009	C6H11Cl	1-chloro-2,3-dimethyl-2-butene	37866-06-1	181.72	2	385.15	1	583.61	2	31.60	2	400.5	2	0.2961	2	0.261	2	0.341
8010	C6H11Cl	1-chloro-1-hexene	22922-67-4	181.72	2	394.15	1	583.61	2	31.60	2	400.5	2	0.2961	2	0.261	2	0.341
8011	C6H11Cl	1-chloro-3-hexene	62706-16-5	181.72	2	395.45	2	583.61	2	31.60	2	400.5	2	0.2961	2	0.261	2	0.341
8012	C6H11Cl	2-chloro-1-hexene	10124-73-9	181.72	2	386.15	1	583.61	2	31.60	2	400.5	2	0.2961	2	0.261	2	0.341
8013	C6H11Cl	4-chloro-2-hexene	6734-98-1	181.72	2	396.15	1	583.61	2	31.60	2	400.5	2	0.2961	2	0.261	2	0.341
8014	C6H11Cl	5-chloro-1-hexene	927-54-8	181.72	2	393.85	1	583.61	2	31.60	2	400.5	2	0.2961	2	0.261	2	0.341
8015	C6H11Cl	cis-3-chloro-3-hexene	17226-34-5	181.72	2	390.15	1	583.61	2	31.60	2	400.5	2	0.2961	2	0.261	2	0.341
8016	C6H11Cl	3-chloro-2-methyl-1-pentene	4104-01-2	181.72	2	394.15	1	583.61	2	31.60	2	400.5	2	0.2961	2	0.261	2	0.341
8017	C6H11Cl	5-chloro-2-methyl-2-pentene	7712-60-9	181.72	2	406.15	1	583.61	2	31.60	2	400.5	2	0.2961	2	0.261	2	0.341
8066	C6H11Cl3	1,1,1-trichlorohexane	17760-40-6	249.06	2	454.15	1	657.17	2	28.11	2	507.5	2	0.3734	2	0.261	2	0.389
8071	C6H11F	cis-1-fluoro-1-hexene	66225-46-5	183.95	2	340.11	2	502.87	2	31.31	2	369.5	2	0.2765	2	0.277	2	0.340
8072	C6H11F	trans-1-fluoro-1-hexene	66225-47-6	183.95	2	340.11	2	502.87	2	31.31	2	369.5	2	0.2765	2	0.277	2	0.340
8077	C6H11F3	1,1,1-trifluorohexane	---	255.75	2	348.15	1	498.20	2	26.10	2	412.0	2	0.3402	2	0.260	2	0.409
8080	C6H11I	cis-1-iodo-1-hexene	16538-47-9	209.86	2	444.15	1	659.87	2	32.14	2	439.5	2	0.4779	2	0.257	2	0.330
8081	C6H11I	trans-1-iodo-1-hexene	16644-98-7	209.86	2	444.15	1	659.87	2	32.14	2	439.5	2	0.4779	2	0.257	2	0.330
8086	C6H11I3	1,1,1-triiodohexane	---	333.48	2	612.87	2	897.23	2	29.50	2	624.5	2	0.7428	2	0.247	2	0.358
8088	C6H11N	hexanenitrile	628-73-9	192.85	1	436.75	1	622.05	1	29.20	2	384.0	2	0.2530	2	0.217	1,2	0.474
8089	C6H11N	2-methylpentanenitrile	6339-13-5	206.87	2	420.15	1	605.44	2	30.49	2	391.5	2	0.2482	2	0.237	2	0.442
8090	C6H11N	2-ethylbutanenitrile	617-80-1	206.87	2	418.15	1	602.56	2	30.49	2	391.5	2	0.2482	2	0.238	2	0.442
8091	C6H11N	3-methylpentanenitrile	21101-88-2	206.87	2	426.15	1	614.09	2	30.49	2	391.5	2	0.2482	2	0.234	2	0.442
8092	C6H11N	4-methylpentanenitrile	542-54-1	222.05	1	427.15	1	615.53	2	30.49	2	391.5	2	0.2482	2	0.233	2	0.442
8093	C6H11N	2,2-dimethylbutanenitrile	20654-46-0	224.29	2	402.15	1	588.30	2	30.86	2	386.5	2	0.2514	2	0.244	2	0.379
8094	C6H11N	2,3-dimethylbutanenitrile	20654-44-8	191.87	2	401.15	1	582.40	2	30.76	2	385.5	2	0.2520	2	0.245	2	0.412
8095	C6H11N	3,3-dimethylbutanenitrile	3302-16-7	306.15	1	409.15	1	598.54	2	30.86	2	386.5	2	0.2514	2	0.240	2	0.379
8096	C6H11N	N-allyl-2-propen-1-amine	124-02-7	184.75	1	384.15	1	556.00	2	33.20	2	392.0	2	0.2479	2	0.282	2	0.448
8101	C6H11NO	epsilon-caprolactam	105-60-2	342.36	1	543.15	1	806.00	2	47.70	2	356.0	2	0.3179	2	0.253	2	0.476
8102	C6H11NO	cyclohexanone oxime	100-64-1	363.15	1	481.15	1	715.00	2	46.90	2	369.0	2	0.3067	2	0.291	2	0.462
8200	C6H12	1-methyl-1-ethylcyclopropane	53778-43-1	142.95	1	329.92	1	507.94	2	37.18	2	316.5	2	0.2659	2	0.279	2	0.248
8201	C6H12	1-methyl-cis-2-ethylcyclopropane	19781-68-1	170.58	2	340.16	1	518.53	2	34.72	2	327.5	2	0.2570	2	0.264	2	0.260
8202	C6H12	1-methyl-trans-2-ethylcyclopropane	19781-69-2	170.58	2	331.81	1	505.80	2	34.72	2	327.5	2	0.2570	2	0.270	2	0.260
8203	C6H12	1,1,2-trimethylcyclopropane	4127-45-1	134.97	1	325.59	1	504.34	2	36.64	2	325.5	2	0.2586	2	0.284	2	0.222
8204	C6H12	1,cis-2,cis-3-trimethylcyclopropane	4806-58-0	154.21	2	339.15	1	520.06	2	34.24	2	336.5	2	0.2501	2	0.266	2	0.234
8205	C6H12	1,cis-2,trans-3-trimethylcyclopropane	4806-59-1	154.21	2	332.85	1	510.40	2	34.24	2	336.5	2	0.2501	2	0.272	2	0.234
8206	C6H12	propylcyclopropane	2415-72-7	174.82	2	342.30	1	520.15	2	36.12	2	328.5	2	0.2562	2	0.274	2	0.286
8207	C6H12	isopropylcyclopropane	3638-35-5	160.22	1	331.47	1	506.65	2	35.60	2	333.1	1	0.2526	1	0.282	1,2	0.259
8208	C6H12	1,1-dimethylcyclobutane	---	195.20	2	329.15	1	514.04	2	39.36	2	318.5	2	0.2642	2	0.293	2	0.218
8209	C6H12	1,cis-2-dimethylcyclobutane	15679-01-3	167.06	2	341.15	1	525.83	2	35.77	2	319.5	2	0.2634	2	0.261	2	0.231
8210	C6H12	1,trans-2-dimethylcyclobutane	15679-02-4	150.65	1	333.15	1	513.50	2	35.77	2	319.5	2	0.2634	2	0.268	2	0.231
8211	C6H12	1,cis-3-dimethylcyclobutane	2398-09-6	167.06	2	333.65	1	514.27	2	35.77	2	319.5	2	0.2634	2	0.267	2	0.231
8212	C6H12	1,trans-3-dimethylcyclobutane	2398-10-9	167.06	2	330.65	1	509.64	2	35.77	2	319.5	2	0.2634	2	0.270	2	0.231
8213	C6H12	ethylcyclobutane	4806-61-5	130.40	1	343.75	1	528.10	2	37.23	2	320.5	2	0.2626	2	0.272	2	0.256
8214	C6H12	methylcyclopentane	96-37-7	130.73	1	344.96	1	532.79	1	37.85	1	318.9	1	0.2639	1	0.272	1	0.230
8215	C6H12	cyclohexane	110-82-7	279.69	1	353.87	1	553.80	1	40.80	1	308.0	1	0.2733	1	0.273	1	0.208
8216	C6H12	1-hexene	592-41-6	133.39	1	336.63	1	504.00	1	32.10	1	355.0	1	0.2371	1	0.272	1	0.286
8217	C6H12	2-hexene; (cis+trans)	592-43-8	175.25	1	341.15	1	506.59	2	32.05	2	352.3	2	0.2391	2	0.268	2	0.250
8218	C6H12	cis-2-hexene	7688-21-3	132.00	1	342.03	1	513.00	2	31.60	2	359.0	2	0.2344	2	0.266	2	0.272
8219	C6H12	trans-2-hexene	4050-45-7	140.17	1	341.02	1	513.00	2	31.60	2	360.0	2	0.2338	2	0.267	2	0.261
8220	C6H12	hex-3-ene	592-47-2	183.25	1	339.95	1	506.59	2	32.05	2	352.3	2	0.2391	2	0.268	2	0.250
8221	C6H12	cis-3-hexene	7642-09-3	135.33	1	339.60	1	509.00	2	31.70	2	351.0	2	0.2398	2	0.263	2	0.279
8222	C6H12	trans-3-hexene	13269-52-8	159.73	1	340.24	1	509.00	2	31.70	2	351.0	2	0.2398	2	0.263	2	0.285
8223	C6H12	2-methyl-1-pentene	763-29-1	137.42	1	335.25	1	505.00	2	31.90	2	343.0	2	0.2454	2	0.261	2	0.261
8224	C6H12	3-methyl-1-pentene	760-20-3	120.20	1	327.33	1	495.00	2	32.90	2	343.3	2	0.2452	2	0.274	2	0.264
8225	C6H12	4-methyl-1-pentene	691-37-2	119.51	1	327.01	1	496.00	2	32.20	2	345.0	2	0.2439	2	0.269	2	0.239
8226	C6H12	4-methyl-2-pentene	4461-48-7	146.05	1	330.35	1	506.59	2	32.05	2	352.3	2	0.2391	2	0.268	2	0.250
8227	C6H12	4-methyl-cis-2-pentene	691-38-3	138.30	1	329.53	1	499.00	2	32.20	2	346.0	2	0.2432	2	0.269	2	0.244
8228	C6H12	4-methyl-trans-2-pentene	674-76-0	132.35	1	331.75	1	501.00	2	32.20	2	346.0	2	0.2432	2	0.267	2	0.255
8229	C6H12	2-methyl-2-pentene	625-27-4	138.07	1	340.45	1	514.00	2	31.60	2	363.0	2	0.2318	2	0.268	2	0.245

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
8230	C6H12	3-methyl-cis-2-pentene	922-62-3	138.31	1	340.85	1	515.00	2	32.90	2	343.0	2	0.2454	2	0.264	2	0.259
8231	C6H12	3-methyl-2-pentene, cis and trans	922-61-2	143.92	2	341.05	1	506.59	2	32.05	2	352.3	2	0.2391	2	0.268	2	0.250
8232	C6H12	3-methyl-trans-2-pentene	616-12-6	134.71	1	343.59	1	517.00	2	31.90	2	343.0	2	0.2454	2	0.255	2	0.263
8233	C6H12	2,3-dimethyl-1-butene	563-78-0	115.89	1	328.76	1	501.00	2	33.20	2	335.0	2	0.2512	2	0.267	2	0.233
8234	C6H12	2,3-dimethyl-2-butene	563-79-1	198.92	1	346.35	1	528.00	2	33.20	2	335.0	2	0.2512	2	0.253	2	0.224
8235	C6H12	3,3-dimethyl-1-butene	558-37-2	157.95	1	314.39	1	480.00	2	32.90	2	333.0	2	0.2527	2	0.275	2	0.228
8236	C6H12	2-ethyl-1-butene	760-21-4	141.61	1	337.82	1	511.00	2	33.00	2	343.0	2	0.2454	2	0.266	2	0.252
8245	C6H12Br2	1,1-dibromohexane	58133-26-9	261.48	2	475.15	1	684.21	2	36.82	2	489.5	2	0.4984	2	0.317	2	0.526
8246	C6H12Br2	1,2-dibromo-2,3-dimethylbutane	29916-45-8	301.65	2	486.03	2	684.21	2	36.82	2	489.5	2	0.4984	2	0.317	2	0.526
8247	C6H12Br2	1,4-dibromo-2,3-dimethylbutane	54462-70-3	301.65	2	486.03	2	684.21	2	36.82	2	489.5	2	0.4984	2	0.317	2	0.526
8248	C6H12Br2	2,3-dibromo-2,3-dimethylbutane	594-81-0	435.15	1	486.03	2	684.21	2	36.82	2	489.5	2	0.4984	2	0.317	2	0.526
8249	C6H12Br2	1,2-dibromohexane	624-20-4	301.65	2	486.03	2	684.21	2	36.82	2	489.5	2	0.4984	2	0.317	2	0.526
8250	C6H12Br2	1,4-dibromohexane	25118-28-9	301.65	2	486.03	2	684.21	2	36.82	2	489.5	2	0.4984	2	0.317	2	0.526
8251	C6H12Br2	1,5-dibromohexane	627-96-3	301.65	2	486.03	2	684.21	2	36.82	2	489.5	2	0.4984	2	0.317	2	0.526
8252	C6H12Br2	1,6-dibromohexane	629-03-8	271.95	1	518.65	1	684.21	2	36.82	2	489.5	2	0.4984	2	0.317	2	0.526
8253	C6H12Br2	2,3-dibromohexane	6423-02-5	301.65	2	469.15	1	684.21	2	36.82	2	489.5	2	0.4984	2	0.317	2	0.526
8254	C6H12Br2	2,5-dibromohexane, (R*,R**)-(±)-	54462-68-9	228.51	1	486.03	2	684.21	2	36.82	2	489.5	2	0.4984	2	0.317	2	0.526
8255	C6H12Br2	1,2-dibromo-3,3-dimethylbutane	640-21-1	301.65	2	486.03	2	684.21	2	36.82	2	489.5	2	0.4984	2	0.317	2	0.526
8256	C6H12Br2	3,4-dibromohexane	16230-28-7	301.65	2	486.03	2	684.21	2	36.82	2	489.5	2	0.4984	2	0.317	2	0.526
8257	C6H12Br2	2,5-dibromohexane	24774-58-1	311.15	1	481.15	1	684.21	2	36.82	2	489.5	2	0.4984	2	0.317	2	0.526
8258	C6H12Br2	1,5-dibromo-3-methylpentane	4457-72-1	301.65	2	486.03	2	684.21	2	36.82	2	489.5	2	0.4984	2	0.317	2	0.526
8273	C6H12Cl2	1,1-dichlorohexane	62017-16-7	201.72	2	437.15	1	633.09	2	28.91	2	463.5	2	0.3346	2	0.255	2	0.397
8274	C6H12Cl2	1,2-dichlorohexane	2162-92-7	217.32	2	446.15	1	633.09	2	28.91	2	463.5	2	0.3346	2	0.255	2	0.397
8275	C6H12Cl2	1,6-dichlorohexane	2163-00-0	217.32	2	477.15	1	633.09	2	28.91	2	463.5	2	0.3346	2	0.255	2	0.397
8276	C6H12Cl2	2,2-dichlorohexane	42131-89-5	217.32	2	444.73	2	633.09	2	28.91	2	463.5	2	0.3346	2	0.255	2	0.397
8277	C6H12Cl2	2,3-dichlorohexane	54305-87-2	217.32	2	436.65	1	633.09	2	28.91	2	463.5	2	0.3346	2	0.255	2	0.397
8278	C6H12Cl2	2,5-dichlorohexane, (R*,R*)-(±)-	41761-12-0	235.15	1	450.15	1	633.09	2	28.91	2	463.5	2	0.3346	2	0.255	2	0.397
8279	C6H12Cl2	1,1-dichloro-3,3-dimethylbutane	6130-96-7	215.10	1	421.10	1	633.09	2	28.91	2	463.5	2	0.3346	2	0.255	2	0.397
8280	C6H12Cl2	hexane, 2,5-dichloro-, (R*,S*)-	41761-11-9	217.32	2	444.73	2	633.09	2	28.91	2	463.5	2	0.3346	2	0.255	2	0.397
8281	C6H12Cl2	2,2-dichloro-3,3-dimethylbutane	594-84-3	217.32	2	444.73	2	633.09	2	28.91	2	463.5	2	0.3346	2	0.255	2	0.397
8293.1	C6H12Cl3O3P	bis-2-chloroethyl-2-chloroethyl phosphonate	6294-34-4	---	---	---	---	580.00	2	---	---	---	---	---	---	---	---	---
8298	C6H12F2	1,1-difluorohexane	62127-41-7	206.18	2	368.15	1	529.00	2	26.80	2	398.0	2	0.3069	2	0.243	2	0.401
8305	C6H12I2	1,1-diiodohexane	66225-50-1	258.00	2	522.52	2	762.60	2	29.86	2	541.5	2	0.6241	2	0.255	2	0.376
8306	C6H12I2	1,6-diiodohexane	629-09-4	282.65	1	522.52	2	762.60	2	29.86	2	541.5	2	0.6241	2	0.255	2	0.376
8315	C6H12N2	triethylenediamine	280-57-9	434.25	1	447.15	1	655.00	2	39.10	2	382.0	2	0.2937	2	0.274	2	0.460
8319	C6H12N2	6-aminohexanenitrile	2432-74-8	241.85	1	503.00	2	697.00	2	30.50	2	441.0	2	0.2544	2	0.232	2	0.653
8385	C6H12N4	methenamine	100-97-0	553.15	2	554.00	2	837.00	2	36.80	2	402.0	2	0.3487	2	0.213	2	0.299
8394	C6H12O	butyl vinyl ether	111-34-2	181.15	1	366.97	1	536.00	2	31.20	2	364.0	2	0.2752	2	0.255	2	0.380
8395	C6H12O	sec-butyl vinyl ether	1888-85-3	167.85	2	354.15	1	536.00	2	31.20	2	364.0	2	0.2752	2	0.255	2	0.380
8396	C6H12O	tert-butyl vinyl ether	926-02-3	161.15	1	348.15	1	536.00	2	31.20	2	364.0	2	0.2752	2	0.255	2	0.380
8397	C6H12O	isobutyl vinyl ether	109-53-5	161.15	1	356.15	1	536.00	2	31.20	2	364.0	2	0.2752	2	0.255	2	0.380
8398	C6H12O	3-(1-methylethoxy)-1-propene	6140-80-3	167.85	2	356.65	1	536.00	2	31.20	2	364.0	2	0.2752	2	0.255	2	0.380
8399	C6H12O	3-propoxy-1-propene	1471-03-0	167.85	2	364.15	1	536.00	2	31.20	2	364.0	2	0.2752	2	0.255	2	0.380
8400	C6H12O	cyclohexanol	108-93-0	296.60	1	434.00	1	650.10	1	42.60	1	322.0	2	0.3111	2	0.254	1,2	0.369
8401	C6H12O	hexanal	66-25-1	217.15	1	401.45	1	591.00	1	34.60	1	369.0	2	0.2714	2	0.260	1,2	0.387
8402	C6H12O	2-methylpentanal	123-15-9	183.88	2	390.15	1	569.05	2	34.12	2	382.5	2	0.2619	2	0.276	2	0.433
8403	C6H12O	3-methylpentanal	15877-57-3	183.88	2	395.15	1	576.34	2	34.12	2	382.5	2	0.2619	2	0.272	2	0.433
8404	C6H12O	4-methylpentanal	1119-16-0	183.88	2	395.15	1	576.34	2	34.12	2	382.5	2	0.2619	2	0.272	2	0.433
8405	C6H12O	2-ethylbutanal	97-96-1	184.15	1	389.95	1	568.76	2	34.12	2	382.5	2	0.2619	2	0.276	2	0.433
8406	C6H12O	2,2-dimethylbutanal	2094-75-9	201.30	2	377.15	1	558.82	2	34.56	2	377.5	2	0.2653	2	0.281	2	0.370
8407	C6H12O	2,3-dimethylbutanal	2109-98-0	168.88	2	386.15	1	567.64	2	34.44	2	376.5	2	0.2660	2	0.275	2	0.402
8408	C6H12O	3,3-dimethylbutanal	2987-16-8	201.30	2	377.15	1	558.82	2	34.56	2	377.5	2	0.2653	2	0.281	2	0.370
8409	C6H12O	2-hexanone	591-78-6	217.35	1	400.70	1	587.61	1	32.87	1	378.0	1	0.2650	1	0.254	1	0.385
8410	C6H12O	3-hexanone	589-38-8	217.50	1	396.65	1	582.82	1	33.20	1	378.0	1	0.2650	1	0.259	1	0.380
8411	C6H12O	3-methyl-2-pentanone	565-61-7	167.15	1	390.55	1	573.00	2	33.20	2	369.0	2	0.2714	2	0.257	2	0.389
8412	C6H12O	4-methyl-2-pentanone	108-10-1	189.15	1	389.15	1	574.60	1	32.70	1	369.0	2	0.2714	2	0.253	1,2	0.356
8413	C6H12O	ethyl isopropyl ketone	565-69-5	204.15	1	386.55	1	567.00	2	33.20	2	369.0	2	0.2714	2	0.260	2	0.389
8414	C6H12O	3,3-dimethyl-2-butanone	75-97-8	221.15	1	379.45	1	564.00	2	33.20	2	368.0	2	0.2722	2	0.261	2	0.327
8415	C6H12O	3-methyl-2-pentanone, (±)	55156-16-6	200.69	2	390.65	1	576.61	2	32.88	2	368.7	2	0.2717	2	0.253	2	0.362
8416	C6H12O	2-ethyltetrahydrofuran	1003-30-1	170.82	2	382.15	1	580.07	2	37.96	2	333.5	2	0.3003	2	0.263	2	0.308
8417	C6H12O	3-ethyltetrahydrofuran	93716-28-0	170.82	2	389.15	1	590.70	2	37.96	2	333.5	2	0.3003	2	0.258	2	0.308
8418	C6H12O	2,2-dimethyltetrahydrofuran	1003-17-4	159.15	1	365.35	1	563.41	2	40.16	2	331.5	2	0.3021	2	0.284	2	0.269
8419	C6H12O	2,3-dimethyltetrahydrofuran	---	154.45	2	370.00	2	563.40	2	36.47	2	332.5	2	0.3012	2	0.259	2	0.282
8420	C6H12O	2,4-dimethyltetrahydrofuran	64265-26-5	154.45	2	370.75	1	564.54	2	36.47	2	332.5	2	0.3012	2	0.258	2	0.282
8421	C6H12O	2,5-dimethyltetrahydrofuran	1003-38-9	154.45	2	365.65	1	556.78	2	36.47	2	332.5	2	0.3012	2	0.262	2	0.282
8422	C6H12O	3,3-dimethyltetrahydrofuran	15833-75-7	154.45	2	372.15	1	573.90	2	40.16	2	331.5	2	0.3021	2	0.279	2	0.269
8423	C6H12O	3,4-dimethyltetrahydrofuran	32970-37-9	154.45	2	381.65	1	581.14	2	36.47	2	332.5	2	0.3012	2	0.251	2	0.282
8425	C6H12O	1-hexen-3-ol	4798-44-1	---	---	407.15	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8426	C6H12O	cis-2-hexen-1-ol	928-94-9	---	---	430.15	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8427	C6H12O	trans-2-hexen-1-ol	928-95-0	---	---	430.15	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8428	C6H12O	cis-3-hexen-1-ol	928-96-1	---	---	429.65	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8429	C6H12O	trans-4-hexen-1-ol	928-92-7	---	---	432.15	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8430	C6H12O	4-hexen-2-ol	52387-50-5	---	---	410.65	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8431	C6H12O	5-hexen-2-ol	626-94-8	---	---	412.15	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8432	C6H12O	2-methyl-2-penten-1-ol	1610-29-3	---	---	440.65	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8433	C6H12O	2-methyl-3-penten-2-ol	63468-05-3	---	---	385.15	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8434	C6H12O	2-methyl-4-penten-2-ol	624-97-5	200.15	1	392.65	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8435	C6H12O	3-methyl-3-penten-2-ol	2747-53-7	---	---	413.15	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8436	C6H12O	3-methyl-4-penten-2-ol	1569-59-1	---	---	398.65	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8437	C6H12O	4-methyl-2-penten-1-ol	5362-55-0	---	---	432.15	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
8438	C6H12O	4-methyl-3-penten-2-ol	4325-82-0	---	---	407.15	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8439	C6H12O	4-methyl-3-pentenol	763-89-3	---	---	430.15	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8440	C6H12O	4-methyl-4-penten-2-ol	2004-67-3	---	---	402.15	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8449	C6H12O	5-hexen-1-ol	821-41-0	---	---	420.60	1	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8450	C6H12O	trans-3-hexen-1-ol	928-97-2	---	---	394.21	2	587.00	2	39.00	2	303.8	2	0.3297	2	0.243	2	---
8451	C6H12O	3-methyl-1-penten-3-ol	918-85-4	---	---	390.65	1	587.00	2	39.00	2	298.9	2	0.3351	2	0.239	2	---
8453	C6H12O	2,2-dimethyl-3-butanone	75-97-8	200.69	2	394.21	2	576.61	2	32.88	2	368.7	2	0.2717	2	0.253	2	0.362
8460	C6H12O2	hexanoic acid	142-62-1	269.25	1	478.85	1	660.20	1	33.80	1	413.0	1	0.2813	1	0.254	1	0.730
8461	C6H12O2	2-ethyl butyric acid	88-09-5	258.15	1	466.95	1	655.00	2	34.10	2	389.0	2	0.2986	2	0.244	2	0.633
8462	C6H12O2	tert-butylacetic acid	1070-83-3	279.65	1	463.15	1	661.00	2	33.80	2	389.0	2	0.2986	2	0.239	2	0.652
8463	C6H12O2	2,2-dimethylbutanoic acid	595-37-9	259.15	1	460.15	1	653.00	2	34.10	2	389.0	2	0.2986	2	0.244	2	0.567
8464	C6H12O2	2,3-dimethylbutanoic acid	14287-61-7	272.35	1	464.85	1	661.00	2	33.80	2	389.0	2	0.2986	2	0.239	2	0.652
8465	C6H12O2	2-methylpentanoic acid, (±)	22160-39-0	255.35	2	468.75	1	661.00	2	33.80	2	389.0	2	0.2986	2	0.239	2	0.652
8466	C6H12O2	3-methylpentanoic acid, (±)	22160-40-3	231.55	1	470.65	1	661.00	2	33.80	2	389.0	2	0.2986	2	0.239	2	0.652
8467	C6H12O2	4-methylpentanoic acid	646-07-1	240.15	1	473.65	1	661.00	2	33.80	2	389.0	2	0.2986	2	0.239	2	0.652
8468	C6H12O2	pentyl formate	638-49-3	199.65	1	406.60	1	576.00	1	31.25	1	389.0	2	0.2986	2	0.254	1,2	0.528
8469	C6H12O2	1-methylbutyl formate	58368-66-4	200.58	2	393.76	2	574.00	2	31.30	2	387.0	2	0.3002	2	0.254	2	0.401
8470	C6H12O2	2-methylbutyl formate	35073-27-9	200.58	2	393.76	2	577.00	2	31.30	2	387.0	2	0.3002	2	0.253	2	0.378
8471	C6H12O2	isopentyl formate	110-45-2	179.65	1	397.25	1	578.00	2	31.30	2	387.0	2	0.3002	2	0.252	2	0.409
8472	C6H12O2	1-ethylpropyl formate	58368-67-5	200.58	2	393.76	2	579.00	2	32.30	2	383.0	2	0.3033	2	0.257	2	0.375
8473	C6H12O2	1,1-dimethylpropyl formate	757-88-0	218.00	2	385.65	1	570.00	2	32.10	2	384.0	2	0.3025	2	0.260	2	0.351
8474	C6H12O2	1,2-dimethylpropyl formate	66794-46-5	185.58	2	393.32	2	573.00	2	31.70	2	381.0	2	0.3049	2	0.254	2	0.409
8475	C6H12O2	2,2-dimethylpropyl formate	23361-67-3	218.00	2	390.97	2	575.00	2	30.20	2	393.0	2	0.2956	2	0.248	2	0.348
8476	C6H12O2	butyl acetate	123-86-4	199.65	1	399.26	1	575.40	1	30.90	1	389.0	2	0.2986	2	0.251	1,2	0.439
8477	C6H12O2	isobutyl acetate	110-19-0	174.30	1	389.80	1	560.80	1	30.10	1	389.0	2	0.2986	2	0.251	1,2	0.434
8478	C6H12O2	sec-butyl acetate	105-46-4	174.15	1	385.15	1	561.00	2	31.70	2	389.0	2	0.2986	2	0.264	2	0.395
8479	C6H12O2	tert-butyl acetate	540-88-5	215.00	2	369.15	1	545.00	2	31.70	2	389.0	2	0.2986	2	0.272	2	0.340
8480	C6H12O2	propyl propanoate	106-36-5	197.25	1	395.65	1	568.60	1	30.60	1	389.0	2	0.2986	2	0.252	1,2	0.449
8481	C6H12O2	isopropyl propanoate	637-78-5	184.21	2	383.15	1	553.00	1	30.30	2	392.0	2	0.2963	2	0.258	1,2	0.432
8482	C6H12O2	ethyl butanoate	105-54-4	175.15	1	394.65	1	571.00	1	29.50	2	403.0	2	0.2882	2	0.250	1,2	0.401
8483	C6H12O2	ethyl isobutanoate	97-62-1	185.00	1	383.00	1	553.15	1	30.40	1	410.0	2	0.2833	2	0.271	1,2	0.426
8484	C6H12O2	cyclohexyl peroxide	766-07-4	253.15	1	490.00	1	685.00	2	42.10	2	342.0	2	0.3396	2	0.253	2	0.751
8485	C6H12O2	diacetone alcohol	123-42-2	229.15	1	441.05	1	606.00	2	36.00	2	387.0	2	0.3002	2	0.277	2	0.768
8497	C6H12O2	methyl 2,2-dimethylpropanoate	598-98-1	190.73	2	374.25	1	565.50	2	30.70	2	390.5	2	0.2975	2	0.255	2	0.404
8498	C6H12O2	methyl isopentanoate	556-24-1	173.85	2	389.65	1	572.95	2	30.70	2	400.0	2	0.2932	2	0.258	2	0.412
8499	C6H12O2	methyl pentanoate	624-24-8	173.85	2	400.55	1	572.95	2	30.70	2	400.0	2	0.2932	2	0.258	2	0.412
8513	C6H12O2	methyl 2-methylbutyrate	868-57-5	173.85	2	388.55	1	572.95	2	30.70	2	400.0	2	0.2932	2	0.258	2	0.412
8514	C6H12O2	(±)-3-methylvaleric acid	105-43-1	231.65	1	469.10	1	661.00	2	33.80	2	389.0	2	0.2986	2	0.239	2	0.652
8515	C6H12O2	2-methylvaleric acid	97-61-0	255.35	2	435.40	1	661.00	2	33.80	2	389.0	2	0.2986	2	0.239	2	0.652
8531	C6H12O3	2-ethoxyethyl acetate	111-15-9	211.45	1	429.74	1	607.30	1	31.66	1	453.0	1	0.2917	1	0.284	1	0.552
8532	C6H12O3	hydroxycaproic acid	1191-25-9	313.15	1	557.00	1	730.00	2	35.80	2	435.0	2	0.3038	2	0.257	2	1.178
8533	C6H12O3	paraldehyde	123-63-7	285.75	1	397.15	1	579.00	2	35.00	2	365.0	2	0.3621	2	0.265	2	0.437
8556	C6H12O3	DL-a-hydroxycaproic acid	6064-63-7	334.00	1	518.00	2	683.00	2	36.40	2	402.0	2	0.3288	2	0.258	2	1.137
8564	C6H12O3	propylene glycol monomethyl ether acetate	108-65-6	205.00	1	418.95	1	597.90	1	30.09	1	421.0	2	0.3139	2	0.255	1,2	0.481
8609	C6H12O6	glucose	50-99-7	419.15	2	617.00	2	755.00	2	48.20	2	414.0	2	0.4352	2	0.318	2	2.387
8613	C6H12O6	inositol	87-89-8	499.15	1	691.00	2	850.00	2	53.20	2	412.0	2	0.4373	2	0.310	2	2.371
8621	C6H12S	thiacycloheptane	4753-80-4	292.14	1	446.70	1	640.07	2	43.74	2	391.5	2	0.2969	2	0.322	2	0.291
8622	C6H12S	2-ethylthiacyclopentane	1551-32-2	251.23	2	430.15	1	659.28	2	38.10	2	358.5	2	0.3242	2	0.249	2	0.273
8623	C6H12S	3-ethylthiacyclopentane	62184-67-2	251.23	2	438.15	1	671.54	2	38.10	2	358.5	2	0.3242	2	0.245	2	0.273
8624	C6H12S	2,2-dimethylthiacyclopentane	5161-75-1	275.13	2	400.03	2	623.18	2	40.31	2	356.5	2	0.3260	2	0.277	2	0.235
8625	C6H12S	2,cis-3-dimethylthiacyclopentane	5161-77-3	246.99	2	395.12	2	607.56	2	36.60	2	357.5	2	0.3251	2	0.259	2	0.247
8626	C6H12S	2,trans-3-dimethylthiacyclopentane	5161-78-4	246.99	2	395.12	2	607.56	2	36.60	2	357.5	2	0.3251	2	0.259	2	0.247
8627	C6H12S	2,cis-4-dimethylthiacyclopentane	5161-79-5	246.99	2	395.12	2	607.56	2	36.60	2	357.5	2	0.3251	2	0.259	2	0.247
8628	C6H12S	2,trans-4-dimethylthiacyclopentane	5161-80-8	246.99	2	395.12	2	607.56	2	36.60	2	357.5	2	0.3251	2	0.259	2	0.247
8629	C6H12S	2,cis-5-dimethylthiacyclopentane	5161-13-7	183.75	1	415.68	1	639.17	2	36.60	2	357.5	2	0.3251	2	0.246	2	0.247
8630	C6H12S	2,trans-5-dimethylthiacyclopentane	5161-14-8	196.80	1	415.15	1	638.36	2	36.60	2	357.5	2	0.3251	2	0.247	2	0.247
8631	C6H12S	3,3-dimethylthiacyclopentane	5161-76-2	275.13	2	400.03	2	623.18	2	40.31	2	356.5	2	0.3260	2	0.277	2	0.235
8632	C6H12S	3,cis-4-dimethylthiacyclopentane	5161-11-5	246.99	2	395.12	2	607.56	2	36.60	2	357.5	2	0.3251	2	0.259	2	0.247
8633	C6H12S	3,trans-4-dimethylthiacyclopentane	5161-12-6	246.99	2	395.12	2	607.56	2	36.60	2	357.5	2	0.3251	2	0.259	2	0.247
8634	C6H12S	2-methylthiacyclohexane	5161-16-0	215.01	1	426.19	1	660.59	2	39.31	2	350.5	2	0.3316	2	0.251	2	0.244
8635	C6H12S	3-methylthiacyclohexane	5258-50-4	212.98	1	431.19	1	668.34	2	39.31	2	350.5	2	0.3316	2	0.248	2	0.244
8636	C6H12S	4-methylthiacyclohexane	5161-17-1	245.05	1	431.79	1	669.27	2	39.31	2	350.5	2	0.3316	2	0.248	2	0.244
8637	C6H12S	cyclohexanethiol	1569-69-3	189.64	1	431.95	1	664.00	2	39.70	2	355.0	2	0.3274	2	0.255	2	0.264
8647	C6H13Br	1-bromohexane	111-25-1	188.45	1	428.45	1	623.86	2	33.61	2	433.5	2	0.3808	2	0.281	2	0.435
8648	C6H13Br	2-bromohexane	3377-86-4	201.68	2	417.05	1	612.00	2	33.92	2	427.5	2	0.3861	2	0.285	2	0.404
8649	C6H13Br	3-bromohexane	3377-87-5	201.68	2	414.45	1	608.18	2	33.92	2	427.5	2	0.3861	2	0.287	2	0.404
8650	C6H13Br	1-bromo-2-methylpentane	25346-33-2	201.68	2	417.15	1	612.15	2	33.92	2	427.5	2	0.3861	2	0.285	2	0.404
8651	C6H13Br	1-bromo-3-methylpentane	51116-73-5	201.68	2	421.15	1	618.02	2	33.92	2	427.5	2	0.3861	2	0.282	2	0.404
8652	C6H13Br	1-bromo-4-methylpentane	626-88-0	201.68	2	420.15	1	616.55	2	33.92	2	427.5	2	0.3861	2	0.283	2	0.404
8653	C6H13Br	2-bromo-2-methylpentane	4283-80-1	219.10	2	415.65	1	595.92	2	34.36	2	422.5	2	0.3907	2	0.293	2	0.341
8654	C6H13Br	2-bromo-3-methylpentane	62168-41-6	186.68	2	401.96	2	594.59	2	34.24	2	421.5	2	0.3916	2	0.292	2	0.373
8655	C6H13Br	2-bromo-4-methylpentane	30310-22-6	178.95	1	404.15	1	597.83	2	34.24	2	421.5	2	0.3916	2	0.290	2	0.373
8656	C6H13Br	3-bromo-2-methylpentane	4283-83-4	186.68	2	401.96	2	594.59	2	34.24	2	421.5	2	0.3916	2	0.292	2	0.373
8657	C6H13Br	3-bromo-3-methylpentane	25346-31-0	180.95	1	403.15	1	595.92	2	34.36	2	422.5	2	0.3907	2	0.293	2	0.341
8658	C6H13Br	1-bromo-2,2-dimethylbutane	62168-42-7	201.68	2	410.00	2	601.65	2	33.92	2	427.5	2	0.3861	2	0.290	2	0.404
8659	C6H13Br	1-bromo-2,3-dimethylbutane	30540-31-9	219.10	2	413.15	1	616.11	2	34.36	2	422.5	2	0.3907	2	0.283	2	0.341
8660	C6H13Br	1-bromo-3,3-dimethylbutane	1647-23-0	186.68	2	410.15	1	606.70	2	34.24	2	421.5	2	0.3916	2	0.286	2	0.373
8661	C6H13Br	2-bromo-2,3-dimethylbutane	594-52-5	298.15	1	406.15	1	595.92	2	34.36	2	422.5	2	0.3907	2	0.293	2	0.341
8662	C6H13Br	2-bromo-3,3-dimethylbutane	26356-06-9	298.15	1	405.15	1	609.30	2	34.68	2	416.5	2	0.3963	2	0.285	2	0.311
8663	C6H13Br	1-bromo-2-ethylbutane	3814-34-4	204.10	2	416.45	1	626.30	2	34.68	2	416.5	2	0.3963	2	0.277	2	0.311

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
8669	C6H13Cl	1-chlorohexane	544-10-5	179.15	1	408.24	1	596.19	2	29.83	2	420.5	2	0.2869	2	0.253	2	0.373
8670	C6H13Cl	2-chlorohexane	638-28-8	171.80	2	397.15	1	584.57	2	30.09	2	414.5	2	0.2910	2	0.257	2	0.343
8671	C6H13Cl	3-chlorohexane	2346-81-8	171.80	2	396.15	1	583.10	2	30.09	2	414.5	2	0.2910	2	0.257	2	0.343
8672	C6H13Cl	1-chloro-2-methylpentane	14753-05-0	171.80	2	393.15	1	578.68	2	30.09	2	414.5	2	0.2910	2	0.259	2	0.343
8673	C6H13Cl	1-chloro-3-methylpentane	62016-93-7	171.80	2	402.15	1	591.93	2	30.09	2	414.5	2	0.2910	2	0.253	2	0.343
8674	C6H13Cl	1-chloro-4-methylpentane	62016-94-8	171.80	2	398.15	1	586.04	2	30.09	2	414.5	2	0.2910	2	0.256	2	0.343
8675	C6H13Cl	2-chloro-2-methylpentane	4325-48-8	189.22	2	384.65	1	575.46	2	30.46	2	409.5	2	0.2946	2	0.261	2	0.283
8676	C6H13Cl	2-chloro-3-methylpentane	24319-09-3	156.80	2	380.00	2	563.86	2	30.36	2	408.5	2	0.2953	2	0.265	2	0.314
8677	C6H13Cl	2-chloro-4-methylpentane	25346-32-1	156.80	2	386.15	1	572.99	2	30.36	2	408.5	2	0.2953	2	0.260	2	0.314
8678	C6H13Cl	3-chloro-2-methylpentane	38384-05-3	156.80	2	385.00	2	571.28	2	30.36	2	408.5	2	0.2953	2	0.261	2	0.314
8679	C6H13Cl	3-chloro-3-methylpentane	918-84-3	189.22	2	389.15	1	582.19	2	30.46	2	409.5	2	0.2946	2	0.258	2	0.283
8680	C6H13Cl	1-chloro-2-ethylbutane	4737-41-1	171.80	2	399.15	1	587.51	2	30.09	2	414.5	2	0.2910	2	0.255	2	0.343
8681	C6H13Cl	1-chloro-2,2-dimethylbutane	6366-35-4	189.22	2	390.15	1	583.68	2	30.46	2	409.5	2	0.2946	2	0.257	2	0.283
8682	C6H13Cl	1-chloro-2,3-dimethylbutane	600-06-6	156.80	2	395.15	1	586.34	2	30.36	2	408.5	2	0.2953	2	0.254	2	0.314
8683	C6H13Cl	1-chloro-3,3-dimethylbutane	2855-08-5	189.22	2	390.15	1	583.68	2	30.46	2	409.5	2	0.2946	2	0.257	2	0.283
8684	C6H13Cl	2-chloro-2,3-dimethylbutane	594-57-0	262.75	1	385.15	1	581.14	2	30.73	2	403.5	2	0.2989	2	0.257	2	0.254
8685	C6H13Cl	2-chloro-3,3-dimethylbutane	5750-00-5	272.25	1	384.15	1	579.63	2	30.73	2	403.5	2	0.2989	2	0.257	2	0.254
8705	C6H13F	1-fluorohexane	373-14-8	170.15	1	364.65	1	528.10	2	28.50	2	388.0	2	0.2685	2	0.252	2	0.391
8706	C6H13F	2-fluorohexane	372-54-3	169.15	1	359.35	1	528.59	2	29.83	2	383.5	2	0.2716	2	0.260	2	0.342
8707	C6H13F	3-fluorohexane	52688-75-2	169.15	1	356.05	1	523.73	2	29.83	2	383.5	2	0.2716	2	0.263	2	0.342
8708	C6H13F	1-fluoro-2-methylpentane	62127-27-9	174.03	2	355.15	1	522.41	2	29.83	2	383.5	2	0.2716	2	0.263	2	0.342
8709	C6H13F	1-fluoro-3-methylpentane	62127-28-0	174.03	2	360.15	1	529.76	2	29.83	2	383.5	2	0.2716	2	0.260	2	0.342
8710	C6H13F	1-fluoro-4-methylpentane	62127-29-1	174.03	2	357.15	1	525.35	2	29.83	2	383.5	2	0.2716	2	0.262	2	0.342
8711	C6H13F	2-fluoro-2-methylpentane	62127-30-4	191.45	2	350.00	2	523.26	2	30.19	2	378.5	2	0.2752	2	0.263	2	0.282
8712	C6H13F	2-fluoro-3-methylpentane	62127-31-5	159.03	2	350.00	2	519.00	2	30.09	2	377.5	2	0.2759	2	0.263	2	0.313
8713	C6H13F	2-fluoro-4-methylpentane	62127-32-6	159.03	2	350.00	2	519.00	2	30.09	2	377.5	2	0.2759	2	0.263	2	0.313
8714	C6H13F	3-fluoro-2-methylpentane	62127-33-7	159.03	2	345.15	1	511.81	2	30.09	2	377.5	2	0.2759	2	0.267	2	0.313
8715	C6H13F	3-fluoro-3-methylpentane	19031-61-9	191.45	2	340.00	2	508.31	2	30.19	2	378.5	2	0.2752	2	0.270	2	0.282
8716	C6H13F	1-fluoro-2,2-dimethylbutane	62127-34-8	174.03	2	350.00	2	514.83	2	29.83	2	383.5	2	0.2716	2	0.267	2	0.342
8717	C6H13F	1-fluoro-2,3-dimethylbutane	62127-35-9	191.45	2	354.15	1	529.46	2	30.19	2	378.5	2	0.2752	2	0.260	2	0.282
8718	C6H13F	1-fluoro-3,3-dimethylbutane	371-64-2	159.03	2	348.85	1	517.29	2	30.09	2	377.5	2	0.2759	2	0.264	2	0.313
8719	C6H13F	2-fluoro-2,3-dimethylbutane	354-09-6	191.45	2	340.00	2	508.31	2	30.19	2	378.5	2	0.2752	2	0.270	2	0.282
8720	C6H13F	2-fluoro-3,3-dimethylbutane	92089-78-6	176.45	2	343.15	1	517.40	2	30.46	2	372.5	2	0.2796	2	0.264	2	0.253
8721	C6H13F	1-fluoro-2-ethylbutane	---	176.45	2	332.28	2	501.01	2	30.46	2	372.5	2	0.2796	2	0.272	2	0.253
8724	C6H13I	1-iodohexane	638-45-9	205.00	1	454.48	1	667.00	2	33.50	2	449.0	2	0.4723	2	0.271	2	0.398
8725	C6H13I	2-iodohexane	59654-13-6	199.94	2	442.15	1	611.98	2	36.20	2	384.5	2	0.5516	2	0.274	2	0.739
8726	C6H13I	3-iodohexane	31294-91-4	199.94	2	441.15	1	610.59	2	36.20	2	384.5	2	0.5516	2	0.274	2	0.739
8727	C6H13I	1-iodo-2-methylpentane	31294-94-7	199.94	2	441.15	1	610.59	2	36.20	2	384.5	2	0.5516	2	0.274	2	0.739
8728	C6H13I	1-iodo-3-methylpentane	24346-53-0	199.94	2	447.15	1	618.90	2	36.20	2	384.5	2	0.5516	2	0.271	2	0.739
8729	C6H13I	1-iodo-4-methylpentane	6196-80-1	199.94	2	446.25	1	617.65	2	36.20	2	384.5	2	0.5516	2	0.271	2	0.739
8730	C6H13I	2-iodo-2-methylpentane	31294-95-8	217.36	2	426.59	2	597.98	2	36.69	2	379.5	2	0.5588	2	0.280	2	0.668
8731	C6H13I	2-iodo-3-methylpentane	24319-07-1	184.94	2	428.94	2	597.44	2	36.55	2	378.5	2	0.5603	2	0.279	2	0.705
8732	C6H13I	2-iodo-4-methylpentane	31294-96-9	184.94	2	430.15	1	599.13	2	36.55	2	378.5	2	0.5603	2	0.278	2	0.705
8733	C6H13I	3-iodo-2-methylpentane	31294-97-0	184.94	2	428.94	2	597.44	2	36.55	2	378.5	2	0.5603	2	0.279	2	0.705
8734	C6H13I	3-iodo-3-methylpentane	24319-05-2	217.36	2	426.59	2	597.98	2	36.69	2	379.5	2	0.5588	2	0.280	2	0.668
8735	C6H13I	1-iodo-2,2-dimethylbutane	31294-98-1	199.94	2	429.38	2	594.30	2	36.20	2	384.5	2	0.5516	2	0.282	2	0.739
8736	C6H13I	1-iodo-2,3-dimethylbutane	31295-00-8	217.36	2	438.15	1	614.19	2	36.69	2	379.5	2	0.5588	2	0.273	2	0.668
8737	C6H13I	1-iodo-3,3-dimethylbutane	15672-88-5	184.94	2	436.15	1	607.49	2	36.55	2	378.5	2	0.5603	2	0.274	2	0.705
8738	C6H13I	2-iodo-2,3-dimethylbutane	594-59-2	217.36	2	426.59	2	597.98	2	36.69	2	379.5	2	0.5588	2	0.280	2	0.668
8739	C6H13I	2-iodo-3,3-dimethylbutane	24556-56-7	202.36	2	431.15	1	608.43	2	37.04	2	373.5	2	0.5678	2	0.274	2	0.635
8740	C6H13I	1-iodo-2-ethylbutane	---	202.36	2	439.15	1	619.72	2	37.04	2	373.5	2	0.5678	2	0.269	2	0.635
8742	C6H13N	cyclohexylamine	108-91-8	255.45	1	407.65	1	615.00	2	42.00	2	360.0	2	0.2755	2	0.296	2	0.360
8745	C6H13N	hexamethyleneimine	111-49-9	236.15	1	411.15	1	624.00	2	42.70	2	361.0	2	0.2747	2	0.297	2	0.345
8758	C6H13N	N-ethyl-2-methylallylamine	18328-90-0	229.00	2	377.90	1	556.00	2	31.80	2	405.0	2	0.2449	2	0.279	2	0.355
8790	C6H13NO2	1-nitrohexane	646-14-0	300.49	2	466.65	1	659.32	2	31.49	2	453.5	2	0.2893	2	0.261	2	0.555
8791	C6H13NO2	2-nitrohexane	14255-44-8	285.49	2	449.15	1	639.00	2	31.78	2	447.5	2	0.2931	2	0.268	2	0.523
8792	C6H13NO2	3-nitrohexane	7286-40-0	285.49	2	449.15	1	639.00	2	31.78	2	447.5	2	0.2931	2	0.268	2	0.523
8793	C6H13NO2	1-nitro-2-methylpentane	---	285.49	2	446.00	2	634.51	2	31.78	2	447.5	2	0.2931	2	0.270	2	0.523
8794	C6H13NO2	1-nitro-3-methylpentane	---	285.49	2	446.00	2	634.51	2	31.78	2	447.5	2	0.2931	2	0.270	2	0.523
8795	C6H13NO2	1-nitro-4-methyl pentane	---	285.49	2	446.00	2	634.51	2	31.78	2	447.5	2	0.2931	2	0.270	2	0.523
8796	C6H13NO2	2-nitro-2-methylpentane	---	302.91	2	446.00	2	643.67	2	32.17	2	442.5	2	0.2964	2	0.266	2	0.458
8797	C6H13NO2	2-nitro-3-methylpentane	42202-42-6	270.49	2	443.15	1	634.96	2	32.06	2	441.5	2	0.2971	2	0.268	2	0.491
8798	C6H13NO2	2-nitro-4-methylpentane	---	270.49	2	443.00	2	634.74	2	32.06	2	441.5	2	0.2971	2	0.268	2	0.491
8799	C6H13NO2	3-nitro-2-methylpentane	---	270.49	2	443.00	2	634.74	2	32.06	2	441.5	2	0.2971	2	0.268	2	0.491
8800	C6H13NO2	3-nitro-3-methylpentane	---	302.91	2	443.00	2	639.34	2	32.17	2	442.5	2	0.2964	2	0.268	2	0.458
8801	C6H13NO2	1-nitro-2,2-dimethylbutane	2625-29-8	302.91	2	442.15	1	638.11	2	32.17	2	442.5	2	0.2964	2	0.268	2	0.458
8802	C6H13NO2	1-nitro-2,3-dimethylbutane	66553-34-2	270.49	2	449.15	1	643.56	2	32.06	2	441.5	2	0.2971	2	0.265	2	0.491
8803	C6H13NO2	1-nitro-3,3-dimethylbutane	---	302.91	2	445.00	2	642.23	2	32.17	2	442.5	2	0.2964	2	0.267	2	0.458
8804	C6H13NO2	2-nitro-2,3-dimethylbutane	34075-28-0	280.15	1	442.15	1	642.93	2	32.47	2	436.5	2	0.3005	2	0.265	2	0.427
8805	C6H13NO2	2-nitro-3,3-dimethylbutane	599-02-0	313.15	1	436.15	1	634.21	2	32.47	2	436.5	2	0.3005	2	0.269	2	0.427
8806	C6H13NO2	1-nitro-2-ethylbutane	---	285.49	2	445.00	2	633.09	2	31.78	2	447.5	2	0.2931	2	0.270	2	0.523
8877	C6H14	hexane	110-54-3	177.83	1	341.88	1	507.60	1	30.25	1	371.0	1	0.2323	1	0.266	1	0.301
8878	C6H14	2,2-dimethylbutane	75-83-2	174.28	1	322.88	1	489.00	1	31.00	1	358.0	1	0.2407	1	0.273	1	0.234
8879	C6H14	2,3-dimethylbutane	79-29-8	145.19	1	331.13	1	500.00	1	31.50	1	361.0	1	0.2387	1	0.274	1	0.250
8880	C6H14	2-methylpentane	107-83-5	119.55	1	333.41	1	497.70	1	30.40	1	368.0	1	0.2342	1	0.270	1	0.279
8881	C6H14	3-methylpentane	96-14-0	110.25	1	336.42	1	504.43	1	31.24	1	366.4	1	0.2352	1	0.273	1	0.274
8935	C6H14N2O	1-piperazineethanol	103-76-4	---	---	519.15	1	711.00	2	40.30	2	386.0	2	0.3373	2	0.263	2	0.833
8944	C6H14N2O2	lysine	56-87-1	498.00	1	615.00	1	821.00	2	35.30	2	502.0	2	0.2912	2	0.260	2	1.013
8970	C6H14O	1-hexanol	111-27-3	228.55	1	430.55	1	610.30	1	34.17	1	387.0	1	0.2640	1	0.261	1	0.576
8971	C6H14O	2-hexanol	626-93-7	223.00	1	413.04	1	585.90	1	33.10	1	384.0	1	0.2661	1	0.261	1	0.556

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
8972	C6H14O	3-hexanol	623-37-0	202.70	2	408.55	1	579.30	2	33.10	2	384.0	1	0.2661	1	0.264	1,2	0.558
8973	C6H14O	2-methyl-1-pentanol	105-30-6	202.70	2	421.15	1	604.40	1	34.50	1	380.0	2	0.2689	2	0.261	1,2	0.510
8974	C6H14O	3-methyl-1-pentanol	589-35-5	208.00	2	425.55	1	588.00	2	34.00	2	380.0	2	0.2689	2	0.264	2	0.723
8975	C6H14O	4-methyl-1-pentanol	626-89-1	202.70	2	424.95	1	603.50	1	36.30	1	380.0	1	0.2689	1	0.275	1	0.591
8976	C6H14O	4-methyl-2-pentanol	108-11-2	183.15	1	404.85	1	574.40	1	34.70	2	380.0	2	0.2689	2	0.276	1,2	0.573
8977	C6H14O	2-methyl-2-pentanol	590-36-3	171.15	1	394.56	1	559.50	1	34.70	1	380.0	1	0.2689	1	0.283	1	0.579
8978	C6H14O	3-methyl-2-pentanol	565-60-6	187.70	2	407.36	1	578.00	2	34.70	2	373.0	1	0.2739	1	0.269	1,2	0.576
8979	C6H14O	2-methyl-3-pentanol	565-67-3	187.70	2	399.66	1	564.40	2	32.80	2	378.0	1	0.2703	1	0.264	1,2	0.576
8980	C6H14O	3-methyl-3-pentanol	77-74-7	249.55	1	394.06	1	575.60	1	35.20	1	380.0	2	0.2689	2	0.280	1,2	0.432
8981	C6H14O	2-ethyl-1-butanol	97-95-0	158.75	1	419.65	1	580.00	2	34.00	2	380.0	2	0.2689	2	0.268	2	0.714
8982	C6H14O	2,2-dimethyl-1-butanol	1185-33-7	220.12	2	409.95	1	589.00	2	35.20	2	376.0	1	0.2717	1	0.270	1,2	0.518
8983	C6H14O	2,3-dimethyl-1-butanol	19550-30-2	187.70	2	422.15	1	599.00	2	34.70	2	373.0	1	0.2739	1	0.260	1,2	0.576
8984	C6H14O	2,3-dimethyl-1-butanol, (±)-	20281-85-0	213.40	2	417.65	1	581.80	2	34.61	2	377.4	1	0.2708	1	0.270	1,2	0.582
8985	C6H14O	3,3-dimethyl-1-butanol	624-95-3	213.15	1	416.15	1	587.60	2	35.20	2	376.0	1	0.2717	1	0.271	1,2	0.609
8986	C6H14O	2,3-dimethyl-2-butanol	594-60-5	262.75	1	391.75	1	564.40	2	34.50	2	374.0	1	0.2732	1	0.275	1,2	0.496
8987	C6H14O	3,3-dimethyl-2-butanol	464-07-3	278.45	1	393.15	1	566.40	2	34.50	2	374.0	1	0.2732	1	0.274	1,2	0.496
8988	C6H14O	3,3-dimethyl-2-butanol, (±)	20281-91-8	278.75	1	393.55	1	581.80	2	34.61	2	377.4	1	0.2708	1	0.270	1,2	0.582
8989	C6H14O	(RS)-2-hexanol	20281-86-1	213.40	2	413.15	1	581.80	1	34.61	2	377.4	1	0.2708	1	0.270	1,2	0.582
8990	C6H14O	2-hexanol, (R)	26549-24-6	213.40	2	410.15	1	581.80	1	34.61	2	377.4	1	0.2708	1	0.270	1,2	0.582
8991	C6H14O	3-hexanol, (R)	13471-42-6	213.40	2	408.15	1	581.80	2	34.61	2	377.4	1	0.2708	1	0.270	1,2	0.582
8992	C6H14O	3-methyl-1-pentanol, (±)	20281-83-8	213.40	2	426.15	1	581.80	2	34.61	2	377.4	1	0.2708	1	0.270	1,2	0.582
8993	C6H14O	dipropyl ether	111-43-3	149.95	1	363.23	1	530.60	1	30.28	1	382.0	2	0.2675	2	0.262	1,2	0.369
8994	C6H14O	propyl isopropyl ether	627-08-7	164.11	2	353.15	1	518.96	2	30.76	2	383.5	2	0.2664	2	0.273	2	0.359
8995	C6H14O	diisopropyl ether	108-20-3	187.65	1	341.45	1	500.05	1	28.80	1	386.0	1	0.2647	1	0.267	1	0.339
8996	C6H14O	methyl pentyl ether	628-80-8	176.00	2	372.00	1	546.49	1	30.42	1	380.0	1	0.2689	1	0.254	1	0.344
8997	C6H14O	methyl 1-methylbutyl ether	6795-88-6	164.11	2	364.15	1	535.12	2	30.76	2	383.5	2	0.2664	2	0.265	2	0.359
8998	C6H14O	methyl 2-methylbutyl ether	62016-48-2	164.11	2	363.15	1	533.65	2	30.76	2	383.5	2	0.2664	2	0.266	2	0.359
8999	C6H14O	methyl 3-methylbutyl ether	626-91-5	164.11	2	363.15	1	533.65	2	30.76	2	383.5	2	0.2664	2	0.266	2	0.359
9000	C6H14O	methyl 1-ethylpropyl ether	36839-67-5	164.11	2	361.15	1	530.71	2	30.76	2	383.5	2	0.2664	2	0.267	2	0.359
9001	C6H14O	methyl 1,2-dimethylpropyl ether	62016-49-3	149.11	2	356.15	1	527.59	2	31.04	2	377.5	2	0.2707	2	0.267	2	0.329
9002	C6H14O	methyl tert-pentyl ether	994-05-8	149.11	2	359.45	1	534.00	2	30.40	2	382.0	2	0.2675	2	0.262	2	0.298
9003	C6H14O	methyl 2,2-dimethylpropyl ether	1118-00-9	181.53	2	356.15	1	531.90	2	31.14	2	378.5	2	0.2700	2	0.267	2	0.298
9004	C6H14O	ethyl butyl ether	628-81-9	170.15	1	365.35	1	531.00	2	29.90	2	382.0	2	0.2675	2	0.259	2	0.385
9005	C6H14O	ethyl isobutyl ether	627-02-1	164.11	2	354.25	1	520.57	2	30.76	2	383.5	2	0.2664	2	0.273	2	0.359
9006	C6H14O	ethyl sec-butyl ether	2679-87-0	164.11	2	354.35	1	520.72	2	30.76	2	383.5	2	0.2664	2	0.272	2	0.359
9007	C6H14O	ethyl tert-butyl ether	637-92-3	179.15	1	345.95	1	514.00	2	30.40	2	382.0	2	0.2675	2	0.272	2	0.296
9008	C6H14O	(S)-(+)-2-hexanol	52019-78-0	213.40	2	411.65	1	581.80	2	34.61	2	377.4	1	0.2708	1	0.270	1,2	0.582
9009	C6H14O	tert-hexyl alcohol	26401-20-7	213.40	2	390.55	2	581.80	2	34.61	2	377.4	1	0.2708	1	0.270	1,2	0.582
9020	C6H14O2	acetal	105-57-7	173.15	1	376.65	1	539.70	1	32.20	1	402.0	2	0.2940	2	0.288	1,2	0.487
9021	C6H14O2	2-butoxyethanol	111-76-2	199.17	1	444.47	1	633.90	1	32.70	1	423.6	1	0.2790	1	0.263	1	0.521
9022	C6H14O2	hexylene glycol	107-41-5	223.15	1	470.65	1	621.00	2	40.10	2	398.0	2	0.2969	2	0.309	2	1.158
9023	C6H14O2	1,2-hexanediol	6920-22-5	318.15	1	497.15	1	650.10	2	38.97	2	403.5	2	0.2929	2	0.291	2	1.214
9024	C6H14O2	1,3-hexanediol	21531-91-9	263.52	2	508.15	2	664.48	2	38.97	2	403.5	2	0.2929	2	0.285	2	1.214
9025	C6H14O2	1,4-hexanediol	16432-53-4	263.52	2	529.15	2	691.94	2	38.97	2	403.5	2	0.2929	2	0.273	2	1.214
9026	C6H14O2	1,5-hexanediol	928-40-5	263.52	2	510.15	1	660.36	2	38.97	2	403.5	2	0.2929	2	0.286	2	1.214
9027	C6H14O2	1,6-hexanediol	629-11-8	315.15	1	525.99	1	683.00	2	36.10	2	398.0	2	0.2969	2	0.253	2	1.216
9028	C6H14O2	2,3-hexanediol	617-30-1	333.15	1	478.15	1	628.03	2	39.36	2	397.5	2	0.2973	2	0.300	2	1.179
9029	C6H14O2	2,4-hexanediol	19780-90-6	277.56	2	484.15	1	649.93	2	39.42	2	396.9	2	0.2978	2	0.290	2	1.160
9030	C6H14O2	2,5-hexanediol	2935-44-6	316.15	1	493.95	1	648.79	2	39.36	2	397.5	2	0.2973	2	0.290	2	1.179
9031	C6H14O2	3,4-hexanediol	922-17-8	248.52	2	496.94	2	652.71	2	39.36	2	397.5	2	0.2973	2	0.288	2	1.179
9032	C6H14O2	2-methyl-1,2-pentanediol	20667-05-4	280.94	2	490.00	2	646.52	2	39.51	2	398.5	2	0.2966	2	0.293	2	1.140
9033	C6H14O2	2-methyl-1,3-pentanediol	149-31-5	243.15	1	493.45	1	648.13	2	39.36	2	397.5	2	0.2973	2	0.290	2	1.179
9034	C6H14O2	2-methyl-1,5-pentanediol	42856-62-2	248.52	2	496.94	2	652.71	2	39.36	2	397.5	2	0.2973	2	0.288	2	1.179
9035	C6H14O2	2-methyl-2,3-pentanediol	7795-80-4	265.94	2	505.76	2	670.50	2	39.91	2	392.5	2	0.3011	2	0.281	2	1.105
9036	C6H14O2	3-methyl-1,3-pentanediol	33879-72-0	280.94	2	482.98	2	637.26	2	39.51	2	398.5	2	0.2966	2	0.297	2	1.140
9037	C6H14O2	3-methyl-1,5-pentanediol	4457-71-0	213.15	1	521.55	1	682.00	2	38.97	2	403.5	2	0.2929	2	0.277	2	1.214
9038	C6H14O2	3-methyl-2,3-pentanediol	63521-37-9	265.94	2	505.76	2	670.50	2	39.91	2	392.5	2	0.3011	2	0.281	2	1.105
9039	C6H14O2	3-methyl-2,4-pentanediol	5683-44-3	233.52	2	484.65	1	685.78	2	39.76	2	391.5	2	0.3019	2	0.273	2	1.143
9040	C6H14O2	4-methyl-1,4-pentanediol	1462-10-8	280.94	2	494.35	1	652.26	2	39.51	2	398.5	2	0.2966	2	0.290	2	1.140
9041	C6H14O2	DL-erythro-4-methyl-2,3-pentanediol	6702-10-9	322.15	1	519.72	2	685.78	2	39.76	2	391.5	2	0.3019	2	0.273	2	1.143
9042	C6H14O2	DL-threo-4-methyl-2,3-pentanediol	6464-40-0	332.15	1	519.72	2	685.78	2	39.76	2	391.5	2	0.3019	2	0.273	2	1.143
9043	C6H14O2	2-ethyl-1,2-butanediol	66553-16-0	318.65	1	473.15	1	624.29	2	39.51	2	398.5	2	0.2966	2	0.303	2	1.140
9044	C6H14O2	2-ethyl-1,3-butanediol	66553-17-1	248.52	2	480.00	2	630.46	2	39.36	2	397.5	2	0.2973	2	0.298	2	1.179
9045	C6H14O2	2-ethyl-1,4-butanediol	57716-79-7	248.52	2	480.00	2	630.46	2	39.36	2	397.5	2	0.2973	2	0.298	2	1.179
9046	C6H14O2	2,2-dimethyl-1,3-butanediol	76-35-7	260.35	1	475.55	1	630.45	2	39.91	2	392.5	2	0.3011	2	0.299	2	1.105
9047	C6H14O2	2,2-dimethyl-1,4-butanediol	32812-23-0	265.94	2	480.00	2	636.35	2	39.91	2	392.5	2	0.3011	2	0.296	2	1.105
9048	C6H14O2	2,3-dimethyl-1,2-butanediol	66553-15-9	265.94	2	480.00	2	636.35	2	39.91	2	392.5	2	0.3011	2	0.296	2	1.105
9049	C6H14O2	2,3-dimethyl-1,3-butanediol	24893-35-4	265.94	2	480.00	2	636.35	2	39.91	2	392.5	2	0.3011	2	0.296	2	1.105
9050	C6H14O2	DL-2,3 -dimethyl-1,4-butanediol	---	248.52	2	496.94	2	652.71	2	39.36	2	397.5	2	0.2973	2	0.288	2	1.179
9051	C6H14O2	meso-2,3-dimethyl-1,4-butanediol	---	248.52	2	496.94	2	652.71	2	39.36	2	397.5	2	0.2973	2	0.288	2	1.179
9052	C6H14O2	2,3-dimethyl-2,3-butanediol	76-09-5	314.25	1	445.95	1	597.11	2	40.47	2	387.5	2	0.3050	2	0.316	2	1.030
9053	C6H14O2	3,3-dimethyl-1,2-butanediol	59562-82-2	321.65	1	478.65	1	634.56	2	39.91	2	392.5	2	0.3011	2	0.297	2	1.105
9054	C6H14O2	2-propyl-1,3-propanediol	2612-28-4	263.52	2	474.16	2	620.04	2	38.97	2	403.5	2	0.2929	2	0.305	2	1.214
9055	C6H14O2	2-isopropyl-1,3-propanediol	2612-27-3	248.52	2	496.94	2	652.71	2	39.36	2	397.5	2	0.2973	2	0.288	2	1.179
9056	C6H14O2	2-methyl-2-ethyl-1,3-propanediol	77-84-9	313.45	1	498.95	1	658.33	2	39.51	2	398.5	2	0.2966	2	0.288	2	1.140
9057	C6H14O2	1-(1-methylethoxy)-2-propanol	3944-36-3	210.00	2	411.15	1	562.00	2	33.60	2	400.0	2	0.2954	2	0.288	2	0.768
9058	C6H14O2	2-(2-methylpropoxy)ethanol	4439-24-1	208.52	2	433.15	1	600.00	2	32.40	2	407.3	2	0.2902	2	0.265	2	0.817
9059	C6H14O2	1-propoxy-2-propanol	1569-01-3	193.15	1	421.85	1	573.00	2	33.00	2	400.0	2	0.2954	2	0.277	2	0.800
9060	C6H14O2	ethylene glycol diethyl ether	629-14-1	199.15	1	394.55	1	561.00	2	29.30	2	402.0	2	0.2940	2	0.253	2	0.482
9061	C6H14O2	(2R,5R)-2,5-hexanediol	17299-07-9	323.15	1	486.65	1	649.93	2	39.42	2	396.9	2	0.2978	2	0.290	2	1.160

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
9062	C6H14O2	(2S,5S)-2,5-hexanediol	34338-96-0	324.65	1	486.65	1	649.93	2	39.42	2	396.9	2	0.2978	2	0.290	2	1.160
9063	C6H14O2	3-methoxy-3-methylbutanol	56539-66-3	223.25	1	447.15	1	600.00	2	32.40	2	407.3	2	0.2902	2	0.265	2	0.817
9064	C6H14O2	(R)-(-)-2-methyl-2,4-pentanediol	99210-90-9	277.56	2	470.15	1	649.93	2	39.42	2	396.9	2	0.2978	2	0.290	2	1.160
9067	C6H14O2	ethylene glycol mono-sec-butyl ether	7795-91-7	208.52	2	481.98	2	600.00	2	32.40	2	407.3	2	0.2902	2	0.265	2	0.817
9068	C6H14O2	n-propoxypropanol (mixed isomers)	30136-13-1	208.52	2	481.98	2	600.00	2	32.40	2	407.3	2	0.2902	2	0.265	2	0.817
9069	C6H14O2S	dipropyl sulfone	598-03-8	303.00	1	543.00	1	763.00	2	31.10	2	463.0	2	0.3245	2	0.227	2	0.582
9075	C6H14O3	diethylene glycol dimethyl ether	111-96-6	209.11	1	435.65	1	608.00	2	28.60	2	422.0	2	0.3180	2	0.239	2	0.577
9076	C6H14O3	dipropylene glycol	25265-71-8	233.00	1	504.95	1	654.00	2	35.80	2	415.0	2	0.3233	2	0.273	2	1.198
9077	C6H14O3	2-(2-ethoxyethoxy)ethanol	111-90-0	219.15	1	475.05	1	656.00	2	31.40	2	436.0	2	0.3077	2	0.251	2	0.681
9078	C6H14O3	trimethylolpropane	77-99-6	331.15	1	562.04	1	709.00	2	39.10	2	416.0	2	0.3225	2	0.276	2	1.543
9092	C6H14O4	triethylene glycol	112-27-6	265.79	1	561.50	1	769.50	1	33.20	2	443.0	2	0.3390	2	0.230	1,2	0.759
9100	C6H14O6	sorbitol	50-70-4	364.65	1	704.00	1	868.00	2	46.40	2	483.0	2	0.3772	2	0.311	2	2.213
9107	C6H14S	hexyl mercaptan	111-31-9	192.62	1	425.81	1	623.00	2	30.80	2	412.0	2	0.2870	2	0.245	2	0.368
9108	C6H14S	2-hexanethiol	1679-06-7	126.15	1	412.05	1	607.00	2	30.00	2	417.0	2	0.2836	2	0.248	2	0.339
9109	C6H14S	2,3-dimethyl-2-butanethiol	1639-01-6	159.39	2	407.26	2	615.00	2	30.40	2	414.5	2	0.2853	2	0.246	2	0.353
9110	C6H14S	3-hexanethiol	1633-90-5	159.39	2	407.26	2	615.00	2	30.40	2	414.5	2	0.2853	2	0.246	2	0.353
9111	C6H14S	2-methyl-2-pentanethiol	1633-97-2	159.39	2	407.26	2	615.00	2	30.40	2	414.5	2	0.2853	2	0.246	2	0.353
9112	C6H14S	dipropyl sulfide	111-47-7	170.44	1	415.98	1	608.00	2	30.80	2	412.0	2	0.2870	2	0.251	2	0.374
9113	C6H14S	diisopropyl sulfide	625-80-9	170.45	1	393.19	1	585.71	2	32.25	2	413.5	2	0.2859	2	0.274	2	0.316
9114	C6H14S	methyl pentyl sulfide	1741-83-9	179.16	1	401.16	1	587.98	2	31.67	2	425.5	2	0.2779	2	0.276	2	0.376
9115	C6H14S	ethyl butyl sulfide	638-46-0	178.03	1	417.41	1	609.00	2	30.00	2	425.5	2	0.2779	2	0.252	2	0.374
9116	C6H14S	3-methyl-2-thiahexane	13286-91-4	176.28	2	412.15	1	608.92	2	31.96	2	419.5	2	0.2819	2	0.265	2	0.351
9117	C6H14S	4-methyl-2-thiahexane	15013-37-3	176.28	2	413.15	1	610.40	2	31.96	2	419.5	2	0.2819	2	0.264	2	0.351
9118	C6H14S	5-methyl-2-thiahexane	13286-90-3	176.28	2	411.15	1	607.44	2	31.96	2	419.5	2	0.2819	2	0.265	2	0.351
9119	C6H14S	2-methyl-3-thiahexane	5008-73-1	176.28	2	405.20	1	598.65	2	31.96	2	419.5	2	0.2819	2	0.269	2	0.351
9120	C6H14S	4-methyl-3-thiahexane	5008-72-0	176.28	2	406.80	1	601.01	2	31.96	2	419.5	2	0.2819	2	0.268	2	0.351
9121	C6H14S	5-methyl-3-thiahexane	1613-45-2	176.28	2	407.37	1	601.86	2	31.96	2	419.5	2	0.2819	2	0.268	2	0.351
9122	C6H14S	3-ethyl-2-thiapentane	57093-84-2	176.28	2	405.02	2	598.38	2	31.96	2	419.5	2	0.2819	2	0.269	2	0.351
9123	C6H14S	3,3-dimethyl-2-thiapentane	13286-92-5	195.00	2	423.00	1	632.00	2	31.30	2	435.0	2	0.2718	2	0.259	2	0.284
9124	C6H14S	3,4-dimethyl-2-thiapentane	53897-51-1	161.28	2	401.15	1	597.54	2	32.25	2	413.5	2	0.2860	2	0.268	2	0.321
9125	C6H14S	4,4-dimethyl-2-thiapentane	6079-57-8	193.70	2	401.15	1	602.51	2	32.36	2	414.5	2	0.2853	2	0.268	2	0.290
9126	C6H14S	2,2-dimethyl-3-thiapentane	14290-92-7	184.20	1	393.56	1	588.00	2	31.30	2	412.0	2	0.2870	2	0.264	2	0.286
9127	C6H14S2	1,1-bis(ethylthio)ethane	14252-42-7	---	---	457.15	1	673.00	2	27.50	2	479.5	2	0.3134	2	0.236	2	0.370
9128	C6H14S2	1,2-bis(ethylthio)ethane	5395-75-5	---	---	490.15	1	673.00	2	27.50	2	479.5	2	0.3134	2	0.236	2	0.370
9129	C6H14S2	diisopropyl disulfide	4253-89-8	204.15	1	450.15	1	673.00	2	27.50	2	479.5	2	0.3134	2	0.236	2	0.370
9130	C6H14S2	dipropyl disulfide	629-19-6	187.67	1	469.00	1	675.00	2	30.30	2	463.0	2	0.3246	2	0.250	2	0.437
9135	C6H15Al	triethyl aluminum	97-93-8	220.65	1	467.15	1	678.15	1	89.30	2	230.0	2	0.4964	2	0.364	1,2	0.842
9139	C6H15Al2Cl3	ethyl aluminum sesquichloride	12075-68-2	253.15	1	482.15	1	791.00	2	70.00	---	337.5	---	0.7333	---	0.359	---	---
9173	C6H15N	hexylamine	111-26-2	251.85	1	405.85	1	584.00	2	31.80	2	418.0	2	0.2421	2	0.274	2	0.458
9174	C6H15N	2-aminohexane	5329-79-3	254.15	1	403.15	1	584.76	2	33.45	2	394.5	2	0.2565	2	0.271	2	0.451
9175	C6H15N	3-aminohexane	16751-58-9	232.45	2	408.77	2	592.91	2	33.45	2	394.5	2	0.2565	2	0.268	2	0.451
9176	C6H15N	1-amino-2-methylpentane	13364-16-4	232.45	2	400.00	2	580.19	2	33.45	2	394.5	2	0.2565	2	0.274	2	0.451
9177	C6H15N	1-amino-3-methylpentane	42245-37-4	232.45	2	395.15	1	580.19	2	33.45	2	394.5	2	0.2565	2	0.274	2	0.451
9178	C6H15N	1-amino-4-methylpentane	5344-20-7	178.75	1	397.05	1	575.91	2	33.45	2	394.5	2	0.2565	2	0.276	2	0.451
9179	C6H15N	2-amino-2-methylpentane	53310-02-4	232.45	2	377.15	1	555.56	2	33.88	2	389.5	2	0.2598	2	0.286	2	0.387
9180	C6H15N	2-amino-3-methylpentane	35399-81-6	232.45	2	408.33	2	596.83	2	33.76	2	388.5	2	0.2605	2	0.264	2	0.419
9181	C6H15N	2-amino-4-methylpentane	108-09-8	232.45	2	381.65	1	557.83	2	33.76	2	388.5	2	0.2605	2	0.283	2	0.419
9182	C6H15N	3-amino-2-methylpentane	54287-41-1	232.45	2	408.33	2	596.83	2	33.76	2	388.5	2	0.2605	2	0.264	2	0.419
9183	C6H15N	3-amino-3-methylpentane	3495-46-3	232.45	2	398.45	1	586.93	2	33.88	2	389.5	2	0.2598	2	0.270	2	0.387
9184	C6H15N	1-amino-2,2-dimethylbutane	41781-17-3	232.45	2	386.65	1	569.55	2	33.88	2	389.5	2	0.2598	2	0.279	2	0.387
9185	C6H15N	1-amino-2,3-dimethylbutane	66553-05-7	232.45	2	378.15	1	552.72	2	33.76	2	388.5	2	0.2605	2	0.285	2	0.419
9186	C6H15N	1-amino-3,3-dimethylbutane	15673-00-4	232.45	2	405.98	2	598.02	2	33.88	2	389.5	2	0.2598	2	0.265	2	0.387
9187	C6H15N	2-amino-2,3-dimethylbutane	4358-75-2	202.65	1	377.65	1	556.88	2	34.20	2	383.5	2	0.2639	2	0.283	2	0.356
9188	C6H15N	2-amino-3,3-dimethyl butane	3850-30-4	253.15	1	375.15	1	557.10	2	34.20	2	383.5	2	0.2639	2	0.283	2	0.356
9189	C6H15N	1-amino-2-ethylbutane	617-79-8	232.45	2	408.77	2	592.91	2	33.45	2	394.5	2	0.2565	2	0.268	2	0.451
9190	C6H15N	2-hexanamine, (±)	68107-05-1	254.15	1	390.65	1	559.92	2	32.83	2	397.5	2	0.2547	2	0.280	2	0.404
9191	C6H15N	methylpentylamine	25419-06-1	191.50	2	390.55	1	561.00	2	31.60	2	400.0	2	0.2530	2	0.271	2	0.473
9192	C6H15N	methyl-1-methylbutylamine	51932-19-5	191.50	2	386.41	2	560.25	2	31.81	2	400.5	2	0.2527	2	0.274	2	0.432
9193	C6H15N	methyl-2-methylbutylamine	90023-96-4	191.50	2	386.41	2	560.25	2	31.81	2	400.5	2	0.2527	2	0.274	2	0.432
9194	C6H15N	methyl-3-methylbutylamine	52317-98-3	191.50	2	381.15	1	552.62	2	31.81	2	400.5	2	0.2527	2	0.277	2	0.432
9195	C6H15N	methyl-1,1-dimethylpropylamine	---	191.50	2	383.62	2	564.84	2	32.21	2	395.5	2	0.2559	2	0.271	2	0.369
9196	C6H15N	methyl-1,2-dimethylpropylamine	34317-39-0	191.50	2	386.41	2	560.25	2	31.81	2	400.5	2	0.2527	2	0.274	2	0.432
9197	C6H15N	methyl-2,2-dimethylpropylamine	26153-91-3	191.50	2	383.62	2	564.84	2	32.21	2	395.5	2	0.2559	2	0.271	2	0.369
9198	C6H15N	ethylbutylamine	13360-63-9	191.50	2	381.15	1	548.52	2	31.53	2	406.5	2	0.2489	2	0.281	2	0.463
9199	C6H15N	ethyl-sec-butylamine	21035-44-9	191.50	2	371.15	1	538.12	2	31.81	2	400.5	2	0.2527	2	0.285	2	0.432
9200	C6H15N	ethylisobutylamine	13205-60-2	191.50	2	371.15	1	538.12	2	31.81	2	400.5	2	0.2527	2	0.285	2	0.432
9201	C6H15N	ethyl-tert-butylamine	4432-77-3	210.15	2	351.15	1	517.03	2	32.21	2	395.5	2	0.2559	2	0.296	2	0.369
9202	C6H15N	di-propylamine	142-84-7	210.15	1	382.00	1	550.00	1	31.40	1	402.0	2	0.2517	2	0.276	1,2	0.450
9203	C6H15N	diisopropylamine	108-18-9	176.85	1	357.05	1	523.10	1	32.00	1	418.0	2	0.2421	2	0.308	1,2	0.388
9204	C6H15N	propylisopropylamine	21968-17-2	191.50	2	371.45	1	538.56	2	31.81	2	400.5	2	0.2527	2	0.285	2	0.432
9205	C6H15N	N-ethyl-2-butanamine, (±)	116724-10-8	168.85	1	371.15	1	559.92	2	32.83	2	397.5	2	0.2547	2	0.280	2	0.404
9206	C6H15N	methylethylpropylamine	4458-32-6	164.23	2	364.65	1	534.36	2	32.43	2	409.5	2	0.2471	2	0.299	2	0.392
9207	C6H15N	methylethylisopropylamine	39198-07-7	166.07	2	364.65	1	538.62	2	32.73	2	403.5	2	0.2508	2	0.295	2	0.361
9208	C6H15N	dimethylbutylamine	927-62-8	210.00	2	367.15	1	538.00	2	29.30	2	418.0	2	0.2421	2	0.274	2	0.340
9209	C6H15N	dimethyl-sec-butylamine	921-04-0	166.07	2	367.15	1	542.32	2	32.73	2	403.5	2	0.2508	2	0.293	2	0.361
9210	C6H15N	dimethylisobutylamine	7239-24-9	158.45	2	354.15	1	523.11	2	32.73	2	403.5	2	0.2508	2	0.304	2	0.361
9211	C6H15N	dimethyl-tert-butylamine	918-02-5	183.15	1	363.15	1	545.31	2	33.14	2	398.5	2	0.2539	2	0.291	2	0.300
9212	C6H15N	triethylamine	121-44-8	158.45	1	361.92	1	535.15	1	30.40	1	390.0	1	0.2595	1	0.266	1	0.316
9213	C6H15NO	6-aminohexanol	4048-33-3	331.00	1	496.15	1	665.00	2	34.40	2	436.0	2	0.2688	2	0.271	2	0.969
9214	C6H15NO	2-amino-4-methyl-1-pentanol, (±)	16369-17-8	317.15	1	472.15	1	681.00	2	34.40	2	436.0	2	0.2688	2	0.265	2	0.970

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
9215	C6H15NO	2-(butylamino)ethanol	111-75-1	314.36	2	472.15	1	681.00	2	34.40	2	436.0	2	0.2688	2	0.265	2	0.970
9216	C6H15NO	2-[tert-butylamino]ethanol	4620-70-6	317.15	1	449.65	1	681.00	2	34.40	2	436.0	2	0.2688	2	0.265	2	0.970
9217	C6H15NO	2-diethylaminoethanol	100-37-8	253.00	1	436.15	1	592.00	2	31.80	2	401.0	2	0.2922	2	0.259	2	0.782
9220	C6H15NO	2-(isobutylamino)ethanol	17091-40-6	314.36	2	472.15	1	681.00	2	34.40	2	436.0	2	0.2688	2	0.265	2	0.970
9221	C6H15NO	DL-2-amino-1-hexanol	5665-74-7	314.36	2	464.15	1	681.00	2	34.40	2	436.0	2	0.2688	2	0.265	2	0.970
9222	C6H15NO	2-dimethylamino-2-methyl-1-propanol	7005-47-2	292.15	1	433.15	1	681.00	2	34.40	2	436.0	2	0.2688	2	0.265	2	0.970
9228	C6H15NO	4-amino-4-methyl-2-pentanol	4404-98-2	314.36	2	447.50	1	681.00	2	34.40	2	436.0	2	0.2688	2	0.265	2	0.970
9230	C6H15NO2	diisopropanolamine	110-97-4	318.15	1	521.90	1	672.00	1	36.00	1	454.0	2	0.2934	2	0.293	1,2	1.389
9239	C6H15NO3	triethanolamine	102-71-6	294.35	1	608.54	1	772.10	1	27.43	2	472.0	2	0.3161	2	0.202	1,2	1.284
9247	C6H15N3	N-aminoethyl piperazine	140-31-8	254.15	1	493.55	1	708.00	2	38.50	2	407.0	2	0.3175	2	0.266	2	0.557
9268	C6H15O4P	triethyl phosphate	78-40-0	216.65	1	488.15	1	757.00	2	68.40	2	586.0	2	0.3108	2	0.637	2	0.414
9292	C6H16N2	hexamethylenediamine	124-09-4	313.95	1	473.00	1	660.00	2	32.90	2	475.0	2	0.2446	2	0.285	2	0.635
9293	C6H16N2	N,N-diethyl-1,2-ethanediamine	100-36-7	266.05	2	417.15	1	663.00	2	38.10	2	408.4	2	0.2845	2	0.282	2	0.650
9294	C6H16N2	N,N'-diethyl-1,2-ethanediamine	111-74-0	266.05	2	419.15	1	663.00	2	38.10	2	408.4	2	0.2845	2	0.282	2	0.650
9295	C6H16N2	N,N,N',N'-tetramethyl-1,2-ethanediamine	110-18-9	218.05	1	394.15	1	569.00	2	28.20	2	443.0	2	0.2623	2	0.264	2	0.392
9297	C6H16N2	N-butylethylenediamine	19522-69-1	266.05	2	431.15	1	663.00	2	38.10	2	408.4	2	0.2845	2	0.282	2	0.650
9298	C6H16N2	1,5-diamino-2-methylpentane	15520-10-2	266.05	2	466.15	1	663.00	2	38.10	2	408.4	2	0.2845	2	0.282	2	0.650
9299	C6H16N2	N-isopropyl-1,3-propanediamine	3360-16-5	266.05	2	435.15	1	663.00	2	38.10	2	408.4	2	0.2845	2	0.282	2	0.650
9300	C6H16N2	N-propyl-1,3-propanediamine	23764-31-0	266.05	2	442.15	1	663.00	2	38.10	2	408.4	2	0.2845	2	0.282	2	0.650
9301	C6H16N2	N,N,N'-trimethyl-1,3-propanediamine	4543-96-8	266.05	2	414.15	1	663.00	2	38.10	2	408.4	2	0.2845	2	0.282	2	0.650
9302	C6H16N2	2-methyl-2,4-pentanediamine	21586-21-0	266.05	2	429.24	2	663.00	2	38.10	2	408.4	2	0.2845	2	0.282	2	0.650
9359	C6H18N4	triethylene tetramine	112-24-3	285.15	1	539.65	1	718.00	2	31.70	2	482.0	2	0.3034	2	0.256	2	0.974
9362	C6H18OSi2	hexamethyldisiloxane	107-46-0	204.93	1	373.67	1	518.70	1	19.14	1	601.0	2	0.2702	2	0.267	1,2	0.415
9366	C6H18O3Si3	hexamethylcyclotrisiloxane	541-05-9	337.15	1	408.26	1	554.20	2	16.63	2	634.0	2	0.3509	2	0.229	2	0.474
9378	C6H19NSi2	hexamethyldisilazane	999-97-3	---	---	399.15	1	544.00	2	19.20	2	613.0	2	0.2633	2	0.260	2	0.510
9508	C7H3ClF3NO2	4-chloro-3-nitrobenzotrifluoride	121-17-5	---	---	495.15	1	686.00	2	27.40	2	490.0	2	0.4603	2	0.235	2	0.607
9519	C7H3Cl2F3	2,4-dichlorobenzotrifluoride	320-60-5	247.55	1	450.65	1	646.00	2	28.10	2	443.0	2	0.4853	2	0.232	2	0.434
9527	C7H3Cl2NO	3,4-dichlorophenyl isocyanate	102-36-3	316.15	1	501.00	1	733.00	2	33.30	2	456.0	2	0.4123	2	0.249	2	0.335
9684	C7H4ClF3	p-chlorobenzotrifluoride	98-56-6	239.97	1	411.85	1	601.00	2	30.10	2	399.0	2	0.4525	2	0.240	2	0.372
9736	C7H4Cl2O	m-chlorobenzoyl chloride	618-46-2	280.00	1	498.00	1	724.00	2	36.80	2	406.0	2	0.4311	2	0.248	2	0.454
9799	C7H4F3NO2	3-nitrobenzotrifluoride	98-46-4	272.00	1	475.93	1	667.00	2	28.00	2	441.0	2	0.4334	2	0.223	2	0.536
9927	C7H5ClO	benzoyl chloride	98-88-4	272.65	1	470.15	1	697.00	2	40.60	2	367.0	2	0.3830	2	0.257	2	0.416
9932	C7H5ClO2	o-chlorobenzoic acid	118-91-2	415.15	1	560.15	1	792.00	2	40.30	2	383.0	2	0.4088	2	0.234	2	0.664
9967	C7H5Cl3	benzotrichloride	98-07-7	268.40	1	486.65	1	737.00	2	33.40	2	447.0	2	0.4373	2	0.244	2	0.260
9968	C7H5Cl3	1,2-dichloro-4-(chloromethyl)benzene	102-47-6	310.65	1	514.15	1	737.00	2	33.40	2	447.0	2	0.4373	2	0.244	2	0.260
9969	C7H5Cl3	1,3-dichloro-5-(chloromethyl)benzene	3290-06-0	309.15	1	483.65	2	737.00	2	33.40	2	447.0	2	0.4373	2	0.244	2	0.260
9970	C7H5Cl3	1,2,3-trichloro-4-methylbenzene	7359-72-0	316.65	1	517.15	1	737.00	2	33.40	2	447.0	2	0.4373	2	0.244	2	0.260
9971	C7H5Cl3	1,2,3-trichloro-5-methylbenzene	21472-86-6	318.65	1	519.15	1	737.00	2	33.40	2	447.0	2	0.4373	2	0.244	2	0.260
9972	C7H5Cl3	1,2,4-trichloro-5-methylbenzene	6639-30-1	355.55	1	504.15	1	737.00	2	33.40	2	447.0	2	0.4373	2	0.244	2	0.260
9973	C7H5Cl3	1,2,5-trichloro-3-methylbenzene	56961-86-5	318.65	1	503.15	1	737.00	2	33.40	2	447.0	2	0.4373	2	0.244	2	0.260
9974	C7H5Cl3	3-chlorobenzal chloride	15145-69-4	308.79	2	483.65	2	737.00	2	33.40	2	447.0	2	0.4373	2	0.244	2	0.260
9975	C7H5Cl3	2,6-dichlorobenzyl chloride	2014-83-7	310.65	1	391.15	1	737.00	2	33.40	2	447.0	2	0.4373	2	0.244	2	0.260
9976	C7H5Cl3	dichlorobenzyl chloride	38721-71-0	308.79	2	396.15	1	737.00	2	33.40	2	447.0	2	0.4373	2	0.244	2	0.260
9977	C7H5Cl3	2,4-dichlorobenzyl chloride	94-99-5	270.80	1	521.15	1	737.00	2	33.40	2	447.0	2	0.4373	2	0.244	2	0.260
9978	C7H5Cl3	2,3,6-trichlorotoluene	2077-46-5	308.79	2	483.65	2	737.00	2	33.40	2	447.0	2	0.4373	2	0.244	2	0.260
9979	C7H5Cl3	a-a-p-trichlorotoluene	13940-94-8	308.79	2	483.65	2	737.00	2	33.40	2	447.0	2	0.4373	2	0.244	2	0.260
10003	C7H5F3	benzotrifluoride	98-08-8	244.14	1	375.20	1	559.90	1	32.10	2	356.0	2	0.4104	2	0.245	1,2	0.300
10045	C7H5N	benzonitrile	100-47-0	260.40	1	464.15	1	699.35	1	42.15	1	313.2	1	0.3293	1	0.227	1	0.366
10049	C7H5NO	phenyl isocyanate	103-71-9	243.15	1	439.43	1	653.00	2	40.60	2	370.0	2	0.3220	2	0.277	2	0.412
10097	C7H5NS2	2(3H)-benzothiazolethione	149-30-4	453.15	1	496.15	1	749.00	2	40.00	2	406.0	2	0.4120	2	0.261	2	0.332
10118	C7H5N3O6	2,4,6-trinitrotoluene	118-96-7	354.00	1	625.00	2	828.00	2	30.40	2	572.0	2	0.3971	2	0.253	2	0.897
10127	C7H5N5O8	N-methyl-N,2,4,6-tetranitroaniline	479-45-8	402.65	1	650.00	2	828.00	2	26.10	2	665.0	2	0.4318	2	0.252	2	1.278
10252	C7H6Cl2	benzyl dichloride	98-87-3	257.00	1	487.00	1	731.00	2	36.50	2	404.0	2	0.3986	2	0.243	2	0.326
10253	C7H6Cl2	2,4-dichlorotoluene	95-73-8	259.65	1	474.25	1	705.00	2	35.90	2	404.0	2	0.3986	2	0.247	2	0.359
10254	C7H6Cl2	1-chloro-2-(chloromethyl)benzene	611-19-8	256.15	1	490.15	1	710.00	2	36.20	2	404.0	2	0.3986	2	0.248	2	0.343
10255	C7H6Cl2	1-chloro-3-(chloromethyl)benzene	620-20-2	276.42	2	489.15	1	710.00	2	36.20	2	404.0	2	0.3986	2	0.248	2	0.343
10256	C7H6Cl2	1-chloro-4-(chloromethyl)benzene	104-83-6	304.15	1	496.15	1	710.00	2	36.20	2	404.0	2	0.3986	2	0.248	2	0.343
10257	C7H6Cl2	2,3-dichlorotoluene	32768-54-0	279.15	1	480.65	1	710.00	2	36.20	2	404.0	2	0.3986	2	0.248	2	0.343
10258	C7H6Cl2	2,5-dichlorotoluene	19398-61-9	275.65	1	473.15	1	710.00	2	36.20	2	404.0	2	0.3986	2	0.248	2	0.343
10259	C7H6Cl2	2,6-dichlorotoluene	118-69-4	298.95	1	471.15	1	710.00	2	36.20	2	404.0	2	0.3986	2	0.248	2	0.343
10260	C7H6Cl2	3,4-dichlorotoluene	95-75-0	257.95	1	482.05	1	710.00	2	36.20	2	404.0	2	0.3986	2	0.248	2	0.343
10261	C7H6Cl2	3,5-dichlorotoluene	25186-47-4	299.15	1	474.65	1	710.00	2	36.20	2	404.0	2	0.3986	2	0.248	2	0.343
10363	C7H6N2O4	2,4-dinitrotoluene	121-14-2	342.65	1	590.00	1	814.00	2	34.00	2	487.0	2	0.3740	2	0.245	2	0.713
10364	C7H6N2O4	2,5-dinitrotoluene	619-15-8	323.48	1	590.00	1	814.00	2	34.00	2	472.0	2	0.3859	2	0.237	2	0.712
10365	C7H6N2O4	2,6-dinitrotoluene	606-20-2	337.85	1	558.00	1	770.00	2	34.00	2	455.0	2	0.4003	2	0.242	2	0.714
10366	C7H6N2O4	3,4-dinitrotoluene	610-39-9	331.45	1	610.00	1	842.00	2	34.00	2	487.0	2	0.3740	2	0.237	2	0.709
10367	C7H6N2O4	3,5-dinitrotoluene	618-85-9	365.65	1	588.00	1	814.00	2	34.00	2	473.0	2	0.3851	2	0.238	2	0.702
10404	C7H6O	benzaldehyde	100-52-7	216.02	1	451.90	1	695.00	1	46.50	2	324.0	2	0.3275	2	0.261	1,2	0.313
10408	C7H6O2	benzoic acid	65-85-0	395.52	1	522.40	1	751.00	2	44.70	2	344.0	2	0.3550	2	0.246	2	0.603
10409	C7H6O2	p-hydroxybenzaldehyde	123-08-0	390.15	1	583.15	1	844.00	2	49.90	2	361.0	2	0.3383	2	0.257	2	0.617
10410	C7H6O2	salicylaldehyde	90-02-8	274.75	1	469.65	1	680.00	2	49.90	2	342.0	2	0.3571	2	0.302	2	0.619
10420	C7H6O3	salicylic acid	69-72-7	431.75	1	529.00	1	739.00	2	51.80	2	364.0	2	0.3795	2	0.307	2	0.832
10462	C7H7Br	p-bromotoluene	106-38-7	299.95	1	457.50	1	699.00	2	43.70	2	379.0	2	0.4513	2	0.285	2	0.318
10463	C7H7Br	(bromomethyl)benzene	100-39-0	271.65	1	474.15	1	699.00	2	43.70	2	379.0	2	0.4513	2	0.285	2	0.318
10464	C7H7Br	o-bromotoluene	95-46-5	245.35	1	454.85	1	699.00	2	43.70	2	379.0	2	0.4513	2	0.285	2	0.318
10465	C7H7Br	m-bromotoluene	591-17-3	233.35	1	456.85	1	699.00	2	43.70	2	379.0	2	0.4513	2	0.285	2	0.318
10492	C7H7Cl	benzyl chloride	100-44-7	234.15	1	452.55	1	686.00	2	39.10	2	360.0	2	0.3516	2	0.247	2	0.314
10493	C7H7Cl	o-chlorotoluene	95-49-8	236.65	1	432.30	1	656.00	2	39.10	2	354.0	2	0.3576	2	0.254	2	0.304
10494	C7H7Cl	p-chlorotoluene	106-43-4	280.65	1	435.65	1	660.00	2	39.10	2	360.0	2	0.3516	2	0.257	2	0.312
10495	C7H7Cl	m-chlorotoluene	108-41-8	225.35	1	435.45	1	660.18	2	38.53	2	368.5	2	0.3435	2	0.259	2	0.318

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
10555	C7H7F	p-fluorotoluene	352-32-9	216.36	1	389.76	1	590.48	2	38.15	2	337.5	2	0.3263	2	0.262	2	0.311
10556	C7H7F	(fluoromethyl)benzene	350-50-5	238.15	1	413.15	1	590.48	2	38.15	2	337.5	2	0.3263	2	0.262	2	0.311
10557	C7H7F	o-fluorotoluene	95-52-3	211.15	1	388.15	1	590.48	2	38.15	2	337.5	2	0.3263	2	0.262	2	0.311
10558	C7H7F	m-fluorotoluene	352-70-5	186.15	1	388.15	1	590.48	2	38.15	2	337.5	2	0.3263	2	0.262	2	0.311
10611	C7H7NO	formanilide	103-70-8	323.15	1	544.15	1	787.00	2	41.10	2	382.0	2	0.3171	2	0.240	2	0.545
10614	C7H7NO	benzamide	55-21-0	403.00	1	563.15	1	824.00	2	50.50	2	346.0	2	0.3501	2	0.255	2	0.559
10626	C7H7NO2	m-nitrotoluene	99-08-1	289.20	1	505.00	1	734.00	2	38.00	2	441.0	2	0.3110	2	0.275	2	0.492
10627	C7H7NO2	o-nitrotoluene	88-72-2	269.98	1	495.64	1	720.00	2	38.00	2	441.0	2	0.3110	2	0.280	2	0.482
10628	C7H7NO2	p-nitrotoluene	99-99-0	324.75	1	511.65	1	743.00	2	32.07	2	441.0	2	0.3110	2	0.229	2	0.425
10660	C7H7NO3	o-nitroanisole	91-23-6	283.60	1	546.15	1	782.00	2	37.60	2	422.0	2	0.3629	2	0.244	2	0.561
10724	C7H8	1,3,5-cycloheptatriene	544-25-2	193.66	1	388.65	1	593.90	1	43.34	2	311.5	2	0.2958	2	0.273	1,2	0.324
10725	C7H8	toluene	108-88-3	178.18	1	383.78	1	591.75	1	41.08	1	316.0	1	0.2916	1	0.264	1	0.264
10766	C7H8Cl2Si	dichloromethylphenylsilane	149-74-6	229.65	1	477.35	1	689.00	2	28.70	2	508.0	2	0.3762	2	0.255	2	0.402
10850	C7H8O	anisole	100-66-3	235.65	1	426.73	1	645.60	1	42.50	1	337.0	2	0.3209	2	0.267	1,2	0.350
10851	C7H8O	benzyl alcohol	100-51-6	257.85	1	477.85	1	720.15	1	45.50	2	335.0	2	0.3228	2	0.255	1,2	0.367
10852	C7H8O	m-cresol	108-39-4	285.39	1	475.43	1	705.85	1	45.60	1	312.0	1	0.3466	1	0.242	1	0.448
10853	C7H8O	o-cresol	95-48-7	304.19	1	464.15	1	697.55	1	50.06	1	282.0	1	0.3835	1	0.243	1	0.434
10854	C7H8O	p-cresol	106-44-5	307.93	1	475.13	1	704.65	1	51.50	1	277.0	1	0.3904	1	0.244	1	0.513
10855	C7H8O	cresol mixture	1319-77-3	296.35	1	470.15	1	702.68	2	49.05	2	290.3	2	0.3735	2	0.244	2	0.465
10866	C7H8O2	guaiacol	90-05-1	304.65	1	478.15	1	697.00	2	47.30	2	353.0	2	0.3517	2	0.288	2	0.571
10867	C7H8O2	p-methoxyphenol	150-76-5	328.65	1	517.85	1	761.00	2	49.70	2	342.0	2	0.3630	2	0.269	2	0.536
10868	C7H8O2	1,2-dihydroxy-3-methylbenzene	488-17-5	341.15	1	521.15	1	776.37	2	61.32	2	187.5	2	0.6621	2	0.178	2	0.565
10869	C7H8O2	1,2-dihydroxy-4-methylbenzene	452-86-8	338.15	1	531.15	1	791.27	2	61.32	2	187.5	2	0.6621	2	0.175	2	0.565
10870	C7H8O2	1,3-dihydroxy-2-methylbenzene	608-25-3	393.15	1	538.15	1	801.70	2	61.32	2	187.5	2	0.6621	2	0.173	2	0.565
10871	C7H8O2	1,3-dihydroxy-4-methylbenzene	496-73-1	378.15	1	543.15	1	809.15	2	61.32	2	187.5	2	0.6621	2	0.171	2	0.565
10872	C7H8O2	1,3-dihydroxy-5-methylbenzene	504-15-4	380.15	1	560.15	1	834.47	2	61.32	2	187.5	2	0.6621	2	0.166	2	0.565
10873	C7H8O2	1,4-dihydroxy-2-methylbenzene	95-71-6	398.15	1	556.15	1	828.51	2	61.32	2	187.5	2	0.6621	2	0.167	2	0.565
10914	C7H8O3S	2-methylbenzenesulfonic acid	88-20-0	340.65	1	552.15	2	---	---	---	---	438.0	2	0.3932	2	---	---	---
10918	C7H8S	o-methylthiophenol	137-06-4	288.15	1	467.35	1	714.96	2	43.86	2	373.5	2	0.3325	2	0.276	2	0.329
10919	C7H8S	m-methylthiophenol	108-40-7	253.15	1	468.25	1	716.34	2	43.86	2	373.5	2	0.3325	2	0.275	2	0.329
10920	C7H8S	p-methylthiophenol	106-45-6	317.15	1	468.05	1	716.03	2	43.86	2	373.5	2	0.3325	2	0.275	2	0.329
10921	C7H8S	methyl phenyl sulfide	100-68-5	116.90	2	466.15	1	710.76	2	42.06	2	373.5	2	0.3325	2	0.266	2	0.327
10922	C7H8S	benzenemethanethiol	100-53-8	243.95	1	468.15	1	712.00	2	40.60	2	367.0	2	0.3384	2	0.252	2	0.299
10953	C7H9N	benzylamine	100-46-9	227.15	1	457.65	1	684.00	2	43.20	2	373.0	2	0.2873	2	0.283	2	0.401
10954	C7H9N	N-methylaniline	100-61-8	216.15	1	469.02	1	701.55	1	52.00	1	373.0	2	0.2873	2	0.333	1,2	0.475
10955	C7H9N	m-toluidine	108-44-1	241.90	1	476.52	1	707.00	2	42.80	2	333.0	2	0.3218	2	0.242	2	0.435
10956	C7H9N	o-toluidine	95-53-4	256.80	1	473.49	1	716.50	1	47.00	2	347.6	1	0.3083	1	0.274	1,2	0.384
10957	C7H9N	p-toluidine	106-49-0	316.90	1	473.57	1	693.15	1	40.00	1	346.0	2	0.3097	2	0.240	1,2	0.472
10958	C7H9N	2,3-dimethylpyridine	583-61-9	257.95	1	434.35	1	655.40	1	40.90	2	367.0	2	0.2920	2	0.275	1,2	0.358
10959	C7H9N	2,4-dimethylpyridine	108-47-4	209.25	1	431.55	1	647.00	1	38.70	2	367.0	2	0.2920	2	0.264	1,2	0.364
10960	C7H9N	2,5-dimethylpyridine	589-93-5	257.65	1	430.15	1	644.20	1	39.80	2	367.0	2	0.2920	2	0.273	1,2	0.379
10961	C7H9N	2,6-dimethylpyridine	108-48-5	267.00	1	417.20	1	623.75	1	37.50	2	373.0	2	0.2873	2	0.270	1,2	0.345
10962	C7H9N	3,4-dimethylpyridine	583-58-4	262.15	1	452.25	1	683.80	1	40.90	2	367.0	2	0.2920	2	0.264	1,2	0.350
10963	C7H9N	3,5-dimethylpyridine	591-22-0	266.65	1	445.05	1	667.20	1	38.70	2	367.0	2	0.2920	2	0.256	1,2	0.364
10964	C7H9N	2-ethylpyridine	100-71-0	210.05	1	422.55	1	636.20	2	39.80	2	367.0	2	0.2920	2	0.276	2	0.357
10965	C7H9N	3-ethylpyridine	536-78-7	196.25	1	440.15	1	657.70	2	39.80	2	367.0	2	0.2920	2	0.267	2	0.388
10966	C7H9N	4-ethylpyridine	536-75-4	182.65	1	442.35	1	668.20	2	39.80	2	367.0	2	0.2920	2	0.263	2	0.344
11047	C7H10	2-norbornene	498-66-8	319.40	1	368.65	1	583.00	2	39.30	2	337.0	2	0.2794	2	0.273	2	0.159
11049	C7H10	1-hepten-3-yne	2384-73-8	---	---	383.15	1	545.00	2	36.00	2	326.7	2	0.2882	2	0.260	2	---
11050	C7H10	3-ethyl-3-penten-1-yne	14272-54-9	---	---	369.65	1	545.00	2	36.00	2	326.7	2	0.2882	2	0.260	2	---
11056	C7H10	2-methyl-1-hexen-3-yne	23056-94-2	---	---	389.65	1	545.00	2	36.00	2	326.7	2	0.2882	2	0.260	2	---
11057	C7H10	1-methyl-1,3-cyclohexadiene	1489-56-1	---	---	371.20	1	545.00	2	36.00	2	326.7	2	0.2882	2	0.260	2	---
11079	C7H10N2	m-toluenediamine	95-80-7	371.25	1	557.15	1	804.00	2	43.80	2	376.0	2	0.3249	2	0.246	2	0.579
11080	C7H10N2	2-methyl-1,3-benzenediamine	823-40-5	376.65	1	557.00	2	804.00	2	43.80	2	430.0	2	0.2841	2	0.282	2	0.580
11138	C7H10O	3-cyclohexene-1-carboxaldehyde	100-50-5	177.05	1	437.15	1	655.00	2	40.30	2	345.0	2	0.3193	2	0.255	2	0.364
11147	C7H10O	2-ethyl-5-methylfuran	1703-52-2	---	---	391.65	1	580.00	2	38.70	2	338.2	2	0.3257	2	0.271	2	---
11151	C7H10O	2-propylfuran	4229-91-8	---	---	387.15	1	580.00	2	38.70	2	338.2	2	0.3257	2	0.271	2	---
11163	C7H10O2	allyl methacrylate	96-05-9	---	---	412.65	1	600.00	2	30.20	2	415.0	2	0.3040	2	0.251	2	0.388
11225	C7H10S	2-propylthiophene	1551-27-5	252.35	2	431.65	1	649.23	2	37.82	2	387.5	2	0.3257	2	0.272	2	0.342
11226	C7H10S	3-propylthiophene	1518-75-8	252.35	2	434.15	1	652.99	2	37.82	2	387.5	2	0.3257	2	0.270	2	0.342
11227	C7H10S	2-isopropylthiophene	4095-22-1	252.35	2	426.15	1	640.96	2	37.82	2	387.5	2	0.3257	2	0.275	2	0.342
11228	C7H10S	3-isopropylthiophene	29488-27-5	237.35	2	430.15	1	652.61	2	38.20	2	381.5	2	0.3309	2	0.269	2	0.312
11229	C7H10S	2-methyl-3-ethylthiophene	53119-51-0	235.98	2	430.15	1	645.99	2	37.13	2	387.5	2	0.3257	2	0.268	2	0.342
11230	C7H10S	2-methyl-4-ethyl thiophene	13678-54-1	214.15	1	436.15	1	655.00	2	37.13	2	387.5	2	0.3257	2	0.264	2	0.342
11231	C7H10S	2-methyl-5-ethyl thiophene	40323-88-4	204.65	1	433.25	1	650.65	2	37.13	2	387.5	2	0.3257	2	0.266	2	0.342
11232	C7H10S	3-methyl-2-ethylthiophene	31805-48-8	235.98	2	434.15	1	652.00	2	37.13	2	387.5	2	0.3257	2	0.265	2	0.342
11233	C7H10S	3-methyl-4-ethyl thiophene	---	235.98	2	438.65	1	641.79	2	37.13	2	387.5	2	0.3257	2	0.270	2	0.342
11234	C7H10S	3-methyl-5-ethylthiophene	---	235.98	2	427.35	2	641.79	2	37.13	2	382.5	2	0.3300	2	0.266	2	0.342
11235	C7H10S	2,3,4-trimethylthiophene	1795-04-6	246.95	1	445.85	1	654.54	2	36.47	2	383.0	2	0.3296	2	0.257	2	0.431
11236	C7H10S	2,3,5-trimethylthiophene	1795-05-7	219.61	2	437.65	1	656.26	2	36.47	2	382.5	2	0.3300	2	0.256	2	0.341
11267	C7H11N	3-ethyl-4-methyl-1H-pyrrole	488-92-6	274.65	1	438.90	2	650.00	2	40.50	2	350.3	2	0.3116	2	0.263	2	---
11268	C7H11N	2-isopropylpyrrole	7696-51-7	274.65	2	445.15	1	650.00	2	40.50	2	350.3	2	0.3116	2	0.263	2	---
11269	C7H11N	1-propyl-1H-pyrrole	5145-64-2	274.65	2	418.65	1	650.00	2	40.50	2	350.3	2	0.3116	2	0.263	2	---
11270	C7H11N	3-propyl-1H-pyrrole	1551-09-3	274.65	2	438.90	2	650.00	2	40.50	2	350.3	2	0.3116	2	0.263	2	---
11271	C7H11N	1,2,5-trimethyl-1H-pyrrole	930-87-0	274.65	2	444.15	1	650.00	2	40.50	2	350.3	2	0.3116	2	0.263	2	---
11275	C7H11NO	cyclohexyl isocyanate	3173-53-3	193.15	1	442.15	1	633.00	2	34.70	2	408.0	2	0.3068	2	0.269	2	0.525
11323	C7H12	1-ethylcyclopentene	2146-38-5	154.75	1	379.48	1	578.40	2	35.69	2	354.5	2	0.2713	2	0.263	2	0.270
11324	C7H12	3-ethylcyclopentene	694-35-9	144.24	2	370.92	1	565.35	2	35.69	2	354.5	2	0.2713	2	0.269	2	0.270
11325	C7H12	4-ethylcyclopentene	3742-38-9	144.24	2	371.36	1	566.02	2	35.69	2	354.5	2	0.2713	2	0.269	2	0.270
11326	C7H12	1,2-dimethylcyclopentene	765-47-9	182.75	1	378.95	1	579.44	2	34.32	2	353.5	2	0.2721	2	0.252	2	0.245

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
11327	C7H12	1,3-dimethylcyclopentene	62184-82-1	127.87	2	365.15	1	558.34	2	34.32	2	353.5	2	0.2721	2	0.261	2	0.245
11328	C7H12	1,4-dimethylcyclopentene	19550-48-2	127.87	2	366.35	1	560.17	2	34.32	2	353.5	2	0.2721	2	0.260	2	0.245
11329	C7H12	1,5-dimethylcyclopentene	16491-15-9	155.15	1	375.15	1	573.63	2	34.32	2	353.5	2	0.2721	2	0.254	2	0.245
11330	C7H12	3,3-dimethylcyclopentene	58049-91-5	127.87	2	361.15	1	559.35	2	37.68	2	352.5	2	0.2728	2	0.286	2	0.232
11331	C7H12	3,cis-4-dimethylcyclopentene	56039-55-5	127.87	2	364.55	2	557.42	2	34.32	2	353.5	2	0.2721	2	0.262	2	0.245
11332	C7H12	3,trans-4-dimethylcyclopentene	53225-40-4	127.87	2	364.55	2	557.42	2	34.32	2	353.5	2	0.2721	2	0.262	2	0.245
11333	C7H12	3,cis-5-dimethylcyclopentene	30213-29-7	127.87	2	364.55	2	557.42	2	34.32	2	353.5	2	0.2721	2	0.262	2	0.245
11334	C7H12	3,trans-5-dimethylcyclopentene	61394-27-2	127.87	2	364.55	2	557.42	2	34.32	2	353.5	2	0.2721	2	0.262	2	0.245
11335	C7H12	4,4-dimethylcyclopentene	19037-72-0	127.87	2	361.15	1	559.35	2	37.68	2	352.5	2	0.2728	2	0.286	2	0.232
11336	C7H12	1-methylcyclohexene	591-49-1	153.75	1	383.45	1	590.94	2	36.78	2	346.5	2	0.2776	2	0.259	2	0.241
11337	C7H12	3-methylcyclohexene	591-48-0	149.64	1	375.62	1	578.88	2	36.78	2	346.5	2	0.2776	2	0.265	2	0.241
11338	C7H12	4-methylcyclohexene	591-47-9	157.74	1	375.89	1	579.30	2	36.78	2	346.5	2	0.2776	2	0.265	2	0.241
11339	C7H12	3-methylcyclohexene, (±)	56688-75-6	157.65	1	377.15	1	583.04	2	36.78	2	346.5	2	0.2776	2	0.263	2	0.241
11340	C7H12	1-heptyne	628-71-7	192.26	1	372.93	1	559.00	2	31.40	2	386.0	2	0.2492	2	0.261	2	0.273
11341	C7H12	2-heptyne	1119-65-9	274.25	2	385.15	1	581.90	2	33.41	2	389.5	2	0.2469	2	0.269	2	0.279
11342	C7H12	3-heptyne	2586-89-2	142.65	1	380.31	1	574.59	2	33.41	2	389.5	2	0.2469	2	0.272	2	0.279
11343	C7H12	3-methyl-1-hexyne	40276-93-5	200.12	2	358.15	1	542.27	2	33.26	2	383.5	2	0.2508	2	0.283	2	0.270
11344	C7H12	4-methyl-1-hexyne	52713-81-2	200.12	2	364.15	1	551.35	2	33.26	2	383.5	2	0.2508	2	0.278	2	0.270
11345	C7H12	5-methyl-1-hexyne	2203-80-7	149.15	1	365.00	1	552.64	2	33.26	2	383.5	2	0.2508	2	0.278	2	0.270
11346	C7H12	4-methyl-2-hexyne	20198-49-6	165.55	1	372.69	1	568.05	2	33.72	2	383.5	2	0.2508	2	0.274	2	0.250
11347	C7H12	5-methyl-2-hexyne	53566-37-3	180.25	1	375.61	1	572.50	2	33.72	2	383.5	2	0.2508	2	0.272	2	0.250
11348	C7H12	2-methyl-3-hexyne	36566-80-0	156.55	1	368.35	1	561.44	2	33.72	2	383.5	2	0.2508	2	0.277	2	0.250
11349	C7H12	3-ethyl-1-pentyne	21020-26-8	200.12	2	357.15	1	540.76	2	33.26	2	383.5	2	0.2508	2	0.284	2	0.270
11350	C7H12	3,3-dimethyl-1-pentyne	918-82-1	217.54	2	343.15	1	528.91	2	33.68	2	378.5	2	0.2541	2	0.290	2	0.210
11351	C7H12	3,4-dimethyl-1-pentyne	61064-08-2	185.12	2	353.15	1	539.46	2	33.57	2	377.5	2	0.2548	2	0.283	2	0.241
11352	C7H12	4,4-dimethyl-1-pentyne	13361-63-2	198.15	1	349.23	1	538.28	2	33.68	2	378.5	2	0.2541	2	0.285	2	0.210
11353	C7H12	4,4-dimethyl-2-pentyne	999-78-0	190.75	1	356.15	1	552.81	2	34.16	2	378.5	2	0.2541	2	0.281	2	0.191
11356	C7H12	cycloheptene	628-92-2	217.15	1	387.50	1	598.00	2	40.10	2	336.0	2	0.2862	2	0.271	2	0.252
11358	C7H12	1,2-heptadiene	2384-90-9	167.48	2	378.65	1	556.00	2	34.50	2	347.8	2	0.2765	2	0.260	2	---
11359	C7H12	1,4-heptadiene	5675-22-9	167.48	2	366.15	1	556.00	2	34.50	2	347.8	2	0.2765	2	0.260	2	---
11360	C7H12	1,5-heptadiene	1541-23-7	167.48	2	367.15	1	556.00	2	34.50	2	347.8	2	0.2765	2	0.260	2	---
11361	C7H12	1,6-heptadiene	3070-53-9	167.48	2	370.15	2	556.00	2	34.50	2	347.8	2	0.2765	2	0.260	2	---
11362	C7H12	2,4-heptadiene	628-72-8	167.48	2	381.15	1	556.00	2	34.50	2	347.8	2	0.2765	2	0.260	2	---
11363	C7H12	2-methyl-1,5-hexadiene	4049-81-4	144.35	1	361.25	1	556.00	2	34.50	2	347.8	2	0.2765	2	0.260	2	---
11364	C7H12	2-methyl-2,4-hexadiene	28823-41-8	198.95	1	384.65	1	556.00	2	34.50	2	347.8	2	0.2765	2	0.260	2	---
11365	C7H12	2,4-dimethyl-1,3-pentadiene	1000-86-8	159.15	1	366.35	1	556.00	2	34.50	2	347.8	2	0.2765	2	0.260	2	---
11369	C7H12	2,4-dimethyl-2,3-pentadiene	1000-87-9	167.48	2	358.55	1	556.00	2	34.50	2	347.8	2	0.2765	2	0.260	2	---
11413	C7H12O	2-heptenal	2463-63-0	---	---	439.15	1	610.00	2	33.00	2	358.0	2	0.3133	2	0.233	2	---
11414	C7H12O	3-heptenal	89896-73-1	---	---	424.15	1	610.00	2	33.00	2	358.0	2	0.3133	2	0.233	2	---
11415	C7H12O	1-hepten-3-one	2918-13-0	205.00	2	427.35	2	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11416	C7H12O	4-hepten-2-one	24332-22-7	---	---	427.35	2	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11417	C7H12O	6-hepten-2-one	21889-88-3	---	---	418.15	1	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11418	C7H12O	6-hepten-3-one	2565-39-1	---	---	415.15	1	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11419	C7H12O	cis-3-hepten-2-one	69668-88-8	---	---	427.35	2	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11420	C7H12O	trans-3-hepten-2-one	5609-09-6	---	---	427.15	1	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11421	C7H12O	trans-5-hepten-2-one	1071-94-9	---	---	426.15	1	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11422	C7H12O	2-methyl-4-hexen-3-one	53252-19-0	---	---	421.15	1	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11423	C7H12O	3-methyl-5-hexen-2-one	2550-22-3	---	---	410.15	1	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11424	C7H12O	4-methyl-5-hexen-2-one	61675-14-7	---	---	410.65	1	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11425	C7H12O	5-methyl-1-hexen-3-one	2177-32-4	---	---	427.35	2	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11426	C7H12O	5-methyl-3-hexen-2-one	5166-53-0	---	---	427.35	2	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11427	C7H12O	5-methyl-4-hexen-2-one	28332-44-7	---	---	425.15	1	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11428	C7H12O	5-methyl-5-hexen-2-one	3240-09-3	---	---	423.15	1	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11429	C7H12O	2-methylcyclohexanone, (±)	24965-84-2	259.25	1	438.15	1	650.00	2	35.50	2	377.6	2	0.2971	2	0.248	2	---
11430	C7H12O	3-methylcyclohexanone, (±)	625-96-7	199.65	1	442.15	1	650.00	2	35.50	2	377.6	2	0.2971	2	0.248	2	---
11431	C7H12O	4-methylcyclohexanone	589-92-4	232.55	1	443.15	1	650.00	2	35.50	2	377.6	2	0.2971	2	0.248	2	---
11433	C7H12O	2,2-dimethyl-4-pentenal	5497-67-6	---	---	397.65	1	610.00	2	33.00	2	358.0	2	0.3133	2	0.233	2	---
11436	C7H12O	trans-2-heptenal	18829-55-5	---	---	427.35	2	610.00	2	33.00	2	358.0	2	0.3133	2	0.233	2	---
11437	C7H12O	(Z)-hept-4-enal	6728-31-0	---	---	427.35	2	610.00	2	33.00	2	358.0	2	0.3133	2	0.233	2	---
11439	C7H12O	methylcyclohexanone	1331-22-2	255.45	1	438.15	1	650.00	2	35.50	2	377.6	2	0.2971	2	0.248	2	---
11440	C7H12O	(R)-(+)-3-methylcyclohexanone	13368-65-5	233.12	2	441.70	1	650.00	2	35.50	2	377.6	2	0.2971	2	0.248	2	---
11441	C7H12O	2-methylcyclohexanone	583-60-8	260.10	1	436.70	1	650.00	2	35.50	2	377.6	2	0.2971	2	0.248	2	---
11442	C7H12O	3-methylcyclohexanone	591-24-2	191.70	1	442.65	1	650.00	2	35.50	2	377.6	2	0.2971	2	0.248	2	---
11445	C7H12O	(Z)-5-hepten-2-one	4535-61-9	---	---	422.70	1	615.00	2	35.60	2	391.3	2	0.2867	2	0.272	2	---
11446	C7H12O	(S)-3-methylcyclohexanone	24965-87-5	233.12	2	439.20	1	650.00	2	35.50	2	377.6	2	0.2971	2	0.248	2	---
11450	C7H12O2	butyl acrylate	141-32-2	208.55	1	420.55	1	598.00	2	29.10	2	428.0	2	0.2995	2	0.251	2	0.482
11450.1	C7H12O2	sec-butyl acrylate	2998-08-5	210.85	1	404.15	1	580.00	2	29.70	2	429.0	2	0.2988	2	0.264	2	0.442
11451	C7H12O2	isobutyl acrylate	106-63-8	212.00	1	410.00	1	587.00	2	29.50	2	433.0	2	0.2960	2	0.262	2	0.455
11452	C7H12O2	propyl methacrylate	2210-28-8	188.00	2	414.00	1	599.00	2	29.10	2	428.0	2	0.2995	2	0.250	2	0.397
11453	C7H12O2	isopropyl methacrylate	4655-34-9	210.85	2	398.15	1	592.33	2	28.30	2	428.0	2	0.2995	2	0.246	2	0.432
11454	C7H12O2	allyl butanoate	2051-78-7	210.85	2	415.15	1	592.33	2	28.30	2	428.0	2	0.2995	2	0.246	2	0.432
11456	C7H12O2	cyclohexyl formate	4351-54-6	210.00	2	435.65	1	645.00	2	35.20	2	384.0	2	0.3338	2	0.252	2	0.368
11458	C7H12O2	cyclopentaneacetic acid	1123-00-8	286.65	1	501.15	1	708.00	2	36.20	2	410.0	2	0.3126	2	0.252	2	0.614
11466	C7H12O2	2,2-dimethyl-4-pentenoic acid	16386-93-9	263.90	2	490.00	2	716.00	2	29.00	2	451.8	2	0.2837	2	0.220	2	---
11467	C7H12O2	2-heptenoic acid	18999-28-5	254.15	1	499.65	1	716.00	2	29.00	2	451.8	2	0.2837	2	0.220	2	---
11468	C7H12O2	4-heptenoic acid	35194-37-7	263.90	2	490.00	2	716.00	2	29.00	2	451.8	2	0.2837	2	0.220	2	---
11469	C7H12O2	5-heptenoic acid	3593-00-8	263.90	2	496.15	1	716.00	2	29.00	2	451.8	2	0.2837	2	0.220	2	---
11470	C7H12O2	6-heptenoic acid	1119-60-4	266.65	1	499.15	1	716.00	2	29.00	2	451.8	2	0.2837	2	0.220	2	---
11471	C7H12O2	2-methyl-3-hexenoic acid	73513-50-5	263.90	2	490.00	2	716.00	2	29.00	2	451.8	2	0.2837	2	0.220	2	---
11472	C7H12O2	3-methyl-3-hexenoic acid	35205-71-1	263.90	2	490.00	2	716.00	2	29.00	2	451.8	2	0.2837	2	0.220	2	---

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
11473	C7H12O2	4-methyl-2-hexenoic acid	37549-83-0	263.90	2	490.00	2	716.00	2	29.00	2	451.8	2	0.2837	2	0.220	2	---
11474	C7H12O2	4-methyl-3-hexenoic acid	55665-79-7	263.90	2	490.00	2	716.00	2	29.00	2	451.8	2	0.2837	2	0.220	2	---
11475	C7H12O2	5-methyl-2-hexenoic acid	41653-96-7	289.65	1	499.65	1	716.00	2	29.00	2	451.8	2	0.2837	2	0.220	2	---
11476	C7H12O2	5-methyl-4-hexenoic acid	5636-65-7	245.15	1	490.15	1	716.00	2	29.00	2	451.8	2	0.2837	2	0.220	2	---
11477	C7H12O2	trans-2-methyl-2-hexenoic acid	97961-66-5	263.90	2	478.15	1	716.00	2	29.00	2	451.8	2	0.2837	2	0.220	2	---
11480	C7H12O2	ethyl 3-methyl-2-butenoate	638-10-8	210.85	2	426.65	1	592.33	2	28.30	2	428.0	2	0.2995	2	0.246	2	0.432
11481	C7H12O2	ethyl trans-2-methyl-2-butenoate	5837-78-5	210.85	2	429.15	1	592.33	2	28.30	2	428.0	2	0.2995	2	0.246	2	0.432
11483	C7H12O2	methyl 3-hexenoate	2396-78-3	210.85	2	447.69	2	592.33	2	28.30	2	428.0	2	0.2995	2	0.246	2	0.432
11484	C7H12O2	methyl 2-methyl-2-pentenoate	10478-12-3	210.85	2	447.69	2	592.33	2	28.30	2	428.0	2	0.2995	2	0.246	2	0.432
11485	C7H12O2	methyl 3-methyl-3-pentenoate	2258-58-4	210.85	2	447.69	2	592.33	2	28.30	2	428.0	2	0.2995	2	0.246	2	0.432
11486	C7H12O2	methyl cis-3-methyl-2-pentenoate	17447-00-6	210.85	2	447.69	2	592.33	2	28.30	2	428.0	2	0.2995	2	0.246	2	0.432
11487	C7H12O2	methyl trans-3-methyl-2-pentenoate	17447-01-7	210.85	2	424.15	1	592.33	2	28.30	2	428.0	2	0.2995	2	0.246	2	0.432
11488	C7H12O2	tert-butyl acrylate	1663-39-4	210.85	2	447.69	2	592.33	2	28.30	2	428.0	2	0.2995	2	0.246	2	0.432
11491	C7H12O2	methyl trans-2-methyl-2-pentenoate	1567-14-2	210.85	2	447.69	2	592.33	2	28.30	2	428.0	2	0.2995	2	0.246	2	0.432
11492	C7H12O2	4-pentenyl acetate	1576-85-8	210.85	2	418.15	1	592.33	2	28.30	2	428.0	2	0.2995	2	0.246	2	0.432
11493	C7H12O2	vinyl pivalate	3377-92-2	195.15	1	383.35	1	556.00	2	29.50	2	423.0	2	0.3030	2	0.270	2	0.391
11497	C7H12O2	3,3-dimethylallyl acetate	1191-16-8	210.85	2	447.69	2	592.33	2	28.30	2	428.0	2	0.2995	2	0.246	2	0.432
11500	C7H12O2	cis-3-hexenyl formate	33467-73-1	210.85	2	447.69	2	592.33	2	28.30	2	428.0	2	0.2995	2	0.246	2	0.432
11515	C7H12O3	1,2-propanediol 1-methacrylate	923-26-2	---	---	485.00	2	663.00	2	31.40	2	446.0	2	0.3233	2	0.254	2	0.754
11530	C7H12O4	diethyl malonate	105-53-3	224.25	1	472.05	1	653.00	2	27.80	2	469.0	2	0.3415	2	0.240	2	0.616
11537	C7H12O4	heptanedioic acid	111-16-0	379.15	1	615.25	1	805.00	2	31.40	2	469.0	2	0.3415	2	0.220	2	1.116
11569	C7H13Br	cis-1-bromo-1-heptene	39924-57-7	175.15	1	436.15	1	630.55	2	31.96	2	469.5	2	0.3772	2	0.286	2	0.447
11570	C7H13Br	trans-1-bromo-1-heptene	53434-74-5	175.15	1	436.15	1	630.55	2	31.96	2	469.5	2	0.3772	2	0.286	2	0.447
11586	C7H13Br3	1,1,1-tribromoheptane	62127-64-4	349.97	2	537.15	1	756.89	2	36.12	2	602.5	2	0.5592	2	0.346	2	0.632
11587	C7H13Cl	cis-1-chloro-1-heptene	53268-66-9	192.99	2	423.15	1	613.52	2	28.44	2	456.5	2	0.2905	2	0.255	2	0.385
11588	C7H13Cl	trans-1-chloro-1-heptene	53268-67-0	192.99	2	423.15	1	613.52	2	28.44	2	456.5	2	0.2905	2	0.255	2	0.385
11589	C7H13Cl	1-chloro-1-heptene	2384-75-0	192.99	2	428.15	1	613.52	2	28.44	2	456.5	2	0.2905	2	0.255	2	0.385
11590	C7H13Cl	2-chloro-1-heptene	65786-11-0	192.99	2	412.15	1	613.52	2	28.44	2	456.5	2	0.2905	2	0.255	2	0.385
11591	C7H13Cl	4-chloro-3-heptene	2431-24-5	192.99	2	412.15	1	613.52	2	28.44	2	456.5	2	0.2905	2	0.255	2	0.385
11612	C7H13Cl3	1,1,1-trichloroheptane	3922-26-7	260.33	2	476.15	1	676.24	2	25.46	2	563.5	2	0.3612	2	0.255	2	0.434
11613	C7H13F	cis-1-fluoro-1-heptene	28028-91-3	195.22	2	362.99	2	525.96	2	28.20	2	425.5	2	0.2730	2	0.274	2	0.385
11614	C7H13F	trans-1-fluoro-1-heptene	28028-92-4	195.22	2	362.99	2	525.96	2	28.20	2	425.5	2	0.2730	2	0.274	2	0.385
11618	C7H13F3	1,1,1-trifluoroheptane	693-09-4	267.02	2	374.15	1	527.90	2	24.00	2	467.0	2	0.3301	2	0.255	2	0.439
11619	C7H13I	cis-1-iodo-1-heptene	63318-29-6	221.13	2	465.15	1	677.01	2	28.91	2	495.5	2	0.4522	2	0.254	2	0.375
11620	C7H13I	trans-1-iodo-1-heptene	60595-37-1	221.13	2	465.15	1	677.01	2	28.91	2	495.5	2	0.4522	2	0.254	2	0.375
11621	C7H13I3	1,1,1-triiodoheptane	---	344.75	2	635.75	2	912.73	2	26.65	2	680.5	2	0.7023	2	0.239	2	0.403
11622	C7H13N	heptanenitrile	629-08-3	210.55	1	457.65	1	643.10	2	27.27	2	453.5	2	0.2452	2	0.231	2	0.518
11696	C7H14	ethylcyclopentane	1640-89-7	134.71	1	376.62	1	569.50	1	34.00	1	375.0	1	0.2618	1	0.269	1	0.270
11697	C7H14	1,1-dimethylcyclopentane	1638-26-2	203.36	1	361.00	1	547.00	1	34.45	1	360.0	1	0.2727	1	0.273	1	0.272
11698	C7H14	1,2-dimethylcyclopentane	2452-99-5	154.10	1	370.00	1	556.47	2	34.37	2	364.1	2	0.2697	2	0.270	2	0.271
11699	C7H14	cis-1,2-dimethylcyclopentane	1192-18-3	219.26	1	372.68	1	565.15	1	34.45	1	370.0	1	0.2654	1	0.271	1	0.266
11700	C7H14	trans-1,2-dimethylcyclopentane	822-50-4	155.58	1	365.02	1	553.15	1	34.45	1	360.0	1	0.2727	1	0.270	1	0.270
11701	C7H14	1,3-dimethylcyclopentane	2453-00-1	134.60	1	365.10	1	556.47	2	34.37	2	364.1	2	0.2697	2	0.270	2	0.271
11702	C7H14	cis-1,3-dimethylcyclopentane	2532-58-3	139.45	1	363.92	1	551.00	1	34.45	1	360.0	1	0.2727	1	0.271	1	0.274
11703	C7H14	trans-1,3-dimethylcyclopentane	1759-58-6	139.18	1	364.88	1	553.00	2	34.45	2	360.0	2	0.2727	2	0.270	2	0.270
11704	C7H14	methylcyclohexane	108-87-2	146.58	1	374.08	1	572.10	1	34.80	1	369.0	1	0.2661	1	0.270	1	0.236
11705	C7H14	cycloheptane	291-64-5	265.12	1	391.94	1	604.20	1	38.20	1	353.0	1	0.2782	1	0.268	1	0.241
11706	C7H14	1-heptene	592-76-7	154.27	1	366.79	1	537.30	1	29.20	1	409.0	1	0.2401	1	0.267	1	0.344
11707	C7H14	2-heptene	592-77-8	148.16	2	371.40	1	537.61	2	29.69	2	403.0	2	0.2437	2	0.268	2	0.294
11708	C7H14	cis-2-heptene	6443-92-1	164.00	1	371.56	1	549.00	2	28.40	2	424.0	2	0.2316	2	0.264	2	0.294
11709	C7H14	trans-2-heptene	14686-13-6	163.67	1	371.10	1	543.00	2	28.50	2	406.0	2	0.2418	2	0.256	2	0.337
11710	C7H14	3-heptene	592-78-9	148.16	2	369.00	1	537.61	2	29.69	2	403.0	2	0.2437	2	0.268	2	0.294
11711	C7H14	3-heptene (mixed isomers)	25339-56-4	148.16	2	363.69	2	537.61	2	29.69	2	403.0	2	0.2437	2	0.268	2	0.294
11712	C7H14	cis-3-heptene	7642-10-6	136.51	1	368.90	1	545.00	2	28.40	2	421.0	2	0.2332	2	0.264	2	0.295
11713	C7H14	trans-3-heptene	14686-14-7	136.52	1	368.82	1	540.00	2	28.50	2	406.0	2	0.2418	2	0.258	2	0.334
11714	C7H14	2-methyl-1-hexene	6094-02-6	170.28	1	364.99	1	538.00	2	28.70	2	398.0	2	0.2467	2	0.255	2	0.309
11715	C7H14	3-methyl-1-hexene	3404-61-3	145.00	1	357.05	1	528.00	2	29.50	2	398.0	2	0.2467	2	0.267	2	0.306
11716	C7H14	4-methyl-1-hexene	3769-23-1	131.70	1	359.88	1	534.00	2	30.40	2	398.0	2	0.2467	2	0.273	2	0.302
11717	C7H14	5-methyl-1-hexene	3524-73-0	161.00	2	358.46	1	528.00	2	28.70	2	398.0	2	0.2467	2	0.260	2	0.310
11718	C7H14	2-methyl-2-hexene	2738-19-4	142.80	1	368.56	1	546.77	2	29.76	2	408.5	2	0.2404	2	0.267	2	0.307
11719	C7H14	3-methyl-cis-2-hexene	10574-36-4	154.65	1	370.41	1	549.51	2	29.76	2	408.5	2	0.2404	2	0.266	2	0.307
11720	C7H14	3-methyl-trans-2-hexene	20710-38-7	143.85	1	368.33	1	546.42	2	29.76	2	408.5	2	0.2404	2	0.268	2	0.307
11721	C7H14	4-methyl-cis-2-hexene	3683-19-0	148.07	2	359.46	1	534.04	2	29.86	2	401.5	2	0.2446	2	0.270	2	0.302
11722	C7H14	4-methyl-trans-2-hexene	3683-22-5	147.46	1	360.71	1	535.90	2	29.86	2	401.5	2	0.2446	2	0.269	2	0.302
11723	C7H14	5-methyl-cis-2-hexene	13151-17-2	148.07	2	362.65	1	538.78	2	29.86	2	401.5	2	0.2446	2	0.268	2	0.302
11724	C7H14	5-methyl-trans-2-hexene	7385-82-2	148.81	1	361.26	1	536.72	2	29.86	2	401.5	2	0.2446	2	0.269	2	0.302
11725	C7H14	2-methyl-cis-3-hexene	15840-60-5	148.07	2	359.15	1	533.58	2	29.86	2	401.5	2	0.2446	2	0.270	2	0.302
11726	C7H14	2-methyl-trans-3-hexene	692-24-0	131.59	1	359.05	1	533.44	2	29.86	2	401.5	2	0.2446	2	0.270	2	0.302
11727	C7H14	3-methyl-cis-3-hexene	4914-89-0	149.11	2	368.55	1	546.75	2	29.76	2	408.5	2	0.2404	2	0.267	2	0.307
11728	C7H14	3-methyl-trans-3-hexene	3899-36-3	149.11	2	366.69	1	543.99	2	29.76	2	408.5	2	0.2404	2	0.269	2	0.307
11729	C7H14	2-ethyl-1-pentene	3404-71-5	168.00	1	367.15	1	543.00	2	29.50	2	398.0	2	0.2467	2	0.260	2	0.307
11730	C7H14	3-ethyl-1-pentene	4038-04-4	145.67	1	357.26	1	530.00	2	30.30	2	398.0	2	0.2467	2	0.274	2	0.302
11731	C7H14	2,3-dimethyl-1-pentene	3404-72-6	138.85	1	357.43	1	532.72	2	29.70	2	403.5	2	0.2433	2	0.271	2	0.288
11732	C7H14	2,4-dimethyl-1-pentene	2213-32-3	149.09	1	354.76	1	528.74	2	29.70	2	403.5	2	0.2433	2	0.273	2	0.288
11733	C7H14	3,3-dimethyl-1-pentene	3404-73-7	138.77	1	350.63	1	527.74	2	29.89	2	397.5	2	0.2470	2	0.271	2	0.253
11734	C7H14	3,4-dimethyl-1-pentene	7385-78-6	136.39	2	353.95	1	528.31	2	29.80	2	396.5	2	0.2476	2	0.269	2	0.283
11735	C7H14	4,4-dimethyl-1-pentene	762-62-9	136.55	1	345.67	1	520.28	2	29.89	2	397.5	2	0.2470	2	0.275	2	0.253
11736	C7H14	3-ethyl-2-pentene	816-79-5	149.11	2	369.16	1	547.66	2	29.76	2	408.5	2	0.2404	2	0.267	2	0.307
11737	C7H14	2,3-dimethyl-2-pentene	10574-37-5	154.88	1	370.55	1	553.47	2	29.93	2	409.5	2	0.2398	2	0.266	2	0.282
11738	C7H14	2,4-dimethyl-2-pentene	625-65-0	145.45	1	356.45	1	533.21	2	30.02	2	402.5	2	0.2439	2	0.273	2	0.278

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
11739	C7H14	3,4-dimethyl-cis-2-pentene	4914-91-4	159.76	1	362.40	1	542.11	2	30.02	2	402.5	2	0.2439	2	0.268	2	0.278
11740	C7H14	3,4-dimethyl-trans-2-pentene	4914-92-5	148.92	1	364.65	1	545.47	2	30.02	2	402.5	2	0.2439	2	0.266	2	0.278
11741	C7H14	4,4-dimethyl-cis-2-pentene	762-63-0	137.69	1	353.58	1	534.97	2	30.80	2	388.5	2	0.2527	2	0.269	2	0.244
11742	C7H14	4,4-dimethyl-trans-2-pentene	690-08-4	157.92	1	349.89	1	528.63	2	30.22	2	396.5	2	0.2476	2	0.273	2	0.243
11743	C7H14	3-methyl-2-ethyl-1-butene	7357-93-9	137.43	2	359.52	1	535.82	2	29.70	2	403.5	2	0.2433	2	0.269	2	0.288
11744	C7H14	2,3,3-trimethyl-1-butene	594-56-9	163.30	1	351.04	1	531.00	2	31.40	2	381.0	2	0.2577	2	0.271	2	0.239
11745	C7H14	3,4-dimethylpent-2-ene	24910-63-2	149.05	1	360.80	1	537.61	2	29.69	2	403.0	2	0.2437	2	0.268	2	0.294
11746	C7H14	1,1,2,2-tetramethylcyclopropane	4127-47-3	167.25	2	363.69	2	530.00	2	33.00	2	375.9	2	0.2612	2	0.282	2	---
11747	C7H14	1,1-diethylcyclopropane	1003-19-6	167.25	1	361.80	1	530.00	2	33.00	2	375.9	2	0.2612	2	0.282	2	---
11751	C7H14Br2	1,1-dibromoheptane	59104-79-9	272.75	2	495.15	1	700.05	2	32.88	2	545.5	2	0.4730	2	0.308	2	0.571
11752	C7H14Br2	1,2-dibromoheptane	42474-21-5	293.80	2	501.15	1	700.05	2	32.88	2	545.5	2	0.4730	2	0.308	2	0.571
11753	C7H14Br2	1,5-dibromoheptane	1622-10-2	293.80	2	510.82	2	700.05	2	32.88	2	545.5	2	0.4730	2	0.308	2	0.571
11754	C7H14Br2	1,7-dibromoheptane	4549-31-9	314.85	1	536.15	1	700.05	2	32.88	2	545.5	2	0.4730	2	0.308	2	0.571
11755	C7H14Br2	2,3-dibromoheptane	21266-88-6	293.80	2	510.82	2	700.05	2	32.88	2	545.5	2	0.4730	2	0.308	2	0.571
11756	C7H14Br2	3,4-dibromoheptane	21266-90-0	293.80	2	510.82	2	700.05	2	32.88	2	545.5	2	0.4730	2	0.308	2	0.571
11763	C7H14Cl2	1,1-dichloroheptane	821-25-0	212.99	2	460.15	1	654.02	2	26.14	2	519.5	2	0.3255	2	0.250	2	0.442
11764	C7H14Cl2	1,2-dichloro-4,4-dimethylpentane	6065-90-3	254.82	2	448.15	1	654.02	2	26.14	2	519.5	2	0.3255	2	0.250	2	0.442
11765	C7H14Cl2	1,5-dichloro-3,3-dimethylpentane	62496-53-1	254.82	2	454.15	2	654.02	2	26.14	2	519.5	2	0.3255	2	0.250	2	0.442
11766	C7H14Cl2	2,4-dichloro-2,4-dimethylpentane	33553-93-4	296.65	1	454.15	2	654.02	2	26.14	2	519.5	2	0.3255	2	0.250	2	0.442
11767	C7H14Cl2	1,2-dichloroheptane	10575-87-8	254.82	2	454.15	2	654.02	2	26.14	2	519.5	2	0.3255	2	0.250	2	0.442
11768	C7H14Cl2	1,7-dichloroheptane	821-76-1	254.82	2	454.15	2	654.02	2	26.14	2	519.5	2	0.3255	2	0.250	2	0.442
11769	C7H14Cl2	2,2-dichloroheptane	65786-09-6	254.82	2	454.15	2	654.02	2	26.14	2	519.5	2	0.3255	2	0.250	2	0.442
11770	C7H14Cl2	4,4-dichloroheptane	89796-76-9	254.82	2	454.15	1	654.02	2	26.14	2	519.5	2	0.3255	2	0.250	2	0.442
11772	C7H14F2	1,1-difluoroheptane	407-96-5	191.15	1	392.85	1	556.10	2	24.50	2	453.0	2	0.3006	2	0.240	2	0.433
11774	C7H14I2	1,1-diiodoheptane	66675-46-5	269.27	2	545.40	2	780.77	2	26.96	2	597.5	2	0.5891	2	0.248	2	0.421
11827	C7H14O	1-heptanal	111-71-7	229.80	1	425.95	1	616.80	1	31.60	1	434.0	1	0.2631	1	0.267	1	0.428
11828	C7H14O	3-methylhexanal	19269-28-4	230.15	2	416.00	1	593.00	2	28.50	2	434.0	2	0.2631	2	0.251	2	0.464
11828.1	C7H14O	2-methylhexanal	925-54-2	---	---	416.00	2	593.00	2	28.50	2	434.0	2	0.2631	2	0.251	2	0.464
11829	C7H14O	2-heptanone	110-43-0	238.15	1	424.18	1	611.40	1	29.40	1	434.0	1	0.2631	1	0.251	1	0.419
11830	C7H14O	3-heptanone	106-35-4	234.15	1	420.55	1	606.60	1	29.20	2	433.0	1	0.2637	1	0.251	1,2	0.408
11831	C7H14O	4-heptanone	123-19-3	240.65	1	417.15	1	602.00	1	29.20	2	434.0	1	0.2631	1	0.253	1,2	0.412
11832	C7H14O	3-methyl-2-hexanone	2550-21-2	203.08	2	413.15	1	593.86	2	30.22	2	427.5	2	0.2671	2	0.262	2	0.451
11833	C7H14O	4-methyl-2-hexanone	105-42-0	203.08	2	412.15	1	592.42	2	30.22	2	427.5	2	0.2671	2	0.262	2	0.451
11834	C7H14O	5-methyl-2-hexanone	110-12-3	199.25	1	417.95	1	601.00	2	29.70	2	421.0	2	0.2712	2	0.250	2	0.434
11835	C7H14O	2-methyl-3-hexanone	7379-12-6	203.08	2	406.15	1	583.80	2	30.22	2	427.5	2	0.2671	2	0.266	2	0.451
11836	C7H14O	4-methyl-3-hexanone	17042-16-9	203.08	2	409.15	1	588.11	2	30.22	2	427.5	2	0.2671	2	0.264	2	0.451
11837	C7H14O	5-methyl-3-hexanone	623-56-3	203.08	2	409.15	1	588.11	2	30.22	2	427.5	2	0.2671	2	0.264	2	0.451
11838	C7H14O	3-ethyl-2-pentanone	6137-03-7	203.08	2	411.15	1	590.99	2	30.22	2	427.5	2	0.2671	2	0.263	2	0.451
11839	C7H14O	3,3-dimethyl-2-pentanone	20669-04-9	220.50	2	403.75	1	589.07	2	30.59	2	422.5	2	0.2703	2	0.264	2	0.387
11840	C7H14O	3,4-dimethyl-2-pentanone	565-78-6	188.08	2	405.15	1	586.69	2	30.49	2	421.5	2	0.2709	2	0.263	2	0.420
11841	C7H14O	4,4-dimethyl-2-pentanone	590-50-1	209.15	1	398.15	1	580.90	2	30.59	2	422.5	2	0.2703	2	0.268	2	0.387
11842	C7H14O	2,2-dimethyl-3-pentanone	564-04-5	228.15	1	398.15	1	580.90	2	30.59	2	422.5	2	0.2703	2	0.268	2	0.387
11843	C7H14O	2,4-dimethyl-3-pentanone	565-80-0	204.81	1	397.55	1	576.00	2	30.20	2	416.0	2	0.2745	2	0.262	2	0.405
11844	C7H14O	1-methylcyclohexanol	590-67-0	299.15	1	441.15	1	686.00	2	40.00	2	374.0	2	0.3053	2	0.262	2	0.221
11845	C7H14O	cis-2-methylcyclohexanol	7443-70-1	280.15	1	438.15	1	614.00	2	37.90	2	374.0	2	0.3053	2	0.278	2	0.681
11846	C7H14O	trans-2-methylcyclohexanol	7443-52-9	269.15	1	440.15	1	617.00	2	37.90	2	374.0	2	0.3053	2	0.276	2	0.679
11847	C7H14O	cis-3-methylcyclohexanol	5454-79-5	267.65	1	446.15	1	625.00	2	37.90	2	374.0	2	0.3053	2	0.273	2	0.694
11848	C7H14O	trans-3-methylcyclohexanol	7443-55-2	272.65	1	447.15	1	627.00	2	37.90	2	374.0	2	0.3053	2	0.272	2	0.681
11849	C7H14O	cis-4-methylcyclohexanol	7731-28-4	263.95	1	444.15	1	622.00	2	37.90	2	374.0	2	0.3053	2	0.274	2	0.688
11850	C7H14O	trans-4-methylcyclohexanol	7731-29-5	265.00	2	444.15	1	622.00	2	37.90	2	374.0	2	0.3053	2	0.274	2	0.694
11851	C7H14O	trans-2-methylcyclohexanol, (±)	615-39-4	271.15	1	440.65	1	635.00	2	37.90	2	414.0	2	0.2758	2	0.297	2	0.685
11855	C7H14O	1-hepten-4-ol	3521-91-3	---	---	425.25	1	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11856	C7H14O	2-hepten-4-ol, (±)	115113-98-9	---	---	426.15	1	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11857	C7H14O	3-hepten-2-ol	98991-54-9	---	---	423.67	2	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11858	C7H14O	6-hepten-2-ol	24395-10-6	---	---	423.67	2	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11859	C7H14O	6-hepten-3-ol	19781-77-2	---	---	423.67	2	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11860	C7H14O	cis-2-hepten-1-ol	55454-22-3	---	---	451.15	1	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11861	C7H14O	trans-2-hepten-1-ol	33467-76-4	---	---	451.15	1	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11862	C7H14O	2-methyl-3-hexen-2-ol	18812-62-9	---	---	423.67	2	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11863	C7H14O	2-methyl-4-hexen-3-ol	4798-60-1	---	---	412.65	1	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11864	C7H14O	2-methyl-5-hexen-2-ol	16744-89-1	251.15	1	415.65	1	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11865	C7H14O	3-methyl-3-hexen-2-ol	110383-31-8	---	---	423.67	2	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11866	C7H14O	3-methyl-4-hexen-3-ol	60111-14-0	---	---	423.67	2	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11867	C7H14O	3-methyl-5-hexen-3-ol	1569-44-4	---	---	412.15	1	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11868	C7H14O	4-methyl-5-hexen-3-ol	1838-77-3	---	---	413.65	1	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11869	C7H14O	5-methyl-1-hexen-3-ol	4798-46-3	---	---	398.15	1	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11870	C7H14O	5-methyl-2-hexenol	77053-92-0	---	---	442.15	1	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11871	C7H14O	isopentyl vinyl ether	39782-38-2	163.50	2	385.65	1	561.00	2	29.00	2	403.2	2	0.2832	2	0.251	2	---
11875	C7H14O	1-hepten-3-ol	4938-52-7	---	---	427.65	1	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11876	C7H14O	cis-4-hepten-1-ol	6191-71-5	---	---	423.67	2	601.00	2	35.00	2	341.0	2	0.3349	2	0.239	2	---
11877	C7H14O	methylcyclohexanol	25639-42-3	223.25	1	440.65	1	635.00	2	37.90	2	414.0	2	0.2758	2	0.297	2	0.685
11878	C7H14O	2-methylcyclohexanol; (cis+trans)	583-59-5	298.15	1	438.90	1	635.00	2	37.90	2	414.0	2	0.2758	2	0.297	2	0.685
11879	C7H14O	4-methylcyclohexanol; (cis+trans)	589-91-3	223.25	1	445.15	1	635.00	2	37.90	2	414.0	2	0.2758	2	0.297	2	0.685
11880	C7H14O	3-methylcyclohexanol; (cis+trans)	591-23-1	199.25	1	440.25	1	635.00	2	37.90	2	414.0	2	0.2758	2	0.297	2	0.685
11881	C7H14O	tert-pentyl vinyl ether	29281-39-8	163.50	2	379.15	1	561.00	2	29.00	2	403.2	2	0.2832	2	0.251	2	---
11882	C7H14O	1-(2-propenyloxy)butane	3739-64-8	163.50	2	423.67	2	561.00	2	29.00	2	403.2	2	0.2832	2	0.251	2	---
11884	C7H14O2	heptanoic acid	111-14-8	265.83	1	496.15	1	677.30	1	30.43	1	468.0	1	0.2782	1	0.253	1	0.756
11885	C7H14O2	2-ethyl-2-methylbutanoic acid	19889-37-3	229.49	2	480.15	1	680.00	2	29.90	2	442.0	2	0.2945	2	0.234	2	0.717
11886	C7H14O2	2-ethylpentanoic acid, (±)	116908-83-9	229.49	2	482.35	1	680.00	2	29.90	2	442.0	2	0.2945	2	0.234	2	0.717
11887	C7H14O2	2-methylhexanoic acid, (±)	22160-12-9	229.49	2	488.65	1	680.00	2	29.90	2	442.0	2	0.2945	2	0.234	2	0.717

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
11888	C7H14O2	3-methylhexanoic acid	3780-58-3	229.49	2	486.15	1	680.00	2	29.90	2	442.0	2	0.2945	2	0.234	2	0.717
11889	C7H14O2	4-methylhexanoic acid, (±)	22160-41-4	193.15	1	490.65	1	680.00	2	29.90	2	442.0	2	0.2945	2	0.234	2	0.717
11890	C7H14O2	5-methylhexanoic acid	628-46-6	229.49	2	489.15	1	680.00	2	29.90	2	442.0	2	0.2945	2	0.234	2	0.717
11891	C7H14O2	hexyl formate	629-33-4	210.53	1	428.65	1	607.00	2	28.00	2	442.0	2	0.2945	2	0.245	2	0.483
11892	C7H14O2	pentyl acetate	628-63-7	202.35	1	421.15	1	599.90	1	27.70	1	442.0	2	0.2945	2	0.245	1,2	0.448
11893	C7H14O2	1-methylbutyl acetate	626-38-0	195.48	2	406.15	1	579.00	2	28.10	2	442.0	2	0.2945	2	0.258	2	0.459
11894	C7H14O2	2-methylbutyl acetate	624-41-9	195.48	2	413.15	1	589.00	2	28.10	2	442.0	2	0.2945	2	0.254	2	0.459
11895	C7H14O2	isopentyl acetate	123-92-2	194.65	1	415.15	1	586.10	1	27.60	1	442.0	2	0.2945	2	0.250	1,2	0.489
11896	C7H14O2	1-ethylpropyl acetate	620-11-1	195.48	2	405.15	1	577.00	2	28.10	2	442.0	2	0.2945	2	0.259	2	0.464
11897	C7H14O2	tert-pentyl acetate	625-16-1	212.90	2	397.15	1	572.00	2	28.70	2	439.0	2	0.2966	2	0.265	2	0.419
11898	C7H14O2	1,2-dimethylpropyl acetate	5343-96-4	180.48	2	401.65	1	576.00	2	28.40	2	436.0	2	0.2986	2	0.259	2	0.435
11899	C7H14O2	neopentyl acetate	926-41-0	212.90	2	401.15	1	577.00	2	27.20	2	448.0	2	0.2906	2	0.254	2	0.403
11900	C7H14O2	sec-pentyl acetate (R)	54638-10-7	198.72	2	415.15	1	583.38	2	28.13	2	441.6	2	0.2948	2	0.256	2	0.443
11901	C7H14O2	butyl propanoate	590-01-2	183.63	1	418.26	1	594.60	1	28.00	2	442.0	2	0.2945	2	0.250	1,2	0.464
11902	C7H14O2	isobutyl propanoate	540-42-1	201.75	1	409.75	1	592.00	1	27.30	2	447.0	2	0.2912	2	0.248	1,2	0.384
11903	C7H14O2	sec-butyl propanoate	591-34-4	195.48	2	406.15	1	579.00	2	28.10	2	442.0	2	0.2945	2	0.258	2	0.602
11904	C7H14O2	tert-butyl propanoate	20487-40-5	212.90	2	414.55	2	557.00	2	27.20	2	448.0	2	0.2906	2	0.263	2	0.788
11905	C7H14O2	propyl butanoate	105-66-8	177.95	1	415.85	1	593.70	1	27.20	1	442.0	2	0.2945	2	0.244	1,2	0.433
11906	C7H14O2	isopropyl butanoate	638-11-9	195.48	2	404.15	1	574.00	2	27.30	2	447.0	2	0.2912	2	0.256	2	0.464
11907	C7H14O2	isopropyl isobutanoate	617-50-5	186.72	2	393.85	1	584.00	2	27.65	2	444.5	2	0.2929	2	0.253	2	0.456
11908	C7H14O2	propyl isobutanoate	644-49-5	200.00	2	408.65	1	579.40	1	28.40	2	442.0	2	0.2945	2	0.261	1,2	0.484
11909	C7H14O2	ethyl isovalerate	108-64-5	173.85	1	407.45	1	587.95	1	28.40	2	442.0	2	0.2945	2	0.257	1,2	0.400
11910	C7H14O2	ethyl 2,2-dimethylpropanoate	3938-95-2	183.65	1	391.55	1	580.50	2	27.65	2	444.8	2	0.2927	2	0.255	2	0.562
11911	C7H14O2	ethyl 2-methylbutanoate, (+)	10307-61-6	186.72	2	405.15	1	584.00	2	27.65	2	444.5	2	0.2929	2	0.253	2	0.456
11912	C7H14O2	ethyl pentanoate	539-82-2	181.95	1	419.25	1	587.95	2	28.40	2	442.0	2	0.2945	2	0.257	2	0.407
11913	C7H14O2	methyl 2-ethylbutanoate	816-11-5	186.72	2	409.15	1	584.00	2	27.65	2	444.5	2	0.2929	2	0.253	2	0.456
11914	C7H14O2	methyl hexanoate	106-70-7	202.15	1	422.65	1	587.95	2	28.40	2	442.0	2	0.2945	2	0.257	2	0.407
11923	C7H14O2	ethyl 2-methylbutyrate	7452-79-1	185.98	2	405.90	1	587.95	2	28.40	2	442.0	2	0.2945	2	0.257	2	0.407
11925	C7H14O2	2-methylhexanoic acid	4536-23-6	230.00	2	483.00	1	666.00	2	31.10	2	454.0	2	0.2868	2	0.255	2	0.696
11926	C7H14O2	neoheptanoic acid	33113-10-9	229.49	2	427.81	2	680.00	2	29.90	2	442.0	2	0.2945	2	0.234	2	0.717
11927.1	C7H14O2	allyl-tert-butylperoxide	39972-78-6	213.00	2	389.94	2	563.00	2	28.80	2	447.0	2	0.2912	2	0.275	2	0.402
11927.2	C7H14O2	neoheptanoic acid	1185-39-3	230.00	2	475.65	1	662.00	2	30.30	2	455.0	2	0.2861	2	0.250	2	0.635
11931	C7H14O3	ethyl-3-ethoxypropionate	763-69-9	218.00	2	441.65	1	621.00	1	26.60	1	458.0	1	0.3192	1	0.236	1	0.497
11934.1	C7H14O3	propylene glycol ethyl ether acetate	54839-24-6	213.00	2	438.00	2	613.00	2	27.80	2	462.0	2	0.3164	2	0.252	2	0.543
11960	C7H14S	thiacyclooctane	6572-99-2	256.18	2	471.15	1	726.84	2	38.67	2	391.5	2	0.3327	2	0.251	2	0.255
11961	C7H14S	2-ethylthiacyclohexane	1613-52-1	258.98	2	426.94	2	646.42	2	34.97	2	406.5	2	0.3204	2	0.265	2	0.288
11962	C7H14S	3-ethylthiacyclohexane	61568-48-7	258.98	2	426.94	2	646.42	2	34.97	2	406.5	2	0.3204	2	0.265	2	0.288
11963	C7H14S	4-ethylthiacyclohexane	40324-31-0	258.98	2	426.94	2	646.42	2	34.97	2	406.5	2	0.3204	2	0.265	2	0.288
11964	C7H14S	2,2-dimethylthiacyclohexane	---	282.88	2	427.18	2	657.02	2	36.91	2	404.5	2	0.3220	2	0.273	2	0.249
11965	C7H14S	2,cis-3-dimethylthiacyclohexane	---	254.74	2	422.27	2	641.36	2	33.65	2	405.5	2	0.3212	2	0.256	2	0.262
11966	C7H14S	2,trans-3-dimethylthiacyclohexane	---	254.74	2	422.27	2	641.36	2	33.65	2	405.5	2	0.3212	2	0.256	2	0.262
11967	C7H14S	2,cis-4-dimethylthiacyclohexane	---	254.74	2	422.27	2	641.36	2	33.65	2	405.5	2	0.3212	2	0.256	2	0.262
11968	C7H14S	2,trans-4-dimethylthiacyclohexane	---	254.74	2	422.27	2	641.36	2	33.65	2	405.5	2	0.3212	2	0.256	2	0.262
11969	C7H14S	2,cis-5-dimethylthiacyclohexane	---	254.74	2	422.27	2	641.36	2	33.65	2	405.5	2	0.3212	2	0.256	2	0.262
11970	C7H14S	2,trans-5-dimethylthiacyclohexane	---	254.74	2	422.27	2	641.36	2	33.65	2	405.5	2	0.3212	2	0.256	2	0.262
11971	C7H14S	2,cis-6-dimethylthiacyclohexane	---	254.74	2	422.27	2	641.36	2	33.65	2	405.5	2	0.3212	2	0.256	2	0.262
11972	C7H14S	2,trans-6-dimethylthiacyclohexane	---	254.74	2	422.27	2	641.36	2	33.65	2	405.5	2	0.3212	2	0.256	2	0.262
11973	C7H14S	3,3-dimethylthiacyclohexane	---	282.88	2	427.18	2	657.02	2	36.91	2	404.5	2	0.3220	2	0.273	2	0.249
11974	C7H14S	3,cis-4-dimethylthiacyclohexane	---	254.74	2	422.27	2	641.36	2	33.65	2	405.5	2	0.3212	2	0.256	2	0.262
11975	C7H14S	3,trans-4-dimethylthiacyclohexane	---	254.74	2	422.27	2	641.36	2	33.65	2	405.5	2	0.3212	2	0.256	2	0.262
11976	C7H14S	3,cis-5-dimethylthiacyclohexane	---	254.74	2	422.27	2	641.36	2	33.65	2	405.5	2	0.3212	2	0.256	2	0.262
11977	C7H14S	3,trans-5-dimethylthiacyclohexane	---	254.74	2	422.27	2	641.36	2	33.65	2	405.5	2	0.3212	2	0.256	2	0.262
11978	C7H14S	4,4-dimethylthiacyclohexane	---	282.88	2	427.18	2	657.02	2	36.91	2	404.5	2	0.3220	2	0.273	2	0.249
11982	C7H15Br	1-bromoheptane	629-04-9	217.05	1	452.05	1	651.00	2	30.80	2	477.0	2	0.3755	2	0.271	2	0.444
11983	C7H15Br	2-bromoheptane	1974-04-5	320.15	1	439.15	1	651.00	2	30.80	2	447.0	2	0.4007	2	0.254	2	0.444
11984	C7H15Br	4-bromoheptane	998-93-6	268.60	2	434.15	1	651.00	2	30.80	2	447.0	2	0.4007	2	0.254	2	0.444
11988	C7H15Cl	1-chloroheptane	629-06-1	203.65	1	433.59	1	621.08	2	26.93	2	476.5	2	0.2826	2	0.249	2	0.418
11989	C7H15Cl	2-chloro-2,3-dimethylpentane	59889-45-1	239.33	2	413.42	2	621.08	2	26.93	2	476.5	2	0.2826	2	0.249	2	0.418
11990	C7H15Cl	2-chloro-2,4-dimethylpentane	35951-33-8	239.33	2	401.15	1	621.08	2	26.93	2	476.5	2	0.2826	2	0.249	2	0.418
11991	C7H15Cl	3-chloro-2,3-dimethylpentane	595-38-0	239.33	2	401.15	2	621.08	2	26.93	2	476.5	2	0.2826	2	0.249	2	0.418
11992	C7H15Cl	4-chloro-2,2-dimethylpentane	33429-72-0	239.33	2	401.15	1	621.08	2	26.93	2	476.5	2	0.2826	2	0.249	2	0.418
11993	C7H15Cl	3-chloro-3-ethylpentane	994-25-2	239.33	2	416.65	1	621.08	2	26.93	2	476.5	2	0.2826	2	0.249	2	0.418
11994	C7H15Cl	2-chloroheptane	1001-89-4	239.33	2	413.42	2	621.08	2	26.93	2	476.5	2	0.2826	2	0.249	2	0.418
11995	C7H15Cl	3-chloroheptane	999-52-0	239.33	2	417.15	1	621.08	2	26.93	2	476.5	2	0.2826	2	0.249	2	0.418
11996	C7H15Cl	4-chloroheptane	998-95-8	239.33	2	417.15	1	621.08	2	26.93	2	476.5	2	0.2826	2	0.249	2	0.418
11997	C7H15Cl	1-chloro-3-methylhexane	101257-63-0	239.33	2	424.15	1	621.08	2	26.93	2	476.5	2	0.2826	2	0.249	2	0.418
11998	C7H15Cl	2-chloro-2-methylhexane	4398-65-6	239.33	2	408.15	2	621.08	2	26.93	2	476.5	2	0.2826	2	0.249	2	0.418
11999	C7H15Cl	2-chloro-5-methylhexane	58766-17-9	239.33	2	411.15	2	621.08	2	26.93	2	476.5	2	0.2826	2	0.249	2	0.418
12000	C7H15Cl	3-chloro-3-methylhexane	43197-78-0	239.33	2	408.15	1	621.08	2	26.93	2	476.5	2	0.2826	2	0.249	2	0.418
12001	C7H15Cl	2-chloro-2,3,3-trimethylbutane	918-07-0	275.00	2	413.42	2	621.08	2	26.93	2	476.5	2	0.2826	2	0.249	2	0.418
12015	C7H15F	1-fluoroheptane	661-11-0	200.15	1	391.05	1	555.80	2	25.80	2	443.0	2	0.2668	2	0.247	2	0.436
12020	C7H15I	1-iodoheptane	4282-40-0	224.95	1	477.10	1	646.56	2	32.06	2	446.5	2	0.5064	2	0.266	2	0.816
12021	C7H15I	2-iodoheptane	18589-29-2	224.95	2	477.10	2	646.56	2	32.06	2	446.5	2	0.5064	2	0.266	2	0.816
12022	C7H15I	3-iodoheptane	31294-92-5	224.95	2	477.10	2	646.56	2	32.06	2	446.5	2	0.5064	2	0.266	2	0.816
12023	C7H15I	4-iodoheptane	31294-93-6	224.95	2	477.10	2	646.56	2	32.06	2	446.5	2	0.5064	2	0.266	2	0.816
12024	C7H15N	N-methylcyclohexylamine	100-60-7	264.65	1	422.00	1	622.00	2	34.90	2	393.0	2	0.2880	2	0.265	2	0.386
12025	C7H15N	cyclohexanemethanamine	3218-02-8	264.65	2	433.15	1	622.00	2	34.90	2	393.0	2	0.2880	2	0.265	2	0.386
12026	C7H15N	cis-2-methylcyclohexylamine	2164-19-4	264.65	2	426.65	1	622.00	2	34.90	2	393.0	2	0.2880	2	0.265	2	0.386
12027	C7H15N	trans-2-methylcyclohexylamine	931-10-2	264.65	2	423.15	1	622.00	2	34.90	2	393.0	2	0.2880	2	0.265	2	0.386
12028	C7H15N	cis-3-methylcyclohexylamine	1193-16-4	264.65	2	426.15	1	622.00	2	34.90	2	393.0	2	0.2880	2	0.265	2	0.386

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
12029	C7H15N	trans-3-methylcyclohexylamine	1193-17-5	264.65	2	424.65	1	622.00	2	34.90	2	393.0	2	0.2880	2	0.265	2	0.386
12030	C7H15N	cis-4-methylcyclohexylamine	2523-56-0	264.65	2	426.65	1	622.00	2	34.90	2	393.0	2	0.2880	2	0.265	2	0.386
12031	C7H15N	trans-4-methylcyclohexylamine	2523-55-9	264.65	2	425.15	1	622.00	2	34.90	2	393.0	2	0.2880	2	0.265	2	0.386
12049	C7H15N	3-methylcyclohexylamine	6850-35-7	264.65	2	423.15	1	622.00	2	34.90	2	393.0	2	0.2880	2	0.265	2	0.386
12050	C7H15N	2-methylcyclohexylamine; (cis+trans)	7003-32-9	264.65	2	422.65	1	622.00	2	34.90	2	393.0	2	0.2880	2	0.265	2	0.386
12051	C7H15N	4-methylcyclohexylamine	6321-23-9	264.65	2	425.65	1	622.00	2	34.90	2	393.0	2	0.2880	2	0.265	2	0.386
12075	C7H15NO2	1-nitroheptane	693-39-0	311.76	2	486.15	1	675.30	2	28.35	2	509.5	2	0.2850	2	0.257	2	0.599
12112	C7H16	heptane	142-82-5	182.57	1	371.58	1	540.20	1	27.40	1	428.0	1	0.2341	1	0.261	1	0.350
12113	C7H16	2-methylhexane	591-76-4	154.90	1	363.20	1	530.40	1	27.40	1	421.0	1	0.2380	1	0.262	1	0.328
12114	C7H16	3-methylhexane	589-34-4	153.75	1	365.00	1	535.20	1	28.10	1	404.0	1	0.2480	1	0.255	1	0.320
12115	C7H16	3-ethylpentane	617-78-7	154.55	1	366.62	1	540.60	1	28.90	1	416.0	1	0.2409	1	0.267	1	0.309
12116	C7H16	2,2-dimethylpentane	590-35-2	149.34	1	352.34	1	520.50	1	27.70	1	416.0	1	0.2409	1	0.266	1	0.287
12117	C7H16	2,3-dimethylpentane	565-59-3	138.15	2	362.93	1	537.30	1	29.10	1	393.0	1	0.2550	1	0.256	1	0.296
12118	C7H16	2,4-dimethylpentane	108-08-7	153.91	1	353.64	1	519.80	1	27.40	1	418.0	1	0.2397	1	0.265	1	0.302
12119	C7H16	3,3-dimethylpentane	562-49-2	138.70	1	359.21	1	536.40	1	29.50	1	414.0	1	0.2420	1	0.274	1	0.268
12120	C7H16	2,2,3-trimethylbutane	464-06-2	248.57	1	354.03	1	531.17	1	29.54	1	398.0	1	0.2518	1	0.266	1	0.250
12121	C7H16	3-methylhexane, (S)-	6131-24-4	154.15	1	365.15	1	532.41	2	28.33	2	412.4	2	0.2431	2	0.264	2	0.301
12164	C7H16O	1-heptanol	111-70-6	239.15	1	449.45	1	632.60	1	30.58	1	435.0	1	0.2671	1	0.253	1	0.567
12165	C7H16O	2-heptanol	543-49-7	243.00	1	432.35	1	608.32	1	30.21	1	442.0	1	0.2629	1	0.264	1	0.557
12166	C7H16O	3-heptanol	589-82-2	203.15	1	429.85	1	585.83	2	31.21	2	440.5	2	0.2638	2	0.282	2	0.764
12167	C7H16O	4-heptanol	589-55-9	231.15	1	427.85	1	583.10	2	31.21	2	440.5	2	0.2638	2	0.284	2	0.764
12168	C7H16O	2-methyl-1-hexanol	624-22-6	220.00	2	437.15	1	595.00	2	30.30	2	432.0	2	0.2690	2	0.265	2	0.773
12169	C7H16O	3-methyl-1-hexanol	13231-81-7	213.97	2	445.15	1	606.68	2	31.21	2	440.5	2	0.2638	2	0.273	2	0.764
12170	C7H16O	4-methyl-1-hexanol	818-49-5	213.97	2	446.15	1	608.04	2	31.21	2	440.5	2	0.2638	2	0.272	2	0.764
12171	C7H16O	5-methyl-1-hexanol	627-98-5	213.97	2	445.15	1	605.00	2	30.30	2	432.0	2	0.2690	2	0.260	2	0.781
12172	C7H16O	2-methyl-2-hexanol	625-23-0	231.39	2	415.95	1	573.58	2	31.60	2	435.5	2	0.2668	2	0.289	2	0.695
12173	C7H16O	3-methyl-2-hexanol	2313-65-7	198.97	2	425.15	1	582.81	2	31.49	2	434.5	2	0.2674	2	0.282	2	0.731
12174	C7H16O	4-methyl-2-hexanol	2313-61-3	198.97	2	424.15	1	581.44	2	31.49	2	434.5	2	0.2674	2	0.283	2	0.731
12175	C7H16O	5-methyl-2-hexanol	627-59-8	198.97	2	424.15	1	581.44	2	31.49	2	434.5	2	0.2674	2	0.283	2	0.731
12176	C7H16O	2-methyl-3-hexanol	617-29-8	198.97	2	418.15	1	573.21	2	31.49	2	434.5	2	0.2674	2	0.287	2	0.731
12177	C7H16O	3-methyl-3-hexanol	597-96-6	231.39	2	415.95	1	573.58	2	31.60	2	435.5	2	0.2668	2	0.289	2	0.695
12178	C7H16O	4-methyl-3-hexanol	615-29-2	198.97	2	422.15	1	578.70	2	31.49	2	434.5	2	0.2674	2	0.284	2	0.731
12179	C7H16O	5-methyl-3-hexanol	623-55-2	198.97	2	421.15	1	577.32	2	31.49	2	434.5	2	0.2674	2	0.285	2	0.731
12180	C7H16O	2-ethyl-1-pentanol	27522-11-8	213.97	2	439.15	1	598.50	2	31.21	2	440.5	2	0.2638	2	0.276	2	0.764
12181	C7H16O	3-ethyl-1-pentanol	66225-51-2	213.97	2	439.15	1	598.50	2	31.21	2	440.5	2	0.2638	2	0.276	2	0.764
12182	C7H16O	2,2-dimethyl-1-pentanol	2370-12-9	231.39	2	426.15	1	587.65	2	31.60	2	435.5	2	0.2668	2	0.282	2	0.695
12183	C7H16O	2,3-dimethyl-1-pentanol	10143-23-4	198.97	2	437.15	1	599.26	2	31.49	2	434.5	2	0.2674	2	0.275	2	0.731
12184	C7H16O	2,4-dimethyl-1-pentanol	6305-71-1	198.97	2	432.15	1	592.40	2	31.49	2	434.5	2	0.2674	2	0.278	2	0.731
12185	C7H16O	3,3-dimethyl-1-pentanol	19264-94-9	231.39	2	438.15	1	604.20	2	31.60	2	435.5	2	0.2668	2	0.274	2	0.695
12186	C7H16O	3,4-dimethyl-1-pentanol	6570-87-2	198.97	2	438.15	1	600.63	2	31.49	2	434.5	2	0.2674	2	0.274	2	0.731
12187	C7H16O	4,4-dimethyl-1-pentanol	3121-79-7	231.39	2	433.15	1	597.30	2	31.60	2	435.5	2	0.2668	2	0.277	2	0.695
12188	C7H16O	3-ethyl-2-pentanol	609-27-8	198.97	2	425.15	1	582.81	2	31.49	2	434.5	2	0.2674	2	0.282	2	0.731
12189	C7H16O	2,3-dimethyl-2-pentanol	4911-70-0	216.39	2	412.15	1	571.87	2	31.88	2	429.5	2	0.2706	2	0.288	2	0.662
12190	C7H16O	2,4-dimethyl-2-pentanol	625-06-9	216.39	2	406.15	1	563.54	2	31.88	2	429.5	2	0.2706	2	0.292	2	0.662
12191	C7H16O	3,3-dimethyl-2-pentanol	19781-24-9	216.39	2	420.15	1	582.97	2	31.88	2	429.5	2	0.2706	2	0.283	2	0.662
12192	C7H16O	3,4-dimethyl-2-pentanol	64502-86-9	183.97	2	426.15	1	587.70	2	31.78	2	428.5	2	0.2712	2	0.279	2	0.697
12193	C7H16O	4,4-dimethyl-2-pentanol	6144-93-0	213.15	1	411.15	1	570.48	2	31.88	2	429.5	2	0.2706	2	0.289	2	0.662
12194	C7H16O	3-ethyl-3-pentanol	597-49-9	260.75	1	415.65	1	573.17	2	31.60	2	435.5	2	0.2668	2	0.289	2	0.695
12195	C7H16O	2,2-dimethyl-3-pentanol	3970-62-5	278.15	1	409.15	1	567.71	2	31.88	2	429.5	2	0.2706	2	0.290	2	0.662
12196	C7H16O	2,3-dimethyl-3-pentanol	595-41-5	216.39	2	413.15	1	573.26	2	31.88	2	429.5	2	0.2706	2	0.287	2	0.662
12197	C7H16O	2,4-dimethyl-3-pentanol	600-36-2	265.15	1	411.95	1	568.11	2	31.78	2	428.5	2	0.2712	2	0.288	2	0.697
12198	C7H16O	2-methyl-2-ethyl-1-butanol	18371-13-6	231.39	2	430.15	1	593.16	2	31.60	2	435.5	2	0.2668	2	0.279	2	0.695
12199	C7H16O	3-methyl-2-ethyl-1-butanol	32444-34-1	198.97	2	435.15	1	596.52	2	31.49	2	434.5	2	0.2674	2	0.276	2	0.731
12200	C7H16O	2,2,3-trimethyl-1-butanol	55505-23-2	216.39	2	430.15	1	596.85	2	31.88	2	429.5	2	0.2706	2	0.276	2	0.662
12201	C7H16O	2,3,3-trimethyl-1-butanol	36794-64-6	216.39	2	433.15	1	601.01	2	31.88	2	429.5	2	0.2706	2	0.274	2	0.662
12202	C7H16O	2,3,3-trimethyl-2-butanol	594-83-2	290.15	1	404.15	1	568.02	2	32.28	2	424.5	2	0.2737	2	0.290	2	0.595
12203	C7H16O	2,4-dimethyl-1-pentanol, (±)	111768-02-6	219.25	2	432.15	1	587.20	2	31.51	2	434.1	2	0.2677	2	0.280	2	0.709
12204	C7H16O	2-heptanol, (±)	52390-72-4	219.25	2	432.15	1	587.20	2	31.51	2	434.1	2	0.2677	2	0.280	2	0.709
12205	C7H16O	3-heptanol, (S)	26549-25-7	203.15	1	430.15	1	587.20	2	31.51	2	434.1	2	0.2677	2	0.280	2	0.709
12206	C7H16O	2-methyl-1-hexanol, (±)	111768-04-8	219.25	2	437.15	1	587.20	2	31.51	2	434.1	2	0.2677	2	0.280	2	0.709
12207	C7H16O	3-methyl-1-hexanol, (±)	111768-08-2	219.25	2	443.15	1	587.20	2	31.51	2	434.1	2	0.2677	2	0.280	2	0.709
12208	C7H16O	4-methyl-1-hexanol, (±)	111768-05-9	219.25	2	446.15	1	587.20	2	31.51	2	434.1	2	0.2677	2	0.280	2	0.709
12209	C7H16O	2-methyl-3-hexanol, (±)	100295-82-7	219.25	2	416.15	1	587.20	2	31.51	2	434.1	2	0.2677	2	0.280	2	0.709
12210	C7H16O	5-methyl-3-hexanol, (±)	100295-83-8	219.25	2	420.15	1	587.20	2	31.51	2	434.1	2	0.2677	2	0.280	2	0.709
12211	C7H16O	isopropyl-tert-butyl-ether	17348-59-3	177.80	1	378.66	1	558.21	2	28.29	2	428.5	2	0.2712	2	0.261	2	0.307
12212	C7H16O	butyl propyl ether	3073-92-5	177.80	2	391.25	1	558.21	2	28.29	2	428.5	2	0.2712	2	0.261	2	0.307
12212.1	C7H16O	isopropyl isobutyl ether	78448-33-6	180.00	2	371.20	1	537.00	2	27.90	2	435.0	2	0.3039	2	0.272	2	0.379
12213	C7H16O	2-ethoxy-2-methylbutane	919-94-8	190.00	2	374.57	1	546.00	1	27.40	2	452.0	1	0.2571	1	0.273	1,2	0.338
12214	C7H16O	ethyl isopentyl ether	628-04-6	177.80	2	385.65	1	558.21	2	28.29	2	428.5	2	0.2712	2	0.261	2	0.307
12215	C7H16O	ethyl pentyl ether	17952-11-3	177.80	2	390.75	1	558.21	2	28.29	2	428.5	2	0.2712	2	0.261	2	0.307
12216	C7H16O	hexyl methyl ether	4747-07-3	177.80	2	399.25	1	558.21	2	28.29	2	428.5	2	0.2712	2	0.261	2	0.307
12217	C7H16O	1-(1-methylethoxy)butane	1860-27-1	180.00	2	382.30	1	549.00	2	27.40	2	435.0	2	0.2671	2	0.261	2	0.403
12218	C7H16O	2-methyl-1-propoxypropane	15268-49-2	177.80	2	378.15	1	558.21	2	28.29	2	428.5	2	0.2712	2	0.261	2	0.307
12219	C7H16O	2-methyl-2-propoxypropane	29072-93-3	177.80	2	373.15	1	558.21	2	28.29	2	428.5	2	0.2712	2	0.261	2	0.307
12220	C7H16O	(S)-(+)-2-heptanol	6033-23-4	219.25	2	426.80	1	587.20	2	31.51	2	434.1	2	0.2677	2	0.280	2	0.709
12221	C7H16O	(R)-(-)-2-heptanol	6033-24-5	219.25	2	420.75	2	587.20	2	31.51	2	434.1	2	0.2677	2	0.280	2	0.709
12224	C7H16O2	1,2-heptanediol	3710-31-4	274.79	2	511.15	2	661.26	2	34.68	2	459.5	2	0.2877	2	0.290	2	1.245
12225	C7H16O2	1,3-heptanediol	23433-04-7	274.79	2	522.15	2	675.49	2	34.68	2	459.5	2	0.2877	2	0.284	2	1.245
12226	C7H16O2	1,4-heptanediol	40646-07-9	274.79	2	515.15	1	702.65	2	34.68	2	459.5	2	0.2877	2	0.273	2	1.245
12227	C7H16O2	1,5-heptanediol	60096-09-5	283.23	2	489.79	2	660.61	2	35.17	2	452.5	2	0.2922	2	0.290	2	1.181

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
12228	C7H16O2	1,6-heptanediol	13175-27-4	274.79	2	485.43	2	627.98	2	34.68	2	459.5	2	0.2877	2	0.305	2	1.245
12229	C7H16O2	1,7-heptanediol	629-30-1	293.15	1	535.15	1	683.18	2	34.36	2	465.5	2	0.2840	2	0.282	2	1.278
12230	C7H16O2	2,3-heptanediol	21508-07-6	259.79	2	508.21	2	660.11	2	35.01	2	453.5	2	0.2915	2	0.289	2	1.212
12231	C7H16O2	2,4-heptanediol	20748-86-1	259.79	2	508.21	2	660.11	2	35.01	2	453.5	2	0.2915	2	0.289	2	1.212
12232	C7H16O2	2,6-heptanediol	5969-12-0	259.79	2	508.21	2	660.11	2	35.01	2	453.5	2	0.2915	2	0.289	2	1.212
12233	C7H16O2	2-methyl-1,2-hexanediol	56255-50-6	292.21	2	494.25	2	644.63	2	35.14	2	454.5	2	0.2909	2	0.298	2	1.175
12234	C7H16O2	2-methyl-2,4-hexanediol	66225-35-2	277.21	2	517.03	2	677.27	2	35.47	2	448.5	2	0.2948	2	0.283	2	1.141
12235	C7H16O2	2-methyl-2,5-hexanediol	29044-06-2	309.65	1	517.03	2	677.27	2	35.47	2	448.5	2	0.2948	2	0.283	2	1.141
12236	C7H16O2	3-methyl-1,6-hexanediol	4089-71-8	274.79	2	485.43	2	627.98	2	34.68	2	459.5	2	0.2877	2	0.305	2	1.245
12237	C7H16O2	3-methyl-2,4-hexanediol	---	244.79	2	530.99	2	692.59	2	35.35	2	447.5	2	0.2954	2	0.275	2	1.178
12238	C7H16O2	3-methyl-3,4-hexanediol	18938-47-1	277.21	2	517.03	2	677.27	2	35.47	2	448.5	2	0.2948	2	0.283	2	1.141
12239	C7H16O2	4-methyl-1,5-hexanediol	66225-37-4	259.79	2	508.21	2	660.11	2	35.01	2	453.5	2	0.2915	2	0.289	2	1.212
12240	C7H16O2	4-methyl-2,4-hexanediol	38836-25-8	271.15	1	517.03	2	677.27	2	35.47	2	448.5	2	0.2948	2	0.283	2	1.141
12241	C7H16O2	5-methyl-1,5-hexanediol	1462-11-9	292.21	2	494.25	2	644.63	2	35.14	2	454.5	2	0.2909	2	0.298	2	1.175
12242	C7H16O2	5-methyl-2,4-hexanediol	54877-00-8	244.79	2	530.99	2	692.59	2	35.35	2	447.5	2	0.2954	2	0.275	2	1.178
12243	C7H16O2	2-ethyl-1,3-pentanediol	29887-11-4	258.42	2	497.74	2	645.60	2	34.20	2	468.5	2	0.2822	2	0.298	2	1.211
12244	C7H16O2	2-ethyl-1,5-pentanediol	14189-13-0	274.79	2	485.43	2	627.98	2	34.68	2	459.5	2	0.2877	2	0.305	2	1.245
12245	C7H16O2	3-ethyl-2,3-pentanediol	66225-32-9	277.21	2	480.00	2	628.77	2	35.47	2	448.5	2	0.2948	2	0.304	2	1.141
12246	C7H16O2	3-ethyl-2,4-pentanediol	66225-33-0	244.79	2	480.65	1	626.93	2	35.35	2	447.5	2	0.2954	2	0.303	2	1.178
12247	C7H16O2	2,2-dimethyl-1,3-pentanediol	2157-31-5	331.15	1	485.65	1	636.17	2	35.47	2	448.5	2	0.2948	2	0.301	2	1.141
12248	C7H16O2	2,2-dimethyl-1,5-pentanediol	3121-82-2	292.21	2	494.25	2	644.63	2	35.14	2	454.5	2	0.2909	2	0.298	2	1.175
12249	C7H16O2	2,3-dimethyl-1,3-pentanediol	66225-52-3	277.21	2	517.03	2	677.27	2	35.47	2	448.5	2	0.2948	2	0.283	2	1.141
12250	C7H16O2	2,3-dimethyl-2,3-pentanediol	6931-70-0	294.63	2	525.85	2	695.12	2	35.94	2	443.5	2	0.2981	2	0.276	2	1.069
12251	C7H16O2	DL-2,4-dimethyl-1,5-pentanediol	54630-82-9	259.79	2	508.21	2	660.11	2	35.01	2	453.5	2	0.2915	2	0.289	2	1.212
12252	C7H16O2	meso-2,4-dimethyl-1,5-pentanediol	2121-69-9	259.79	2	508.21	2	660.11	2	35.01	2	453.5	2	0.2915	2	0.289	2	1.212
12253	C7H16O2	2,4-dimethyl-2,3-pentanediol	66225-53-4	332.15	1	459.15	1	604.17	2	35.81	2	442.5	2	0.2988	2	0.315	2	1.107
12254	C7H16O2	2,4-dimethyl-2,4-pentanediol	24892-49-7	271.15	1	470.00	2	621.29	2	35.94	2	443.5	2	0.2981	2	0.309	2	1.069
12255	C7H16O2	3,3-dimethyl-1,5-pentanediol	53120-74-4	292.21	2	494.25	2	644.63	2	35.14	2	454.5	2	0.2909	2	0.298	2	1.175
12256	C7H16O2	3,4-dimethyl-1,4-pentanediol	63521-36-8	277.21	2	517.03	2	677.27	2	35.47	2	448.5	2	0.2948	2	0.283	2	1.141
12257	C7H16O2	4,4-dimethyl-1,2-pentanediol	66225-54-5	277.21	2	517.03	2	677.27	2	35.47	2	448.5	2	0.2948	2	0.283	2	1.141
12258	C7H16O2	erythro-4,4-dimethyl-2,3-pentanediol	23646-57-3	347.15	1	539.81	2	710.30	2	35.81	2	442.5	2	0.2988	2	0.268	2	1.107
12259	C7H16O2	threo-4,4-dimethyl-2,3-pentanediol	23646-58-4	350.15	1	539.81	2	710.30	2	35.81	2	442.5	2	0.2988	2	0.268	2	1.107
12260	C7H16O2	2-propyl-1,4-butanediol	62946-68-3	274.79	2	485.43	2	627.98	2	34.68	2	459.5	2	0.2877	2	0.305	2	1.245
12261	C7H16O2	2-isopropyl-1,4-butanediol	39497-66-0	259.79	2	508.21	2	660.11	2	35.01	2	453.5	2	0.2915	2	0.289	2	1.212
12262	C7H16O2	2-methyl-3-ethyl-1,4-butanediol	---	259.79	2	508.21	2	660.11	2	35.01	2	453.5	2	0.2915	2	0.289	2	1.212
12263	C7H16O2	2-sec-butyl-1,3-propanediol	33673-01-7	322.15	1	508.21	2	660.11	2	35.01	2	453.5	2	0.2915	2	0.289	2	1.212
12264	C7H16O2	2-methyl-2-propyl-1,3-propanediol	78-26-2	328.85	1	509.85	1	664.98	2	35.14	2	454.5	2	0.2909	2	0.289	2	1.175
12265	C7H16O2	2,2-diethyl-1,3-propanediol	115-76-4	334.55	1	507.15	1	661.45	2	35.14	2	454.5	2	0.2909	2	0.290	2	1.175
12266	C7H16O2	1-butoxy-2-propanol	5131-66-8	257.70	2	444.65	1	618.00	2	29.40	2	460.6	2	0.2870	2	0.264	2	---
12270	C7H16O2	2-(pentyloxy)ethanol	6196-58-3	257.70	2	458.15	1	618.00	2	29.40	2	460.6	2	0.2870	2	0.264	2	---
12272	C7H16O2	1-tert-butoxy-2-propanol	57018-52-7	217.25	1	417.15	1	567.00	2	29.90	2	433.0	2	0.3053	2	0.275	2	0.774
12274	C7H16O2	1-isobutoxy-2-propanol	23436-19-3	298.15	1	438.15	1	618.00	2	29.40	2	460.6	2	0.2870	2	0.264	2	---
12275	C7H16O2	propylene glycol butyl ether, isomers	29387-86-8	257.70	2	443.15	1	618.00	2	29.40	2	460.6	2	0.2870	2	0.264	2	---
12275.1	C7H16O2	propylene glycol 2-tert-butyl ether	94023-15-1	---	---	425.15	1	578.00	2	29.90	2	439.0	2	0.3011	2	0.273	2	0.775
12275.2	C7H16O2	diethylene glycol monopropyl ether	6881-94-3	220.85	2	487.99	1	679.00	1	30.02	1	489.0	1	0.2704	1	0.260	2	0.611
12276	C7H16O2	1-butoxy-2-methoxyethane	13343-98-1	257.70	2	420.08	1	618.00	2	29.40	2	460.6	2	0.2870	2	0.264	2	---
12277	C7H16O2	3-butoxy-1-propanol	10215-33-5	257.70	2	489.79	2	618.00	2	29.40	2	460.6	2	0.2870	2	0.264	2	---
12278	C7H16O2	n-butoxypropanol (mixed isomers)	63716-40-5	257.70	2	489.79	2	618.00	2	29.40	2	460.6	2	0.2870	2	0.264	2	---
12279	C7H16O2	isobutoxypropanol, mixed isomers	63716-39-2	257.70	2	489.79	2	618.00	2	29.40	2	460.6	2	0.2870	2	0.264	2	---
12282	C7H16O3	dipropylene glycol monomethyl ether	34590-94-8	193.15	1	461.45	1	612.00	2	29.00	2	466.6	2	0.3176	2	0.266	2	0.880
12295	C7H16O4	triethylene glycol monomethyl ether	112-35-6	229.15	1	522.15	1	677.00	2	27.30	2	496.0	2	0.3311	2	0.241	2	1.038
12300	C7H16S	heptyl mercaptan	1639-09-4	229.92	1	450.09	1	645.00	2	27.70	2	465.0	2	0.2845	2	0.240	2	0.419
12301	C7H16S	2-heptanethiol	1628-00-2	132.15	1	436.75	1	632.00	2	28.00	2	472.0	2	0.2802	2	0.252	2	0.388
12302	C7H16S	methyl hexyl sulfide	20291-60-5	206.35	1	440.00	2	638.37	2	28.51	2	481.5	2	0.2747	2	0.259	2	0.420
12303	C7H16S	ethyl pentyl sulfide	26158-99-6	206.66	2	440.00	2	638.37	2	28.51	2	481.5	2	0.2747	2	0.259	2	0.420
12304	C7H16S	propyl butyl sulfide	1613-46-3	206.66	2	431.00	1	653.50	2	28.51	2	481.5	2	0.2747	2	0.253	2	0.318
12315	C7H17N	heptylamine	111-68-2	254.15	1	430.05	1	607.00	2	28.50	2	471.0	2	0.2446	2	0.266	2	0.511
12316	C7H17N	2,4-dimethyl-2-pentanamine	64379-30-2	254.15	2	395.15	1	565.35	2	29.19	2	459.3	2	0.2509	2	0.285	2	0.409
12317	C7H17N	2-heptanamine	123-82-0	254.15	2	415.15	1	565.35	2	29.19	2	459.3	2	0.2509	2	0.285	2	0.409
12318	C7H17N	4-heptanamine	16751-59-0	254.15	2	412.65	1	565.35	2	29.19	2	459.3	2	0.2509	2	0.285	2	0.409
12319	C7H17N	3-methyl-1-hexanamine	65530-93-0	254.15	2	422.15	1	565.35	2	29.19	2	459.3	2	0.2509	2	0.285	2	0.409
12320	C7H17N	4-methyl-2-hexanamine	105-41-9	254.15	2	405.65	1	565.35	2	29.19	2	459.3	2	0.2509	2	0.285	2	0.409
12321	C7H17N	4-methyl-1-hexylamine	34263-68-8	254.15	2	426.15	1	565.35	2	29.19	2	459.3	2	0.2509	2	0.285	2	0.409
12322	C7H17N	methylhexylamine	35161-70-7	235.15	1	415.15	1	586.80	2	28.60	2	455.0	2	0.2532	2	0.267	2	0.509
12323	C7H17N	ethylpentylamine	17839-26-8	235.15	2	407.15	1	575.00	2	27.50	2	455.0	2	0.2532	2	0.262	2	0.496
12324	C7H17N	dimethylpentylamine	26153-88-8	190.00	2	395.15	1	584.20	2	28.10	2	455.0	2	0.2532	2	0.263	2	0.298
12325	C7H17N	dimethyl-2-pentylamine	57303-85-2	190.00	2	382.15	1	553.21	2	29.41	2	459.5	2	0.2507	2	0.294	2	0.406
12326	C7H17N	dimethyl-3-pentylamine	18636-94-7	190.00	2	389.15	1	563.35	2	29.41	2	459.5	2	0.2507	2	0.289	2	0.406
12327	C7H17N	dimethyl-2-methylbutylamine	66225-39-6	190.00	2	388.00	2	561.68	2	29.41	2	459.5	2	0.2507	2	0.289	2	0.406
12328	C7H17N	dimethyl-3-methylbutylamine	2315-43-7	190.00	2	386.65	1	559.73	2	29.41	2	459.5	2	0.2507	2	0.290	2	0.406
12329	C7H17N	dimethyl-1,1-dimethylpropylamine	57757-60-5	190.00	2	391.15	1	574.99	2	29.76	2	454.5	2	0.2535	2	0.283	2	0.344
12330	C7H17N	dimethyl-1,2-dimethylpropylamine	66225-38-5	190.00	2	390.50	2	565.30	2	29.41	2	459.5	2	0.2507	2	0.288	2	0.406
12331	C7H17N	dimethyl-2,2-dimethylpropylamine	10076-31-0	190.00	2	390.50	2	574.03	2	29.76	2	454.5	2	0.2535	2	0.283	2	0.344
12332	C7H17N	methylethylbutylamine	66225-40-9	190.00	2	390.15	1	560.63	2	29.16	2	465.5	2	0.2475	2	0.291	2	0.437
12333	C7H17N	methylethyl-sec-butylamine	66225-41-0	190.00	2	376.15	1	544.53	2	29.41	2	459.5	2	0.2507	2	0.298	2	0.406
12334	C7H17N	methylethylisobutylamine	60247-14-5	190.00	2	380.15	1	550.32	2	29.41	2	459.5	2	0.2507	2	0.295	2	0.406
12335	C7H17N	methylethyl-tert-butylamine	52841-28-8	190.00	2	383.15	1	563.23	2	29.76	2	454.5	2	0.2535	2	0.289	2	0.344
12336	C7H17N	methyldipropylamine	3405-42-3	190.00	2	387.25	1	556.46	2	29.16	2	465.5	2	0.2475	2	0.293	2	0.437
12337	C7H17N	methylpropylisopropylamine	66225-42-1	190.00	2	386.00	2	558.79	2	29.41	2	459.5	2	0.2507	2	0.291	2	0.406
12338	C7H17N	methyldiisopropylamine	10342-97-9	190.00	2	385.15	1	561.82	2	29.67	2	453.5	2	0.2541	2	0.288	2	0.376

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
12339	C7H17N	diethylpropylamine	4458-31-5	190.00	2	385.15	1	553.45	2	29.16	2	465.5	2	0.2475	2	0.295	2	0.437
12340	C7H17N	diethylisopropylamine	6006-15-1	190.00	2	381.65	1	552.49	2	29.41	2	459.5	2	0.2507	2	0.294	2	0.406
12341	C7H17N	N-tert-butylisopropylamine	7515-80-2	235.15	2	371.15	1	565.35	2	29.19	2	459.3	2	0.2509	2	0.285	2	0.409
12342	C7H17N	(S)-2-heptylamine	44745-29-1	254.15	2	416.15	1	565.35	2	29.19	2	459.3	2	0.2509	2	0.285	2	0.409
12343	C7H17N	(R)-2-heptylamine	6240-90-0	254.15	2	416.15	1	565.35	2	29.19	2	459.3	2	0.2509	2	0.285	2	0.409
12344	C7H17N	N-propylbutylamine	20193-21-9	235.15	2	406.65	1	565.35	2	29.19	2	459.3	2	0.2509	2	0.285	2	0.409
12345	C7H17N	3-aminoheptane	28292-42-4	254.15	2	414.15	1	565.35	2	29.19	2	459.3	2	0.2509	2	0.285	2	0.409
12346	C7H17N	5-methyl-2-hexylamine	28292-43-5	254.15	2	397.47	2	565.35	2	29.19	2	459.3	2	0.2509	2	0.285	2	0.409
12347	C7H17NO	1-(diethylamino)-2-propanol, (±)	78738-36-0	286.65	1	432.15	1	716.00	2	33.00	2	468.3	2	0.2802	2	0.260	2	---
12348	C7H17NO	2-(diethylamino)-1-propanol	611-12-1	260.52	2	439.15	1	716.00	2	33.00	2	468.3	2	0.2802	2	0.260	2	---
12349	C7H17NO	3-(diethylamino)-1-propanol	622-93-5	260.52	2	462.65	1	716.00	2	33.00	2	468.3	2	0.2802	2	0.260	2	---
12350	C7H17NO	2-[isopentylamino]ethanol	34240-76-1	260.52	2	478.15	1	716.00	2	33.00	2	468.3	2	0.2802	2	0.260	2	---
12351	C7H17NO	3-butoxypropylamine	16499-88-0	208.25	1	446.15	1	716.00	2	33.00	2	468.3	2	0.2802	2	0.260	2	---
12352	C7H17NO	1-diethylamino-2-propanol	4402-32-8	286.65	1	451.65	2	716.00	2	33.00	2	468.3	2	0.2802	2	0.260	2	---
12353	C7H17NO	4-amino-2-methyl-3-hexanol	63765-80-0	260.52	2	451.65	2	716.00	2	33.00	2	468.3	2	0.2802	2	0.260	2	---
12375	C7H18N2	N,N-diethyl-1,3-propanediamine	104-78-9	302.05	2	441.65	1	689.00	2	34.50	2	465.4	2	0.2798	2	0.280	2	---
12376	C7H18N2	1,7-heptanediamine	646-19-5	302.05	1	497.15	1	689.00	2	34.50	2	465.4	2	0.2798	2	0.280	2	---
12377	C7H18N2	N,N,N',N'-tetramethyl-1,3-propanediamine	110-95-2	302.05	2	417.15	1	689.00	2	34.50	2	465.4	2	0.2798	2	0.280	2	---
12378	C7H18N2	N,N-diethyl-N'-methylethylenediamine	104-79-0	302.05	2	431.65	1	689.00	2	34.50	2	465.4	2	0.2798	2	0.280	2	---
12379	C7H18N2	N,N,2,2-tetramethyl-1,3-propanediamine	53369-71-4	302.05	2	429.65	1	689.00	2	34.50	2	465.4	2	0.2798	2	0.280	2	---
12380	C7H18N2	3-diethylaminopropylamine	14642-66-1	302.05	2	443.45	2	689.00	2	34.50	2	465.4	2	0.2798	2	0.280	2	---
12520	C8H4Cl2O2	isophthaloyl chloride	99-63-8	317.00	1	549.00	1	768.00	2	33.30	2	471.0	2	0.4310	2	0.246	2	0.646
12594	C8H4O3	phthalic anhydride	85-44-9	404.26	1	557.65	1	791.00	2	47.20	2	421.0	2	0.3518	2	0.302	2	0.708
12713	C8H6	ethynylbenzene	536-74-3	228.30	1	416.00	1	650.00	2	42.80	2	332.0	2	0.3076	2	0.263	2	0.226
12918	C8H6O2	1,4-benzenedicarboxaldehyde	623-27-8	389.15	1	519.65	1	739.00	2	36.70	2	383.0	2	0.3502	2	0.229	2	0.583
12928	C8H6O3	2-formylbenzoic acid	119-67-5	370.15	1	561.00	2	772.00	2	38.30	2	372.0	2	0.4036	2	0.222	2	0.819
12932	C8H6O3	4-formylbenzoic acid	619-66-9	520.15	1	702.00	2	966.00	2	38.20	2	393.0	2	0.3820	2	0.187	2	0.817
12934	C8H6O4	isophthalic acid	121-91-5	619.15	1	753.00	1	1007.00	2	39.50	2	424.0	2	0.3918	2	0.200	2	1.061
12935	C8H6O4	phthalic acid	88-99-3	464.15	1	598.00	1	800.00	2	39.50	2	424.0	2	0.3918	2	0.252	2	1.058
12936	C8H6O4	terephthalic acid	100-21-0	700.15	1	832.00	1	1113.00	2	39.50	2	424.0	2	0.3918	2	0.181	2	1.059
12947	C8H6S	benzothiophene	95-15-8	304.50	1	493.05	1	754.00	2	41.40	2	349.0	2	0.3845	2	0.230	2	0.296
13107	C8H7N	indole	120-72-9	326.15	1	526.15	1	790.00	2	43.00	2	431.0	2	0.2718	2	0.282	2	0.376
13108	C8H7N	benzeneacetonitrile	140-29-4	249.35	1	506.65	1	732.00	2	34.60	2	391.0	2	0.2996	2	0.222	2	0.472
13237	C8H8	styrene	100-42-5	242.54	1	418.31	1	636.00	2	38.40	2	352.0	2	0.2959	2	0.256	2	0.297
13238	C8H8	1,3,5,7-cyclooctatetraene	629-20-9	266.16	1	413.16	1	642.55	2	41.41	2	345.5	2	0.3015	2	0.268	2	0.244
13281	C8H8Cl2	1,2-bis(chloromethyl)benzene	612-12-4	328.15	1	512.65	1	735.00	2	33.00	2	446.0	2	0.3925	2	0.241	2	---
13282	C8H8Cl2	1,3-bis(chloromethyl)benzene	626-16-4	307.35	1	524.65	1	735.00	2	33.00	2	446.0	2	0.3925	2	0.241	2	---
13283	C8H8Cl2	1,4-bis(chloromethyl)benzene	623-25-6	373.15	1	524.65	2	735.00	2	33.00	2	446.0	2	0.3925	2	0.241	2	---
13284	C8H8Cl2	1,2-dichloro-3,4-dimethylbenzene	68266-67-1	282.15	1	504.15	1	735.00	2	33.00	2	446.0	2	0.3925	2	0.241	2	---
13285	C8H8Cl2	1,3-dichloro-2,5-dimethylbenzene	38204-89-6	288.15	1	495.15	1	735.00	2	33.00	2	446.0	2	0.3925	2	0.241	2	---
13286	C8H8Cl2	1,4-dichloro-2,5-dimethylbenzene	1124-05-6	344.15	1	495.15	1	735.00	2	33.00	2	446.0	2	0.3925	2	0.241	2	---
13287	C8H8Cl2	1,5-dichloro-2,4-dimethylbenzene	2084-45-9	341.65	1	496.15	1	735.00	2	33.00	2	446.0	2	0.3925	2	0.241	2	---
13288	C8H8Cl2	2,3-dichloro-1,4-dimethylbenzene	34840-79-4	272.15	1	503.15	1	735.00	2	33.00	2	446.0	2	0.3925	2	0.241	2	---
13289	C8H8Cl2	(1,2-dichloroethyl)benzene	1074-11-9	318.86	2	506.65	1	735.00	2	33.00	2	446.0	2	0.3925	2	0.241	2	---
13290	C8H8Cl2	1,4-dichloro-2-ethylbenzene	54484-63-8	318.86	2	486.65	1	735.00	2	33.00	2	446.0	2	0.3925	2	0.241	2	---
13291	C8H8Cl2	1-(dichloromethyl)-4-methylbenzene	23063-36-7	321.65	1	486.53	2	735.00	2	33.00	2	446.0	2	0.3925	2	0.241	2	---
13292	C8H8Cl2	ethyldichlorobenzene	1331-29-9	330.00	2	486.53	2	735.00	2	33.00	2	446.0	2	0.3925	2	0.241	2	---
13293	C8H8Cl2	xylene chloride	28347-13-9	318.86	2	486.53	2	735.00	2	33.00	2	446.0	2	0.3925	2	0.241	2	---
13391	C8H8O	acetophenone	98-86-2	292.81	1	475.26	1	709.60	1	40.10	1	386.0	1	0.3113	1	0.262	1	0.383
13392	C8H8O	p-tolualdehyde	104-87-0	---	---	477.15	1	698.00	2	36.70	2	416.0	2	0.2888	2	0.263	2	0.442
13394	C8H8O	2-methylbenzaldehyde	529-20-4	235.00	2	474.15	1	694.00	2	36.70	2	386.0	2	0.3113	2	0.246	2	0.435
13395	C8H8O	3-methylbenzaldehyde	620-23-5	251.00	2	472.15	1	691.00	2	36.70	2	376.0	2	0.3196	2	0.240	2	0.433
13401	C8H8O	phthalan	496-14-0	279.15	1	465.15	1	700.00	1	42.85	1	356.2	1	0.3373	1	0.262	1	0.372
13405	C8H8O	4-vinylphenol	2628-17-3	346.65	1	502.00	1	736.00	2	45.20	2	374.0	2	0.3213	2	0.276	2	0.509
13412	C8H8O2	methyl benzoate	93-58-3	260.75	1	472.65	1	693.00	2	35.90	2	436.0	2	0.3123	2	0.272	2	0.421
13413	C8H8O2	o-toluic acid	118-90-1	376.85	1	532.00	1	751.00	2	38.60	2	397.0	2	0.3429	2	0.245	2	0.657
13414	C8H8O2	p-toluic acid	99-94-5	452.75	1	548.15	1	773.00	2	38.60	2	397.0	2	0.3429	2	0.238	2	0.661
13416	C8H8O2	benzyl formate	104-57-4	---	---	476.15	1	698.00	2	35.90	2	397.0	2	0.3429	2	0.246	2	0.420
13427	C8H8O2	1-(2-hydroxyphenyl)ethanone	118-93-4	278.15	1	494.70	1	707.00	2	44.50	2	394.0	2	0.3456	2	0.298	2	0.638
13429	C8H8O2	1-(4-hydroxyphenyl)ethanone	99-93-4	382.15	1	601.65	1	860.00	2	44.50	2	394.0	2	0.3456	2	0.245	2	0.641
13445	C8H8O3	methyl salicylate	119-36-8	265.15	1	493.90	1	709.00	1	40.90	2	410.0	2	0.3711	2	0.284	1,2	0.581
13446	C8H8O3	vanillin	121-33-5	355.00	1	558.00	1	777.00	2	40.10	2	415.0	2	0.3666	2	0.258	2	0.757
13671	C8H9NO	acetanilide	103-84-4	387.65	1	576.95	1	825.00	2	37.30	2	430.0	2	0.3143	2	0.234	2	0.565
13705	C8H9NO2	N-(4-hydroxyphenyl)acetamide	103-90-2	440.65	1	530.00	2	736.00	2	42.60	2	452.0	2	0.3344	2	0.315	2	0.800
13789	C8H10	ethylbenzene	100-41-4	178.20	1	409.35	1	617.15	1	36.09	1	374.0	1	0.2839	1	0.263	1	0.304
13790	C8H10	o-xylene	95-47-6	247.98	1	417.58	1	630.30	1	37.32	1	370.0	1	0.2869	1	0.264	1	0.310
13791	C8H10	m-xylene	108-38-3	225.30	1	412.27	1	617.00	1	35.41	1	375.0	1	0.2831	1	0.259	1	0.327
13792	C8H10	p-xylene	106-42-3	286.41	1	411.51	1	616.20	1	35.11	1	378.0	1	0.2809	1	0.259	1	0.322
13793	C8H10	xylenes	1330-20-7	243.75	1	413.15	1	620.21	2	35.99	2	374.5	2	0.2836	2	0.261	2	0.317
13900	C8H10N4O2	caffeine	58-08-2	509.15	1	---	---	---	---	---	---	510.0	2	0.3808	2	---	---	---
13912	C8H10O	phenetole	103-73-1	243.63	1	443.15	1	647.15	1	34.20	1	390.0	2	0.3132	2	0.248	1,2	0.418
13913	C8H10O	2-phenylethanol	60-12-8	246.15	1	492.05	1	684.00	2	39.20	2	387.0	2	0.3157	2	0.267	2	0.743
13914	C8H10O	2-methylbenzenemethanol	89-95-2	309.15	1	497.15	1	691.00	2	39.20	2	387.0	2	0.3157	2	0.264	2	0.743
13915	C8H10O	3-methylbenzenemethanol	587-03-1	252.00	2	490.15	1	681.00	2	39.10	2	387.0	2	0.3157	2	0.267	2	0.751
13916	C8H10O	4-methylbenzenemethanol	589-18-4	332.65	1	490.15	1	681.00	2	39.20	2	387.0	2	0.3157	2	0.268	2	0.748
13917	C8H10O	1-phenylethanol	98-85-1	292.65	1	477.15	1	668.00	2	39.90	2	387.0	2	0.3157	2	0.278	2	0.706
13918	C8H10O	o-ethylphenol	90-00-6	269.84	1	477.67	1	703.00	1	42.90	2	351.0	2	0.3481	2	0.258	1,2	0.476
13919	C8H10O	m-ethylphenol	620-17-7	269.15	1	491.57	1	716.45	1	42.90	2	387.0	2	0.3157	2	0.279	1,2	0.519
13920	C8H10O	p-ethylphenol	123-07-9	318.23	1	491.14	1	716.45	1	42.90	2	374.0	2	0.3266	2	0.269	1,2	0.515
13921	C8H10O	2,3-xylenol	526-75-0	345.71	1	490.07	1	722.95	1	49.00	2	360.0	2	0.3394	2	0.293	1,2	0.516

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
13922	C8H10O	2,4-xylenol	105-67-9	297.68	1	484.13	1	707.65	1	44.00	2	390.0	2	0.3132	2	0.292	1,2	0.514
13923	C8H10O	2,5-xylenol	95-87-4	347.99	1	484.33	1	707.05	1	49.00	2	350.0	2	0.3490	2	0.292	1,2	0.564
13924	C8H10O	2,6-xylenol	576-26-1	318.76	1	474.22	1	701.25	1	43.00	2	390.0	2	0.3132	2	0.288	1,2	0.455
13925	C8H10O	3,4-xylenol	95-65-8	338.25	1	500.15	1	729.95	1	50.00	2	350.0	2	0.3490	2	0.288	1,2	0.576
13926	C8H10O	3,5-xylenol	108-68-9	336.59	1	494.89	1	715.65	1	36.00	2	480.0	2	0.2545	2	0.290	1,2	0.485
13934	C8H10O	dimethyl phenol	1300-71-6	315.38	2	411.65	1	713.62	2	44.32	2	376.8	2	0.3276	2	0.281	2	0.513
13985.1	C8H10O2	ethylbenzene hydroperoxide	3071-32-7	---	---	536.00	2	737.00	2	37.90	2	416.0	2	0.3321	2	0.257	2	0.813
14028	C8H10O4	ethylene glycol diacrylate	2274-11-5	---	---	503.00	2	689.00	2	27.00	2	518.0	2	0.3285	2	0.244	2	0.662
14039	C8H10S	o-ethylthiophenol	4500-58-7	264.38	2	483.15	1	722.65	2	38.77	2	429.5	2	0.3218	2	0.277	2	0.374
14040	C8H10S	m-ethylthiophenol	62154-77-2	264.38	2	484.15	1	724.15	2	38.77	2	429.5	2	0.3218	2	0.277	2	0.374
14041	C8H10S	p-ethylthiophenol	4946-13-8	264.38	2	484.15	1	724.15	2	38.77	2	429.5	2	0.3218	2	0.277	2	0.374
14042	C8H10S	2,3-dimethylthiophenol	18800-51-6	248.01	2	489.45	2	730.98	2	38.06	2	429.5	2	0.3218	2	0.269	2	0.373
14043	C8H10S	2,4-dimethylthiophenol	13616-82-5	248.01	2	481.15	1	718.58	2	38.06	2	429.5	2	0.3218	2	0.274	2	0.373
14044	C8H10S	2,5-dimethylthiophenol	4001-61-0	248.01	2	478.15	1	714.10	2	38.06	2	429.5	2	0.3218	2	0.275	2	0.373
14045	C8H10S	2,6-dimethylthiophenol	118-72-9	248.01	2	489.45	2	730.98	2	38.06	2	429.5	2	0.3218	2	0.269	2	0.373
14046	C8H10S	3,4-dimethylthiophenol	18800-53-8	248.01	2	489.45	2	730.98	2	38.06	2	429.5	2	0.3218	2	0.269	2	0.373
14047	C8H10S	3,5-dimethylthiophenol	38360-81-5	248.01	2	489.45	2	730.98	2	38.06	2	429.5	2	0.3218	2	0.269	2	0.373
14048	C8H10S	(1-thiapropyl)-benzene	622-38-8	128.17	2	478.15	1	712.96	2	37.27	2	429.5	2	0.3218	2	0.270	2	0.372
14049	C8H10S	2-methyl-(1-thiaethyl)-benzene	---	111.80	2	482.88	2	718.95	2	36.60	2	429.5	2	0.3218	2	0.263	2	0.371
14050	C8H10S	3-methyl-(1-thiaethyl)-benzene	4886-77-5	111.80	2	482.88	2	718.95	2	36.60	2	429.5	2	0.3218	2	0.263	2	0.371
14051	C8H10S	4-methyl-(1-thiaethyl)-benzene	623-13-2	111.80	2	490.15	1	729.78	2	36.60	2	429.5	2	0.3218	2	0.259	2	0.371
14052	C8H10S	[(methylthio)methyl]benzene	766-92-7	243.15	1	483.15	1	725.28	2	38.30	2	429.5	2	0.3218	2	0.273	2	0.374
14053	C8H10S	alpha-methylbenzenemethanethiol, (S)	33877-11-1	252.44	2	472.15	1	725.28	2	38.30	2	429.5	2	0.3218	2	0.273	2	0.374
14054	C8H10S	2-phenylethanethiol	4410-99-5	252.44	2	490.65	1	725.28	2	38.30	2	429.5	2	0.3218	2	0.273	2	0.374
14082	C8H11N	N,N-dimethylaniline	121-69-7	275.65	1	466.69	1	687.15	1	36.30	1	465.0	2	0.2606	2	0.295	1,2	0.402
14083	C8H11N	o-ethylaniline	578-54-1	226.55	1	482.65	1	704.00	2	37.40	2	426.0	2	0.2845	2	0.272	2	0.462
14084	C8H11N	N,2-dimethylaniline	611-21-2	263.07	2	480.65	1	695.58	2	36.84	2	432.0	2	0.2822	2	0.275	2	0.433
14085	C8H11N	N,3-dimethylaniline	696-44-6	263.07	2	479.65	1	695.58	2	36.84	2	432.0	2	0.2822	2	0.275	2	0.433
14086	C8H11N	N,4-dimethylaniline	623-08-5	263.07	2	483.15	1	695.58	2	36.84	2	432.0	2	0.2822	2	0.275	2	0.433
14087	C8H11N	2,3-dimethylaniline	87-59-2	263.07	2	494.65	1	695.58	2	36.84	2	432.0	2	0.2822	2	0.275	2	0.433
14088	C8H11N	2,4-dimethylaniline	95-68-1	258.85	1	487.15	1	695.58	2	36.84	2	432.0	2	0.2822	2	0.275	2	0.433
14089	C8H11N	2,5-dimethylaniline	95-78-3	288.65	1	487.15	1	695.58	2	36.84	2	432.0	2	0.2822	2	0.275	2	0.433
14090	C8H11N	2,6-dimethylaniline	87-62-7	284.35	1	488.15	1	695.58	2	36.84	2	432.0	2	0.2822	2	0.275	2	0.433
14091	C8H11N	3,4-dimethylaniline	95-64-7	324.15	1	501.15	1	695.58	2	36.84	2	432.0	2	0.2822	2	0.275	2	0.433
14092	C8H11N	3,5-dimethylaniline	108-69-0	282.95	1	493.65	1	695.58	2	36.84	2	432.0	2	0.2822	2	0.275	2	0.433
14093	C8H11N	m-ethylaniline	587-02-0	209.15	1	487.15	1	695.58	2	36.84	2	432.0	2	0.2822	2	0.275	2	0.433
14094	C8H11N	p-ethylaniline	589-16-2	270.75	1	490.65	1	695.58	2	36.84	2	432.0	2	0.2822	2	0.275	2	0.433
14095	C8H11N	N-ethylaniline	103-69-5	209.65	1	476.15	1	698.55	1	35.80	2	426.0	2	0.2845	2	0.263	1,2	0.415
14096	C8H11N	2,4,6-trimethylpyridine	108-75-8	228.95	1	443.70	1	653.00	2	33.30	2	417.0	2	0.2906	2	0.256	2	0.375
14097	C8H11N	2-ethyl-4-methylpyridine	2150-18-7	216.18	2	447.15	1	653.00	2	33.30	2	417.0	2	0.2906	2	0.256	2	0.376
14098	C8H11N	2-ethyl-6-methylpyridine	1122-69-6	216.18	2	433.65	1	653.00	2	33.30	2	417.0	2	0.2906	2	0.256	2	0.376
14099	C8H11N	3-ethyl-4-methylpyridine	529-21-5	216.18	2	471.15	1	653.00	2	33.30	2	417.0	2	0.2906	2	0.256	2	0.376
14100	C8H11N	4-ethyl-2-methylpyridine	536-88-9	216.18	2	452.15	1	653.00	2	33.30	2	417.0	2	0.2906	2	0.256	2	0.376
14101	C8H11N	2-isopropylpyridine	644-98-4	132.15	1	432.95	1	653.00	2	33.30	2	417.0	2	0.2906	2	0.256	2	0.376
14102	C8H11N	3-isopropylpyridine	6304-18-3	227.35	1	450.65	1	653.00	2	33.30	2	417.0	2	0.2906	2	0.256	2	0.376
14103	C8H11N	4-isopropylpyridine	696-30-0	218.25	1	451.15	1	653.00	2	33.30	2	417.0	2	0.2906	2	0.256	2	0.376
14104	C8H11N	4-propylpyridine	1122-81-2	216.18	2	458.15	1	653.00	2	33.30	2	417.0	2	0.2906	2	0.256	2	0.376
14105	C8H11N	2-propylpyridine	622-39-9	274.15	1	440.15	1	653.00	2	33.30	2	417.0	2	0.2906	2	0.256	2	0.376
14106	C8H11N	2,3,4-trimethylpyridine	2233-29-6	216.18	2	465.65	1	653.00	2	33.30	2	417.0	2	0.2906	2	0.256	2	0.376
14107	C8H11N	2,3,5-trimethylpyridine	695-98-7	216.18	2	457.15	1	653.00	2	33.30	2	417.0	2	0.2906	2	0.256	2	0.376
14108	C8H11N	2,3,6-trimethylpyridine	1462-84-6	216.18	2	444.75	1	653.00	2	33.30	2	417.0	2	0.2906	2	0.256	2	0.376
14109	C8H11N	2,4,5-trimethylpyridine	1122-39-0	216.18	2	461.15	1	653.00	2	33.30	2	417.0	2	0.2906	2	0.256	2	0.376
14124	C8H11NO	p-phenetidine	156-43-4	277.00	1	528.00	1	754.00	2	35.70	2	446.0	2	0.3076	2	0.254	2	0.553
14228	C8H12	1,5-cyclooctadiene	111-78-4	203.98	1	423.27	1	645.00	2	39.00	2	366.0	2	0.2956	2	0.266	2	0.286
14229	C8H12	1,4-cyclooctadiene	1073-07-0	220.15	1	418.15	1	645.00	2	39.00	2	366.0	2	0.2956	2	0.266	2	0.286
14230	C8H12	cis,cis-1,5-cyclooctadiene	1552-12-1	203.15	1	424.15	1	645.00	2	39.00	2	366.0	2	0.2956	2	0.266	2	0.286
14230.1	C8H12	methylnorbornene	694-92-8	---	---	390.15	1	600.00	2	34.40	2	377.0	2	0.2870	2	0.260	2	0.211
14231	C8H12	vinylcyclohexene	100-40-3	164.00	1	401.00	1	599.00	2	34.30	2	379.0	2	0.2854	2	0.261	2	0.329
14245	C8H12	1-octen-3-yne	17679-92-4	---	---	407.15	1	570.00	2	33.00	2	372.8	2	0.2902	2	0.260	2	---
14247	C8H12	1,3-cyclooctadiene	1700-10-3	220.25	1	416.15	1	645.00	2	39.00	2	366.0	2	0.2956	2	0.266	2	0.286
14248	C8H12	cis,cis-1,3-cyclooctadiene	3806-59-5	221.25	1	327.15	1	645.00	2	39.00	2	366.0	2	0.2956	2	0.266	2	0.286
14252	C8H12	(Z,E)-1,3-cyclooctadiene	3806-60-8	213.76	2	406.55	2	645.00	2	39.00	2	366.0	2	0.2956	2	0.266	2	0.286
14306	C8H12N2O2	hexamethylene diisocyanate	822-06-0	206.06	---	528.15	1	720.80	1	29.60	2	513.0	1	0.3279	1	0.253	1,2	0.729
14325	C8H12O	2-tert-butylfuran	7040-43-9	---	---	392.65	1	600.00	2	38.70	2	348.6	2	0.3562	2	0.270	2	---
14379	C8H12O4	1,4-cyclohexanedicarboxylic acid	619-82-9	585.65	1	669.00	1	889.00	2	34.20	2	464.0	2	0.3711	2	0.215	2	1.036
14380	C8H12O4	diethyl maleate	141-05-9	264.35	1	498.15	1	680.00	2	26.10	2	508.0	2	0.3389	2	0.235	2	0.666
14410	C8H12S	2-butylthiophene	1455-20-5	216.25	2	454.65	1	665.00	2	32.50	2	433.2	2	0.3238	2	0.255	2	---
14411	C8H12S	3-butylthiophene	34722-01-5	216.25	2	455.15	1	665.00	2	32.50	2	433.2	2	0.3238	2	0.255	2	---
14412	C8H12S	2-(1,1-dimethylethyl)thiophene	1689-78-7	214.05	1	437.15	1	665.00	2	32.50	2	433.2	2	0.3238	2	0.255	2	---
14413	C8H12S	3-(1,1-dimethylethyl)thiophene	1689-79-8	218.45	1	442.15	1	665.00	2	32.50	2	433.2	2	0.3238	2	0.255	2	---
14413.1	C8H12S	3-ethyl-2,5-dimethylthiophene	55735-23-4	195.00	2	456.15	1	669.00	2	32.60	2	424.0	2	0.3308	2	0.249	2	0.379
14426	C8H13N	1-butyl-1H-pyrrole	589-33-3	336.90	2	443.65	1	670.00	2	37.50	2	390.0	2	0.3159	2	0.263	2	---
14427	C8H13N	3-ethyl-2,4-dimethyl-1H-pyrrole	517-22-6	336.90	2	472.15	1	670.00	2	37.50	2	390.0	2	0.3159	2	0.263	2	---
14428	C8H13N	4-ethyl-2,3-dimethyl-1H-pyrrole	491-18-9	289.65	1	473.15	1	670.00	2	37.50	2	390.0	2	0.3159	2	0.263	2	---
14429	C8H13N	2,3,4,5-tetramethyl-1H-pyrrole	1003-90-3	384.15	1	464.26	2	670.00	2	37.50	2	390.0	2	0.3159	2	0.263	2	---
14433	C8H13N	2,5-diethyl-1H-pyrrole	766-95-0	336.90	2	459.20	1	670.00	2	37.50	2	390.0	2	0.3159	2	0.263	2	---
14463	C8H14	1-propylcyclopentene	3074-61-1	172.85	1	404.35	1	602.71	2	31.92	2	410.5	2	0.2685	2	0.261	2	0.315
14464	C8H14	1,2,3-trimethylcyclopentene	473-91-6	172.85	2	394.75	1	602.71	2	31.92	2	410.5	2	0.2685	2	0.261	2	0.315
14465	C8H14	1,5,5-trimethylcyclopentene	62184-83-2	172.85	2	382.15	1	602.71	2	31.92	2	410.5	2	0.2685	2	0.261	2	0.315
14466	C8H14	1-ethylcyclohexene	1453-24-3	163.19	1	410.14	1	617.68	2	32.84	2	402.5	2	0.2738	2	0.257	2	0.285

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
14467	C8H14	3-ethylcyclohexene	2808-71-1	175.81	2	404.76	1	609.58	2	32.84	2	402.5	2	0.2738	2	0.261	2	0.285
14468	C8H14	4-ethylcyclohexene	3742-42-5	175.81	2	406.15	1	611.67	2	32.84	2	402.5	2	0.2738	2	0.260	2	0.285
14469	C8H14	1,2-dimethylcyclohexene	1674-10-8	189.00	1	411.13	1	621.08	2	31.63	2	401.5	2	0.2745	2	0.246	2	0.260
14470	C8H14	1,3-dimethylcyclohexene	2808-76-6	159.44	2	400.25	1	604.64	2	31.63	2	401.5	2	0.2745	2	0.253	2	0.260
14471	C8H14	1,4-dimethylcyclohexene	2808-79-9	213.75	1	401.65	1	606.00	2	31.63	2	401.5	2	0.2745	2	0.252	2	0.260
14472	C8H14	1,5-dimethylcyclohexene	2808-77-7	159.44	2	401.15	1	606.00	2	31.63	2	401.5	2	0.2745	2	0.252	2	0.260
14473	C8H14	1,6-dimethylcyclohexene	1759-64-4	159.44	2	404.25	1	610.68	2	31.63	2	401.5	2	0.2745	2	0.250	2	0.260
14474	C8H14	3,3-dimethylcyclohexene	695-28-3	159.44	2	392.15	1	599.77	2	34.60	2	400.5	2	0.2752	2	0.278	2	0.247
14475	C8H14	3,cis-4-dimethylcyclohexene	---	159.44	2	395.80	2	597.92	2	31.63	2	401.5	2	0.2745	2	0.255	2	0.260
14476	C8H14	3,trans-4-dimethylcyclohexene	---	159.44	2	395.80	2	597.92	2	31.63	2	401.5	2	0.2745	2	0.255	2	0.260
14477	C8H14	3,cis-5-dimethylcyclohexene	---	159.44	2	397.65	1	597.92	2	31.63	2	401.5	2	0.2745	2	0.255	2	0.260
14478	C8H14	3,trans-5-dimethylcyclohexene	56021-63-7	159.44	2	395.80	2	597.92	2	31.63	2	401.5	2	0.2745	2	0.255	2	0.260
14479	C8H14	3,cis-6-dimethylcyclohexene	---	159.44	2	398.15	1	597.92	2	31.63	2	401.5	2	0.2745	2	0.255	2	0.260
14480	C8H14	3,trans-6-dimethylcyclohexene	3685-00-5	159.44	2	395.80	2	597.92	2	31.63	2	401.5	2	0.2745	2	0.255	2	0.260
14481	C8H14	4,4-dimethylcyclohexene	14072-86-7	198.68	1	390.39	1	597.08	2	34.60	2	400.5	2	0.2752	2	0.279	2	0.247
14482	C8H14	4,cis-5-dimethylcyclohexene	---	159.44	2	400.96	1	605.71	2	31.63	2	401.5	2	0.2745	2	0.252	2	0.260
14483	C8H14	4,trans-5-dimethylcyclohexene	---	159.44	2	395.80	2	597.92	2	31.63	2	401.5	2	0.2745	2	0.255	2	0.260
14484	C8H14	1-octyne	629-05-0	193.55	1	399.35	1	585.00	2	28.20	2	441.0	2	0.2499	2	0.256	2	0.323
14485	C8H14	2-octyne	2809-67-8	211.55	1	410.88	1	607.45	2	29.99	2	445.5	2	0.2474	2	0.265	2	0.324
14486	C8H14	3-octyne	15232-76-5	169.15	1	406.29	1	600.66	2	29.99	2	445.5	2	0.2474	2	0.268	2	0.324
14487	C8H14	4-octyne	1942-45-6	172.15	1	404.75	1	594.10	2	29.59	2	444.3	2	0.2480	2	0.266	2	0.359
14488	C8H14	3-ethyl-3-methyl-1-pentyne	919-12-0	186.68	2	374.65	1	594.10	2	29.59	2	444.3	2	0.2480	2	0.266	2	0.359
14493	C8H14	1,7-octadiene	3710-30-3	224.50	2	388.65	1	586.00	2	34.00	2	369.1	2	0.2985	2	0.258	2	---
14494	C8H14	2,6-octadiene	4974-27-0	197.15	1	397.65	1	586.00	2	34.00	2	369.1	2	0.2985	2	0.258	2	---
14495	C8H14	3-methyl-1,5-heptadiene	4894-62-6	216.15	1	384.15	1	586.00	2	34.00	2	369.1	2	0.2985	2	0.258	2	---
14496	C8H14	2,5-dimethyl-1,5-hexadiene	627-58-7	198.32	1	387.45	1	567.00	2	27.40	2	445.0	2	0.2476	2	0.259	2	0.324
14497	C8H14	2,5-dimethyl-2,4-hexadiene	764-13-6	286.80	1	408.41	1	597.00	2	27.40	2	425.0	2	0.2593	2	0.235	2	0.322
14505	C8H14	cyclooctene	931-88-4	214.15	1	416.15	1	632.00	2	36.80	2	381.0	2	0.2892	2	0.267	2	0.280
14547	C8H14O	2,2-dimethylcyclohexanone	1193-47-1	252.65	1	445.15	1	670.00	2	32.50	2	421.7	2	0.2993	2	0.246	2	---
14548	C8H14O	cis-2,3-dimethylcyclohexanone	1551-88-8	282.40	2	451.65	1	670.00	2	32.50	2	421.7	2	0.2993	2	0.246	2	---
14549	C8H14O	trans-2,3-dimethylcyclohexanone	1551-89-9	282.40	2	443.32	2	670.00	2	32.50	2	421.7	2	0.2993	2	0.246	2	---
14550	C8H14O	cis-2,4-dimethylcyclohexanone	116783-29-0	282.40	2	450.15	1	670.00	2	32.50	2	421.7	2	0.2993	2	0.246	2	---
14551	C8H14O	trans-2,4-dimethylcyclohexanone, (2S)	93921-42-7	282.40	2	452.15	1	670.00	2	32.50	2	421.7	2	0.2993	2	0.246	2	---
14552	C8H14O	trans-2,5-dimethylcyclohexanone, (±)	66395-23-1	282.40	2	445.15	1	670.00	2	32.50	2	421.7	2	0.2993	2	0.246	2	---
14553	C8H14O	2,6-dimethylcyclohexanone	2816-57-1	282.40	2	448.15	1	670.00	2	32.50	2	421.7	2	0.2993	2	0.246	2	---
14554	C8H14O	3,3-dimethylcyclohexanone	2979-19-3	282.40	2	453.15	1	670.00	2	32.50	2	421.7	2	0.2993	2	0.246	2	---
14555	C8H14O	3,4-dimethylcyclohexanone	5465-09-8	282.40	2	460.15	1	670.00	2	32.50	2	421.7	2	0.2993	2	0.246	2	---
14556	C8H14O	3,5-dimethylcyclohexanone	2320-30-1	282.40	2	455.65	1	670.00	2	32.50	2	421.7	2	0.2993	2	0.246	2	---
14557	C8H14O	4,4-dimethylcyclohexanone	4255-62-3	312.15	1	443.32	2	670.00	2	32.50	2	421.7	2	0.2993	2	0.246	2	---
14558	C8H14O	3,4-dimethyl-3-hexen-2-one	1635-02-5	---	---	432.15	1	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14559	C8H14O	3,4-dimethyl-4-hexen-2-one	53252-21-4	---	---	427.15	1	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14560	C8H14O	3-methyl-5-hepten-2-one	38552-72-6	---	---	443.32	2	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14561	C8H14O	5-methyl-5-hepten-2-one	10339-67-0	---	---	443.32	2	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14562	C8H14O	6-methyl-3-hepten-2-one	2009-74-7	---	---	452.15	1	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14563	C8H14O	6-methyl-4-hepten-2-one	39273-81-9	---	---	436.15	1	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14564	C8H14O	6-methyl-5-hepten-2-one	110-93-0	210.00	2	436.15	2	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14565	C8H14O	2-methyl-5-hepten-3-one	77958-21-5	---	---	434.65	1	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14566	C8H14O	5-methyl-1-hepten-3-one	44829-76-7	---	---	443.32	2	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14567	C8H14O	5-methyl-4-hepten-3-one	1447-26-3	---	---	439.65	1	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14568	C8H14O	5-methyl-5-hepten-3-one	1190-34-7	---	---	443.32	2	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14569	C8H14O	5-methyl-2-hepten-4-one	81925-81-7	---	---	444.15	1	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14570	C8H14O	6-methyl-2-hepten-4-one	49852-35-9	---	---	443.15	1	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14571	C8H14O	4-ethylcyclohexanone	5441-51-0	282.40	2	466.15	1	670.00	2	32.50	2	421.7	2	0.2993	2	0.246	2	---
14588	C8H14O	2-ethyl-2-hexenal	645-62-5	247.00	2	448.72	1	636.00	2	26.40	2	461.0	2	0.2737	2	0.230	2	0.454
14589	C8H14O	methylheptenone	409-02-9	206.25	1	446.65	1	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14591	C8H14O	trans-2-octenal	2548-87-0	---	---	443.32	2	630.00	2	30.00	2	405.0	2	0.3116	2	0.232	2	---
14592	C8H14O	3-octen-2-one	1669-44-9	---	---	443.32	2	635.00	2	31.60	2	451.8	2	0.2793	2	0.270	2	---
14597	C8H14O	2-ethyl hexenal	26266-68-2	---	---	443.32	2	630.00	2	30.00	2	405.0	2	0.3116	2	0.232	2	---
14599	C8H14O2	butyl methacrylate	97-88-1	197.78	1	436.15	1	619.00	2	26.30	2	481.0	2	0.2956	2	0.246	2	0.447
14601	C8H14O2	isobutyl methacrylate	97-86-9	225.00	2	428.15	1	612.00	2	26.70	2	493.0	2	0.2884	2	0.259	2	0.421
14605	C8H14O2	cyclohexyl acetate	622-45-7	190.00	2	447.15	1	648.00	2	31.20	2	436.0	2	0.3261	2	0.252	2	0.421
14613	C8H14O2	ethyl 2,3-dimethyl-2-butenoate	13979-28-7	207.63	1	428.15	1	616.00	2	26.00	2	470.5	2	0.3022	2	0.239	2	---
14614	C8H14O2	ethyl 2-hexenoate	1552-67-6	207.63	2	447.65	1	616.00	2	26.00	2	470.5	2	0.3022	2	0.239	2	---
14615	C8H14O2	ethyl 3-hexenoate	2396-83-0	207.63	2	439.65	1	616.00	2	26.00	2	470.5	2	0.3022	2	0.239	2	---
14616	C8H14O2	ethyl 3-methyl-3-pentenoate	86623-80-5	207.63	2	454.57	2	616.00	2	26.00	2	470.5	2	0.3022	2	0.239	2	---
14617	C8H14O2	ethyl 4-methyl-2-pentenoate	2351-97-5	207.63	2	447.15	1	616.00	2	26.00	2	470.5	2	0.3022	2	0.239	2	---
14618	C8H14O2	ethyl 4-methyl-3-pentenoate	6849-18-9	207.63	2	454.57	2	616.00	2	26.00	2	470.5	2	0.3022	2	0.239	2	---
14620	C8H14O2	3-hydroxy-2,2-dimethylhexanoic acid, beta-lactone	90112-82-6	416.65	1	510.00	2	736.00	2	27.00	2	494.4	2	0.2876	2	0.218	2	---
14621	C8H14O2	2-methylbutyl acrylate	44914-03-6	207.63	2	433.15	1	616.00	2	26.00	2	470.5	2	0.3022	2	0.239	2	---
14624	C8H14O2	6-methyl-2-heptenoic acid	90112-75-7	274.65	1	512.65	1	736.00	2	27.00	2	494.4	2	0.2876	2	0.218	2	---
14627	C8H14O2	tert-butyl methacrylate	585-07-9	207.63	2	405.15	1	616.00	2	26.00	2	470.5	2	0.3022	2	0.239	2	---
14633	C8H14O2	2-ethyl-2-hexenoic acid	5309-52-4	271.25	1	510.00	2	736.00	2	27.00	2	494.4	2	0.2876	2	0.218	2	---
14634	C8H14O2	ethyl 4-methyl-4-pentenoate	4911-54-0	207.63	2	454.57	2	616.00	2	26.00	2	470.5	2	0.3022	2	0.239	2	---
14635	C8H14O2	ethyl 2-methyl-4-pentenoate	53399-81-8	207.63	2	427.15	1	616.00	2	26.00	2	470.5	2	0.3022	2	0.239	2	---
14636	C8H14O2	trans-2-hexenyl acetate	2497-18-9	207.63	2	438.60	1	616.00	2	26.00	2	470.5	2	0.3022	2	0.239	2	---
14637	C8H14O2	isoamyl acrylate	4245-35-6	207.63	2	431.15	1	616.00	2	26.00	2	470.5	2	0.3022	2	0.239	2	---
14642	C8H14O2	2-octenoic acid	1871-67-6	278.65	1	510.00	2	736.00	2	27.00	2	494.4	2	0.2876	2	0.218	2	---
14653	C8H14O2	isovaleric acid, allyl ester	2835-39-4	310.30	2	510.00	2	736.00	2	27.00	2	494.4	2	0.2876	2	0.218	2	---
14654.1	C8H14O2	2-oxolan-2-yloxolane	106538-38-9	235.00	2	497.00	2	738.00	2	37.00	2	408.0	2	0.3485	2	0.246	2	0.372
14659	C8H14O3	butyric anhydride	106-31-0	199.85	1	470.93	1	644.00	2	26.40	2	501.0	2	0.3158	2	0.247	2	0.655

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
14688	C8H14O4	diethyl succinate	123-25-1	252.35	1	490.15	1	663.00	1	25.30	2	567.4	2	0.3070	2	0.260	1,2	0.670
14698	C8H14O4	octanedioic acid	505-48-6	416.15	1	625.00	2	809.00	2	28.20	2	522.0	2	0.3337	2	0.219	2	1.147
14706	C8H14O4	2,6-dimethyl-1,3-dioxan-4-ol acetate, cis and trans	828-00-2	266.00	1	480.00	2	669.00	2	28.40	2	477.0	2	0.3652	2	0.244	2	0.582
14736	C8H15Br	cis-1-bromo-1-octene	42843-49-2	234.14	2	453.15	1	643.03	2	28.75	2	525.5	2	0.3637	2	0.283	2	0.492
14737	C8H15Br	trans-1-bromo-1-octene	51751-87-2	234.14	2	453.15	1	643.03	2	28.75	2	525.5	2	0.3637	2	0.283	2	0.492
14748	C8H15Br3	1,1,1-tribromooctane	62127-65-5	361.24	2	554.15	1	767.84	2	32.28	2	658.5	2	0.5329	2	0.333	2	0.676
14749	C8H15Cl	cis-1-chloro-1-octene	64531-23-3	204.26	2	450.15	1	640.48	2	25.74	2	512.5	2	0.2862	2	0.248	2	0.430
14750	C8H15Cl	trans-1-chloro-1-octene	59871-24-8	204.26	2	450.15	1	640.48	2	25.74	2	512.5	2	0.2862	2	0.248	2	0.430
14751	C8H15Cl	1-chloro-4-ethyl-3-hexene	82507-04-8	204.26	2	446.15	1	640.48	2	25.74	2	512.5	2	0.2862	2	0.248	2	0.430
14752	C8H15Cl	6-chloro-2-methyl-2-heptene	80325-37-7	204.26	2	441.98	2	640.48	2	25.74	2	512.5	2	0.2862	2	0.248	2	0.430
14753	C8H15Cl	2-chloro-1-octene	31283-43-9	204.26	2	442.15	1	640.48	2	25.74	2	512.5	2	0.2862	2	0.248	2	0.430
14754	C8H15Cl	2-chloro-2-octene	90202-21-4	204.26	2	440.65	1	640.48	2	25.74	2	512.5	2	0.2862	2	0.248	2	0.430
14755	C8H15Cl	4-chloro-2-octene	116668-50-9	204.26	2	426.15	1	640.48	2	25.74	2	512.5	2	0.2862	2	0.248	2	0.430
14756	C8H15Cl	cis-4-chloro-4-octene	7321-48-4	204.26	2	438.45	1	640.48	2	25.74	2	512.5	2	0.2862	2	0.248	2	0.430
14765	C8H15Cl3	1,1,1-trichlorooctane	4905-79-7	271.60	2	497.15	1	693.91	2	23.16	2	619.5	2	0.3512	2	0.249	2	0.477
14766	C8H15F	cis-1-fluoro-1-octene	32814-16-7	206.49	2	385.87	2	548.71	2	25.53	2	481.5	2	0.2704	2	0.269	2	0.429
14767	C8H15F	trans-1-fluoro-1-octene	32814-17-8	206.49	2	385.87	2	548.71	2	25.53	2	481.5	2	0.2704	2	0.269	2	0.429
14770	C8H15F3	1,1,1-trifluorooctane	53392-86-2	278.29	2	398.15	1	554.50	2	22.10	2	522.0	2	0.3222	2	0.250	2	0.467
14772	C8H15I	cis-1-iodo-1-octene	52356-93-1	232.40	2	485.15	1	692.75	2	26.14	2	551.5	2	0.4318	2	0.250	2	0.419
14773	C8H15I	trans-1-iodo-1-octene	42599-17-7	232.40	2	485.15	1	692.75	2	26.14	2	551.5	2	0.4318	2	0.250	2	0.419
14774	C8H15I3	1,1,1-triiodooctane	---	356.02	2	658.63	2	928.58	2	24.19	2	736.5	2	0.6679	2	0.231	2	0.447
14775	C8H15N	octanenitrile	124-12-9	227.55	1	478.35	1	661.13	2	24.73	2	509.5	2	0.2458	2	0.229	2	0.562
14861	C8H16	propylcyclopentane	2040-96-2	155.81	1	404.11	1	596.00	2	30.20	2	428.0	2	0.2622	2	0.261	2	0.327
14862	C8H16	isopropylcyclopentane	3875-51-2	161.79	1	399.58	1	593.00	2	30.40	2	420.0	2	0.2672	2	0.259	2	0.303
14863	C8H16	1-methyl-1-ethylcyclopentane	16747-50-5	129.35		394.67	1	582.00	2	30.20	2	428.0	2	0.2622	2	0.267	2	0.330
14864	C8H16	1-methyl-cis-2-ethylcyclopentane	930-89-2	167.20	1	401.20	1	597.34	2	29.57	2	423.5	2	0.2650	2	0.252	2	0.290
14865	C8H16	1-methyl-trans-2-ethylcyclopentane	930-90-5	167.25	1	394.35	1	587.14	2	29.57	2	423.5	2	0.2650	2	0.257	2	0.290
14866	C8H16	1-methyl-cis-3-ethylcyclopentane	2613-66-3	186.08	2	394.25	1	586.99	2	29.57	2	423.5	2	0.2650	2	0.257	2	0.290
14867	C8H16	1-methyl-trans-3-ethylcyclopentane	2613-65-2	165.15	1	394.25	1	586.99	2	29.57	2	423.5	2	0.2650	2	0.257	2	0.290
14868	C8H16	1,1,2-trimethylcyclopentane	4259-00-1	251.51	1	386.88	1	584.65	2	31.07	2	421.5	2	0.2662	2	0.269	2	0.252
14869	C8H16	1,1,3-trimethylcyclopentane	4516-69-2	130.71	1	378.04	1	571.30	2	31.07	2	421.5	2	0.2662	2	0.276	2	0.252
14870	C8H16	1,cis-2,cis-3-trimethylcyclopentane	2613-69-6	156.72	1	396.15	1	591.57	2	28.54	2	422.5	2	0.2656	2	0.245	2	0.265
14871	C8H16	1,cis-2,trans-3-trimethylcyclopentane	15890-40-1	161.15	1	390.65	1	583.36	2	28.54	2	422.5	2	0.2656	2	0.249	2	0.265
14872	C8H16	1,trans-2,cis-3-trimethylcyclopentane	19374-46-0	160.45	1	383.35	1	572.46	2	28.54	2	422.5	2	0.2656	2	0.253	2	0.265
14873	C8H16	1,cis-2,cis-4-trimethylcyclopentane	2613-72-1	140.85	1	390.15	1	582.61	2	28.54	2	422.5	2	0.2656	2	0.249	2	0.265
14874	C8H16	1,cis-2,trans-4-trimethylcyclopentane	4850-28-6	140.60	1	389.88	1	582.21	2	28.54	2	422.5	2	0.2656	2	0.249	2	0.265
14875	C8H16	1,trans-2,cis-4-trimethylcyclopentane	16883-48-0	142.37	1	382.44	1	571.10	2	28.54	2	422.5	2	0.2656	2	0.254	2	0.265
14876	C8H16	1-methyl-3-ethylcyclopentane	3726-47-4	142.85	1	394.20	1	585.27	2	29.47	2	423.9	2	0.2647	2	0.257	2	0.276
14877	C8H16	ethylcyclohexane	1678-91-7	161.84	1	404.95	1	609.15	2	30.40	2	430.0	2	0.2610	2	0.258	2	0.246
14878	C8H16	1,1-dimethylcyclohexane	590-66-9	239.66	1	392.70	1	591.15	1	29.38	1	450.0	1	0.2494	1	0.269	1	0.233
14879	C8H16	1,2-dimethylcyclohexane, (cis+trans)	583-57-3	201.53	2	399.05	1	597.51	2	29.51	2	455.0	2	0.2467	2	0.270	2	0.236
14880	C8H16	cis-1,2-dimethylcyclohexane	2207-01-4	223.16	1	402.94	1	606.15	1	29.38	1	460.0	1	0.2439	1	0.268	1	0.232
14881	C8H16	trans-1,2-dimethylcyclohexane	6876-23-9	184.99	1	396.58	1	596.15	1	29.38	1	460.0	1	0.2439	1	0.273	1	0.238
14882	C8H16	1,3-dimethylcyclohexane, cis and trans	591-21-9	201.53	2	393.10	1	597.51	2	29.51	2	455.0	2	0.2467	2	0.270	2	0.236
14883	C8H16	cis-1,3-dimethylcyclohexane	638-04-0	197.59	1	393.24	1	591.15	1	29.38	1	450.0	1	0.2494	1	0.269	1	0.237
14884	C8H16	trans-1,3-dimethylcyclohexane	2207-03-6	183.06	1	397.61	1	598.00	1	29.30	1	460.0	1	0.2439	1	0.271	1	0.234
14885	C8H16	1,4-dimethylcyclohexane, (cis+trans)	589-90-2	201.53	2	395.90	1	597.51	2	29.51	2	455.0	2	0.2467	2	0.270	2	0.236
14886	C8H16	cis-1,4-dimethylcyclohexane	624-29-3	185.72	1	397.47	1	598.15	2	29.38	1	460.0	1	0.2439	1	0.272	1,2	0.231
14887	C8H16	trans-1,4-dimethylcyclohexane	2207-04-7	236.21	1	392.51	1	587.70	1	29.40	1	450.0	1	0.2494	1	0.271	1	0.255
14888	C8H16	cyclooctane	292-64-8	287.95	1	424.29	1	647.20	1	35.60	1	410.0	1	0.2737	1	0.271	1	0.252
14890	C8H16	1-octene	111-66-0	171.46	1	394.44	1	567.00	1	26.80	1	468.0	1	0.2398	1	0.266	1	0.392
14891	C8H16	oct-2-ene	111-67-1	186.15	1	398.05	1	564.74	2	26.94	2	458.8	2	0.2447	2	0.263	2	0.328
14892	C8H16	cis-2-octene	7642-04-8	172.95	1	398.79	1	572.00	2	25.90	2	461.0	2	0.2434	2	0.251	2	0.389
14893	C8H16	trans-2-octene	13389-42-9	185.45	1	398.15	1	577.00	2	25.80	2	484.0	2	0.2318	2	0.260	2	0.338
14894	C8H16	cis-3-octene	14850-22-7	147.15	1	396.05	1	569.00	2	25.90	2	461.0	2	0.2434	2	0.252	2	0.380
14895	C8H16	trans-3-octene	14919-01-8	163.15	1	396.45	1	574.00	2	25.80	2	480.0	2	0.2338	2	0.260	2	0.344
14896	C8H16	oct-4-ene	592-99-4	183.25	1	398.00	1	564.74	2	26.94	2	458.8	2	0.2447	2	0.263	2	0.328
14897	C8H16	cis-4-octene	7642-15-1	154.45	1	395.69	1	568.00	2	25.90	2	461.0	2	0.2434	2	0.253	2	0.385
14898	C8H16	trans-4-octene	14850-23-8	179.37	1	395.41	1	573.00	2	25.80	2	480.0	2	0.2338	2	0.260	2	0.339
14899	C8H16	2-methyl-1-heptene	15870-10-7	185.77	1	392.37	1	567.00	2	26.00	2	453.0	2	0.2477	2	0.250	2	0.355
14900	C8H16	3-methyl-1-heptene	4810-09-7	162.66	2	384.15	1	557.26	2	26.68	2	458.5	2	0.2447	2	0.264	2	0.357
14901	C8H16	4-methyl-1-heptene	13151-05-8	162.66	2	385.95	1	559.87	2	26.68	2	458.5	2	0.2447	2	0.263	2	0.357
14902	C8H16	5-methyl-1-heptene	13151-04-7	162.66	2	386.45	1	560.59	2	26.68	2	458.5	2	0.2447	2	0.262	2	0.357
14903	C8H16	6-methyl-1-heptene	5026-76-6	179.00	2	386.35	1	558.00	2	26.00	2	453.0	2	0.2477	2	0.254	2	0.356
14904	C8H16	2-methyl-2-heptene	627-97-4	160.38	2	395.75	1	575.22	2	26.87	2	464.5	2	0.2416	2	0.261	2	0.351
14905	C8H16	3-methyl-cis-2-heptene	22768-19-0	160.38	2	395.15	1	574.35	2	26.87	2	464.5	2	0.2416	2	0.261	2	0.351
14906	C8H16	3-methyl-trans-2-heptene	22768-20-3	160.38	2	395.15	1	574.35	2	26.87	2	464.5	2	0.2416	2	0.261	2	0.351
14907	C8H16	4-methyl-cis-2-heptene	66225-16-9	159.34	2	387.15	1	563.49	2	26.96	2	457.5	2	0.2453	2	0.263	2	0.347
14908	C8H16	4-methyl-trans-2-heptene	66225-17-0	159.34	2	387.15	1	563.49	2	26.96	2	457.5	2	0.2453	2	0.263	2	0.347
14909	C8H16	5-methyl-cis-2-heptene	24608-84-2	159.34	2	391.15	1	569.31	2	26.96	2	457.5	2	0.2453	2	0.261	2	0.347
14910	C8H16	5-methyl-trans-2-heptene	24608-85-3	159.34	2	391.15	1	569.31	2	26.96	2	457.5	2	0.2453	2	0.261	2	0.347
14911	C8H16	6-methyl-2-heptene	73548-72-8	159.40	2	390.15	1	564.74	2	26.94	2	458.8	2	0.2447	2	0.263	2	0.328
14912	C8H16	6-methyl-cis-2-heptene	66225-18-1	159.34	2	390.15	1	567.85	2	26.96	2	457.5	2	0.2453	2	0.261	2	0.347
14913	C8H16	6-methyl-trans-2-heptene	51065-65-7	159.34	2	390.15	1	567.85	2	26.96	2	457.5	2	0.2453	2	0.261	2	0.347
14914	C8H16	6-methyl-3-heptene	3404-57-7	159.40	2	388.15	1	564.74	2	26.94	2	458.8	2	0.2447	2	0.263	2	0.328
14915	C8H16	2-methyl-3-heptene	17618-76-7	165.65	1	385.15	1	564.74	2	26.94	2	458.8	2	0.2447	2	0.263	2	0.328
14916	C8H16	2-methyl-cis-3-heptene	20488-34-0	159.34	2	385.15	1	560.58	2	26.96	2	457.5	2	0.2453	2	0.265	2	0.347
14917	C8H16	2-methyl-trans-3-heptene	692-96-6	159.34	2	385.15	1	560.58	2	26.96	2	457.5	2	0.2453	2	0.265	2	0.347
14918	C8H16	3-methyl-3-heptene	7300-03-0	159.40	2	394.15	1	564.74	2	26.94	2	458.8	2	0.2447	2	0.263	2	0.328
14919	C8H16	3-methyl-cis-3-heptene	22768-17-8	160.38	2	394.15	1	572.89	2	26.87	2	464.5	2	0.2416	2	0.262	2	0.351

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
14920	C8H16	3-methyl-trans-3-heptene	22768-18-9	160.38	2	394.15	1	572.89	2	26.87	2	464.5	2	0.2416	2	0.262	2	0.351
14921	C8H16	4-methyl-3-heptene	4485-16-9	159.40	2	394.15	1	564.74	2	26.94	2	458.8	2	0.2447	2	0.263	2	0.328
14922	C8H16	4-methyl-cis-3-heptene	14255-24-4	160.38	2	395.15	1	574.35	2	26.87	2	464.5	2	0.2416	2	0.261	2	0.351
14923	C8H16	4-methyl-trans-3-heptene	13714-85-7	160.38	2	395.15	1	574.35	2	26.87	2	464.5	2	0.2416	2	0.261	2	0.351
14924	C8H16	5-methyl-3-heptene	13172-91-3	159.40	2	385.15	1	564.74	2	26.94	2	458.8	2	0.2447	2	0.263	2	0.328
14925	C8H16	5-methyl-cis-3-heptene	50422-80-5	159.34	2	385.15	1	560.58	2	26.96	2	457.5	2	0.2453	2	0.265	2	0.347
14926	C8H16	5-methyl-trans-3-heptene	53510-18-2	159.34	2	385.15	1	560.58	2	26.96	2	457.5	2	0.2453	2	0.265	2	0.347
14927	C8H16	6-methyl-cis-3-heptene	66225-19-2	159.34	2	388.15	1	564.94	2	26.96	2	457.5	2	0.2453	2	0.263	2	0.347
14928	C8H16	6-methyl-trans-3-heptene	66225-20-5	159.34	2	388.15	1	564.94	2	26.96	2	457.5	2	0.2453	2	0.263	2	0.347
14929	C8H16	2-ethyl-1-hexene	1632-16-2	190.00	2	393.15	1	569.00	2	26.70	2	453.0	2	0.2477	2	0.256	2	0.358
14930	C8H16	3-ethyl-1-hexene	3404-58-8	162.66	2	383.45	1	556.24	2	26.68	2	458.5	2	0.2447	2	0.265	2	0.357
14931	C8H16	4-ethyl-1-hexene	16746-85-3	162.66	2	383.15	1	555.81	2	26.68	2	458.5	2	0.2447	2	0.265	2	0.357
14932	C8H16	2,3-dimethyl-1-hexene	16746-86-4	172.00	2	383.65	1	561.00	2	27.60	2	445.0	2	0.2522	2	0.263	2	0.325
14933	C8H16	2,4-dimethyl-1-hexene	16746-87-5	148.70	2	384.35	1	561.06	2	26.82	2	459.5	2	0.2442	2	0.264	2	0.332
14934	C8H16	2,5-dimethyl-1-hexene	6975-92-4	148.70	2	384.75	1	561.65	2	26.82	2	459.5	2	0.2442	2	0.264	2	0.332
14935	C8H16	3,3-dimethyl-1-hexene	3404-77-1	180.08	2	377.15	1	555.62	2	26.99	2	453.5	2	0.2474	2	0.265	2	0.297
14936	C8H16	3,4-dimethyl-1-hexene	16745-94-1	147.66	2	385.15	1	563.01	2	26.90	2	452.5	2	0.2480	2	0.260	2	0.327
14937	C8H16	3,5-dimethyl-1-hexene	7423-69-0	147.66	2	377.15	1	551.31	2	26.90	2	452.5	2	0.2480	2	0.266	2	0.327
14938	C8H16	4,4-dimethyl-1-hexene	1647-08-1	180.08	2	380.35	1	560.33	2	26.99	2	453.5	2	0.2474	2	0.263	2	0.297
14939	C8H16	4,5-dimethyl-1-hexene	16106-59-5	147.66	2	382.15	1	558.62	2	26.90	2	452.5	2	0.2480	2	0.262	2	0.327
14940	C8H16	5,5-dimethyl-1-hexene	7116-86-1	180.08	2	375.65	1	553.41	2	26.99	2	453.5	2	0.2474	2	0.266	2	0.297
14941	C8H16	3-ethyl-cis-2-hexene	36880-72-5	160.38	2	394.15	1	572.89	2	26.87	2	464.5	2	0.2416	2	0.262	2	0.351
14942	C8H16	3-ethyl-trans-2-hexene	66225-15-8	160.38	2	394.15	1	572.89	2	26.87	2	464.5	2	0.2416	2	0.262	2	0.351
14943	C8H16	4-ethyl-cis-2-hexene	54616-49-8	159.34	2	386.15	1	562.03	2	26.96	2	457.5	2	0.2453	2	0.264	2	0.347
14944	C8H16	4-ethyl-trans-2-hexene	19781-63-6	159.34	2	386.15	1	562.03	2	26.96	2	457.5	2	0.2453	2	0.264	2	0.347
14945	C8H16	2,3-dimethyl-2-hexene	7145-20-2	158.05	1	394.92	1	577.66	2	27.01	2	465.5	2	0.2411	2	0.262	2	0.326
14946	C8H16	2,4-dimethyl-2-hexene	14255-23-3	145.38	2	383.75	1	562.10	2	27.10	2	458.5	2	0.2447	2	0.266	2	0.322
14947	C8H16	2,5-dimethyl-2-hexene	3404-78-2	145.38	2	385.35	1	564.45	2	27.10	2	458.5	2	0.2447	2	0.265	2	0.322
14948	C8H16	3,4-dimethyl-cis-2-hexene	19550-81-3	145.38	2	389.15	1	570.01	2	27.10	2	458.5	2	0.2447	2	0.262	2	0.322
14949	C8H16	3,4-dimethyl-trans-2-hexene	19550-82-4	145.38	2	389.15	1	570.01	2	27.10	2	458.5	2	0.2447	2	0.262	2	0.322
14950	C8H16	3,5-dimethyl-cis-2-hexene	66225-31-8	145.38	2	385.15	1	564.15	2	27.10	2	458.5	2	0.2447	2	0.265	2	0.322
14951	C8H16	3,5-dimethyl-trans-2-hexene	66225-12-5	145.38	2	385.15	1	564.15	2	27.10	2	458.5	2	0.2447	2	0.265	2	0.322
14952	C8H16	4,4-dimethyl-cis-2-hexene	19550-83-5	176.76	2	379.15	1	560.54	2	27.27	2	452.5	2	0.2480	2	0.265	2	0.287
14953	C8H16	4,4-dimethyl-trans-2-hexene	---	176.76	2	379.15	1	560.54	2	27.27	2	452.5	2	0.2480	2	0.265	2	0.287
14954	C8H16	4,5-dimethyl-2-hexene	73548-71-7	159.40	2	383.15	1	564.74	2	26.94	2	458.8	2	0.2447	2	0.263	2	0.328
14955	C8H16	4,5-dimethyl-cis-2-hexene	65036-71-7	144.34	2	383.15	1	562.01	2	27.18	2	451.5	2	0.2485	2	0.263	2	0.317
14956	C8H16	4,5-dimethyl-trans-2-hexene	66225-14-7	144.34	2	383.15	1	562.01	2	27.18	2	451.5	2	0.2485	2	0.263	2	0.317
14957	C8H16	5,5-dimethyl-cis-2-hexene	39761-61-0	176.76	2	380.05	1	561.87	2	27.27	2	452.5	2	0.2480	2	0.264	2	0.287
14958	C8H16	5,5-dimethyl-trans-2-hexene	39782-43-9	176.76	2	377.25	1	557.73	2	27.27	2	452.5	2	0.2480	2	0.266	2	0.287
14959	C8H16	3-ethyl-3-hexene	16789-51-8	160.38	2	389.15	1	565.63	2	26.87	2	464.5	2	0.2416	2	0.265	2	0.351
14960	C8H16	2,2-dimethyl-cis-3-hexene	690-92-6	135.80	1	378.58	1	559.69	2	27.27	2	452.5	2	0.2480	2	0.265	2	0.287
14961	C8H16	2,2-dimethyl-trans-3-hexene	690-93-7	176.76	2	374.00	1	552.92	2	27.27	2	452.5	2	0.2480	2	0.268	2	0.287
14962	C8H16	2,3-dimethyl-cis-3-hexene	59643-75-3	145.38	2	387.15	1	567.08	2	27.10	2	458.5	2	0.2447	2	0.264	2	0.322
14963	C8H16	2,3-dimethyl-trans-3-hexene	66225-30-7	145.38	2	387.15	1	567.08	2	27.10	2	458.5	2	0.2447	2	0.264	2	0.322
14964	C8H16	2,4-dimethyl-cis-3-hexene	37549-89-6	145.38	2	382.15	1	559.76	2	27.10	2	458.5	2	0.2447	2	0.267	2	0.322
14965	C8H16	2,4-dimethyl-trans-3-hexene	61847-78-7	145.38	2	380.75	1	557.71	2	27.10	2	458.5	2	0.2447	2	0.268	2	0.322
14966	C8H16	2,5-dimethyl-cis-3-hexene	10557-44-5	144.34	2	375.15	1	550.28	2	27.18	2	451.5	2	0.2485	2	0.268	2	0.317
14967	C8H16	2,5-dimethyl-trans-3-hexene	692-70-6	144.34	2	375.15	1	550.28	2	27.18	2	451.5	2	0.2485	2	0.268	2	0.317
14968	C8H16	3,4-dimethyl-cis-3-hexene	19550-87-9	146.42	2	395.15	1	578.00	2	27.01	2	465.5	2	0.2411	2	0.262	2	0.326
14969	C8H16	3,4-dimethyl-trans-3-hexene	19550-88-0	146.42	2	395.15	1	578.00	2	27.01	2	465.5	2	0.2411	2	0.262	2	0.326
14970	C8H16	2-propyl-1-pentene	15918-08-8	163.70	2	390.85	1	566.22	2	26.60	2	465.5	2	0.2411	2	0.263	2	0.361
14971	C8H16	2-isopropyl-1-pentene	16746-02-4	148.70	2	386.15	1	563.69	2	26.82	2	459.5	2	0.2442	2	0.263	2	0.332
14972	C8H16	3-methyl-2-ethyl-1-pentene	3404-67-9	148.70	2	384.65	1	561.50	2	26.82	2	459.5	2	0.2442	2	0.264	2	0.332
14973	C8H16	4-methyl-2-ethyl-1-pentene	3404-80-6	148.70	2	383.45	1	559.75	2	26.82	2	459.5	2	0.2442	2	0.265	2	0.332
14974	C8H16	2-methyl-3-ethyl-1-pentene	19780-66-6	160.25	1	383.15	1	559.31	2	26.82	2	459.5	2	0.2442	2	0.265	2	0.332
14975	C8H16	3-methyl-3-ethyl-1-pentene	6196-60-7	180.08	2	385.15	1	567.40	2	26.99	2	453.5	2	0.2474	2	0.259	2	0.297
14976	C8H16	4-methyl-3-ethyl-1-pentene	61847-80-1	147.66	2	380.65	1	556.43	2	26.90	2	452.5	2	0.2480	2	0.263	2	0.327
14977	C8H16	2,3,3-trimethyl-1-pentene	560-23-6	204.15	1	381.46	1	565.71	2	27.13	2	454.5	2	0.2469	2	0.262	2	0.272
14978	C8H16	2,3,4-trimethyl-1-pentene	565-76-4	130.96	2	381.15	1	557.76	2	25.95	2	483.5	2	0.2321	2	0.271	2	0.308
14979	C8H16	2,4,4-trimethyl-1-pentene	107-39-1	179.70	1	374.59	1	550.00	2	26.80	2	436.0	2	0.2574	2	0.256	2	0.301
14980	C8H16	3,3,4-trimethyl-1-pentene	560-22-5	165.08	2	378.15	1	561.62	2	27.21	2	447.5	2	0.2508	2	0.261	2	0.268
14981	C8H16	3,4,4-trimethyl-1-pentene	564-03-4	165.08	2	377.15	1	560.14	2	27.21	2	447.5	2	0.2508	2	0.261	2	0.268
14982	C8H16	2-methyl-3-ethyl-2-pentene	19780-67-7	146.42	2	390.15	1	570.68	2	27.01	2	465.5	2	0.2411	2	0.265	2	0.326
14983	C8H16	4-methyl-3-ethyl-cis-2-pentene	42067-48-1	145.38	2	389.15	1	570.01	2	27.10	2	458.5	2	0.2447	2	0.262	2	0.322
14984	C8H16	4-methyl-3-ethyl-trans-2-pentene	42067-49-2	145.38	2	387.45	1	567.52	2	27.10	2	458.5	2	0.2447	2	0.263	2	0.322
14985	C8H16	2,3,4-trimethyl-2-pentene	565-77-5	159.85	1	389.41	1	574.12	2	27.24	2	459.5	2	0.2442	2	0.262	2	0.297
14986	C8H16	2,4,4-trimethyl-2-pentene	107-40-4	166.84	1	378.06	1	555.00	2	26.80	2	436.0	2	0.2574	2	0.253	2	0.297
14987	C8H16	3,4,4-trimethyl-cis-2-pentene	39761-64-3	162.80	2	385.15	1	573.25	2	27.41	2	453.5	2	0.2474	2	0.261	2	0.263
14988	C8H16	3,4,4-trimethyl-trans-2-pentene	39761-57-4	162.80	2	385.15	1	573.25	2	27.41	2	453.5	2	0.2474	2	0.261	2	0.263
14989	C8H16	3,4,4-trimethyl-2-pentene	598-96-9	159.40	2	385.15	1	564.74	2	26.94	2	458.8	2	0.2447	2	0.263	2	0.328
14990	C8H16	2,4,4-trimethylpentene	25167-70-8	173.30	1	376.15	1	564.74	2	26.94	2	458.8	2	0.2447	2	0.263	2	0.328
14991	C8H16	3-methyl-2-isopropyl-1-butene	111823-35-9	133.70	2	377.15	1	554.89	2	27.04	2	453.5	2	0.2474	2	0.266	2	0.303
14992	C8H16	3,3-dimethyl-2-ethyl-1-butene	18231-53-3	166.12	2	383.15	1	568.22	2	27.13	2	454.5	2	0.2469	2	0.261	2	0.272
14994	C8H16Br2	1,1-dibromooctane	62168-26-7	284.02	2	515.15	1	716.02	2	29.54	2	601.5	2	0.4522	2	0.298	2	0.616
14995	C8H16Br2	1,2-dibromooctane	6269-92-7	286.34	2	514.15	1	716.02	2	29.54	2	601.5	2	0.4522	2	0.298	2	0.616
14996	C8H16Br2	1,4-dibromooctane	70690-24-3	286.34	2	524.48	2	716.02	2	29.54	2	601.5	2	0.4522	2	0.298	2	0.616
14997	C8H16Br2	1,5-dibromooctane	17912-17-3	286.34	2	524.48	2	716.02	2	29.54	2	601.5	2	0.4522	2	0.298	2	0.616
14998	C8H16Br2	1,8-dibromooctane	4549-32-0	288.65	1	544.15	1	716.02	2	29.54	2	601.5	2	0.4522	2	0.298	2	0.616
14999	C8H16Br2	4,5-dibromooctane	61539-75-1	286.34	2	524.48	2	716.02	2	29.54	2	601.5	2	0.4522	2	0.298	2	0.616
15005	C8H16Cl2	1,1-dichlorooctane	20395-24-8	224.26	2	481.15	1	672.06	2	23.75	2	575.5	2	0.3182	2	0.245	2	0.485

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
15006	C8H16Cl2	2,5-dichloro-2,5-dimethylhexane	6223-78-5	340.65	1	491.48	2	672.06	2	23.75	2	575.5	2	0.3182	2	0.245	2	0.485
15007	C8H16Cl2	1,8-dichlorooctane	2162-99-4	260.99	2	514.15	1	672.06	2	23.75	2	575.5	2	0.3182	2	0.245	2	0.485
15008	C8H16Cl2	2,3-dichlorooctane	21948-47-0	218.05	1	479.15	1	672.06	2	23.75	2	575.5	2	0.3182	2	0.245	2	0.485
15016	C8H16F2	1,1-difluorooctane	61350-03-6	228.72	2	415.15	1	580.30	2	22.50	2	508.0	2	0.2957	2	0.237	2	0.456
15017	C8H16I2	1,1-diiodooctane	66225-22-7	280.54	2	568.28	2	799.06	2	24.46	2	653.5	2	0.5601	2	0.241	2	0.465
15018	C8H16I2	1,8-diiodooctane	24772-63-2	291.65	1	568.28	2	799.06	2	24.46	2	653.5	2	0.5601	2	0.241	2	0.465
15062	C8H16O	2-ethylhexanal	123-05-7	246.00	2	433.80	1	607.00	2	25.80	2	474.0	2	0.2705	2	0.242	2	0.520
15063	C8H16O	1-octanal	124-13-0	246.00	1	447.15	1	638.90	1	29.60	1	488.0	1	0.2627	1	0.272	1	0.464
15064	C8H16O	5-methylheptanal	75579-88-3	246.00	2	435.14	2	614.00	2	25.65	2	474.0	2	0.2705	2	0.238	2	0.534
15065	C8H16O	2-propylpentanal	18295-59-5	246.00	2	433.15	1	614.00	2	25.65	2	474.0	2	0.2705	2	0.238	2	0.534
15066	C8H16O	2-octanone	111-13-7	252.85	1	446.15	1	632.70	1	26.40	2	497.0	1	0.2580	1	0.249	1,2	0.455
15067	C8H16O	2,5-dimethyl-3-hexanone	1888-57-9	248.50	2	420.65	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15068	C8H16O	2,2-dimethyl-3-hexanone	5405-79-8	248.50	2	419.15	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15069	C8H16O	3,3-dimethyl-2-hexanone	26118-38-7	248.50	2	420.15	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15070	C8H16O	3,4-dimethyl-2-hexanone	19550-10-8	248.50	2	431.15	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15071	C8H16O	4,4-dimethyl-3-hexanone	19550-14-2	248.50	2	421.15	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15072	C8H16O	3-ethyl-4-methyl-2-pentanone	71172-57-1	248.50	2	427.65	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15073	C8H16O	2-methyl-3-heptanone	13019-20-0	248.50	2	431.15	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15074	C8H16O	2-methyl-4-heptanone	626-33-5	248.50	2	427.15	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15075	C8H16O	3-methyl-2-heptanone	2371-19-9	248.50	2	437.15	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15076	C8H16O	3-methyl-4-heptanone	15726-15-5	248.50	2	426.15	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15077	C8H16O	5-methyl-3-heptanone	541-85-5	248.50	2	435.14	2	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15078	C8H16O	6-methyl-2-heptanone	928-68-7	248.50	2	440.15	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15079	C8H16O	6-methyl-3-heptanone	624-42-0	248.50	2	437.15	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15080	C8H16O	3-octanone	106-68-3	248.50	2	440.65	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15081	C8H16O	4-octanone	589-63-9	248.50	2	436.15	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15082	C8H16O	2,2,4-trimethyl-3-pentanone	5857-36-3	244.13	1	408.25	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15095	C8H16O	2,2-dimethylcyclohexanol	1193-46-0	281.15	1	450.15	1	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15096	C8H16O	2,4-dimethylcyclohexanol	69542-91-2	292.83	2	450.65	1	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15097	C8H16O	2,6-dimethylcyclohexanol	5337-72-4	305.65	1	449.15	1	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15098	C8H16O	3,3-dimethylcyclohexanol	767-12-4	284.65	1	458.15	1	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15099	C8H16O	3,4-dimethylcyclohexanol	5715-23-1	292.83	2	462.15	1	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15100	C8H16O	3,5-dimethylcyclohexanol	5441-52-1	284.75	1	460.15	1	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15101	C8H16O	4,4-dimethylcyclohexanol	932-01-4	289.15	1	459.15	1	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15102	C8H16O	cis-1,2-dimethylcyclohexanol	19879-11-9	296.35	1	435.14	2	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15103	C8H16O	trans-1,2-dimethyl cyclohexanol	19879-12-0	286.35	1	435.14	2	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15104	C8H16O	cis-1,3-dimethylcyclohexanol	15466-94-1	300.65	1	435.14	2	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15105	C8H16O	trans-1,3-dimethylcyclohexanol	15466-93-0	287.65	1	435.14	2	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15106	C8H16O	cis-1,4-dimethylcyclohexanol	16980-61-3	297.15	1	435.14	2	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15107	C8H16O	2,2-dimethyl-4-hexen-3-ol	37674-67-2	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15108	C8H16O	2,5-dimethyl-4-hexen-3-ol	60703-31-3	---	---	435.15	1	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15109	C8H16O	3,5-dimethyl-1-hexen-3-ol	3329-48-4	---	---	419.65	1	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15110	C8H16O	3,5-dimethyl-4-hexen-3-ol	1569-43-3	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15111	C8H16O	2-methyl-3-hepten-2-ol	116668-45-2	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15112	C8H16O	2-methyl-4-hepten-2-ol	116668-44-1	245.15	1	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15113	C8H16O	2-methyl-6-hepten-2-ol	77437-98-0	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15114	C8H16O	3-methyl-4-hepten-3-ol	4048-30-0	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15115	C8H16O	3-methyl-6-hepten-1-ol	4048-32-2	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15116	C8H16O	4-methyl-1-hepten-4-ol	1186-31-8	---	---	432.65	1	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15117	C8H16O	4-methyl-4-hepten-3-ol	81280-12-8	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15118	C8H16O	5-methyl-2-hepten-4-ol	4048-31-1	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15119	C8H16O	6-methyl-2-hepten-4-ol	4798-62-3	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15120	C8H16O	6-methyl-5-hepten-2-ol	1569-60-4	---	---	448.15	1	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15121	C8H16O	1-octen-4-ol	40575-42-6	---	---	445.15	1	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15122	C8H16O	2-octen-1-ol	22104-78-5	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15123	C8H16O	2-octen-4-ol	4798-61-2	---	---	448.15	1	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15124	C8H16O	4-octen-1-ol	67700-26-9	---	---	467.15	1	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15125	C8H16O	5-octen-1-ol	90200-83-2	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15127	C8H16O	1-ethylcyclohexanol	1940-18-7	307.65	1	439.15	1	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15128	C8H16O	4-ethylcyclohexanol	4534-74-1	292.83	2	435.14	2	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15129	C8H16O	cis-2-ethylcyclohexanol, (±)	116697-35-9	292.83	2	454.15	1	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15130	C8H16O	trans-2-ethylcyclohexanol, (±)	89886-25-9	292.83	2	435.14	2	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15131	C8H16O	hexyl vinyl ether	5363-64-4	166.00	2	416.15	1	586.00	2	27.00	2	452.4	2	0.2834	2	0.251	2	---
15141	C8H16O	2-ethylcyclohexanol	3760-20-1	292.83	2	435.14	2	645.00	2	35.90	2	448.2	2	0.2861	2	0.300	2	---
15142	C8H16O	DL-6-methyl-5-hepten-2-ol	4630-06-2	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15143	C8H16O	trans-2-octen-1-ol	18409-17-1	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15144	C8H16O	1-octen-3-ol	3391-86-4	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15145	C8H16O	(R)-(-)-1-octen-3-ol	3687-48-7	---	---	435.14	2	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15147	C8H16O	3-ethyl-3-methyl-2-pentanone	19780-65-5	248.50	2	426.60	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15148	C8H16O	5-methyl-2-heptanone	18217-12-4	248.50	2	437.00	1	624.00	2	26.40	2	469.0	2	0.2734	2	0.239	2	0.528
15151	C8H16O	6-methyl-6-hepten-2-ol	1335-09-7	---	---	374.25	1	615.00	2	31.00	2	387.5	2	0.3309	2	0.235	2	---
15156	C8H16O2	octanoic acid	124-07-2	289.65	1	512.85	1	694.26	1	27.79	1	499.0	1	0.2890	1	0.240	1	0.771
15157	C8H16O2	2-ethylhexanoic acid	149-57-5	213.15	1	501.15	1	673.20	1	27.80	2	528.0	1	0.2731	1	0.262	1,2	0.822
15158	C8H16O2	3-ethylhexanoic acid	41065-91-2	289.65	2	436.35	2	692.00	2	26.90	2	494.0	2	0.2919	2	0.231	2	0.779
15159	C8H16O2	heptyl formate	112-23-2	226.75	1	451.25	1	628.00	2	25.40	2	494.0	2	0.2919	2	0.240	2	0.534
15160	C8H16O2	hexyl acetate	142-92-7	192.25	1	444.65	1	618.00	2	25.40	2	494.0	2	0.2919	2	0.244	2	0.540
15161	C8H16O2	1,1-dimethylbutyl acetate	34859-98-8	192.25	2	426.15	1	618.00	2	25.40	2	494.0	2	0.2919	2	0.244	2	0.540
15162	C8H16O2	2-ethylbutyl acetate	10031-87-5	192.25	2	435.65	1	618.00	2	25.40	2	494.0	2	0.2919	2	0.244	2	0.540
15163	C8H16O2	sec-hexyl acetate	108-84-9	192.25	2	420.65	1	618.00	2	25.40	2	494.0	2	0.2919	2	0.244	2	0.540
15164	C8H16O2	2-methyl-1-pentyl acetate	7789-99-3	192.25	2	436.15	1	618.00	2	25.40	2	494.0	2	0.2919	2	0.244	2	0.540

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
15165	C8H16O2	2-methyl-3-pentyl acetate	35897-16-6	192.25	2	422.15	1	618.00	2	25.40	2	494.0	2	0.2919	2	0.244	2	0.540
15166	C8H16O2	3-methyl-3-pentyl acetate	10250-47-2	192.25	2	421.15	1	618.00	2	25.40	2	494.0	2	0.2919	2	0.244	2	0.540
15167	C8H16O2	pentyl propanoate	624-54-4	203.05	1	441.90	1	617.80	2	23.40	2	519.0	2	0.2779	2	0.236	2	0.474
15168	C8H16O2	1-methylbutyl propanoate	54004-43-2	206.75	2	440.22	2	597.00	2	25.50	2	497.0	2	0.2902	2	0.255	2	0.691
15169	C8H16O2	2-methylbutyl propanoate	2438-20-2	206.75	2	440.22	2	609.00	2	25.50	2	497.0	2	0.2902	2	0.250	2	0.572
15170	C8H16O2	isopentyl propanoate	105-68-0	206.75	2	432.65	1	611.00	2	25.50	2	497.0	2	0.2902	2	0.249	2	0.462
15171	C8H16O2	1-ethylpropyl propanoate	---	206.75	2	440.22	2	597.00	2	26.10	2	493.0	2	0.2925	2	0.259	2	0.704
15172	C8H16O2	1,1-dimethylpropyl propanoate	34949-22-9	224.17	2	437.43	2	589.00	2	26.00	2	494.0	2	0.2919	2	0.262	2	0.749
15173	C8H16O2	1,2-dimethylpropyl propanoate	66576-70-3	191.75	2	439.78	2	593.00	2	25.80	2	491.0	2	0.2937	2	0.257	2	0.735
15174	C8H16O2	2,2-dimethylpropyl propanoate	3581-69-9	224.17	2	437.43	2	593.00	2	24.70	2	503.0	2	0.2867	2	0.252	2	0.677
15175	C8H16O2	butyl butanoate	109-21-7	181.15	1	438.15	1	616.00	2	25.40	2	494.0	2	0.2919	2	0.245	2	0.482
15176	C8H16O2	isobutyl butanoate	539-90-2	206.75	2	430.05	1	611.00	1	24.90	2	502.0	2	0.2873	2	0.246	1,2	0.422
15177	C8H16O2	isobutyl isobutyrate	97-85-8	192.45	1	420.65	1	602.00	1	26.10	2	494.0	2	0.2919	2	0.258	1,2	0.403
15178	C8H16O2	sec-butyl butanoate	819-97-6	206.75	2	425.15	1	596.00	2	25.50	2	497.0	2	0.2902	2	0.256	2	0.500
15179	C8H16O2	tert-butyl butanoate	2308-38-5	224.17	2	409.15	1	574.00	2	24.70	2	503.0	2	0.2867	2	0.260	2	0.481
15180	C8H16O2	sec-butyl butanoate, (S)	116836-55-6	181.65	1	425.15	1	599.25	2	25.13	2	499.0	2	0.2890	2	0.252	2	0.472
15181	C8H16O2	tert-butyl 2-methylpropanoate	16889-72-8	208.77	2	399.85	1	600.85	2	25.31	2	498.9	2	0.2892	2	0.253	2	0.633
15183	C8H16O2	1,4-cyclohexanedimethanol	105-08-8	320.65	1	556.15	1	724.00	2	35.30	2	445.0	2	0.3241	2	0.261	2	1.188
15185	C8H16O2	ethyl hexanoate	123-66-0	206.15	1	440.15	1	602.00	2	26.10	2	494.0	2	0.2919	2	0.258	2	0.395
15186	C8H16O2	ethyl 4-methylpentanoate	25415-67-2	204.55	2	436.15	1	602.00	2	26.10	2	494.0	2	0.2919	2	0.258	2	0.395
15191	C8H16O2	isopropyl 3-methylbutanoate	32665-23-9	200.20	2	415.15	1	599.25	2	25.13	2	499.0	2	0.2890	2	0.252	2	0.472
15192	C8H16O2	isopropyl pentanoate	18362-97-5	204.55	2	436.35	2	602.00	2	26.10	2	494.0	2	0.2919	2	0.258	2	0.395
15193	C8H16O2	propyl 3-methylbutanoate	557-00-6	200.20	2	429.05	1	599.25	2	25.13	2	499.0	2	0.2890	2	0.252	2	0.472
15194	C8H16O2	propyl pentanoate	141-06-0	202.45	1	440.65	1	602.00	2	26.10	2	494.0	2	0.2919	2	0.258	2	0.395
15195	C8H16O2	methyl heptanoate	106-73-0	217.15	1	447.15	1	602.00	2	26.10	2	494.0	2	0.2919	2	0.258	2	0.395
15204	C8H16O2	2-methylheptanoic acid	1188-02-9	289.65	2	436.35	2	692.00	2	26.90	2	494.0	2	0.2919	2	0.231	2	0.779
15205	C8H16O2	2-propylpentanoic acid	99-66-1	289.65	2	494.15	1	692.00	2	26.90	2	494.0	2	0.2919	2	0.231	2	0.779
15207	C8H16O2	butyl isobutyrate	97-87-0	204.55	2	436.35	2	602.00	2	26.10	2	494.0	2	0.2919	2	0.258	2	0.395
15220	C8H16O3	2-butoxyethyl acetate	112-07-2	209.65	1	465.15	1	641.20	1	24.80	2	549.0	1	0.2918	1	0.255	1,2	0.560
15232	C8H16O4	diethylene glycol ethyl ether acetate	112-15-2	248.15	1	490.55	1	660.00	2	24.20	2	565.0	2	0.3119	2	0.249	2	0.715
15243	C8H16S	thiacyclononane	6007-54-1	263.93	2	493.15	1	751.38	2	35.47	2	439.5	2	0.3283	2	0.250	2	0.270
15248	C8H17Br	1-bromooctane	111-83-1	218.15	1	473.95	1	665.09	2	27.21	2	545.5	2	0.3540	2	0.268	2	0.524
15249	C8H17Br	2-bromooctane, (±)-	60251-57-2	218.15	2	461.65	1	665.09	2	27.21	2	545.5	2	0.3540	2	0.268	2	0.524
15250	C8H17Br	2-ethylhexyl bromide	18908-66-2	218.15	2	467.80	2	665.09	2	27.21	2	545.5	2	0.3540	2	0.268	2	0.524
15252	C8H17Cl	1-chlorooctane	111-85-3	215.35	1	456.62	1	642.41	2	24.43	2	532.5	2	0.2792	2	0.244	2	0.462
15253	C8H17Cl	2-chloro-2,5-dimethylhexane	29342-44-7	231.25	2	442.45	2	642.41	2	24.43	2	532.5	2	0.2792	2	0.244	2	0.462
15254	C8H17Cl	3-chloro-2,3-dimethylhexane	101654-30-2	231.25	2	442.45	2	642.41	2	24.43	2	532.5	2	0.2792	2	0.244	2	0.462
15255	C8H17Cl	2-chloro-2-methylheptane	4325-49-9	231.25	2	442.45	2	642.41	2	24.43	2	532.5	2	0.2792	2	0.244	2	0.462
15256	C8H17Cl	2-chloro-6-methylheptane	2350-19-8	231.25	2	442.45	2	642.41	2	24.43	2	532.5	2	0.2792	2	0.244	2	0.462
15257	C8H17Cl	3-chloro-3-methylheptane	5272-02-6	231.25	2	442.45	2	642.41	2	24.43	2	532.5	2	0.2792	2	0.244	2	0.462
15258	C8H17Cl	4-chloro-4-methylheptane	61764-94-1	231.25	2	442.45	2	642.41	2	24.43	2	532.5	2	0.2792	2	0.244	2	0.462
15259	C8H17Cl	3-(chloromethyl)heptane	123-04-6	231.25	2	445.15	1	642.41	2	24.43	2	532.5	2	0.2792	2	0.244	2	0.462
15260	C8H17Cl	2-chlorooctane	628-61-5	231.25	2	445.15	1	642.41	2	24.43	2	532.5	2	0.2792	2	0.244	2	0.462
15261	C8H17Cl	2-chloro-2,4,4-trimethylpentane	6111-88-2	247.15	1	445.15	2	642.41	2	24.43	2	532.5	2	0.2792	2	0.244	2	0.462
15262	C8H17Cl	(S)-2-chlorooctane	16844-08-9	231.25	2	442.45	2	642.41	2	24.43	2	532.5	2	0.2792	2	0.244	2	0.462
15263	C8H17Cl	(<+->)-2-chlorooctane	51261-14-4	231.25	2	445.20	1	642.41	2	24.43	2	532.5	2	0.2792	2	0.244	2	0.462
15264	C8H17Cl	2-ethylhexyl-6-chloride	2350-24-5	231.25	2	442.45	2	642.41	2	24.43	2	532.5	2	0.2792	2	0.244	2	0.462
15273	C8H17F	1-fluorooctane	463-11-6	209.15	1	415.45	1	580.50	2	23.50	2	498.0	2	0.2655	2	0.242	2	0.479
15276	C8H17I	1-iodooctane	629-27-6	227.45	1	498.26	1	665.98	2	28.84	2	502.5	2	0.4779	2	0.262	2	0.857
15277	C8H17I	2-iodooctane, (±)	36049-78-2	227.45	2	483.15	1	665.98	2	28.84	2	502.5	2	0.4779	2	0.262	2	0.857
15278	C8H17I	2-ethylhexyl iodide	1653-16-3	227.45	2	490.71	2	665.98	2	28.84	2	502.5	2	0.4779	2	0.262	2	0.857
15279	C8H17I	2-octyl iodide	557-36-8	227.45	2	490.71	2	665.98	2	28.84	2	502.5	2	0.4779	2	0.262	2	0.857
15282	C8H17N	cyclohexyldimethylamine	98-94-2	258.15	2	435.15	1	642.00	2	31.00	2	448.7	2	0.2836	2	0.261	2	---
15283	C8H17N	cyclohexylethylamine	5459-93-8	258.15	2	437.15	1	642.00	2	31.00	2	448.7	2	0.2836	2	0.261	2	---
15285	C8H17N	N,4-dimethylcyclohexylamine	90226-23-6	258.15	1	469.15	1	642.00	2	31.00	2	448.7	2	0.2836	2	0.261	2	---
15286	C8H17N	2-ethylcyclohexanamine	6850-36-8	258.15	2	443.65	1	642.00	2	31.00	2	448.7	2	0.2836	2	0.261	2	---
15295	C8H17N	(S)-(+)-1-cyclohexylethylamine	17430-98-7	258.15	2	440.81	2	642.00	2	31.00	2	448.7	2	0.2836	2	0.261	2	---
15296	C8H17N	2,3-dimethylcyclohexylamine	42195-92-6	258.15	2	432.15	1	642.00	2	31.00	2	448.7	2	0.2836	2	0.261	2	---
15297	C8H17N	R-(-)-cyclohexylethylamine	5913-13-3	258.15	2	440.81	2	642.00	2	31.00	2	448.7	2	0.2836	2	0.261	2	---
15299	C8H17N	cyclohexaneethylamine	4442-85-7	258.15	2	440.81	2	642.00	2	31.00	2	448.7	2	0.2836	2	0.261	2	---
15301	C8H17N	N-methyl-N-(cyclohexylmethyl) amine	25756-29-0	258.15	2	440.81	2	642.00	2	31.00	2	448.7	2	0.2836	2	0.261	2	---
15328	C8H17NO2	1-nitrooctane	629-37-8	288.15	1	505.15	1	690.75	2	25.66	2	565.5	2	0.2816	2	0.253	2	0.643
15332	C8H17NO2	2-nitrooctane, (±)	116836-12-5	288.15	2	480.78	2	690.75	2	25.66	2	565.5	2	0.2816	2	0.253	2	0.643
15354	C8H18	octane	111-65-9	216.38	1	398.83	1	568.70	1	24.90	1	486.0	1	0.2350	1	0.256	1	0.400
15355	C8H18	2-methylheptane	592-27-8	164.16	1	390.80	1	559.64	1	24.84	1	488.0	1	0.2341	1	0.261	1	0.377
15356	C8H18	3-methylheptane	589-81-1	152.60	1	392.08	1	563.67	1	25.46	1	464.0	1	0.2462	1	0.252	1	0.372
15357	C8H18	4-methylheptane	589-53-7	152.20	1	390.86	1	561.74	1	25.42	1	476.0	1	0.2400	1	0.259	1	0.371
15358	C8H18	3-methyl-3-ethylpentane	1067-08-9	182.28	1	391.42	1	576.50	1	28.10	1	455.1	1	0.2510	1	0.267	1	0.305
15359	C8H18	3-ethylhexane	619-99-8	158.20	2	391.69	1	565.50	1	26.10	1	455.0	1	0.2511	1	0.253	1	0.361
15360	C8H18	3-ethyl-2-methylpentane	609-26-7	158.20	1	388.80	1	567.00	1	27.00	1	442.8	1	0.2580	1	0.254	1	0.329
15361	C8H18	2,2-dimethylhexane	590-73-8	151.97	1	379.99	1	549.80	1	25.30	1	478.0	1	0.2390	1	0.265	1	0.338
15362	C8H18	2,3-dimethylhexane	584-94-1	149.42	2	388.76	1	563.50	1	26.30	1	468.0	1	0.2441	1	0.263	1	0.346
15363	C8H18	2,4-dimethylhexane	589-43-5	149.42	2	382.58	1	553.50	1	25.60	1	472.0	1	0.2420	1	0.263	1	0.344
15364	C8H18	2,5-dimethylhexane	592-13-2	182.00	1	382.26	1	550.00	1	24.90	1	482.0	1	0.2370	1	0.262	1	0.358
15365	C8H18	3,3-dimethylhexane	563-16-6	147.05	1	385.12	1	562.00	1	26.50	1	443.0	1	0.2579	1	0.251	1	0.320
15366	C8H18	3,4-dimethylhexane	583-48-2	160.89	2	390.88	1	568.80	1	26.90	1	466.0	1	0.2451	1	0.265	1	0.338
15367	C8H18	2,2,3-trimethylpentane	564-02-3	160.89	1	382.99	1	563.50	1	27.30	1	436.0	1	0.2620	1	0.254	1	0.297
15368	C8H18	2,2,4-trimethylpentane	540-84-1	165.77	1	372.39	1	543.80	1	25.70	1	468.0	1	0.2441	1	0.266	1	0.303
15369	C8H18	2,3,3-trimethylpentane	560-21-4	172.22	1	387.92	1	573.50	1	28.20	1	455.0	1	0.2511	1	0.269	1	0.290
15370	C8H18	2,3,4-trimethylpentane	565-75-3	163.95	1	386.62	1	566.40	1	27.30	1	460.0	1	0.2483	1	0.267	1	0.315

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
15371	C8H18	2,2,3,3-tetramethylbutane	594-82-1	373.97	1	379.44	1	568.00	2	28.70	2	461.0	2	0.2478	2	0.280	2	0.245
15372	C8H18	octane, mixture	---	168.25	1	376.22	1	562.52	2	26.37	2	464.8	2	0.2460	2	0.262	2	0.336
15430	C8H18O	1-octanol	111-87-5	257.65	1	468.35	1	652.50	1	27.77	1	497.0	1	0.2620	1	0.254	1	0.583
15431	C8H18O	2-octanol	123-96-6	241.55	1	452.95	1	629.60	1	27.54	1	518.0	1	0.2514	1	0.273	1	0.584
15432	C8H18O	2-octanol, (±)	4128-31-8	241.55	1	453.15	1	600.92	2	28.49	2	488.0	2	0.2669	2	0.278	2	0.733
15433	C8H18O	3-octanol	589-98-0	228.15	1	447.85	1	601.72	2	28.11	2	496.5	2	0.2623	2	0.279	2	0.806
15434	C8H18O	4-octanol	589-62-8	232.45	1	449.75	1	604.27	2	28.11	2	496.5	2	0.2623	2	0.278	2	0.806
15435	C8H18O	4-octanol, (±)	74778-22-6	232.45	1	449.45	1	600.92	2	28.49	2	488.0	2	0.2669	2	0.278	2	0.733
15436	C8H18O	2-methyl-1-heptanol	60435-70-3	161.15	1	448.75	1	602.93	2	28.11	2	496.5	2	0.2623	2	0.278	2	0.806
15437	C8H18O	3-methyl-1-heptanol	1070-32-2	183.15	1	459.15	1	616.90	2	28.11	2	496.5	2	0.2623	2	0.272	2	0.806
15438	C8H18O	4-methyl-1-heptanol	817-91-4	225.24	2	456.35	1	613.14	2	28.11	2	496.5	2	0.2623	2	0.274	2	0.806
15439	C8H18O	5-methyl-1-heptanol	7212-53-5	169.15	1	459.75	1	617.71	2	28.11	2	496.5	2	0.2623	2	0.272	2	0.806
15440	C8H18O	6-methyl-1-heptanol	1653-40-3	167.15	1	460.85	1	619.19	2	28.11	2	496.5	2	0.2623	2	0.271	2	0.806
15441	C8H18O	2-methyl-2-heptanol	625-25-2	222.75	1	429.85	1	583.83	2	28.44	2	491.5	2	0.2650	2	0.288	2	0.738
15442	C8H18O	3-methyl-2-heptanol	31367-46-1	159.15	1	439.25	1	593.34	2	28.35	2	490.5	2	0.2655	2	0.282	2	0.773
15443	C8H18O	4-methyl-2-heptanol	56298-90-9	171.15	1	444.75	1	600.77	2	28.35	2	490.5	2	0.2655	2	0.278	2	0.773
15444	C8H18O	5-methyl-2-heptanol	54630-50-1	153.15	1	445.05	1	601.18	2	28.35	2	490.5	2	0.2655	2	0.278	2	0.773
15445	C8H18O	6-methyl-2-heptanol	4730-22-7	168.15	1	445.05	1	601.18	2	28.35	2	490.5	2	0.2655	2	0.278	2	0.773
15446	C8H18O	2-methyl-3-heptanol	18720-62-2	188.15	1	440.75	1	595.37	2	28.35	2	490.5	2	0.2655	2	0.281	2	0.773
15447	C8H18O	3-methyl-3-heptanol	5582-82-1	190.15	1	434.15	1	589.67	2	28.44	2	491.5	2	0.2650	2	0.285	2	0.738
15448	C8H18O	4-methyl-3-heptanol	14979-39-6	150.15	1	428.55	1	578.89	2	28.35	2	490.5	2	0.2655	2	0.289	2	0.773
15449	C8H18O	5-methyl-3-heptanol	18720-65-5	181.95	1	426.75	1	576.46	2	28.35	2	490.5	2	0.2655	2	0.290	2	0.773
15450	C8H18O	6-methyl-3-heptanol	18720-66-6	210.24	2	433.00	2	584.90	2	28.35	2	490.5	2	0.2655	2	0.286	2	0.773
15451	C8H18O	2-methyl-4-heptanol	21570-35-4	192.15	1	439.25	1	593.34	2	28.35	2	490.5	2	0.2655	2	0.282	2	0.773
15452	C8H18O	3-methyl-4-heptanol	1838-73-9	210.24	2	437.85	1	591.45	2	28.35	2	490.5	2	0.2655	2	0.283	2	0.773
15453	C8H18O	4-methyl-4-heptanol	598-01-6	191.15	1	434.25	1	589.80	2	28.44	2	491.5	2	0.2650	2	0.285	2	0.738
15454	C8H18O	2-ethyl-1-hexanol	104-76-7	203.15	1	457.75	1	640.60	1	28.00	1	485.0	2	0.2685	2	0.255	1,2	0.556
15455	C8H18O	3-ethyl-1-hexanol	41065-95-6	225.24	2	453.00	2	608.64	2	28.11	2	496.5	2	0.2623	2	0.276	2	0.806
15456	C8H18O	4-ethyl-1-hexanol	---	225.24	2	453.00	2	608.64	2	28.11	2	496.5	2	0.2623	2	0.276	2	0.806
15457	C8H18O	2,2-dimethyl-1-hexanol	2370-13-0	221.15	1	445.65	1	605.29	2	28.44	2	491.5	2	0.2650	2	0.278	2	0.738
15458	C8H18O	2,3-dimethyl-1-hexanol	---	210.24	2	447.00	2	603.81	2	28.35	2	490.5	2	0.2655	2	0.277	2	0.773
15459	C8H18O	2,4-dimethyl-1-hexanol	3965-59-1	210.24	2	448.15	1	605.36	2	28.35	2	490.5	2	0.2655	2	0.276	2	0.773
15460	C8H18O	2,5-dimethyl-1-hexanol	6886-16-4	210.24	2	452.15	1	610.77	2	28.35	2	490.5	2	0.2655	2	0.274	2	0.773
15461	C8H18O	3,3-dimethyl-1-hexanol	10524-70-6	242.66	2	454.00	2	616.63	2	28.44	2	491.5	2	0.2650	2	0.273	2	0.738
15462	C8H18O	3,4-dimethyl-1-hexanol	---	210.24	2	454.00	2	613.27	2	28.35	2	490.5	2	0.2655	2	0.273	2	0.773
15463	C8H18O	3,5-dimethyl-1-hexanol	13501-73-0	210.24	2	456.15	1	616.17	2	28.35	2	490.5	2	0.2655	2	0.271	2	0.773
15464	C8H18O	4,4-dimethyl-1-hexanol	6481-95-4	242.66	2	455.00	2	617.99	2	28.44	2	491.5	2	0.2650	2	0.272	2	0.738
15465	C8H18O	4,5-dimethyl-1-hexanol	---	210.24	2	455.00	2	614.62	2	28.35	2	490.5	2	0.2655	2	0.272	2	0.773
15466	C8H18O	5,5-dimethyl-1-hexanol	2768-18-5	242.66	2	455.00	2	617.99	2	28.44	2	491.5	2	0.2650	2	0.272	2	0.738
15467	C8H18O	3-ethyl-2-hexanol	24448-19-9	210.24	2	441.15	1	595.91	2	28.35	2	490.5	2	0.2655	2	0.281	2	0.773
15468	C8H18O	4-ethyl-2-hexanol	---	210.24	2	441.00	2	595.71	2	28.35	2	490.5	2	0.2655	2	0.281	2	0.773
15469	C8H18O	2,3-dimethyl-2-hexanol	19550-03-9	227.66	2	433.25	1	591.82	2	28.69	2	485.5	2	0.2682	2	0.283	2	0.706
15470	C8H18O	2,4-dimethyl-2-hexanol	42328-76-7	227.66	2	423.85	1	578.98	2	28.69	2	485.5	2	0.2682	2	0.289	2	0.706
15471	C8H18O	2,5-dimethyl-2-hexanol	3730-60-7	227.66	2	425.65	1	581.44	2	28.69	2	485.5	2	0.2682	2	0.288	2	0.706
15472	C8H18O	3,3-dimethyl-2-hexanol	22025-20-3	227.66	2	433.00	2	591.48	2	28.69	2	485.5	2	0.2682	2	0.283	2	0.706
15473	C8H18O	3,4-dimethyl-2-hexanol	19550-05-1	195.24	2	444.15	1	603.29	2	28.60	2	484.5	2	0.2688	2	0.276	2	0.741
15474	C8H18O	3,5-dimethyl-2-hexanol	66576-27-0	195.24	2	433.15	1	588.35	2	28.60	2	484.5	2	0.2688	2	0.283	2	0.741
15475	C8H18O	4,4-dimethyl-2-hexanol	---	227.66	2	435.00	2	594.21	2	28.69	2	485.5	2	0.2682	2	0.282	2	0.706
15476	C8H18O	4,5-dimethyl-2-hexanol	---	195.24	2	435.00	2	590.87	2	28.60	2	484.5	2	0.2688	2	0.282	2	0.741
15477	C8H18O	5,5-dimethyl-2-hexanol	31841-77-7	227.66	2	439.15	1	599.88	2	28.69	2	485.5	2	0.2682	2	0.279	2	0.706
15478	C8H18O	3-ethyl-3-hexanol	597-76-2	242.66	2	432.15	1	586.95	2	28.44	2	491.5	2	0.2650	2	0.286	2	0.738
15479	C8H18O	4-ethyl-3-hexanol	19780-44-0	210.24	2	437.15	1	590.50	2	28.35	2	490.5	2	0.2655	2	0.283	2	0.773
15480	C8H18O	2,2-dimethyl-3-hexanol	4209-90-9	227.66	2	429.25	1	586.35	2	28.69	2	485.5	2	0.2682	2	0.286	2	0.706
15481	C8H18O	2,3-dimethyl-3-hexanol	4166-46-5	227.66	2	431.35	1	589.22	2	28.69	2	485.5	2	0.2682	2	0.284	2	0.706
15482	C8H18O	2,4-dimethyl-3-hexanol	13432-25-2	195.24	2	433.15	1	588.35	2	28.60	2	484.5	2	0.2688	2	0.283	2	0.741
15483	C8H18O	2,5-dimethyl-3-hexanol	19550-07-3	195.24	2	432.15	1	587.00	2	28.60	2	484.5	2	0.2688	2	0.284	2	0.741
15484	C8H18O	3,4-dimethyl-3-hexanol	19550-08-4	227.66	2	425.15	1	580.75	2	28.69	2	485.5	2	0.2682	2	0.288	2	0.706
15485	C8H18O	3,5-dimethyl-3-hexanol	4209-91-0	227.66	2	425.15	1	580.75	2	28.69	2	485.5	2	0.2682	2	0.288	2	0.706
15486	C8H18O	4,4-dimethyl-3-hexanol	19550-09-5	227.66	2	432.15	1	590.31	2	28.69	2	485.5	2	0.2682	2	0.284	2	0.706
15487	C8H18O	4,5-dimethyl-3-hexanol	---	195.24	2	429.00	2	582.72	2	28.60	2	484.5	2	0.2688	2	0.286	2	0.741
15488	C8H18O	5,5-dimethyl-3-hexanol	66576-31-6	227.66	2	426.15	1	582.12	2	28.69	2	485.5	2	0.2682	2	0.288	2	0.706
15489	C8H18O	2-propyl-1-pentanol	58175-57-8	225.24	2	452.15	1	607.50	2	28.11	2	496.5	2	0.2623	2	0.276	2	0.806
15490	C8H18O	2-isopropyl-1-pentanol	---	210.24	2	473.74	2	639.93	2	28.35	2	490.5	2	0.2655	2	0.261	2	0.773
15491	C8H18O	2-methyl-2-ethyl-1-pentanol	5970-63-8	242.66	2	450.25	1	611.53	2	28.44	2	491.5	2	0.2650	2	0.275	2	0.738
15492	C8H18O	3-methyl-2-ethyl-1-pentanol	---	210.24	2	450.00	2	607.86	2	28.35	2	490.5	2	0.2655	2	0.275	2	0.773
15493	C8H18O	4-methyl-2-ethyl-1-pentanol	106-67-2	210.24	2	449.65	1	607.39	2	28.35	2	490.5	2	0.2655	2	0.275	2	0.773
15494	C8H18O	2-methyl-3-ethyl-1-pentanol	---	210.24	2	448.00	2	605.16	2	28.35	2	490.5	2	0.2655	2	0.276	2	0.773
15495	C8H18O	3-methyl-3-ethyl-1-pentanol	---	242.66	2	448.00	2	608.48	2	28.44	2	491.5	2	0.2650	2	0.276	2	0.738
15496	C8H18O	4-methyl-3-ethyl-1-pentanol	---	210.24	2	448.00	2	605.16	2	28.35	2	490.5	2	0.2655	2	0.276	2	0.773
15497	C8H18O	2,2,3-trimethyl-1-pentanol	57409-53-7	227.66	2	447.65	1	611.49	2	28.69	2	485.5	2	0.2682	2	0.274	2	0.706
15498	C8H18O	2,2,4-trimethyl-1-pentanol	123-44-4	203.15	1	441.45	1	603.02	2	28.69	2	485.5	2	0.2682	2	0.278	2	0.706
15499	C8H18O	2,3,3-trimethyl-1-pentanol	57409-53-7	227.66	2	449.00	2	613.33	2	28.69	2	485.5	2	0.2682	2	0.273	2	0.706
15500	C8H18O	2,3,4-trimethyl-1-pentanol	6570-88-3	195.24	2	456.15	1	619.59	2	28.60	2	484.5	2	0.2688	2	0.269	2	0.741
15501	C8H18O	2,4,4-trimethyl-1-pentanol	16325-63-6	227.66	2	444.15	1	606.71	2	28.69	2	485.5	2	0.2682	2	0.276	2	0.706
15502	C8H18O	3,3,4-trimethyl-1-pentanol	---	227.66	2	444.00	2	606.50	2	28.69	2	485.5	2	0.2682	2	0.276	2	0.706
15503	C8H18O	3,4,4-trimethyl-1-pentanol	16325-64-7	227.66	2	444.00	2	606.50	2	28.69	2	485.5	2	0.2682	2	0.276	2	0.706
15504	C8H18O	2-methyl-3-ethyl-2-pentanol	19780-63-3	227.66	2	430.95	1	588.68	2	28.69	2	485.5	2	0.2682	2	0.285	2	0.706
15505	C8H18O	3-methyl-3-ethyl-2-pentanol	66576-22-5	227.66	2	433.00	2	591.48	2	28.69	2	485.5	2	0.2682	2	0.283	2	0.706
15506	C8H18O	4-methyl-3-ethyl-2-pentanol	66576-23-6	195.24	2	437.15	1	593.79	2	28.60	2	484.5	2	0.2688	2	0.281	2	0.741
15507	C8H18O	2,3,3-trimethyl-2-pentanol	23171-85-9	272.65	1	433.15	1	598.76	2	29.03	2	480.5	2	0.2710	2	0.280	2	0.639

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
15508	C8H18O	2,3,4-trimethyl-2-pentanol	66576-26-9	212.66	2	431.15	1	592.43	2	28.94	2	479.5	2	0.2716	2	0.282	2	0.674
15509	C8H18O	2,4,4-trimethyl-2-pentanol	690-37-9	253.15	1	419.55	1	579.96	2	29.03	2	480.5	2	0.2710	2	0.289	2	0.639
15510	C8H18O	3,3,4-trimethyl-2-pentanol	19411-41-7	212.66	2	438.15	1	602.05	2	28.94	2	479.5	2	0.2716	2	0.277	2	0.674
15511	C8H18O	3,4,4-trimethyl-2-pentanol	10575-56-1	300.15	1	431.15	1	592.43	2	28.94	2	479.5	2	0.2716	2	0.282	2	0.674
15512	C8H18O	2-methyl-3-ethyl-3-pentanol	597-05-7	227.66	2	433.15	1	591.68	2	28.69	2	485.5	2	0.2682	2	0.283	2	0.706
15513	C8H18O	2,2,3-trimethyl-3-pentanol	7294-05-5	267.15	1	425.15	1	587.70	2	29.03	2	480.5	2	0.2710	2	0.285	2	0.639
15514	C8H18O	2,2,4-trimethyl-3-pentanol	5162-48-1	261.85	1	424.15	1	582.81	2	28.94	2	479.5	2	0.2716	2	0.286	2	0.674
15515	C8H18O	2,3,4-trimethyl-3-pentanol	3054-92-0	212.66	2	430.15	1	591.06	2	28.94	2	479.5	2	0.2716	2	0.282	2	0.674
15516	C8H18O	3-methyl-2-isopropyl-1-butanol	18593-92-5	195.24	2	446.15	1	606.01	2	28.60	2	484.5	2	0.2688	2	0.275	2	0.741
15517	C8H18O	2,2-diethyl-1-butanol	13023-60-4	242.66	2	446.00	2	605.76	2	28.44	2	491.5	2	0.2650	2	0.278	2	0.738
15518	C8H18O	2,3-dimethyl-2-ethyl-1-butanol	---	227.66	2	446.00	2	609.23	2	28.69	2	485.5	2	0.2682	2	0.275	2	0.706
15519	C8H18O	3,3-dimethyl-2-ethyl-1-butanol	66576-56-5	227.66	2	446.00	2	609.23	2	28.69	2	485.5	2	0.2682	2	0.275	2	0.706
15520	C8H18O	2,2,3,3-tetramethyl-1-butanol	66576-24-7	423.15	1	446.00	2	616.52	2	29.03	2	480.5	2	0.2710	2	0.272	2	0.639
15521	C8H18O	3,5-dimethyl-3-hexanol, (±)	19113-78-1	216.48	2	425.15	1	600.92	2	28.49	2	488.0	2	0.2669	2	0.278	2	0.733
15522	C8H18O	2-methyl-1-heptanol, (±)	111675-77-5	161.15	1	448.75	1	600.92	2	28.49	2	488.0	2	0.2669	2	0.278	2	0.733
15523	C8H18O	5-methyl-1-heptanol, (±)	111767-95-4	169.15	1	459.75	1	600.92	2	28.49	2	488.0	2	0.2669	2	0.278	2	0.733
15524	C8H18O	2-methyl-3-heptanol, (±)	100296-26-2	188.15	1	440.65	1	600.92	2	28.49	2	488.0	2	0.2669	2	0.278	2	0.733
15525	C8H18O	6-methyl-3-heptanol, (±)	100295-85-0	212.15	1	442.15	1	600.92	2	28.49	2	488.0	2	0.2669	2	0.278	2	0.733
15526	C8H18O	3-methyl-4-heptanol, (R*,S*)-(±)	92737-91-2	216.48	2	435.15	1	600.92	2	28.49	2	488.0	2	0.2669	2	0.278	2	0.733
15527	C8H18O	dibutyl ether	142-96-1	175.30	1	414.15	1	584.10	1	24.60	2	487.0	2	0.2674	2	0.247	1,2	0.448
15528	C8H18O	di-sec-butyl ether	6863-58-7	173.15	1	394.20	1	559.00	2	25.30	2	494.0	2	0.2636	2	0.269	2	0.432
15529	C8H18O	di-tert-butyl ether	6163-66-2	195.00	1	380.40	1	550.00	1	25.30	2	487.0	2	0.2674	2	0.269	1,2	0.346
15530	C8H18O	butyl isobutyl ether	17071-47-5	182.03	2	424.15	1	563.33	2	25.07	2	489.3	2	0.2661	2	0.262	2	0.415
15531	C8H18O	tert-butyl isobutyl ether	33021-02-2	182.03	2	439.93	2	563.33	2	25.07	2	489.3	2	0.2661	2	0.262	2	0.415
15532	C8H18O	di-sec-butyl ether, (±)	17226-28-7	182.03	2	393.65	1	563.33	2	25.07	2	489.3	2	0.2661	2	0.262	2	0.415
15533	C8H18O	ethyl hexyl ether	5756-43-4	180.00	2	417.15	1	583.00	2	24.60	2	487.0	2	0.2674	2	0.247	2	0.494
15534	C8H18O	1-methoxyheptane	629-32-3	182.03	2	424.15	1	563.33	2	25.07	2	489.3	2	0.2661	2	0.262	2	0.415
15535	C8H18O	isooctanol	26952-21-6	156.05	1	459.15	1	600.92	2	28.49	2	488.0	2	0.2669	2	0.278	2	0.733
15536	C8H18O	(R)-(-)-2-octanol	5978-70-1	216.48	2	448.90	1	600.92	2	28.49	2	488.0	2	0.2669	2	0.278	2	0.733
15537	C8H18O	(S)-(+)-2-octanol	6169-06-8	216.48	2	451.05	1	600.92	2	28.49	2	488.0	2	0.2669	2	0.278	2	0.733
15538	C8H18O	octyl alcohol; mixed isomers	29063-28-3	257.25	1	468.15	1	600.92	2	28.49	2	488.0	2	0.2669	2	0.278	2	0.733
15539	C8H18O	isobutyl ether	628-55-7	173.15	1	395.76	1	562.00	2	25.30	2	487.0	2	0.2674	2	0.264	2	0.424
15544	C8H18O2	1,2-octanediol	1117-86-8	303.15	1	525.15	2	672.79	2	31.07	2	515.5	2	0.2837	2	0.286	2	1.272
15545	C8H18O2	1,3-octanediol	23433-05-8	286.06	2	536.15	2	686.88	2	31.07	2	515.5	2	0.2837	2	0.280	2	1.272
15546	C8H18O2	1,4-octanediol	51916-47-3	286.06	2	557.15	2	713.79	2	31.07	2	515.5	2	0.2837	2	0.270	2	1.272
15547	C8H18O2	1,8-octanediol	629-41-4	333.15	1	544.15	2	694.71	2	30.80	2	521.5	2	0.2804	2	0.278	2	1.302
15548	C8H18O2	2,4-octanediol	90162-24-6	310.71	2	478.13	2	692.04	2	31.00	2	517.0	2	0.2829	2	0.279	2	1.280
15549	C8H18O2	4,5-octanediol, (±)	22520-40-7	303.15	1	478.13	2	692.04	2	31.00	2	517.0	2	0.2829	2	0.279	2	1.280
15550	C8H18O2	3-methyl-2,4-heptanediol	6964-04-1	310.71	2	478.13	2	692.04	2	31.00	2	517.0	2	0.2829	2	0.279	2	1.280
15551	C8H18O2	2-ethyl-1,3-hexanediol	94-96-2	233.15	1	517.15	1	692.04	2	31.00	2	517.0	2	0.2829	2	0.279	2	1.280
15552	C8H18O2	2,5-dimethyl-2,5-hexanediol	110-03-2	361.65	1	487.15	1	692.04	2	31.00	2	517.0	2	0.2829	2	0.279	2	1.280
15553	C8H18O2	2,2,4-trimethyl-1,4-pentanediol	80864-10-4	359.15	1	483.15	1	692.04	2	31.00	2	517.0	2	0.2829	2	0.279	2	1.280
15554	C8H18O2	2,2,4-trimethyl-1,3-pentanediol	144-19-4	324.90	1	505.15	1	680.00	2	29.90	2	503.0	2	0.2907	2	0.266	2	0.841
15555	C8H18O2	2-butyl-2-methyl-1,3-propanediol	3121-83-3	316.95	1	535.15	1	692.04	2	31.00	2	517.0	2	0.2829	2	0.279	2	1.280
15556	C8H18O2	di-t-butyl peroxide	110-05-4	233.15	1	384.15	1	547.00	2	24.80	2	508.0	2	0.2879	2	0.277	2	0.403
15558	C8H18O2	ethylene glycol monohexyl ether	112-25-4	228.05	1	481.45	1	633.00	2	26.20	2	505.0	2	0.2896	2	0.251	2	0.900
15561	C8H18O2	(3R,6R)-3,6-octanediol	129619-37-0	310.71	2	478.13	2	692.04	2	31.00	2	517.0	2	0.2829	2	0.279	2	1.280
15562	C8H18O2	(3S,6S)-3,6-octanediol	136705-66-3	310.71	2	478.13	2	692.04	2	31.00	2	517.0	2	0.2829	2	0.279	2	1.280
15567	C8H18O2	2-(2-ethylbutoxy)ethanol	4468-93-3	228.05	2	478.13	2	636.00	2	26.40	2	525.9	2	0.2781	2	0.263	2	---
15568	C8H18O2	ethylene glycol mono-2-methylpentyl ether	10137-96-9	228.05	2	470.00	2	636.00	2	26.40	2	525.9	2	0.2781	2	0.263	2	---
15570	C8H18O2S	diisobutyl sulfone	10495-45-1	290.15	1	538.15	1	767.00	2	25.40	2	569.0	2	0.3133	2	0.227	2	0.688
15571	C8H18O2S	dibutyl sulfone	598-04-9	318.00	1	564.00	1	767.00	2	25.40	2	569.0	2	0.3133	2	0.227	2	0.688
15572	C8H18O2S	di-tert-butylsulfone	1886-75-5	403.05	1	521.05	1	767.00	2	25.40	2	569.0	2	0.3133	2	0.227	2	0.688
15578	C8H18O3	diethylene glycol diethyl ether	112-36-7	228.85	1	462.15	1	624.00	2	23.70	2	558.0	2	0.2907	2	0.255	2	0.681
15579	C8H18O3	diethylene glycol monobutyl ether	112-34-5	205.15	1	504.15	1	692.30	1	27.90	1	537.0	2	0.3021	2	0.260	1,2	0.655
15587.1	C8H18O3	dipropylene glycol monoethyl ether	30025-38-8	204.00	2	471.00	2	617.00	2	26.30	2	520.0	2	0.3120	2	0.267	2	0.931
15591	C8H18O4	triethylene glycol dimethyl ether	112-49-2	229.35	1	489.15	1	651.00	2	23.10	2	548.0	2	0.3252	2	0.234	2	0.792
15592	C8H18O4	triethylene glycol monoethyl ether	112-50-5	254.55	1	529.15	1	679.00	2	24.80	2	567.0	2	0.3143	2	0.249	2	1.059
15595	C8H18O4S	dibutyl sulfate	625-22-9	193.45	1	525.00	2	814.00	2	60.00	2	609.0	2	0.3453	2	0.540	2	0.345
15598	C8H18O5	tetraethylene glycol	112-60-7	268.15	1	602.70	1	795.00	2	25.90	2	564.0	2	0.3444	2	0.221	2	0.917
15602	C8H18S	octyl mercaptan	111-88-6	223.95	1	472.19	1	664.00	2	25.20	2	518.0	2	0.2824	2	0.236	2	0.473
15603	C8H18S	2-octanethiol	3001-66-9	194.15	1	459.55	1	653.00	2	25.00	2	527.0	2	0.2776	2	0.243	2	0.423
15604	C8H18S	tert-octyl mercaptan	141-59-3	199.00	1	428.65	1	627.00	2	25.90	2	529.0	2	0.2766	2	0.263	2	0.300
15605	C8H18S	2-octanethiol, (±)	10435-81-1	194.15	1	459.55	1	648.00	2	25.37	2	524.7	2	0.2789	2	0.247	2	0.401
15606	C8H18S	dibutyl sulfide	544-40-1	198.13	1	455.15	1	650.00	2	25.00	2	537.5	2	0.2722	2	0.249	2	0.394
15607	C8H18S	methyl heptyl sulfide	20291-61-6	209.86	2	461.70	1	660.72	2	25.79	2	537.5	2	0.2722	2	0.252	2	0.465
15608	C8H18S	ethyl hexyl sulfide	7309-44-6	209.86	2	460.00	2	660.72	2	25.79	2	537.5	2	0.2722	2	0.252	2	0.465
15609	C8H18S	propyl pentyl sulfide	42841-80-5	209.86	2	460.00	2	660.72	2	25.79	2	537.5	2	0.2722	2	0.252	2	0.465
15610	C8H18S	di-sec-butyl sulfide	626-26-6	209.92	2	438.15	1	658.04	2	25.59	2	537.5	2	0.2722	2	0.251	2	0.447
15611	C8H18S	di-tert-butyl sulfide	107-47-1	264.15	1	422.25	1	658.04	2	25.59	2	537.5	2	0.2722	2	0.251	2	0.447
15612	C8H18S	diisobutyl sulfide	592-65-4	167.65	1	444.15	1	658.04	2	25.59	2	537.5	2	0.2722	2	0.251	2	0.447
15614	C8H18S2	dibutyl disulfide	629-45-8	202.16	1	504.36	1	704.16	2	26.24	2	591.5	2	0.3015	2	0.265	2	0.529
15615	C8H18S2	di-tert-butyl disulfide	110-06-5	270.65	1	513.34	2	704.16	2	26.24	2	591.5	2	0.3015	2	0.265	2	0.529
15617	C8H18S2	disulfide, bis(2-methylpropyl)	1518-72-5	236.41	2	493.00	1	704.16	2	26.24	2	591.5	2	0.3015	2	0.265	2	0.529
15618	C8H18S2	disulfide, bis(1-methylpropyl)	5943-30-6	236.41	2	513.34	2	704.16	2	26.24	2	591.5	2	0.3015	2	0.265	2	0.529
15631	C8H19N	octylamine	111-86-4	272.75	1	452.75	1	627.00	2	25.80	2	524.0	2	0.2467	2	0.259	2	0.569
15632	C8H19N	2-ethylhexylamine	104-75-6	284.58	2	442.35	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15633	C8H19N	6-methyl-2-heptanamine, (±)	5984-58-7	322.04	1	428.15	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15634	C8H19N	2-octanamine, (±)	44855-57-4	323.71	1	437.15	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15635	C8H19N	methylheptylamine	36343-05-2	207.15	2	438.15	1	609.80	2	26.00	2	510.0	2	0.2534	2	0.262	2	0.547

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
15636	C8H19N	ethylhexylamine	20352-67-4	207.15	2	431.15	1	599.80	2	25.20	2	510.0	2	0.2534	2	0.258	2	0.535
15637	C8H19N	dibutylamine	111-92-2	211.15	1	432.00	1	602.30	1	25.70	1	512.0	2	0.2524	2	0.263	1,2	0.530
15638	C8H19N	diisobutylamine	110-96-3	203.15	1	412.25	1	580.00	2	25.70	2	524.0	2	0.2467	2	0.279	2	0.485
15639	C8H19N	di-sec-butylamine	626-23-3	207.15	2	407.15	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15640	C8H19N	N-methyl-2-heptanamine	540-43-2	207.15	2	428.15	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15641	C8H19N	dimethylhexylamine	4385-04-0	200.00	2	418.15	1	608.70	2	25.50	2	510.0	2	0.2534	2	0.257	2	0.323
15642	C8H19N	diethylbutylamine	4444-68-2	200.00	2	409.15	1	577.33	2	26.35	2	521.5	2	0.2478	2	0.286	2	0.481
15643	C8H19N	N-ethyl-N-isopropyl-2-propanamine	7087-68-5	200.00	2	399.65	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15644	C8H19N	N-ethyl-N-propyl-1-propanamine	20634-92-8	200.00	2	411.15	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15645	C8H19N	2-amino-6-methylheptane	543-82-8	298.15	1	428.15	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15646	C8H19N	(S)-2-amino-6-methylheptane	70419-10-2	284.58	2	428.15	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15647	C8H19N	(R)-2-amino-6-methylheptane	70419-11-3	284.58	2	428.15	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15648	C8H19N	(S)-2-aminooctane	34566-04-6	284.58	2	437.15	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15649	C8H19N	(R)-2-aminooctane	34566-05-7	284.58	2	437.15	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15650	C8H19N	2-aminooctane	693-16-3	284.58	2	438.15	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15651	C8H19N	N-isopropyl-N-methyl-tert-butylamine	85523-00-8	200.00	2	400.15	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15652	C8H19N	tert-octylamine	107-45-9	206.25	1	413.15	1	601.45	2	26.52	2	517.6	2	0.2497	2	0.275	2	0.500
15653	C8H19NO	N,N-diisopropylethanolamine	96-80-0	---	---	463.15	1	741.00	2	31.00	2	512.0	2	0.2837	2	0.258	2	---
15654	C8H19NO	2-(dipropylamino)ethanol	3238-75-3	---	---	469.15	1	741.00	2	31.00	2	512.0	2	0.2837	2	0.258	2	---
15655	C8H19NO	6-amino-2-methyl-2-heptanol	372-66-7	---	---	466.15	2	741.00	2	31.00	2	512.0	2	0.2837	2	0.258	2	---
15694	C8H20N2	2,5-dimethyl-2,5-hexanediamine	23578-35-0	325.15	2	457.15	1	715.00	2	31.50	2	525.3	2	0.2746	2	0.278	2	---
15695	C8H20N2	1,8-octanediamine	373-44-4	325.15	1	498.15	1	715.00	2	31.50	2	525.3	2	0.2746	2	0.278	2	---
15696	C8H20N2	N,N,N',N'-tetramethyl-1,4-butanediamine	111-51-3	325.15	2	441.15	1	715.00	2	31.50	2	525.3	2	0.2746	2	0.278	2	---
15697	C8H20N2	N,N'-diisopropylethylenediamine	4013-94-9	325.15	2	443.15	1	715.00	2	31.50	2	525.3	2	0.2746	2	0.278	2	---
15698	C8H20N2	N,N'-dimethyl-1,6-hexanediamine	13093-04-4	325.15	2	430.41	2	715.00	2	31.50	2	525.3	2	0.2746	2	0.278	2	---
15699	C8H20N2	N-hexylethylenediamine	7261-70-3	325.15	2	430.41	2	715.00	2	31.50	2	525.3	2	0.2746	2	0.278	2	---
15700	C8H20N2	N,N,N',N'-tetramethyl-1,3-butanediamine	97-84-7	325.15	2	437.70	1	715.00	2	31.50	2	525.3	2	0.2746	2	0.278	2	---
15701	C8H20N2	N,N,N'-triethylethylenediamine	105-04-4	325.15	2	327.65	1	715.00	2	31.50	2	525.3	2	0.2746	2	0.278	2	---
15703	C8H20N2	N,N-diisopropyl ethylenediamine	121-05-1	325.15	2	394.15	1	715.00	2	31.50	2	525.3	2	0.2746	2	0.278	2	---
15704	C8H20N2	N'-isopropyl-N,N'-dimethyl-1,3-propane-diamine	63905-13-5	325.15	2	430.41	2	715.00	2	31.50	2	525.3	2	0.2746	2	0.278	2	---
15729	C8H20Pb	tetraethyl lead	78-00-2	139.41	1	473.15	dec	655.00	2	21.25	2	636.1	2	0.5085	2	0.248	2	0.478
15730	C8H20Si	tetraethylsilane	631-36-7	190.65	1	426.56	1	606.00	1	24.00	2	587.0	1	0.2459	1	0.280	1,2	0.400
15747	C8H23N5	tetraethylenepentamine	112-57-2	243.00	1	606.15	1	774.00	2	25.30	2	636.0	2	0.2977	2	0.250	2	1.237
15755	C8H24O2Si3	octamethyltrisiloxane	107-51-7	187.15	1	425.70	1	564.40	1	14.40	1	868.0	1	0.2725	1	0.266	1	0.533
15756	C8H24O4Si4	octamethylcyclotetrasiloxane	556-67-2	290.80	1	448.15	1	586.50	1	13.32	1	970.0	1	0.3058	1	0.265	1	0.589
15803	C9H4O5	trimellitic anhydride	552-30-7	438.15	1	663.00	1	890.00	2	40.80	2	462.0	2	0.4159	2	0.255	2	0.997
15903	C9H6N2O2	toluene diisocyanate	584-84-9	287.04	1	524.15	1	725.00	2	30.40	2	525.0	2	0.3317	2	0.265	2	0.658
15908	C9H6N2O2	toluene-2,6-diisocyanate	91-08-7	291.45	1	522.00	2	749.00	2	29.00	2	525.0	2	0.3317	2	0.244	2	0.434
15946	C9H6O6	1,2,4-benzenetricarboxylic acid	528-44-9	511.15	1	675.00	2	860.00	2	35.10	2	499.0	2	0.4211	2	0.245	2	1.491
16010	C9H7N	isoquinoline	119-65-3	299.62	1	516.37	1	803.15	1	51.00	2	374.0	2	0.3454	2	0.286	1,2	0.304
16011	C9H7N	quinoline	91-22-5	258.37	1	510.31	1	782.15	1	48.60	2	371.0	2	0.3481	2	0.277	1,2	0.347
16018	C9H7NO	8-hydroxyquinoline	148-24-3	346.00	1	540.00	1	788.00	2	43.60	2	414.0	2	0.3506	2	0.276	2	0.522
16090	C9H8	indene	95-13-6	271.70	1	455.77	1	687.00	2	38.20	2	368.0	2	0.3157	2	0.246	2	0.335
16185	C9H8O	2-methylbenzofuran	4265-25-2	---	---	470.15	1	697.00	2	36.40	2	407.0	2	0.3247	2	0.256	2	0.375
16204	C9H8O2	trans-cinnamic acid	140-10-3	406.15	1	573.15	1	797.00	2	35.40	2	446.0	2	0.3322	2	0.238	2	0.715
16233	C9H8O4	2-(acetyloxy)benzoic acid	50-78-2	408.15	1	564.00	2	765.00	2	32.70	2	469.0	2	0.3841	2	0.241	2	0.833
16246.1	C9H8S	2-methyl benzothiophene	1195-14-8	324.65	1	519.00	2	780.00	2	40.00	2	438.0	2	0.3384	2	0.270	2	0.351
16508	C9H10	indane	496-11-7	221.74	1	451.12	1	684.90	1	39.50	1	381.0	2	0.3102	2	0.264	1,2	0.309
16509	C9H10	cis-1-propenylbenzene	766-90-5	211.47	1	452.03	1	671.00	2	33.60	2	407.0	2	0.2904	2	0.245	2	0.341
16510	C9H10	trans-1-propenylbenzene	873-66-5	243.82	1	451.41	1	670.00	2	33.60	2	407.0	2	0.2904	2	0.245	2	0.339
16511	C9H10	2-propenylbenzene	300-57-2	233.15	1	428.95	1	640.92	2	34.24	2	412.5	2	0.2865	2	0.265	2	0.332
16512	C9H10	alpha-methylstyrene	98-83-9	249.95	1	438.65	1	654.00	2	33.60	2	399.0	2	0.2962	2	0.247	2	0.323
16513	C9H10	m-methylstyrene	100-80-1	186.81	1	444.75	1	657.00	2	32.90	2	407.0	2	0.2904	2	0.245	2	0.349
16514	C9H10	o-methylstyrene	611-15-4	204.58	1	442.96	1	659.00	2	34.70	2	407.0	2	0.2904	2	0.258	2	0.341
16515	C9H10	p-methylstyrene	622-97-9	239.02	1	445.93	1	665.00	2	33.60	2	431.0	2	0.2742	2	0.262	2	0.318
16516	C9H10	1-propenylbenzene	637-50-3	246.05	1	448.65	1	656.71	2	34.51	2	411.8	2	0.2870	2	0.260	2	0.321
16519	C9H10	methylstyrene	25013-15-4	196.25	1	442.65	1	658.75	2	33.70	2	417.0	2	0.2836	2	0.257	2	0.334
16520	C9H10	3(4)-methylstyrene, isomers	39294-88-7	215.49	2	443.15	1	658.75	2	33.70	2	417.0	2	0.2836	2	0.257	2	0.334
16539	C9H10Cl2	2,4-dichloro-1,3,5-trimethylbenzene	57386-83-1	332.15	1	516.65	1	760.00	2	30.00	2	505.2	2	0.3743	2	0.240	2	---
16619	C9H10O	alpha-methylbenzeneacetaldehyde	93-53-8	284.00	2	472.00	1	682.00	2	33.00	2	424.0	2	0.3165	2	0.247	2	0.459
16676	C9H10O2	ethyl benzoate	93-89-0	238.45	1	486.55	1	698.00	2	31.80	2	489.0	2	0.3071	2	0.268	2	0.477
16680	C9H10O2	benzyl acetate	140-11-4	221.65	1	487.15	1	699.00	2	31.80	2	449.0	2	0.3345	2	0.246	2	0.473
16686	C9H10O2	phenyl glycidyl ether	122-60-1	276.79	1	516.65	1	720.00	2	29.50	2	464.0	2	0.3237	2	0.229	2	0.594
16707.1	C9H10O2	phenyl ethyl formate	7775-38-4	238.00	2	477.00	2	690.00	2	32.30	2	449.0	2	0.3345	2	0.253	2	0.438
16711	C9H10O3	ethyl vanillin	121-32-4	350.65	1	567.00	1	748.00	2	32.70	2	467.0	2	0.3558	2	0.246	2	1.073
16728	C9H10O3	1-(4-hydroxy-3-methoxyphenyl)ethanone	498-02-2	387.65	1	570.65	1	786.00	2	36.50	2	467.0	2	0.3558	2	0.261	2	0.786
16732	C9H10O3	4-methoxybenzeneacetic acid	104-01-8	356.15	1	564.00	2	768.00	2	39.00	2	470.0	2	0.3536	2	0.287	2	0.898
16905	C9H11NO	p-dimethylaminobenzaldehyde	100-10-7	348.00	1	588.00	1	832.00	2	30.70	2	471.0	2	0.3168	2	0.209	2	0.527
16940	C9H11NO2	L-phenylalanine	63-91-2	556.15	dec	628.00	2	854.00	2	34.70	2	506.0	2	0.3265	2	0.247	2	0.852
17004	C9H12	cumene	98-82-8	177.14	1	425.56	1	631.00	1	32.09	1	434.0	1	0.2769	1	0.265	1	0.327
17005	C9H12	m-ethyltoluene	620-14-4	177.61	1	434.48	1	637.15	2	31.50	2	427.0	2	0.2815	2	0.254	2	0.365
17006	C9H12	o-ethyltoluene	611-14-3	192.35	1	438.33	1	650.00	2	32.90	2	427.0	2	0.2815	2	0.260	2	0.335
17007	C9H12	p-ethyltoluene	622-96-8	210.83	1	435.16	1	640.20	1	32.30	1	427.0	2	0.2815	2	0.259	1,2	0.367
17008	C9H12	1,2,3-trimethylbenzene	526-73-8	247.79	1	449.27	1	664.50	1	34.54	1	414.0	2	0.2903	2	0.259	1,2	0.367
17009	C9H12	1,2,4-trimethylbenzene	95-63-6	229.33	1	442.53	1	649.10	1	32.30	1	430.0	1	0.2795	1	0.257	1	0.379
17010	C9H12	trimethyl benzene	25551-13-7	204.65	2	445.00	2	643.63	2	31.30	2	445.6	2	0.2705	2	0.261	2	0.346
17011	C9H12	mesitylene	108-67-8	228.42	1	437.89	1	637.30	1	31.27	1	433.0	1	0.2776	1	0.256	1	0.399
17012	C9H12	propylbenzene	103-65-1	173.55	1	432.39	1	638.35	1	32.00	1	440.0	1	0.2732	1	0.265	1	0.344
17013	C9H12	ethylidene norbornene	16219-75-3	193.00	1	420.67	1	629.00	2	34.00	2	408.1	2	0.2945	2	0.265	2	0.314
17018	C9H12	5-vinyl-2-norbornene, endo and exo	3048-64-4	193.15	1	413.65	1	626.00	2	32.10	2	427.0	2	0.2815	2	0.263	2	0.249

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
17077	C9H12O	benzyl ethyl ether	539-30-0	275.65	1	458.15	1	662.00	2	31.10	2	442.0	2	0.3081	2	0.250	2	0.433
17090	C9H12O	2-phenyl-2-propanol	617-94-7	309.15	1	475.15	1	660.00	2	34.90	2	440.0	2	0.3095	2	0.280	2	0.698
17091	C9H12O	benzenepropanol	122-97-4	255.15	1	508.15	1	694.00	2	34.30	2	440.0	2	0.3095	2	0.262	2	0.803
17096	C9H12O	alpha-ethylbenzenemethanol	93-54-9	---	---	492.15	1	677.00	2	34.90	2	440.0	2	0.3095	2	0.273	2	0.746
17099	C9H12O	2-phenyl-1-propanol	1123-85-9	257.00	2	497.65	1	685.00	2	34.90	2	440.0	2	0.3095	2	0.270	2	0.764
17100	C9H12O	1-phenyl-2-propanol	698-87-3	---	---	493.15	1	678.00	2	34.90	2	440.0	2	0.3095	2	0.272	2	0.750
17101	C9H12O	2-propylphenol	644-35-9	280.15	1	492.55	1	716.37	2	38.58	2	365.5	2	0.3726	2	0.237	2	0.496
17102	C9H12O	3-propylphenol	621-27-2	299.15	1	502.15	1	730.33	2	38.58	2	365.5	2	0.3726	2	0.232	2	0.496
17103	C9H12O	4-propylphenol	645-56-7	295.15	1	506.65	1	736.87	2	38.58	2	365.5	2	0.3726	2	0.230	2	0.496
17104	C9H12O	2-isopropylphenol	88-69-7	288.65	1	487.65	1	714.75	2	38.97	2	359.5	2	0.3788	2	0.236	2	0.464
17105	C9H12O	3-isopropylphenol	618-45-1	299.15	1	501.15	1	734.54	2	38.97	2	359.5	2	0.3788	2	0.229	2	0.464
17106	C9H12O	4-isopropylphenol	99-89-8	335.15	1	502.35	1	736.30	2	38.97	2	359.5	2	0.3788	2	0.229	2	0.464
17107	C9H12O	2-methyl-3-ethylphenol	1123-73-5	344.15	1	500.15	1	726.44	2	37.87	2	365.5	2	0.3726	2	0.229	2	0.495
17108	C9H12O	2-methyl-4-ethylphenol	2219-73-0	315.11	2	500.75	1	727.31	2	37.87	2	365.5	2	0.3726	2	0.229	2	0.495
17109	C9H12O	2-methyl-5-ethylphenol	1687-65-6	288.15	1	500.85	1	727.45	2	37.87	2	365.5	2	0.3726	2	0.229	2	0.495
17110	C9H12O	2-methyl-6-ethylphenol	1687-64-5	315.11	2	487.15	1	707.55	2	37.87	2	365.5	2	0.3726	2	0.235	2	0.495
17111	C9H12O	3-methyl-4-ethylphenol	1123-94-0	299.15	1	503.15	1	730.79	2	37.87	2	365.5	2	0.3726	2	0.228	2	0.495
17112	C9H12O	3-methyl-5-ethylphenol	698-71-5	328.15	1	509.15	1	739.51	2	37.87	2	365.5	2	0.3726	2	0.225	2	0.495
17113	C9H12O	3-methyl-6-ethylphenol	1687-61-2	315.85	1	497.35	1	722.37	2	37.87	2	365.5	2	0.3726	2	0.230	2	0.495
17114	C9H12O	4-methyl-2-ethylphenol	3855-26-3	298.85	1	495.55	1	719.75	2	37.87	2	365.5	2	0.3726	2	0.231	2	0.495
17115	C9H12O	4-methyl-3-ethylphenol	6161-67-7	306.15	1	509.15	1	739.51	2	37.87	2	365.5	2	0.3726	2	0.225	2	0.495
17116	C9H12O	2,3,4-trimethylphenol	526-85-2	354.15	1	510.15	1	739.96	2	37.18	2	365.5	2	0.3726	2	0.221	2	0.494
17117	C9H12O	2,3,5-trimethylphenol	697-82-5	368.15	1	508.55	1	737.64	2	37.18	2	365.5	2	0.3726	2	0.222	2	0.494
17118	C9H12O	2,3,6-trimethylphenol	2416-94-6	335.15	1	510.00	2	739.74	2	37.18	2	365.5	2	0.3726	2	0.221	2	0.494
17119	C9H12O	2,4,5-trimethylphenol	496-78-6	345.15	1	508.55	1	737.64	2	37.18	2	365.5	2	0.3726	2	0.222	2	0.494
17120	C9H12O	2,4,6-trimethylphenol	527-60-6	345.15	1	493.95	1	716.46	2	37.18	2	365.5	2	0.3726	2	0.228	2	0.494
17121	C9H12O	3,4,5-trimethylphenol	527-54-8	381.15	1	524.95	1	761.43	2	37.18	2	365.5	2	0.3726	2	0.215	2	0.494
17138	C9H12O2	cumene hydroperoxide	80-15-9	264.26	1	442.70	1	605.00	2	33.40	2	419.0	2	0.3632	2	0.278	2	0.995
17213	C9H12S	propyl phenyl sulfide	874-79-3	228.15	1	493.15	1	720.19	2	33.26	2	485.5	2	0.3136	2	0.270	2	0.417
17214	C9H12S	isopropyl phenyl sulfide	3019-20-3	124.44	2	481.15	1	708.21	2	33.57	2	479.5	2	0.3175	2	0.273	2	0.386
17215	C9H12S	3-methyl-(1-thiapropyl)-benzene	34786-24-8	123.07	2	492.15	1	717.74	2	32.69	2	485.5	2	0.3136	2	0.266	2	0.416
17216	C9H12S	4-methyl-(1-thiapropyl)-benzene	622-63-9	123.07	2	493.15	1	719.20	2	32.69	2	485.5	2	0.3136	2	0.265	2	0.416
17217	C9H12S	2-ethyl-(1-thiaethyl)-benzene	20760-06-9	123.07	2	501.15	1	730.87	2	32.69	2	485.5	2	0.3136	2	0.261	2	0.416
17218	C9H12S	3-ethyl-(1-thiaethyl)-benzene	---	123.07	2	505.76	2	737.59	2	32.69	2	485.5	2	0.3136	2	0.259	2	0.416
17219	C9H12S	4-ethyl-(1-thiaethyl)-benzene	---	123.07	2	505.76	2	737.59	2	32.69	2	485.5	2	0.3136	2	0.259	2	0.416
17220	C9H12S	2,3-dimethyl-(1-thiaethyl)-benzene	---	106.70	2	510.74	2	743.84	2	32.14	2	485.5	2	0.3136	2	0.252	2	0.415
17221	C9H12S	2,4-dimethyl-(1-thiaethyl)-benzene	---	106.70	2	510.74	2	743.84	2	32.14	2	485.5	2	0.3136	2	0.252	2	0.415
17222	C9H12S	2,5-dimethyl-(1-thiaethyl)-benzene	---	106.70	2	510.74	2	743.84	2	32.14	2	485.5	2	0.3136	2	0.252	2	0.415
17223	C9H12S	2,6-dimethyl-(1-thiaethyl)-benzene	---	106.70	2	510.74	2	743.84	2	32.14	2	485.5	2	0.3136	2	0.252	2	0.415
17224	C9H12S	3,4-dimethyl-(1-thiaethyl)-benzene	---	106.70	2	510.74	2	743.84	2	32.14	2	485.5	2	0.3136	2	0.252	2	0.415
17225	C9H12S	3,5-dimethyl-(1-thiaethyl)-benzene	---	106.70	2	510.74	2	743.84	2	32.14	2	485.5	2	0.3136	2	0.252	2	0.415
17226	C9H12S	benzenepropanethiol	24734-68-7	252.70	2	502.13	2	740.00	2	35.00	2	471.9	2	0.3226	2	0.268	2	---
17227	C9H12S	2-isopropylbenzenethiol	6262-87-9	252.70	2	493.15	1	740.00	2	35.00	2	471.9	2	0.3226	2	0.268	2	---
17228	C9H12S	[(ethylthio)methyl]benzene	6263-62-3	252.70	2	502.13	2	740.00	2	35.00	2	471.9	2	0.3226	2	0.268	2	---
17258	C9H13N	2-butylpyridine	5058-19-5	370.15	1	465.15	1	673.00	2	30.00	2	469.4	2	0.2880	2	0.252	2	---
17259	C9H13N	2-tert-butylpyridine	5944-41-2	240.15	1	443.15	1	673.00	2	30.00	2	469.4	2	0.2880	2	0.252	2	---
17260	C9H13N	3-tert-butylpyridine	38031-78-6	229.15	1	467.95	1	673.00	2	30.00	2	469.4	2	0.2880	2	0.252	2	---
17261	C9H13N	4-butylpyridine	5335-75-1	304.48	2	482.15	1	673.00	2	30.00	2	469.4	2	0.2880	2	0.252	2	---
17262	C9H13N	4-tert-butylpyridine	3978-81-2	232.15	1	469.65	1	673.00	2	30.00	2	469.4	2	0.2880	2	0.252	2	---
17263	C9H13N	2,4-diethylpyridine	626-21-1	385.15	1	460.65	1	673.00	2	30.00	2	469.4	2	0.2880	2	0.252	2	---
17264	C9H13N	2-ethyl-3,5-dimethylpyridine	1123-96-2	304.48	2	471.15	1	673.00	2	30.00	2	469.4	2	0.2880	2	0.252	2	---
17265	C9H13N	3-ethyl-2,6-dimethylpyridine	23580-52-1	304.48	2	461.15	1	673.00	2	30.00	2	469.4	2	0.2880	2	0.252	2	---
17266	C9H13N	4-ethyl-2,6-dimethylpyridine	36917-36-9	370.15	1	460.65	1	673.00	2	30.00	2	469.4	2	0.2880	2	0.252	2	---
17267	C9H13N	2,3,4,6-tetramethylpyridine	20820-82-0	304.48	2	476.15	1	673.00	2	30.00	2	469.4	2	0.2880	2	0.252	2	---
17268	C9H13N	2-ethyl-6-methylaniline	24549-06-2	240.15	1	504.15	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17269	C9H13N	N-ethyl-2-methylaniline	94-68-8	266.28	2	489.15	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17270	C9H13N	N-ethyl-3-methylaniline	102-27-2	266.28	2	494.15	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17271	C9H13N	N-ethyl-4-methylaniline	622-57-1	266.28	2	490.15	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17272	C9H13N	N-ethyl-N-methylaniline	613-97-8	266.28	2	477.15	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17273	C9H13N	2-isopropylaniline	643-28-7	266.28	2	494.15	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17274	C9H13N	4-isopropylaniline	99-88-7	266.28	2	498.15	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17275	C9H13N	N-isopropylaniline	768-52-5	266.28	2	476.15	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17276	C9H13N	2-methyl-N,N-dimethylaniline	609-72-3	213.15	1	467.25	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17277	C9H13N	3-methyl-N,N-dimethylaniline	121-72-2	266.28	2	485.15	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17278	C9H13N	4-methyl-N,N-dimethylaniline	99-97-8	266.28	2	484.15	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17279	C9H13N	2-propylaniline	1821-39-2	266.28	2	499.15	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17280	C9H13N	N-propylaniline	622-80-0	266.28	2	495.15	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17281	C9H13N	2,4,5-trimethylaniline	137-17-7	341.15	1	507.65	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17282	C9H13N	2,4,6-trimethylaniline	88-05-1	270.65	1	505.65	1	705.58	2	32.84	2	482.0	2	0.2622	2	0.270	2	0.413
17283	C9H13N	3-butylpyridine	539-32-2	304.48	2	479.75	1	673.00	2	30.00	2	469.4	2	0.2880	2	0.252	2	---
17294	C9H13N	4-propylaniline	2696-84-6	304.48	2	497.15	1	673.00	2	30.00	2	469.4	2	0.2880	2	0.252	2	---
17295	C9H13N	2,6-diethylpyridine	935-28-4	304.48	2	479.94	2	673.00	2	30.00	2	469.4	2	0.2880	2	0.252	2	---
17297	C9H13N	2,3,5,6-tetramethylpyridine	3748-84-3	304.48	2	470.70	1	673.00	2	30.00	2	469.4	2	0.2880	2	0.252	2	---
17388	C9H14	1-nonen-3-yne	57223-18-4	---	---	418.44	2	595.00	2	30.00	2	426.4	2	0.2866	2	0.259	2	---
17389	C9H14	1-nonen-4-yne	31508-12-0	---	---	418.44	2	595.00	2	30.00	2	424.8	2	0.2877	2	0.258	2	---
17390	C9H14	2-nonen-4-yne	90644-60-3	---	---	418.44	2	595.00	2	30.00	2	424.8	2	0.2877	2	0.258	2	---
17391	C9H14	6,6-dimethyl-1-hepten-4-yne	31508-08-4	---	---	398.15	1	595.00	2	30.00	2	424.8	2	0.2877	2	0.258	2	---
17392	C9H14	3-propyl-3-hexen-1-yne	688-52-8	---	---	409.15	1	595.00	2	30.00	2	424.8	2	0.2877	2	0.258	2	---
17395.1	C9H14	ethylnorbene	15403-89-1	---	---	416.75	1	625.00	2	30.60	2	437.0	2	0.2797	2	0.257	2	0.261
17395.2	C9H14	1-methyl-4-vinylcyclohexene	17699-86-4	---	---	425.15	1	626.00	2	31.20	2	437.0	2	0.2797	2	0.262	2	0.345

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
17395.3	C9H14	propenyl cyclohexene	13511-13-2	199.00	2	431.65	1	636.00	2	31.20	2	437.0	2	0.2797	2	0.258	2	0.342
17436	C9H14O	isophorone	78-59-1	265.05	1	488.35	1	715.00	2	33.30	2	456.0	2	0.3031	2	0.255	2	0.400
17450	C9H14O	2-allylcyclohexanone	94-66-6	---	---	476.20	2	690.00	2	29.50	2	478.5	2	0.2889	2	0.246	2	---
17457	C9H14O	2-amylfuran	3777-69-3	---	---	476.20	2	650.00	2	35.70	2	407.9	2	0.3388	2	0.269	2	---
17513	C9H14O6	glyceryl triacetate	102-76-1	277.25	1	532.15	1	704.00	2	23.10	2	625.0	2	0.3491	2	0.247	2	0.839
17518.1	C9H14O7	trilatic acid	78024-33-6	312.15	1	619.00	2	777.00	2	25.50	2	620.0	2	0.3778	2	0.245	2	1.425
17520	C9H14S	2-isopentylthiophene	26963-33-7	---	---	469.15	1	685.00	2	29.00	2	498.1	2	0.3097	2	0.254	2	---
17546	C9H15N	N,N-diallyl-2-propen-1-amine	102-70-5	200.00	1	423.65	1	592.00	2	24.60	2	521.0	2	0.2634	2	0.260	2	0.499
17590	C9H16	1-butylcyclopentene	2423-01-0	184.75	1	429.15	1	626.53	2	28.72	2	466.5	2	0.2663	2	0.257	2	0.359
17591	C9H16	4-isopropyl-1-methylcyclopentene	90769-70-3	184.75	2	415.65	1	626.53	2	28.72	2	466.5	2	0.2663	2	0.257	2	0.359
17592	C9H16	3-methyl-1-isopropylcyclopentene	51115-02-7	184.75	2	411.65	1	626.53	2	28.72	2	466.5	2	0.2663	2	0.257	2	0.359
17593	C9H16	1-nonyne	3452-09-3	223.16	1	423.85	1	598.05	2	26.10	2	497.0	2	0.2500	2	0.261	2	0.471
17594	C9H16	2-nonyne	19447-29-1	296.79	2	435.05	1	630.31	2	27.07	2	501.5	2	0.2477	2	0.259	2	0.368
17595	C9H16	3-nonyne	20184-89-8	296.79	2	430.25	1	623.36	2	27.07	2	501.5	2	0.2477	2	0.262	2	0.368
17596	C9H16	4-nonyne	20184-91-2	272.25	2	427.15	1	621.49	2	26.96	2	501.5	2	0.2477	2	0.262	2	0.373
17597	C9H16	7-methyl-3-octyne	37050-06-9	272.25	2	421.10	2	621.49	2	26.96	2	501.5	2	0.2477	2	0.262	2	0.373
17598	C9H16	2,6-dimethyl-3-heptyne	19549-97-4	272.25	2	403.75	1	621.49	2	26.96	2	501.5	2	0.2477	2	0.262	2	0.373
17599	C9H16	5,5-dimethyl-3-heptyne	23097-98-5	272.25	2	421.10	2	621.49	2	26.96	2	501.5	2	0.2477	2	0.262	2	0.373
17605	C9H16	1,8-nonadiene	4900-30-5	202.32	2	415.65	1	616.00	2	32.80	2	400.7	2	0.3100	2	0.257	2	---
17606	C9H16	2,7-nonadiene	51333-70-1	200.65	1	424.65	1	616.00	2	32.80	2	400.7	2	0.3100	2	0.257	2	---
17607	C9H16	4-methyl-3,5-octadiene	36903-95-4	202.32	2	422.65	1	616.00	2	32.80	2	400.7	2	0.3100	2	0.257	2	---
17608	C9H16	7-methyl-2,4-octadiene	2216-70-8	202.32	2	422.15	1	616.00	2	32.80	2	400.7	2	0.3100	2	0.257	2	---
17609	C9H16	2,4-dimethyl-2,4-heptadiene	74421-05-9	202.32	2	411.15	1	616.00	2	32.80	2	400.7	2	0.3100	2	0.257	2	---
17610	C9H16	2,6-dimethyl-1,3-heptadiene	2436-84-2	202.32	2	414.15	1	616.00	2	32.80	2	400.7	2	0.3100	2	0.257	2	---
17611	C9H16	2,6-dimethyl-1,5-heptadiene	6709-39-3	203.15	1	416.15	1	616.00	2	32.80	2	400.7	2	0.3100	2	0.257	2	---
17612	C9H16	3,5-dimethyl-2,4-heptadiene	101935-28-8	202.32	2	413.15	1	616.00	2	32.80	2	400.7	2	0.3100	2	0.257	2	---
17613	C9H16	3-ethyl-2-methyl-1,5-hexadiene	73398-15-9	203.15	1	418.15	1	616.00	2	32.80	2	400.7	2	0.3100	2	0.257	2	---
17615	C9H16	1,2,3-trimethylcyclohexene	72312-48-2	181.60	2	423.15	1	620.00	2	28.60	2	451.8	2	0.2749	2	0.251	2	---
17616	C9H16	1,3,5-trimethylcyclohexene	3643-64-9	181.60	2	414.15	1	620.00	2	28.60	2	451.8	2	0.2749	2	0.251	2	---
17617	C9H16	1,4,4-trimethylcyclohexene	3419-71-4	181.60	2	413.15	1	620.00	2	28.60	2	451.8	2	0.2749	2	0.251	2	---
17618	C9H16	1,4,5-trimethylcyclohexene	20030-32-4	181.60	2	418.15	1	620.00	2	28.60	2	451.8	2	0.2749	2	0.251	2	---
17619	C9H16	1,5,5-trimethylcyclohexene	503-46-8	181.60	2	413.15	1	620.00	2	28.60	2	451.8	2	0.2749	2	0.251	2	---
17620	C9H16	1,5,6-trimethylcyclohexene	116724-18-6	181.60	2	413.15	1	620.00	2	28.60	2	451.8	2	0.2749	2	0.251	2	---
17621	C9H16	1,6,6-trimethylcyclohexene	69745-49-9	181.60	2	419.15	1	620.00	2	28.60	2	451.8	2	0.2749	2	0.251	2	---
17622	C9H16	1-ethyl-4-methylcyclohexene	62088-36-2	181.60	2	422.15	1	620.00	2	28.60	2	451.8	2	0.2749	2	0.251	2	---
17627	C9H16	1-isopropyl-1-cyclohexene	4292-04-0	181.60	2	428.25	1	620.00	2	28.60	2	451.8	2	0.2749	2	0.251	2	---
17628	C9H16	7-methyl-1,6-octadiene	42152-47-6	202.32	2	416.65	1	616.00	2	32.80	2	400.7	2	0.3100	2	0.257	2	---
17629	C9H16	3,5,5-trimethylcyclohexene	933-12-0	181.60	1	406.75	1	620.00	2	28.60	2	451.8	2	0.2749	2	0.251	2	---
17670	C9H16O	2-ethyl-2-methylcyclohexanone	17206-52-9	305.72	2	468.15	1	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17671	C9H16O	2-isopropylcyclohexanone	1004-77-9	345.65	1	456.52	2	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17672	C9H16O	4-isopropylcyclohexanone	5432-85-9	305.72	2	487.15	1	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17673	C9H16O	2-propylcyclohexanone	94-65-5	305.72	2	470.15	1	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17674	C9H16O	4-propylcyclohexanone	40649-36-3	305.72	2	486.15	1	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17675	C9H16O	2,2,3-trimethylcyclohexanone	39257-08-4	305.72	2	464.15	1	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17676	C9H16O	2,2,4-trimethylcyclohexanone	35413-38-8	330.15	1	456.52	2	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17677	C9H16O	2,2,5-trimethylcyclohexanone	933-36-8	305.72	2	456.15	1	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17678	C9H16O	2,2,6-trimethylcyclohexanone	2408-37-9	241.35	1	451.65	1	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17679	C9H16O	2,3,6-trimethylcyclohexanone	42185-47-7	305.72	2	463.15	1	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17680	C9H16O	2,4,4-trimethylcyclohexanone	2230-70-8	305.72	2	464.15	1	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17681	C9H16O	2,4,5-trimethylcyclohexanone	51299-55-9	305.72	2	466.15	1	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17682	C9H16O	2,4,6-trimethylcyclohexanone	90645-54-8	305.72	2	459.15	1	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17683	C9H16O	3,3,5-trimethylcyclohexanone	873-94-9	305.72	2	462.15	1	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17684	C9H16O	3,4,4-trimethylcyclohexanone	40441-35-8	305.72	2	456.52	2	690.00	2	29.50	2	474.6	2	0.2955	2	0.244	2	---
17690	C9H16O	2-methyl-5-octen-4-one	17577-93-4	---	---	456.15	1	655.00	2	28.60	2	511.2	2	0.2743	2	0.268	2	---
17691	C9H16O	2-methyl-7-octen-4-one	54298-97-4	---	---	456.52	2	655.00	2	28.60	2	511.2	2	0.2743	2	0.268	2	---
17692	C9H16O	5-methyl-1-octen-3-one	116836-13-6	---	---	456.52	2	655.00	2	28.60	2	511.2	2	0.2743	2	0.268	2	---
17693	C9H16O	7-methyl-5-octen-4-one	32064-78-1	---	---	456.52	2	655.00	2	28.60	2	511.2	2	0.2743	2	0.268	2	---
17698	C9H16O	2-nonenal	2463-53-8	---	---	456.52	2	650.00	2	26.00	2	480.1	2	0.2921	2	0.231	2	---
17699	C9H16O	trans-2-nonenal	18829-56-6	---	---	456.52	2	650.00	2	26.00	2	480.1	2	0.2921	2	0.231	2	---
17704	C9H16O	2,6-dimethyl-5-heptenal	106-72-9	---	---	456.52	2	650.00	2	26.00	2	480.1	2	0.2921	2	0.231	2	---
17705	C9H16O	(Z)-6-nonenal	2277-19-2	---	---	456.52	2	650.00	2	26.00	2	480.1	2	0.2921	2	0.231	2	---
17706	C9H16O	trans-3-nonen-2-one	18402-83-0	---	---	456.52	2	655.00	2	28.60	2	511.2	2	0.2743	2	0.268	2	---
17711	C9H16O2	allyl hexanoate	123-68-2	215.70	2	459.15	1	628.00	2	24.50	2	504.8	2	0.3095	2	0.237	2	---
17716	C9H16O2	ethyl 2-methyl-2-hexenoate	26311-33-1	215.70	2	467.93	2	628.00	2	24.50	2	504.8	2	0.3095	2	0.237	2	---
17717	C9H16O2	ethyl 2-methyl-3-hexenoate	21994-78-5	215.70	2	467.93	2	628.00	2	24.50	2	504.8	2	0.3095	2	0.237	2	---
17718	C9H16O2	ethyl 3-methyl-3-hexenoate	21994-77-4	215.70	2	467.93	2	628.00	2	24.50	2	504.8	2	0.3095	2	0.237	2	---
17719	C9H16O2	hexyl acrylate	2499-95-8	228.15	1	467.93	2	628.00	2	24.50	2	504.8	2	0.3095	2	0.237	2	---
17724	C9H16O2	2-nonenoic acid	3760-11-0	272.20	2	525.00	2	756.00	2	25.00	2	545.9	2	0.2862	2	0.217	2	---
17725	C9H16O2	3-nonenoic acid	4124-88-3	268.75	1	525.00	2	756.00	2	25.00	2	545.9	2	0.2862	2	0.217	2	---
17726	C9H16O2	8-nonenoic acid	31642-67-8	275.65	1	525.00	2	756.00	2	25.00	2	545.9	2	0.2862	2	0.217	2	---
17729	C9H16O2	2-ethylbutyl acrylate	3593-10-4	203.25	1	467.93	2	628.00	2	24.50	2	504.8	2	0.3095	2	0.237	2	---
17734	C9H16O2	3,5-dimethyl-3-hydroxyhexane-4-carboxylic acid b-lactone	69928-30-9	272.20	2	525.00	2	756.00	2	25.00	2	545.9	2	0.2862	2	0.217	2	---
17735	C9H16O2	2-ethylbutylacrylate	3953-10-4	215.70	2	512.15	1	628.00	2	24.50	2	504.8	2	0.3095	2	0.237	2	---
17736	C9H16O2	cis-3-hexenyl propionate	33467-74-2	215.70	2	475.65	1	628.00	2	24.50	2	504.8	2	0.3095	2	0.237	2	---
17737	C9H16O2	trans-2-hexenyl propionate	53398-80-4	215.70	2	467.93	2	628.00	2	24.50	2	504.8	2	0.3095	2	0.237	2	---
17755	C9H16O4	azelaic acid	123-99-9	379.65	1	633.36	1	811.00	2	25.60	2	610.0	2	0.3086	2	0.232	2	1.172
17785	C9H17Br	cis-1-bromo-1-nonene	39924-58-8	245.41	2	478.15	1	666.86	2	26.00	2	581.5	2	0.3528	2	0.273	2	0.536
17786	C9H17Br	trans-1-bromo-1-nonene	53434-75-6	245.41	2	478.15	1	666.86	2	26.00	2	581.5	2	0.3528	2	0.273	2	0.536
17790	C9H17Br3	1,1,1-tribromononane	62127-66-6	372.51	2	570.15	1	777.84	2	29.03	2	714.5	2	0.5108	2	0.321	2	0.720
17791	C9H17Cl	cis-1-chloro-1-nonene	66688-72-0	215.53	2	474.15	1	662.93	2	23.41	2	568.5	2	0.2826	2	0.241	2	0.474

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
17792	C9H17Cl	trans-1-chloro-1-nonene	66688-73-1	215.53	2	474.15	1	662.93	2	23.41	2	568.5	2	0.2826	2	0.241	2	0.474
17793	C9H17Cl	(3-chloropropyl)cyclohexane	1124-62-5	220.35	1	487.85	1	662.93	2	23.41	2	568.5	2	0.2826	2	0.241	2	0.474
17804	C9H17Cl3	1,1,1-trichlorononane	1071-84-7	282.87	2	517.15	1	710.31	2	21.16	2	675.5	2	0.3428	2	0.242	2	0.520
17805	C9H17F	cis-1-fluoro-1-nonene	66688-74-2	217.76	2	408.75	2	571.18	2	23.23	2	537.5	2	0.2683	2	0.263	2	0.473
17806	C9H17F	trans-1-fluoro-1-nonene	66688-75-3	217.76	2	408.75	2	571.18	2	23.23	2	537.5	2	0.2683	2	0.263	2	0.473
17808	C9H17F3	1,1,1-trifluorononane	55757-34-1	289.56	2	421.15	1	578.40	2	20.50	2	577.0	2	0.3158	2	0.246	2	0.505
17809	C9H17I	cis-1-iodo-1-nonene	27370-94-1	243.67	2	505.15	1	708.62	2	23.75	2	607.5	2	0.4150	2	0.245	2	0.463
17810	C9H17I	trans-1-iodo-1-nonene	26143-08-8	243.67	2	505.15	1	708.62	2	23.75	2	607.5	2	0.4150	2	0.245	2	0.463
17812	C9H17I3	1,1,1-triiodononane	---	367.29	2	681.51	2	944.80	2	22.06	2	792.5	2	0.6384	2	0.223	2	0.490
17813	C9H17N	nonanenitrile	2243-27-8	238.95	1	497.55	1	677.19	2	22.53	2	565.5	2	0.2462	2	0.226	2	0.605
17859	C9H18	butylcyclopentane	2040-95-1	165.18	1	429.76	1	621.00	2	27.20	2	483.0	2	0.2614	2	0.254	2	0.372
17860	C9H18	isobutylcyclopentane	3788-32-7	157.93	1	421.10	1	617.21	2	27.88	2	474.5	2	0.2661	2	0.258	2	0.330
17861	C9H18	sec-butylcyclopentane	4850-32-2	186.59	2	427.50	1	626.59	2	27.88	2	474.5	2	0.2661	2	0.254	2	0.330
17862	C9H18	tert-butylcyclopentane	3875-52-3	177.35	1	418.00	1	622.56	2	28.20	2	469.5	2	0.2689	2	0.256	2	0.271
17863	C9H18	1-methyl-1-propylcyclopentane	16631-63-3	225.49	2	419.15	1	618.03	2	29.00	2	478.5	2	0.2638	2	0.270	2	0.321
17864	C9H18	1-methyl-cis-2-propylcyclopentane	932-43-4	169.15	1	425.73	1	620.88	2	26.71	2	479.5	2	0.2633	2	0.248	2	0.334
17865	C9H18	1-methyl-trans-2-propylcyclopentane	932-44-5	153.15	1	419.52	1	611.82	2	26.71	2	479.5	2	0.2633	2	0.252	2	0.334
17866	C9H18	1-methyl-cis-3-propylcyclopentane	2443-04-1	197.35	2	421.15	1	614.20	2	26.71	2	479.5	2	0.2633	2	0.251	2	0.334
17867	C9H18	1-methyl-trans-3-propylcyclopentane	2443-03-0	197.35	2	421.15	1	614.20	2	26.71	2	479.5	2	0.2633	2	0.251	2	0.334
17868	C9H18	1-methyl-1-isopropylcyclopentane	61828-00-0	210.49	2	421.15	1	626.05	2	29.25	2	472.5	2	0.2672	2	0.266	2	0.292
17869	C9H18	1-methyl-cis-2-isopropylcyclopentane	61868-01-7	182.35	2	421.15	1	619.02	2	26.93	2	473.5	2	0.2666	2	0.248	2	0.305
17870	C9H18	1-methyl-trans-2-isopropylcyclopentane	61828-01-1	182.35	2	414.15	1	608.73	2	26.93	2	473.5	2	0.2666	2	0.252	2	0.305
17871	C9H18	1-methyl-cis-3-isopropylcyclopentane	61828-02-2	182.35	2	415.15	1	610.20	2	26.93	2	473.5	2	0.2666	2	0.251	2	0.305
17872	C9H18	1-methyl-trans-3-isopropylcyclopentane	61828-03-3	182.35	2	415.15	1	610.20	2	26.93	2	473.5	2	0.2666	2	0.251	2	0.305
17873	C9H18	1,1-diethylcyclopentane	2721-38-2	177.55	1	423.65	1	624.67	2	29.00	2	478.5	2	0.2638	2	0.267	2	0.321
17874	C9H18	1,cis-2-diethylcyclopentane	932-39-8	155.15	1	426.71	1	622.31	2	26.71	2	479.5	2	0.2633	2	0.248	2	0.334
17875	C9H18	1,trans-2-diethylcyclopentane	932-40-1	178.15	1	420.68	1	613.51	2	26.71	2	479.5	2	0.2633	2	0.251	2	0.334
17876	C9H18	1,3-diethylcyclopentane	19398-75-5	195.55	2	423.15	1	610.99	2	26.81	2	477.3	2	0.2645	2	0.252	2	0.302
17877	C9H18	1,cis-3-diethylcyclopentane	62016-59-5	197.35	2	423.15	1	617.12	2	26.71	2	479.5	2	0.2633	2	0.250	2	0.334
17878	C9H18	1,trans-3-diethylcyclopentane	62016-60-8	197.35	2	423.15	1	617.12	2	26.71	2	479.5	2	0.2633	2	0.250	2	0.334
17879	C9H18	1,1-dimethyl-2-ethylcyclopentane	54549-80-3	221.25	2	411.15	1	607.98	2	27.99	2	477.5	2	0.2644	2	0.264	2	0.296
17880	C9H18	1,1-dimethyl-3-ethylcyclopentane	62016-61-9	221.25	2	407.15	1	602.06	2	27.99	2	477.5	2	0.2644	2	0.267	2	0.296
17881	C9H18	1,cis-2-dimethyl-1-ethylcyclopentane	62016-63-1	221.25	2	417.15	1	616.85	2	27.99	2	477.5	2	0.2644	2	0.261	2	0.296
17882	C9H18	1,trans-2-dimethyl-1-ethylcyclopentane	62016-62-0	221.25	2	417.15	1	616.85	2	27.99	2	477.5	2	0.2644	2	0.261	2	0.296
17883	C9H18	1,cis-2-dimethyl-cis-3-ethylcyclopentane	---	193.11	2	425.15	1	621.75	2	25.82	2	478.5	2	0.2638	2	0.239	2	0.309
17884	C9H18	1,cis-2-dimethyl-trans-3-ethylcyclopentane	---	193.11	2	418.15	1	611.51	2	25.82	2	478.5	2	0.2638	2	0.243	2	0.309
17885	C9H18	1,trans-2-dimethyl-cis-3-ethylcyclopentane	---	193.11	2	411.15	1	601.27	2	25.82	2	478.5	2	0.2638	2	0.247	2	0.309
17886	C9H18	1,trans-2-dimethyl-trans-3-ethylcyclopentane	---	193.11	2	418.15	1	611.51	2	25.82	2	478.5	2	0.2638	2	0.243	2	0.309
17887	C9H18	1,cis-2-dimethyl-cis-4-ethylcyclopentane	62016-64-2	193.11	2	420.15	1	614.43	2	25.82	2	478.5	2	0.2638	2	0.242	2	0.309
17888	C9H18	1,cis-2-dimethyl-trans-4-ethylcyclopentane	62016-65-3	193.11	2	420.15	1	614.43	2	25.82	2	478.5	2	0.2638	2	0.242	2	0.309
17889	C9H18	1,trans-2-dimethyl-cis-4-ethylcyclopentane	62016-66-4	193.11	2	413.15	1	604.20	2	25.82	2	478.5	2	0.2638	2	0.246	2	0.309
17890	C9H18	1,cis-3-dimethyl-1-ethylcyclopentane	62016-68-6	221.25	2	409.15	1	605.02	2	27.99	2	477.5	2	0.2644	2	0.266	2	0.296
17891	C9H18	1,trans-3-dimethyl-1-ethylcyclopentane	62016-67-5	221.25	2	409.15	1	605.02	2	27.99	2	477.5	2	0.2644	2	0.266	2	0.296
17892	C9H18	1,cis-3-dimethyl-cis-2-ethylcyclopentane	19903-00-5	193.11	2	425.15	1	621.75	2	25.82	2	478.5	2	0.2638	2	0.239	2	0.309
17893	C9H18	1,cis-3-dimethyl-trans-2-ethylcyclopentane	19902-98-8	193.11	2	410.15	1	599.81	2	25.82	2	478.5	2	0.2638	2	0.248	2	0.309
17894	C9H18	1,trans-3-dimethyl-cis-2-ethylcyclopentane	19902-99-9	193.11	2	417.15	1	610.05	2	25.82	2	478.5	2	0.2638	2	0.244	2	0.309
17895	C9H18	1,cis-3-dimethyl-cis-4-ethylcyclopentane	---	193.11	2	418.15	1	611.51	2	25.82	2	478.5	2	0.2638	2	0.243	2	0.309
17896	C9H18	1,cis-3-dimethyl-trans-4-ethylcyclopentane	---	193.11	2	410.15	1	599.81	2	25.82	2	478.5	2	0.2638	2	0.248	2	0.309
17897	C9H18	1,trans-3-dimethyl-cis-4-ethylcyclopentane	---	193.11	2	412.00	2	678.78	2	25.82	2	478.5	2	0.2638	2	0.219	2	0.309
17898	C9H18	1,trans-3-dimethyl-trans-4-ethylcyclopentane	---	193.11	2	418.15	1	611.51	2	25.82	2	478.5	2	0.2638	2	0.243	2	0.309
17899	C9H18	1,1,2,2-tetramethylcyclopentane	52688-89-8	245.15	2	406.15	1	609.38	2	29.38	2	475.5	2	0.2655	2	0.276	2	0.258
17900	C9H18	1,1,cis-2,cis-3-tetramethylcyclopentane	62016-70-0	217.01	2	411.15	1	609.74	2	27.04	2	476.5	2	0.2649	2	0.254	2	0.271
17901	C9H18	1,1,cis-2,trans-3-tetramethylcyclopentane	---	217.01	2	403.15	1	597.88	2	27.04	2	476.5	2	0.2649	2	0.259	2	0.271
17902	C9H18	1,1,cis-2,cis-4-tetramethylcyclopentane	62016-72-2	217.01	2	403.15	1	597.88	2	27.04	2	476.5	2	0.2649	2	0.259	2	0.271
17903	C9H18	1,1,cis-2,trans-4-tetramethylcyclopentane	---	217.01	2	403.15	1	597.88	2	27.04	2	476.5	2	0.2649	2	0.259	2	0.271
17904	C9H18	1,1,3,3-tetramethylcyclopentane	50876-33-0	184.86	1	391.11	1	586.82	2	29.38	2	475.5	2	0.2655	2	0.286	2	0.258
17905	C9H18	1,1,cis-3,cis-4-tetramethylcyclopentane	20309-77-7	166.75	1	406.15	1	602.33	2	27.04	2	476.5	2	0.2649	2	0.257	2	0.271
17906	C9H18	1,1,cis-3,trans-4-tetramethylcyclopentane	---	217.01	2	394.75	1	585.42	2	27.04	2	476.5	2	0.2649	2	0.265	2	0.271
17907	C9H18	1,2,2,cis-3-tetramethylcyclopentane	62016-73-3	217.01	2	411.15	1	609.74	2	27.04	2	476.5	2	0.2649	2	0.254	2	0.271
17908	C9H18	1,2,2,trans-3-tetramethylcyclopentane	---	217.01	2	411.15	1	609.74	2	27.04	2	476.5	2	0.2649	2	0.254	2	0.271
17909	C9H18	1,cis-2,cis-3,cis-4-tetramethylcyclopentane	2532-65-2	188.87	2	418.15	1	613.22	2	24.98	2	477.5	2	0.2644	2	0.234	2	0.284
17910	C9H18	1,cis-2,cis-3,trans-4-tetramethylcyclopentane	2532-69-6	188.87	2	411.15	1	602.95	2	24.98	2	477.5	2	0.2644	2	0.238	2	0.284
17911	C9H18	1,cis-2,trans-3,cis-4-tetramethylcyclopentane	2532-68-5	188.87	2	404.15	1	592.68	2	24.98	2	477.5	2	0.2644	2	0.242	2	0.284
17912	C9H18	1,cis-2,trans-3,trans-4-tetramethylcyclopentane	2532-64-1	188.87	2	411.15	1	602.95	2	24.98	2	477.5	2	0.2644	2	0.238	2	0.284
17913	C9H18	1,trans-2,cis-3,trans-4-tetramethylcyclopentane	2532-67-4	188.87	2	400.55	1	587.41	2	24.98	2	477.5	2	0.2644	2	0.244	2	0.284
17914	C9H18	1,trans-2,trans-3,cis-4-tetramethylcyclopentane	19907-40-5	188.87	2	404.15	1	592.68	2	24.98	2	477.5	2	0.2644	2	0.242	2	0.284
17915	C9H18	1-methyl-2-isopropylcyclopentane	89223-57-4	195.55	2	416.15	1	610.99	2	26.81	2	477.3	2	0.2645	2	0.252	2	0.302
17916	C9H18	propylcyclohexane	1678-92-8	178.25	1	429.90	1	639.15	2	28.07	2	477.0	2	0.2647	2	0.252	2	0.260
17917	C9H18	isopropylcyclohexane	696-29-7	183.76	1	427.91	1	627.00	2	28.50	2	464.0	2	0.2721	2	0.254	2	0.330
17918	C9H18	1-methyl-1-ethylcyclohexane	4926-90-3	221.97	2	425.31	1	633.38	2	29.80	2	470.5	2	0.2683	2	0.266	2	0.292
17919	C9H18	1-methyl-cis-2-ethylcyclohexane	4923-77-7	193.83	2	429.25	1	632.03	2	27.41	2	471.5	2	0.2677	2	0.246	2	0.305
17920	C9H18	1-methyl-trans-2-ethylcyclohexane	4923-78-8	193.83	2	424.85	1	625.55	2	27.41	2	471.5	2	0.2677	2	0.249	2	0.305
17921	C9H18	1-methyl-cis-3-ethylcyclohexane	19489-10-2	193.83	2	421.15	1	620.10	2	27.41	2	471.5	2	0.2677	2	0.251	2	0.305
17922	C9H18	1-methyl-trans-3-ethylcyclohexane	4926-76-5	193.83	2	424.15	1	624.52	2	27.41	2	471.5	2	0.2677	2	0.249	2	0.305
17923	C9H18	1-methyl-cis-4-ethylcyclohexane	4926-78-7	193.83	2	424.15	1	624.52	2	27.41	2	471.5	2	0.2677	2	0.249	2	0.305
17924	C9H18	1-methyl-trans-4-ethylcyclohexane	6236-88-0	192.35	1	421.15	1	620.10	2	27.41	2	471.5	2	0.2677	2	0.251	2	0.305
17925	C9H18	1,1,2-trimethylcyclohexane	7094-26-0	244.15	1	418.35	1	624.87	2	28.75	2	469.5	2	0.2689	2	0.260	2	0.267
17926	C9H18	1,1,3-trimethylcyclohexane	3073-66-3	207.40	1	409.78	1	612.06	2	28.75	2	469.5	2	0.2689	2	0.265	2	0.267
17927	C9H18	1,1,4-trimethylcyclohexane	7094-27-1	217.73	2	408.15	1	609.63	2	28.75	2	469.5	2	0.2689	2	0.266	2	0.267
17928	C9H18	1,2,3-trimethylcyclohexane	1678-97-3	197.59	2	415.15	1	621.31	2	27.40	2	470.6	2	0.2682	2	0.250	2	0.290

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
17929	C9H18	1,cis-2,cis-3-trimethylcyclohexane	1839-88-9	188.15	1	426.15	1	629.26	2	26.49	2	470.5	2	0.2683	2	0.238	2	0.280
17930	C9H18	1,cis-2,trans-3-trimethylcyclohexane	7667-55-2	187.45	1	424.15	1	626.30	2	26.49	2	470.5	2	0.2683	2	0.239	2	0.280
17931	C9H18	1,trans-2,cis-3-trimethylcyclohexane	1678-81-5	206.25	1	417.15	1	615.97	2	26.49	2	470.5	2	0.2683	2	0.243	2	0.280
17932	C9H18	1,2,4-trimethylcyclohexane, isomers	2234-75-5	186.85	1	415.05	1	621.31	2	27.40	2	470.6	2	0.2682	2	0.250	2	0.290
17933	C9H18	1,cis-2,cis-4-trimethylcyclohexane	1678-80-4	195.65	1	421.15	1	621.87	2	26.49	2	470.5	2	0.2683	2	0.241	2	0.280
17934	C9H18	1,cis-2,trans-4-trimethylcyclohexane	7667-58-5	181.35	1	421.15	1	621.87	2	26.49	2	470.5	2	0.2683	2	0.241	2	0.280
17935	C9H18	1,trans-2,cis-4-trimethylcyclohexane	7667-59-6	187.15	1	418.15	1	617.44	2	26.49	2	470.5	2	0.2683	2	0.243	2	0.280
17936	C9H18	1,trans-2,trans-4-trimethylcyclohexane	7667-60-9	187.15	1	414.37	1	611.86	2	26.49	2	470.5	2	0.2683	2	0.245	2	0.280
17937	C9H18	1,3,5,-trimethylcyclohexane	1839-63-0	197.59	2	411.00	1	621.31	2	27.40	2	470.6	2	0.2682	2	0.250	2	0.290
17938	C9H18	cis,cis-1,3,5-trimethylcyclohexane	1795-27-3	223.46	1	411.66	1	607.86	2	26.49	2	470.5	2	0.2683	2	0.247	2	0.274
17939	C9H18	cis,trans-1,3,5-trimethylcyclohexane	1795-26-2	188.76	1	413.70	1	602.20	1	28.40	2	472.0	2	0.2675	2	0.268	1,2	0.367
17940	C9H18	1-ethyl-2-methylcyclohexane	3728-54-9	197.59	2	425.50	1	621.31	2	27.40	2	470.6	2	0.2682	2	0.250	2	0.290
17941	C9H18	cyclononane	293-55-0	284.15	1	451.55	1	682.00	1	33.44	1	457.0	1	0.2762	1	0.270	1	0.281
17942	C9H18	1-nonene	124-11-8	191.91	1	420.02	1	594.00	1	23.30	1	526.0	1	0.2400	1	0.248	1	0.410
17943	C9H18	trans-2-nonene	6434-78-2	183.97	2	417.65	1	593.62	2	23.72	2	524.8	2	0.2406	2	0.252	2	0.411
17944	C9H18	trans-3-nonene	20063-92-7	183.97	2	420.65	1	593.62	2	23.72	2	524.8	2	0.2406	2	0.252	2	0.411
17945	C9H18	4-nonene; (cis+trans)	2198-23-4	183.97	2	419.05	1	593.62	2	23.72	2	524.8	2	0.2406	2	0.252	2	0.411
17946	C9H18	2-methyl-1-octene	4588-18-5	195.47	1	417.80	1	593.00	2	23.80	2	508.0	2	0.2485	2	0.245	2	0.406
17947	C9H18	3-methyl-2-octene	113426-22-5	183.97	2	418.15	1	593.62	2	23.72	2	524.8	2	0.2406	2	0.252	2	0.411
17948	C9H18	7-methyl-3-octene	86668-33-9	183.97	2	415.15	1	593.62	2	23.72	2	524.8	2	0.2406	2	0.252	2	0.411
17948.1	C9H18	7-methyl-1-octene	13151-06-9	194.00	2	408.15	1	579.00	2	23.80	2	508.0	2	0.2485	2	0.251	2	0.405
17949	C9H18	2-methyl-4-octene	64501-77-5	183.97	2	412.15	1	593.62	2	23.72	2	524.8	2	0.2406	2	0.252	2	0.411
17950	C9H18	2,3-dimethyl-2-heptene	3074-64-4	164.65	1	418.35	1	593.62	2	23.72	2	524.8	2	0.2406	2	0.252	2	0.411
17951	C9H18	2,6-dimethylhept-3-ene	2738-18-3	183.97	2	394.80	1	593.62	2	23.72	2	524.8	2	0.2406	2	0.252	2	0.411
17955	C9H18Br2	1,1-dibromononane	62168-27-8	295.29	2	533.15	1	729.44	2	26.68	2	657.5	2	0.4351	2	0.289	2	0.659
17956	C9H18Br2	1,2-dibromononane	73642-91-8	272.97	2	545.65	2	729.44	2	26.68	2	657.5	2	0.4351	2	0.289	2	0.659
17957	C9H18Br2	1,9-dibromononane	4549-33-1	250.65	1	558.15	1	729.44	2	26.68	2	657.5	2	0.4351	2	0.289	2	0.659
17959	C9H18Cl2	1,1-dichlorononane	821-88-5	235.53	2	501.15	1	688.79	2	21.67	2	631.5	2	0.3122	2	0.239	2	0.528
17960	C9H18Cl2	2,6-dichloro-2,6-dimethylheptane	35951-36-1	316.15	1	517.15	2	688.79	2	21.67	2	631.5	2	0.3122	2	0.239	2	0.528
17961	C9H18Cl2	1,9-dichlorononane	821-99-8	275.84	2	533.15	1	688.79	2	21.67	2	631.5	2	0.3122	2	0.239	2	0.528
17964	C9H18F2	1,1-difluorononane	62127-42-8	239.99	2	436.15	1	602.20	2	20.80	2	563.0	2	0.2917	2	0.234	2	0.483
17967	C9H18I2	1,1-diiodononane	66703-05-7	291.81	2	591.16	2	817.53	2	22.29	2	709.5	2	0.5357	2	0.233	2	0.508
17997	C9H18O	1-nonanal	124-19-6	255.15	1	468.15	1	658.00	2	27.30	2	527.0	2	0.2699	2	0.263	2	0.512
17998	C9H18O	diisobutyl ketone	108-83-8	227.17	1	441.41	1	615.00	2	24.80	2	522.0	2	0.2725	2	0.253	2	0.512
17999	C9H18O	2-nonanone	821-55-6	265.65	1	467.15	1	652.50	1	24.10	2	560.0	1	0.2540	1	0.249	1,2	0.498
18000	C9H18O	di-tert-butyl ketone	815-24-7	247.95	1	425.15	1	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18001	C9H18O	3,5-dimethyl-4-heptanone	19549-84-9	255.05	2	435.15	1	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18002	C9H18O	3-methyl-2-octanone	6137-08-2	255.05	2	456.62	2	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18003	C9H18O	3-methyl-4-octanone	20754-04-5	255.05	2	447.15	1	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18004	C9H18O	4-methyl-3-octanone	6137-15-1	255.05	2	456.62	2	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18005	C9H18O	5-methyl-2-octanone	58654-67-4	255.05	2	456.62	2	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18006	C9H18O	7-methyl-3-octanone	5408-57-1	255.05	2	455.65	1	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18007	C9H18O	7-methyl-4-octanone	20809-46-5	255.05	2	451.15	1	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18008	C9H18O	3-nonanone	925-78-0	265.15	1	463.15	1	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18009	C9H18O	4-nonanone	4485-09-0	255.05	2	460.65	1	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18010	C9H18O	5-nonanone	502-56-7	267.25	1	461.60	1	640.00	1	23.20	1	560.0	1	0.2540	1	0.244	1	0.514
18011	C9H18O	1-ethyl-2-methylcyclohexanol	102370-18-3	310.05	2	455.15	1	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18012	C9H18O	1-ethyl-3-methylcyclohexanol	62067-44-1	310.05	2	456.62	2	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18013	C9H18O	1-isopropylcyclohexanol	3552-01-0	299.15	1	449.15	1	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18014	C9H18O	cis-2-isopropylcyclohexanol	10488-25-2	325.65	1	456.62	2	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18015	C9H18O	cis-4-isopropylcyclohexanol	22900-08-9	311.15	1	456.62	2	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18016	C9H18O	trans-4-isopropylcyclohexanol	15890-36-5	283.15	1	456.62	2	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18017	C9H18O	1-propylcyclohexanol	5445-24-9	310.05	2	456.62	2	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18018	C9H18O	cis-2-propylcyclohexanol	5857-86-3	310.05	2	474.15	1	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18019	C9H18O	trans-2-propylcyclohexanol	5846-43-5	310.05	2	456.62	2	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18020	C9H18O	cis-4-propylcyclohexanol	98790-22-8	310.05	2	456.62	2	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18021	C9H18O	trans-4-propylcyclohexanol	77866-58-1	310.05	2	481.15	1	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18022	C9H18O	1,2,2-trimethylcyclohexanol	31720-69-1	310.05	2	456.62	2	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18023	C9H18O	1,2,6-trimethylcyclohexanol	96244-13-2	310.05	2	456.62	2	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18024	C9H18O	1,3,5-trimethylcyclohexanol	90760-75-1	310.05	2	454.15	1	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18025	C9H18O	2,2,5-trimethylcyclohexanol	73210-25-0	310.05	2	461.15	1	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18026	C9H18O	2,2,6-trimethylcyclohexanol	10130-91-3	324.15	1	460.15	1	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18027	C9H18O	2,3,3-trimethylcyclohexanol	116724-17-5	301.15	1	470.15	1	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18028	C9H18O	2,3,6-trimethylcyclohexanol	58210-03-0	310.05	2	468.15	1	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18029	C9H18O	cis-3,3,5-trimethylcyclohexanol	933-48-2	310.45	1	475.15	1	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18030	C9H18O	trans-3,3,5-trimethylcyclohexanol	767-54-4	328.95	1	462.35	1	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18031	C9H18O	3-methyl-4-octen-3-ol	90676-55-4	262.15	2	444.15	1	629.00	2	27.00	2	447.3	2	0.3180	2	0.231	2	---
18032	C9H18O	4-methyl-1-octen-4-ol	62108-06-9	---	---	451.15	1	629.00	2	27.00	2	447.3	2	0.3180	2	0.231	2	---
18033	C9H18O	5-methyl-5-octen-4-ol	36903-92-1	---	---	456.62	2	629.00	2	27.00	2	447.3	2	0.3180	2	0.231	2	---
18034	C9H18O	7-methyl-2-octen-4-ol	4798-64-5	---	---	456.62	2	629.00	2	27.00	2	447.3	2	0.3180	2	0.231	2	---
18035	C9H18O	cis-2-methyl-3-octen-2-ol	18521-07-8	---	---	450.15	1	629.00	2	27.00	2	447.3	2	0.3180	2	0.231	2	---
18036	C9H18O	1-nonen-3-ol	21964-44-3	---	---	466.65	1	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18037	C9H18O	8-nonen-1-ol	13038-21-6	---	---	456.62	2	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18042	C9H18O	cis-3-nonen-1-ol	10340-23-5	---	---	456.62	2	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18043	C9H18O	3,5,5-trimethylcyclohexanol	116-02-9	306.65	1	468.65	1	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18044	C9H18O	3,5,5-trimethylhexanal	5435-64-3	255.15	2	456.62	2	640.00	2	23.30	2	527.0	2	0.2699	2	0.231	2	0.592
18045	C9H18O	2,6-dimethyl-3-heptanone	19549-83-8	255.05	2	445.00	1	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18046	C9H18O	4-(1-methylethyl)cyclohexanol	4621-04-9	310.05	2	396.15	1	655.00	2	33.90	2	478.8	2	0.2971	2	0.298	2	---
18047	C9H18O	2-methyl-3-octanone	923-28-4	255.05	2	456.00	1	629.65	2	24.67	2	533.8	2	0.2666	2	0.251	2	0.541
18048	C9H18O	2-methyloctanal	7786-29-0	255.15	2	456.62	2	640.00	2	23.30	2	527.0	2	0.2699	2	0.231	2	0.592

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
18049	C9H18O	3-methyl-1-octen-ol	24089-00-7	---	---	456.62	2	629.00	2	27.00	2	447.3	2	0.3180	2	0.231	2	---
18052	C9H18O2	nonanoic acid	112-05-0	285.55	1	528.75	1	710.70	1	25.14	1	560.0	2	0.2826	2	0.238	1,2	0.772
18053	C9H18O2	2-ethylheptanoic acid	3274-29-1	285.55	2	456.91	2	703.00	2	24.50	2	547.0	2	0.2893	2	0.229	2	0.831
18054	C9H18O2	3-ethyl-3-methylhexanoic acid	50902-82-4	285.55	2	456.91	2	703.00	2	24.50	2	547.0	2	0.2893	2	0.229	2	0.831
18055	C9H18O2	2-ethyl-3-methylhexanoic acid	74581-94-5	285.55	2	504.15	1	703.00	2	24.50	2	547.0	2	0.2893	2	0.229	2	0.831
18056	C9H18O2	3-methyloctanoic acid	6061-10-5	285.55	2	456.91	2	703.00	2	24.50	2	547.0	2	0.2893	2	0.229	2	0.831
18057	C9H18O2	2-methyloctanoic acid	3004-93-1	240.00	2	518.15	1	694.00	2	25.40	2	572.0	2	0.2766	2	0.252	2	0.791
18058	C9H18O2	octyl formate	112-32-3	234.05	1	471.95	1	645.00	2	23.30	2	547.0	2	0.2893	2	0.238	2	0.587
18059	C9H18O2	heptyl acetate	112-06-1	222.95	1	465.55	1	637.00	2	23.30	2	547.0	2	0.2893	2	0.241	2	0.595
18060	C9H18O2	4-heptyl acetate	5921-84-6	222.95	2	444.15	1	643.90	2	21.90	2	577.0	2	0.2742	2	0.236	2	0.499
18061	C9H18O2	hexyl propanoate	2445-76-3	215.65	1	463.15	1	640.00	2	21.20	2	577.0	2	0.2742	2	0.230	2	0.488
18062	C9H18O2	pentyl butanoate	540-18-1	200.15	1	458.15	1	636.70	2	20.80	2	577.0	2	0.2742	2	0.227	2	0.449
18063	C9H18O2	1-methylbutyl butanoate	60415-61-4	218.02	2	455.15	1	610.00	2	23.30	2	500.0	2	0.3165	2	0.230	2	0.845
18064	C9H18O2	2-methylbutyl butanoate	51115-64-1	218.02	2	452.15	2	620.00	1	23.30	2	500.0	2	0.3165	2	0.226	1,2	0.728
18065	C9H18O2	3-methylbutyl butanoate	106-27-4	218.02	2	452.15	1	619.00	2	23.30	2	500.0	2	0.3165	2	0.226	2	0.694
18066	C9H18O2	1-ethylpropyl butanoate	---	218.02	2	463.10	2	610.00	2	23.90	2	500.0	2	0.3165	2	0.236	2	0.860
18067	C9H18O2	1,1-dimethylpropyl butanoate	2050-00-2	235.44	2	460.31	2	603.00	2	23.80	2	500.0	2	0.3165	2	0.237	2	0.901
18068	C9H18O2	1,2-dimethylpropyl butanoate	88736-68-9	203.02	2	462.66	2	608.00	2	23.50	2	500.0	2	0.3165	2	0.232	2	0.868
18069	C9H18O2	2,2-dimethylpropyl butanoate	23361-69-5	235.44	2	460.31	2	607.00	2	22.70	2	500.0	2	0.3165	2	0.225	2	0.822
18070	C9H18O2	isopentyl 2-methylpropanoate	2050-01-3	215.65	2	441.65	1	640.00	2	21.20	2	577.0	2	0.2742	2	0.230	2	0.488
18071	C9H18O2	butyl valerate	591-68-4	180.35	1	459.65	1	629.00	2	23.30	2	547.0	2	0.2893	2	0.244	2	0.596
18072	C9H18O2	butyl 2-methylbutanoate	15706-73-7	218.27	2	452.15	1	614.21	2	23.08	2	509.6	2	0.3112	2	0.230	2	0.771
18073	C9H18O2	butyl 3-methylbutanoate	109-19-3	218.27	2	456.91	2	614.21	2	23.08	2	509.6	2	0.3112	2	0.230	2	0.771
18074	C9H18O2	sec-butyl pentanoate	116836-32-9	206.25	2	447.65	1	629.00	2	23.30	2	547.0	2	0.2893	2	0.244	2	0.596
18075	C9H18O2	isobutyl 3-methylbutanoate	589-59-3	218.27	2	441.65	1	614.21	2	23.08	2	509.6	2	0.3112	2	0.230	2	0.771
18076	C9H18O2	propyl hexanoate	626-77-7	204.45	1	460.15	1	629.00	2	23.30	2	547.0	2	0.2893	2	0.244	2	0.596
18077	C9H18O2	isobutyl pentanoate	10588-10-0	206.25	2	452.15	1	629.00	2	23.30	2	547.0	2	0.2893	2	0.244	2	0.596
18078	C9H18O2	ethyl heptanoate	106-30-9	207.05	1	460.15	1	629.00	2	23.30	2	547.0	2	0.2893	2	0.244	2	0.596
18079	C9H18O2	ethyl 3-methylhexanoate	41692-47-1	206.25	2	450.15	1	629.00	2	23.30	2	547.0	2	0.2893	2	0.244	2	0.596
18080	C9H18O2	ethyl 4-methylhexanoate	1561-10-0	206.25	2	453.15	1	629.00	2	23.30	2	547.0	2	0.2893	2	0.244	2	0.596
18081	C9H18O2	methyl octanoate	111-11-5	233.15	1	466.05	1	629.00	2	23.30	2	547.0	2	0.2893	2	0.244	2	0.596
18082	C9H18O2	3,5,5-trimethylhexanoic acid	3302-10-1	285.55	2	456.91	2	703.00	2	24.50	2	547.0	2	0.2893	2	0.229	2	0.831
18083	C9H18O2	7-methyloctanoic acid	693-19-6	285.55	2	456.91	2	703.00	2	24.50	2	547.0	2	0.2893	2	0.229	2	0.831
18087	C9H18O2	4-octanecarboxylic acid	3274-28-0	285.55	2	358.15	1	703.00	2	24.50	2	547.0	2	0.2893	2	0.229	2	0.831
18099.1	C9H18O3	triacetone alcohol	3682-91-5	330.40	1	486.00	2	618.00	2	27.50	2	563.0	2	0.3095	2	0.301	2	1.350
18101	C9H18O4	di(propylene glycol) methyl ether acetate, isomers	88917-22-0	245.00	2	482.45	1	647.00	2	22.70	2	609.0	2	0.3124	2	0.257	2	0.702
18111	C9H18S	thiacyclodecane	6048-83-5	271.68	2	512.15	1	771.03	2	32.65	2	487.5	2	0.3247	2	0.248	2	0.284
18115	C9H19Br	1-bromononane	693-58-3	244.15	1	494.55	1	682.65	2	24.68	2	601.5	2	0.3444	2	0.262	2	0.568
18117	C9H19Cl	1-chlorononane	2473-01-0	233.75	1	478.37	1	661.88	2	22.27	2	588.5	2	0.2765	2	0.238	2	0.505
18118	C9H19Cl	3-chloro-3-ethyl-2,2-dimethylpentane	86661-53-2	233.75	2	470.76	2	661.88	2	22.27	2	588.5	2	0.2765	2	0.238	2	0.505
18119	C9H19Cl	3-chloro-3-ethylheptane	28320-89-0	233.75	2	470.76	2	661.88	2	22.27	2	588.5	2	0.2765	2	0.238	2	0.505
18120	C9H19Cl	3-chloro-3-methyloctane	28320-88-9	233.75	2	470.76	2	661.88	2	22.27	2	588.5	2	0.2765	2	0.238	2	0.505
18121	C9H19Cl	4-chloro-4-methyloctane	36903-89-6	233.75	2	470.76	2	661.88	2	22.27	2	588.5	2	0.2765	2	0.238	2	0.505
18122	C9H19Cl	2-chlorononane	2216-36-6	233.75	2	463.15	1	661.88	2	22.27	2	588.5	2	0.2765	2	0.238	2	0.505
18123	C9H19Cl	5-chlorononane	28123-70-8	233.75	2	470.76	2	661.88	2	22.27	2	588.5	2	0.2765	2	0.238	2	0.505
18124	C9H19Cl	3-chloro-2,2,3-trimethylhexane	102449-95-6	233.75	2	470.76	2	661.88	2	22.27	2	588.5	2	0.2765	2	0.238	2	0.505
18127	C9H19F	1-fluorononane	463-18-3	233.15	1	438.15	1	602.90	2	21.50	2	553.0	2	0.2645	2	0.237	2	0.518
18129	C9H19I	1-iodononane	4282-42-2	253.15	1	518.15	1	683.84	2	26.08	2	558.5	2	0.4551	2	0.256	2	0.896
18139	C9H19N	cyclohexylisopropylamine	1195-42-2	193.25	2	440.94	2	662.00	2	28.00	2	510.3	2	0.2768	2	0.260	2	---
18143	C9H19N	3,3,5-trimethylcyclohexylamine	15901-42-5	193.25	1	453.15	1	662.00	2	28.00	2	510.3	2	0.2768	2	0.260	2	---
18155	C9H19NO2	1-nitrononane	2216-21-9	334.30	2	522.15	1	703.70	2	23.34	2	621.5	2	0.2788	2	0.248	2	0.685
18176	C9H20	nonane	111-84-2	219.63	1	423.97	1	594.60	1	22.90	1	544.0	2	0.2358	2	0.252	1,2	0.444
18177	C9H20	2-methyloctane	3221-61-2	192.78	1	416.43	1	582.80	1	23.10	1	541.0	2	0.2371	2	0.258	1,2	0.458
18178	C9H20	3-methyloctane	2216-33-3	165.55	1	417.38	1	590.15	2	23.40	2	529.0	2	0.2425	2	0.252	2	0.412
18179	C9H20	4-methyloctane	2216-34-4	159.95	1	415.59	1	587.65	2	23.40	2	523.0	2	0.2452	2	0.250	2	0.413
18180	C9H20	3-ethylheptane	15869-80-4	158.25	1	416.35	1	590.00	2	23.90	2	528.0	2	0.2429	2	0.257	2	0.408
18181	C9H20	4-ethylheptane	2216-32-2	159.96	1	414.36	1	584.95	2	23.25	2	533.5	2	0.2404	2	0.255	2	0.416
18182	C9H20	2,2-dimethylheptane	1071-26-7	160.15	1	405.84	1	576.70	1	23.50	1	519.0	2	0.2471	2	0.254	1,2	0.391
18183	C9H20	2,3-dimethylheptane	3074-71-3	160.16	1	413.66	1	589.60	2	24.01	2	515.0	1	0.2490	1	0.252	1,2	0.385
18184	C9H20	2,4-dimethylheptane	2213-23-2	160.16	1	406.05	1	576.80	2	23.41	2	517.0	1	0.2481	1	0.252	1,2	0.390
18185	C9H20	2,5-dimethylheptane	2216-30-0	160.16	1	409.16	1	581.10	2	23.51	2	522.0	1	0.2457	1	0.254	1,2	0.393
18186	C9H20	2,6-dimethylheptane	1072-05-5	170.25	1	408.36	1	579.00	2	23.00	2	520.0	2	0.2466	2	0.248	2	0.393
18187	C9H20	3,4-dimethylheptane	922-28-1	170.26	1	413.76	1	591.90	2	24.62	2	503.0	1	0.2550	1	0.252	1,2	0.379
18188	C9H20	3,5-dimethylheptane	926-82-9	170.26	1	409.16	1	583.20	2	24.01	2	510.0	1	0.2515	1	0.253	1,2	0.385
18189	C9H20	4,4-dimethylheptane	1068-19-5	170.26	1	408.36	1	585.40	2	24.32	2	501.0	1	0.2560	1	0.250	1,2	0.364
18190	C9H20	3-ethyl-2-methylhexane	16789-46-1	160.16	1	411.16	1	588.10	2	24.52	2	497.0	1	0.2581	1	0.249	1,2	0.378
18191	C9H20	4-ethyl-2-methylhexane	3074-75-7	160.16	1	406.96	1	580.00	2	24.01	2	504.0	1	0.2545	1	0.251	1,2	0.386
18192	C9H20	3-ethyl-3-methylhexane	3074-76-8	160.16	1	413.76	1	597.50	2	25.53	2	487.0	1	0.2634	1	0.250	1,2	0.352
18193	C9H20	3-ethyl-4-methylhexane	3074-77-9	160.16	1	413.56	1	593.70	2	25.13	2	490.0	1	0.2617	1	0.249	1,2	0.372
18194	C9H20	2,2,3-trimethylhexane	16747-25-4	153.16	1	406.75	1	588.00	2	24.90	2	498.9	1	0.2571	1	0.254	1,2	0.332
18195	C9H20	2,2,4-trimethylhexane	16747-26-5	153.00	1	399.69	1	573.50	2	23.80	2	506.6	1	0.2532	1	0.253	1,2	0.321
18196	C9H20	2,2,5-trimethylhexane	3522-94-9	167.39	1	397.24	1	569.80	1	23.30	2	519.0	2	0.2471	2	0.255	1,2	0.345
18197	C9H20	2,3,3-trimethylhexane	16747-28-7	156.36	1	410.84	1	596.00	2	25.53	2	491.0	1	0.2612	1	0.253	1,2	0.333
18198	C9H20	2,3,4-trimethylhexane	921-47-1	156.36	1	412.20	1	594.50	2	25.23	2	494.0	1	0.2596	1	0.252	1,2	0.353
18199	C9H20	2,3,5-trimethylhexane	1069-53-0	145.36	1	404.50	1	579.20	2	24.01	2	509.0	1	0.2520	1	0.254	1,2	0.364
18200	C9H20	2,4,4-trimethylhexane	16747-30-1	159.78	1	403.81	1	581.00	2	24.60	2	511.0	2	0.2510	2	0.260	2	0.352
18201	C9H20	3,3,4-trimethylhexane	16747-31-2	171.96	1	413.62	1	602.30	2	26.24	2	484.0	1	0.2650	1	0.254	1,2	0.328
18202	C9H20	3,3-diethylpentane	1067-20-5	240.12	1	419.34	1	610.05	1	26.75	1	473.0	1	0.2712	1	0.249	1	0.338
18203	C9H20	2,2-dimethyl-3-ethylpentane	16747-32-3	173.68	1	406.99	1	590.00	2	25.70	2	511.0	2	0.2510	2	0.268	2	0.335
18204	C9H20	2,3-dimethyl-3-ethylpentane	16747-33-4	173.67	1	417.86	1	606.80	2	26.85	2	477.0	1	0.2689	1	0.254	1,2	0.349

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
18205	C9H20	2,4-dimethyl-3-ethylpentane	1068-87-7	150.79	1	409.87	1	591.00	2	25.30	2	512.0	2	0.2505	2	0.264	2	0.353
18206	C9H20	2,2,3,3-tetramethylpentane	7154-79-2	263.26	1	413.44	1	607.50	1	27.41	1	478.0	1	0.2683	1	0.259	1	0.305
18207	C9H20	2,2,3,4-tetramethylpentane	1186-53-4	152.06	1	406.18	1	592.60	1	26.00	1	490.0	1	0.2618	1	0.259	1	0.314
18208	C9H20	2,2,4,4-tetramethylpentane	1070-87-7	206.95	1	395.44	1	574.60	1	24.90	1	504.0	1	0.2545	1	0.263	1	0.314
18209	C9H20	2,3,3,4-tetramethylpentane	16747-38-9	171.03	1	414.70	1	607.50	1	27.20	1	493.0	1	0.2602	1	0.265	1	0.314
18210	C9H20	3,3-dimethylheptane	4032-86-4	170.97	2	410.45	1	588.85	2	24.57	2	507.4	2	0.2531	2	0.255	2	0.365
18236	C9H20O	1-nonanol	143-08-8	268.15	1	486.25	1	670.70	1	25.28	1	572.0	1	0.2522	1	0.259	1	0.600
18237	C9H20O	2-nonanol	628-99-9	238.15	1	471.65	1	649.60	1	25.30	1	575.0	1	0.2509	1	0.269	1	0.595
18238	C9H20O	2-nonanol, (±)	74683-66-2	238.15	1	466.65	1	614.43	2	25.85	2	543.1	2	0.2657	2	0.275	2	0.768
18239	C9H20O	3-nonanol	624-51-1	295.15	1	467.85	1	620.40	2	25.46	2	552.5	2	0.2611	2	0.273	2	0.846
18240	C9H20O	3-nonanol, (±)	74742-08-8	295.15	1	468.15	1	614.43	2	25.85	2	543.1	2	0.2657	2	0.275	2	0.768
18241	C9H20O	4-nonanol	5932-79-6	236.51	2	466.15	1	618.15	2	25.46	2	552.5	2	0.2611	2	0.274	2	0.846
18242	C9H20O	4-nonanol, (S)	52708-03-9	240.06	2	465.65	1	614.43	2	25.85	2	543.1	2	0.2657	2	0.275	2	0.768
18243	C9H20O	5-nonanol	623-93-8	278.75	1	468.25	1	620.93	2	25.46	2	552.5	2	0.2611	2	0.272	2	0.846
18244	C9H20O	2-methyl-1-octanol	818-81-5	236.51	2	473.00	2	627.23	2	25.46	2	552.5	2	0.2611	2	0.270	2	0.846
18245	C9H20O	3-methyl-1-octanol	38514-02-2	236.51	2	473.00	2	627.23	2	25.46	2	552.5	2	0.2611	2	0.270	2	0.846
18246	C9H20O	4-methyl-1-octanol	38514-03-3	236.51	2	473.00	2	627.23	2	25.46	2	552.5	2	0.2611	2	0.270	2	0.846
18247	C9H20O	5-methyl-1-octanol	38514-04-4	236.51	2	473.00	2	627.23	2	25.46	2	552.5	2	0.2611	2	0.270	2	0.846
18248	C9H20O	6-methyl-1-octanol	38514-05-5	236.51	2	479.15	1	635.39	2	25.46	2	552.5	2	0.2611	2	0.266	2	0.846
18249	C9H20O	7-methyl-1-octanol	2430-22-0	337.65	1	479.15	1	635.39	2	25.46	2	552.5	2	0.2611	2	0.266	2	0.846
18250	C9H20O	2-methyl-2-octanol	628-44-4	253.93	2	451.15	1	604.24	2	25.74	2	547.5	2	0.2635	2	0.281	2	0.780
18251	C9H20O	3-methyl-2-octanol	27644-49-1	221.51	2	454.00	2	605.01	2	25.66	2	546.5	2	0.2640	2	0.279	2	0.814
18252	C9H20O	5-methyl-2-octanol	66793-81-5	221.51	2	454.00	2	605.01	2	25.66	2	546.5	2	0.2640	2	0.279	2	0.814
18253	C9H20O	7-methyl-2-octanol	66793-83-7	221.51	2	454.00	2	605.01	2	25.66	2	546.5	2	0.2640	2	0.279	2	0.814
18254	C9H20O	2-methyl-3-octanol	26533-34-6	221.51	2	457.15	1	609.21	2	25.66	2	546.5	2	0.2640	2	0.277	2	0.814
18255	C9H20O	3-methyl-3-octanol	5340-36-3	253.93	2	462.15	1	618.98	2	25.74	2	547.5	2	0.2635	2	0.274	2	0.780
18256	C9H20O	4-methyl-3-octanol	66793-80-4	221.51	2	459.00	2	611.68	2	25.66	2	546.5	2	0.2640	2	0.276	2	0.814
18257	C9H20O	6-methyl-3-octanol	40225-75-0	221.51	2	459.00	2	611.68	2	25.66	2	546.5	2	0.2640	2	0.276	2	0.814
18258	C9H20O	7-methyl-3-octanol	66793-84-8	221.51	2	459.00	2	611.68	2	25.66	2	546.5	2	0.2640	2	0.276	2	0.814
18259	C9H20O	2-methyl-4-octanol	40575-41-5	221.51	2	457.15	1	609.21	2	25.66	2	546.5	2	0.2640	2	0.277	2	0.814
18260	C9H20O	3-methyl-4-octanol	26533-35-7	221.51	2	453.15	1	603.88	2	25.66	2	546.5	2	0.2640	2	0.279	2	0.814
18261	C9H20O	4-methyl-4-octanol	23418-37-3	253.93	2	454.15	1	608.26	2	25.74	2	547.5	2	0.2635	2	0.279	2	0.780
18262	C9H20O	5-methyl-4-octanol	59734-23-5	221.51	2	455.00	2	606.35	2	25.66	2	546.5	2	0.2640	2	0.278	2	0.814
18263	C9H20O	6-methyl-4-octanol	66793-82-6	221.51	2	455.00	2	606.35	2	25.66	2	546.5	2	0.2640	2	0.278	2	0.814
18264	C9H20O	7-methyl-4-octanol	33933-77-6	221.51	2	455.00	2	606.35	2	25.66	2	546.5	2	0.2640	2	0.278	2	0.814
18265	C9H20O	2-ethyl-1-heptanol	817-60-7	236.51	2	472.00	2	625.91	2	25.46	2	552.5	2	0.2611	2	0.270	2	0.846
18266	C9H20O	3-ethyl-1-heptanol	3525-25-5	236.51	2	480.15	1	636.71	2	25.46	2	552.5	2	0.2611	2	0.266	2	0.846
18267	C9H20O	5-ethyl-1-heptanol	998-65-2	236.51	2	472.00	2	625.91	2	25.46	2	552.5	2	0.2611	2	0.270	2	0.846
18268	C9H20O	2,2-dimethyl-1-heptanol	14250-79-4	253.93	2	465.15	1	623.00	2	25.74	2	547.5	2	0.2635	2	0.272	2	0.780
18269	C9H20O	4,6-dimethyl-1-heptanol	820-05-3	221.51	2	455.00	2	606.35	2	25.66	2	546.5	2	0.2640	2	0.278	2	0.814
18270	C9H20O	6,6-dimethyl-1-heptanol	65769-10-0	253.93	2	455.00	2	609.40	2	25.74	2	547.5	2	0.2635	2	0.278	2	0.780
18271	C9H20O	2-ethyl-2-heptanol	5340-36-3	253.93	2	455.00	2	609.40	2	25.74	2	547.5	2	0.2635	2	0.278	2	0.780
18272	C9H20O	3-ethyl-2-heptanol	19780-39-3	221.51	2	455.00	2	606.35	2	25.66	2	546.5	2	0.2640	2	0.278	2	0.814
18273	C9H20O	2,3-dimethyl-2-heptanol	66794-00-1	238.93	2	455.00	2	612.62	2	25.95	2	541.5	2	0.2664	2	0.276	2	0.748
18274	C9H20O	2,4-dimethyl-2-heptanol	65822-93-7	238.93	2	455.00	2	612.62	2	25.95	2	541.5	2	0.2664	2	0.276	2	0.748
18275	C9H20O	2,5-dimethyl-2-heptanol	---	238.93	2	455.00	2	612.62	2	25.95	2	541.5	2	0.2664	2	0.276	2	0.748
18276	C9H20O	2,6-dimethyl-2-heptanol	13254-34-7	238.93	2	444.15	1	598.01	2	25.95	2	541.5	2	0.2664	2	0.283	2	0.748
18277	C9H20O	4,6-dimethyl-2-heptanol	51079-52-8	206.51	2	467.15	1	625.72	2	25.87	2	540.5	2	0.2669	2	0.269	2	0.782
18278	C9H20O	5,6-dimethyl-2-heptanol	58795-24-7	206.51	2	465.15	1	623.04	2	25.87	2	540.5	2	0.2669	2	0.270	2	0.782
18279	C9H20O	3-ethyl-3-heptanol	19780-41-7	253.93	2	455.35	1	609.87	2	25.74	2	547.5	2	0.2635	2	0.278	2	0.780
18280	C9H20O	2,2-dimethyl-3-heptanol	19549-70-3	238.93	2	451.00	2	607.23	2	25.95	2	541.5	2	0.2664	2	0.278	2	0.748
18281	C9H20O	2,3-dimethyl-3-heptanol	19549-71-4	238.93	2	447.15	1	602.05	2	25.95	2	541.5	2	0.2664	2	0.281	2	0.748
18282	C9H20O	2,6-dimethyl-3-heptanol	19549-73-6	206.51	2	448.15	1	600.27	2	25.87	2	540.5	2	0.2669	2	0.280	2	0.782
18283	C9H20O	3,5-dimethyl-3-heptanol	19549-74-7	238.93	2	450.00	2	605.89	2	25.95	2	541.5	2	0.2664	2	0.279	2	0.748
18284	C9H20O	3,6-dimethyl-3-heptanol	1573-28-0	238.93	2	446.15	1	605.89	2	25.95	2	541.5	2	0.2664	2	0.279	2	0.748
18285	C9H20O	4-ethyl-4-heptanol	597-90-0	253.93	2	452.15	1	605.58	2	25.74	2	547.5	2	0.2635	2	0.280	2	0.780
18286	C9H20O	2,2-dimethyl-4-heptanol	66793-99-5	238.93	2	447.15	1	602.05	2	25.95	2	541.5	2	0.2664	2	0.281	2	0.748
18287	C9H20O	2,4-dimethyl-4-heptanol	19549-77-0	238.93	2	444.55	1	598.55	2	25.95	2	541.5	2	0.2664	2	0.282	2	0.748
18288	C9H20O	2,6-dimethyl-4-heptanol	108-82-7	208.00	1	451.00	1	603.00	2	25.50	2	538.0	2	0.2681	2	0.274	2	0.802
18289	C9H20O	3,3-dimethyl-4-heptanol	19549-78-1	238.93	2	449.15	1	604.74	2	25.95	2	541.5	2	0.2664	2	0.279	2	0.748
18290	C9H20O	3,5-dimethyl-4-heptanol	19549-79-2	206.51	2	460.15	1	616.34	2	25.87	2	540.5	2	0.2669	2	0.273	2	0.782
18291	C9H20O	2-propyl-1-hexanol	817-46-9	236.51	2	462.00	2	612.65	2	25.46	2	552.5	2	0.2611	2	0.276	2	0.846
18292	C9H20O	3-propyl-1-hexanol	66793-85-9	236.51	2	462.00	2	612.65	2	25.46	2	552.5	2	0.2611	2	0.276	2	0.846
18293	C9H20O	1-methyl-2-ethyl-1-hexanol	---	221.51	2	462.00	2	615.67	2	25.66	2	546.5	2	0.2640	2	0.274	2	0.814
18294	C9H20O	1-methyl-3-ethyl-1-hexanol	---	221.51	2	465.15	1	619.87	2	25.66	2	546.5	2	0.2640	2	0.272	2	0.814
18295	C9H20O	3-methyl-2-ethyl-1-hexanol	66794-04-5	221.51	2	466.15	1	621.00	2	25.66	2	546.5	2	0.2640	2	0.272	2	0.814
18296	C9H20O	4-methyl-2-ethyl-1-hexanol	66794-06-7	221.51	2	468.15	1	623.87	2	25.66	2	546.5	2	0.2640	2	0.270	2	0.814
18297	C9H20O	5-methyl-2-ethyl-1-hexanol	66794-07-8	221.51	2	466.00	2	621.00	2	25.66	2	546.5	2	0.2640	2	0.272	2	0.814
18298	C9H20O	3,3,5-trimethyl-1-hexanol	1484-87-3	238.93	2	466.00	2	627.43	2	25.95	2	541.5	2	0.2664	2	0.269	2	0.748
18299	C9H20O	3,4,4-trimethyl-1-hexanol	66793-73-5	238.93	2	464.15	1	624.94	2	25.95	2	541.5	2	0.2664	2	0.270	2	0.748
18300	C9H20O	3,5,5-trimethyl-1-hexanol	3452-97-9	238.93	2	466.15	1	627.63	2	25.95	2	541.5	2	0.2664	2	0.269	2	0.748
18301	C9H20O	4,5,5-trimethyl-1-hexanol	66793-75-7	238.93	2	475.15	1	639.75	2	25.95	2	541.5	2	0.2664	2	0.264	2	0.748
18302	C9H20O	2-methyl-3-ethyl-2-hexanol	66794-02-3	238.93	2	451.15	1	607.43	2	25.95	2	541.5	2	0.2664	2	0.278	2	0.748
18303	C9H20O	2,3,4-trimethyl-2-hexanol	21102-13-6	223.93	2	466.00	2	630.85	2	26.16	2	535.5	2	0.2694	2	0.267	2	0.716
18304	C9H20O	2,4,4-trimethyl-2-hexanol	66793-91-7	256.35	2	466.00	2	634.35	2	26.24	2	536.5	2	0.2689	2	0.267	2	0.682
18305	C9H20O	2,4,5-trimethyl-2-hexanol	66793-93-9	223.93	2	466.00	2	630.85	2	26.16	2	535.5	2	0.2694	2	0.267	2	0.716
18306	C9H20O	2,5,5-trimethyl-2-hexanol	66793-71-3	256.35	2	466.00	2	634.35	2	26.24	2	536.5	2	0.2689	2	0.267	2	0.682
18307	C9H20O	2-methyl-3-ethyl-3-hexanol	66794-03-4	238.93	2	457.25	1	615.65	2	25.95	2	541.5	2	0.2664	2	0.275	2	0.748
18308	C9H20O	2-methyl-4-ethyl-3-hexanol	33943-21-4	206.51	2	452.00	2	605.43	2	25.87	2	540.5	2	0.2669	2	0.278	2	0.782
18309	C9H20O	3-methyl-4-ethyl-3-hexanol	66794-05-6	238.93	2	452.00	2	608.58	2	25.95	2	541.5	2	0.2664	2	0.278	2	0.748

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
18310	C9H20O	4-methyl-3-ethyl-3-hexanol	51200-80-7	238.93	2	452.00	2	608.58	2	25.95	2	541.5	2	0.2664	2	0.278	2	0.748
18311	C9H20O	5-methyl-3-ethyl-3-hexanol	597-77-3	238.93	2	445.15	1	599.36	2	25.95	2	541.5	2	0.2664	2	0.282	2	0.748
18312	C9H20O	2,2,3-trimethyl-3-hexanol	5340-41-0	256.35	2	446.25	1	607.47	2	26.24	2	536.5	2	0.2689	2	0.279	2	0.682
18313	C9H20O	2,2,4-trimethyl-3-hexanol	66793-89-3	223.93	2	442.15	1	598.56	2	26.16	2	535.5	2	0.2694	2	0.282	2	0.716
18314	C9H20O	2,2,5-trimethyl-3-hexanol	3970-60-3	290.15	1	433.15	1	586.38	2	26.16	2	535.5	2	0.2694	2	0.287	2	0.716
18315	C9H20O	2,3,4-trimethyl-3-hexanol	66793-90-6	223.93	2	439.00	2	594.30	2	26.16	2	535.5	2	0.2694	2	0.284	2	0.716
18316	C9H20O	2,3,5-trimethyl-3-hexanol	65927-60-8	223.93	2	439.00	2	594.30	2	26.16	2	535.5	2	0.2694	2	0.284	2	0.716
18317	C9H20O	2,4,4-trimethyl-3-hexanol	66793-92-8	223.93	2	444.15	1	601.27	2	26.16	2	535.5	2	0.2694	2	0.280	2	0.716
18318	C9H20O	2,5,5-trimethyl-3-hexanol	66793-72-4	223.93	2	442.00	2	598.36	2	26.16	2	535.5	2	0.2694	2	0.282	2	0.716
18319	C9H20O	3,4,4-trimethyl-3-hexanol	66793-74-6	296.65	1	439.15	1	597.80	2	26.24	2	536.5	2	0.2689	2	0.283	2	0.682
18320	C9H20O	3,5,5-trimethyl-3-hexanol	66810-87-5	256.35	2	439.00	2	597.60	2	26.24	2	536.5	2	0.2689	2	0.283	2	0.682
18321	C9H20O	4-methyl-2-propyl-1-pentanol	54004-41-0	222.88	2	465.15	1	620.94	2	26.19	2	531.5	2	0.2714	2	0.270	2	0.813
18322	C9H20O	4-methyl-2-isopropyl-1-pentanol	55505-24-3	205.14	2	460.15	1	615.26	2	25.35	2	555.5	2	0.2597	2	0.275	2	0.784
18323	C9H20O	2,2-dimethyl-3-ethyl-1-pentanol	66793-95-1	238.93	2	461.00	2	620.70	2	25.95	2	541.5	2	0.2664	2	0.272	2	0.748
18324	C9H20O	2,4-dimethyl-2-ethyl-1-pentanol	66793-98-4	238.93	2	461.15	1	620.90	2	25.95	2	541.5	2	0.2664	2	0.272	2	0.748
18325	C9H20O	3,3-diethyl-2-pentanol	66793-94-0	238.93	2	461.00	2	620.70	2	25.95	2	541.5	2	0.2664	2	0.272	2	0.748
18326	C9H20O	2,3-dimethyl-3-ethyl-2-pentanol	66793-97-3	256.35	2	461.00	2	627.54	2	26.24	2	536.5	2	0.2689	2	0.270	2	0.682
18327	C9H20O	4,4-dimethyl-3-ethyl-2-pentanol	21102-09-0	223.93	2	461.00	2	624.08	2	26.16	2	535.5	2	0.2694	2	0.270	2	0.716
18328	C9H20O	2,3,3,4-tetramethyl-2-pentanol	66793-86-0	241.35	2	453.00	2	620.23	2	26.46	2	530.5	2	0.2719	2	0.272	2	0.651
18329	C9H20O	2,3,4,4-tetramethyl-2-pentanol	66793-87-1	241.35	2	453.00	2	620.23	2	26.46	2	530.5	2	0.2719	2	0.272	2	0.651
18330	C9H20O	3,3,4,4-tetramethyl-2-pentanol	66793-88-2	323.15	1	453.15	1	620.44	2	26.46	2	530.5	2	0.2719	2	0.272	2	0.651
18331	C9H20O	2-methyl-3-isopropyl-3-pentanol	---	222.56	2	451.15	1	609.60	2	25.64	2	550.5	2	0.2620	2	0.278	2	0.718
18332	C9H20O	2,2-dimethyl-3-ethyl-3-pentanol	66793-96-2	254.15	1	447.15	1	608.69	2	26.24	2	536.5	2	0.2689	2	0.278	2	0.682
18333	C9H20O	2,4-dimethyl-3-ethyl-3-pentanol	3970-59-0	257.15	1	451.05	1	610.61	2	26.16	2	535.5	2	0.2694	2	0.276	2	0.716
18334	C9H20O	2,2,3,4-tetramethyl-3-pentanol	62185-29-9	285.95	1	447.35	1	612.50	2	26.46	2	530.5	2	0.2719	2	0.276	2	0.651
18335	C9H20O	2,2,4,4-tetramethyl-3-pentanol	14609-79-1	323.15	1	440.15	1	602.64	2	26.46	2	530.5	2	0.2719	2	0.280	2	0.651
18336	C9H20O	ethyl heptyl ether	1969-43-3	204.85	1	439.15	1	592.67	2	22.98	2	541.2	2	0.2665	2	0.252	2	0.508
18339	C9H20O2	1,2-nonanediol	42789-13-9	297.33	2	539.15	2	684.73	2	27.99	2	571.5	2	0.2804	2	0.281	2	1.293
18340	C9H20O2	1,3-nonanediol	23433-07-0	297.33	2	550.15	2	698.70	2	27.99	2	571.5	2	0.2804	2	0.275	2	1.293
18341	C9H20O2	1,4-nonanediol	2430-73-1	297.33	2	571.15	2	725.37	2	27.99	2	571.5	2	0.2804	2	0.265	2	1.293
18342	C9H20O2	1,9-nonanediol	3937-56-2	318.15	1	558.15	2	706.66	2	27.76	2	577.5	2	0.2775	2	0.273	2	1.321
18343	C9H20O2	2-butyl-2-ethyl-1,3-propanediol	115-84-4	316.95	1	535.15	1	703.86	2	27.94	2	573.0	2	0.2797	2	0.274	2	1.300
18347	C9H20O2	heptyloxyethanol	7409-44-1	216.00	2	520.68	2	654.00	2	26.40	2	540.7	2	0.2964	2	0.263	2	---
18348	C9H20O2	2-(1-ethylamyloxy)ethanol	10138-47-3	216.00	2	520.68	2	654.00	2	26.40	2	540.7	2	0.2964	2	0.263	2	---
18349	C9H20O2	2-ethylbutoxypropanol, mixed isomers	63716-41-6	216.00	2	520.68	2	654.00	2	26.40	2	540.7	2	0.2964	2	0.263	2	---
18355	C9H20O3	di(propylene glycol) propyl ether, isomers	29911-27-1	---	---	485.45	1	629.00	2	24.00	2	578.0	2	0.3049	2	0.265	2	0.963
18360	C9H20O4	tripropylene glycol	24800-44-0	228.15	1	540.35	1	677.00	2	25.40	2	596.0	2	0.3226	2	0.269	2	1.257
18365	C9H20S	nonyl mercaptan	1455-21-6	253.05	1	492.95	1	681.00	2	23.10	2	571.0	2	0.2808	2	0.233	2	0.531
18366	C9H20S	2-nonanethiol	13281-11-3	204.15	1	481.35	1	672.00	2	23.00	2	582.0	2	0.2755	2	0.240	2	0.473
18367	C9H20S	methyl octyl sulfide	3698-95-1	231.16	2	480.00	2	681.56	2	23.45	2	593.5	2	0.2701	2	0.246	2	0.508
18368	C9H20S	ethyl heptyl sulfide	24768-44-3	231.16	2	480.00	2	681.56	2	23.45	2	593.5	2	0.2701	2	0.246	2	0.508
18369	C9H20S	propyl hexyl sulfide	24768-43-2	231.16	2	480.00	2	681.56	2	23.45	2	593.5	2	0.2701	2	0.246	2	0.508
18370	C9H20S	butyl pentyl sulfide	24768-42-1	231.16	2	480.00	2	681.56	2	23.45	2	593.5	2	0.2701	2	0.246	2	0.508
18371	C9H20S	tert-nonyl mercaptan, isomers	25360-10-5	230.00	2	469.15	1	659.00	2	23.40	2	580.0	2	0.2764	2	0.248	2	0.451
18388	C9H21N	nonylamine	112-20-9	273.15	1	475.35	1	648.00	2	23.60	2	577.0	2	0.2483	2	0.253	2	0.617
18389	C9H21N	methyloctylamine	2439-54-5	260.15	1	459.85	1	630.60	2	23.70	2	565.0	2	0.2536	2	0.255	2	0.586
18390	C9H21N	ethylheptylamine	66793-76-8	260.15	2	453.85	1	622.20	2	23.10	2	565.0	2	0.2536	2	0.252	2	0.575
18391	C9H21N	dimethylheptylamine	5277-11-2	195.45	2	445.15	1	630.70	2	23.20	2	565.0	2	0.2536	2	0.250	2	0.404
18392	C9H21N	diethylpentylamine	2162-91-6	195.45	2	429.15	1	595.41	2	23.94	2	577.5	2	0.2481	2	0.279	2	0.525
18393	C9H21N	tripropylamine	102-69-2	179.65	1	429.65	1	577.50	1	22.30	2	576.0	2	0.2487	2	0.268	1,2	0.699
18394	C9H21N	tert-amyl-tert-butylamine	2085-66-7	260.15	2	417.15	1	617.40	2	23.31	2	570.9	2	0.2510	2	0.259	2	0.567
18395	C9H21N	N-methyldibutylamine	3405-45-6	211.25	1	432.75	1	617.40	2	23.31	2	570.9	2	0.2510	2	0.259	2	0.567
18396	C9H21NO	5-diethylamino-2-pentanol	5412-69-1	---	---	476.65	2	760.00	2	29.00	2	557.0	2	0.2860	2	0.256	2	---
18423	C9H22N2	N1,N1-diethyl-1,4-pentanediamine	140-80-7	310.65	2	474.15	1	741.00	2	28.50	2	597.4	2	0.2650	2	0.276	2	---
18424	C9H22N2	N,N,N',N'-tetraethylmethanediamine	102-53-4	310.65	2	438.95	1	741.00	2	28.50	2	597.4	2	0.2650	2	0.276	2	---
18425	C9H22N2	1,9-diaminononane	646-24-2	310.65	1	531.65	1	741.00	2	28.50	2	597.4	2	0.2650	2	0.276	2	---
18426	C9H22N2	N,N'-diisopropyl-1,3-propanediamine	63737-71-3	310.65	2	487.48	2	741.00	2	28.50	2	597.4	2	0.2650	2	0.276	2	---
18427	C9H22N2	2,2,4(2,4,4)-trimethyl-1,6-hexanediamine	25620-58-0	310.65	2	505.15	1	741.00	2	28.50	2	597.4	2	0.2650	2	0.276	2	---
18598	C10H6O8	pyromellitic acid	89-05-4	554.00	1	722.00	1	883.00	2	31.40	2	584.0	2	0.4352	2	0.250	2	1.830
18601	C10H7Br	1-bromonaphthalene	90-11-9	279.35	1	554.25	1	824.00	2	37.00	2	453.0	2	0.4571	2	0.245	2	0.369
18606	C10H7Cl	1-chloronaphthalene	90-13-1	269.15	1	532.45	1	785.00	2	34.00	2	434.0	2	0.3747	2	0.226	2	0.383
18607	C10H7Cl	2-chloronaphthalene	91-58-7	331.15	1	529.15	1	785.00	2	34.00	2	434.0	2	0.3747	2	0.226	2	0.383
18608	C10H7Cl	monochloronaphthalene	25586-43-0	300.15	2	532.15	1	785.00	2	34.00	2	434.0	2	0.3747	2	0.226	2	0.383
18669	C10H8	naphthalene	91-20-3	353.43	1	491.14	1	748.40	1	40.50	1	407.0	1	0.3149	1	0.265	1	0.302
18670	C10H8	azulene	275-51-4	373.00	1	515.16	1	773.48	2	38.97	2	409.5	2	0.3130	2	0.248	2	0.355
18849	C10H9N	2-methylquinoline	91-63-4	272.15	1	520.91	1	769.00	2	33.50	2	490.0	2	0.2922	2	0.257	2	0.359
18850	C10H9N	3-methylquinoline	612-58-8	337.15	1	525.45	1	770.99	2	38.29	2	458.5	2	0.3123	2	0.274	2	0.452
18851	C10H9N	4-methylquinoline	491-35-0	282.15	1	538.81	1	790.59	2	38.29	2	458.5	2	0.3123	2	0.267	2	0.452
18852	C10H9N	5-methylquinoline	7661-55-4	292.15	1	533.15	1	782.28	2	38.29	2	458.5	2	0.3123	2	0.270	2	0.452
18853	C10H9N	6-methylquinoline	91-62-3	305.55	1	538.24	1	789.75	2	38.29	2	458.5	2	0.3123	2	0.267	2	0.452
18854	C10H9N	7-methylquinoline	612-60-2	311.15	1	530.88	1	778.95	2	38.29	2	458.5	2	0.3123	2	0.271	2	0.452
18855	C10H9N	8-methylquinoline	611-32-5	246.50	1	521.07	1	764.56	2	38.29	2	458.5	2	0.3123	2	0.276	2	0.452
18856	C10H9N	1-methylisoquinoline	1721-93-3	283.15	1	521.15	1	778.59	2	37.05	2	463.0	2	0.3094	2	0.265	2	0.428
18857	C10H9N	3-methylisoquinoline	1125-80-0	341.15	1	522.15	1	778.59	2	37.05	2	463.0	2	0.3094	2	0.265	2	0.428
18858	C10H9N	4-methylisoquinoline	1196-39-0	318.90	2	529.15	1	778.59	2	37.05	2	463.0	2	0.3094	2	0.265	2	0.428
18859	C10H9N	6-methylisoquinoline	42398-73-2	358.65	1	538.65	1	778.59	2	37.05	2	463.0	2	0.3094	2	0.265	2	0.428
18860	C10H9N	8-methylisoquinoline	62882-00-2	478.15	1	531.15	1	778.59	2	37.05	2	463.0	2	0.3094	2	0.265	2	0.428
18958	C10H10	m-divinylbenzene	108-57-6	206.25	1	472.65	1	692.00	2	31.20	2	440.0	2	0.2959	2	0.239	2	0.373
18963	C10H10	1-methylindene	767-59-9	353.15	2	471.65	1	703.00	2	34.60	2	436.0	2	0.2986	2	0.258	2	0.335
18964	C10H10	2-methylindene	2177-47-1	353.15	1	479.45	1	711.00	2	34.60	2	436.0	2	0.2986	2	0.255	2	0.351

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_c, K	code	P_c, bar	code	V_c, ml/mol	code	rho_c, g/ml	code	Z_c	code	omega
18965	C10H10	3-methyl-1H-indene	767-60-2	---	---	471.15	1	693.50	2	34.60	2	434.5	2	0.2997	2	0.261	2	0.332
18966	C10H10	4-methyl-1H-indene	7344-34-5	---	---	482.15	1	693.50	2	34.60	2	434.5	2	0.2997	2	0.261	2	0.332
18967	C10H10	6-methyl-1H-indene	20232-11-5	---	---	480.15	1	693.50	2	34.60	2	434.5	2	0.2997	2	0.261	2	0.332
18968	C10H10	7-methyl-1H-indene	7372-92-1	---	---	482.15	1	693.50	2	34.60	2	434.5	2	0.2997	2	0.261	2	0.332
19195	C10H10O4	dimethyl phthalate	131-11-3	274.18	1	556.85	1	766.00	2	27.80	2	530.0	2	0.3664	2	0.231	2	0.657
19196	C10H10O4	dimethyl terephthalate	120-61-6	413.80	1	561.15	1	772.00	2	27.80	2	529.0	2	0.3671	2	0.229	2	0.637
19201	C10H10O4	dimethyl isophthalate	1459-93-4	340.85	1	523.00	1	719.00	2	27.90	2	539.0	2	0.3603	2	0.252	2	0.655
19313	C10H11NO2	acetoacetanilide	102-01-2	358.15	1	648.00	2	879.00	2	30.30	2	564.0	2	0.3142	2	0.234	2	0.795
19358	C10H12	1,3-dicyclopentadiene	77-73-6	305.15	1	443.00	1	660.00	2	30.60	2	445.0	2	0.2971	2	0.248	2	0.288
19359	C10H12	1,2,3,4-tetrahydronaphthalene	119-64-2	237.40	1	480.77	1	720.00	1	36.50	1	408.0	1	0.3240	1	0.249	1	0.335
19360	C10H12	cis-(1-butenyl)benzene	1560-09-4	232.31	2	462.15	1	678.55	2	31.04	2	467.5	2	0.2828	2	0.257	2	0.366
19361	C10H12	trans-(1-butenyl)benzene	1005-64-7	230.15	1	471.83	1	692.76	2	31.04	2	467.5	2	0.2828	2	0.252	2	0.366
19362	C10H12	cis-(1-methyl-1-propenyl)benzene	767-99-7	232.31	2	447.15	1	654.00	2	30.10	2	464.0	2	0.2849	2	0.257	2	0.361
19363	C10H12	trans-(1-methyl-1-propenyl)benzene	768-00-3	249.65	1	467.85	1	685.00	2	30.10	2	470.0	2	0.2813	2	0.248	2	0.356
19364	C10H12	(2-methyl-1-propenyl)benzene	768-49-0	222.05	1	461.06	1	681.41	2	31.21	2	468.5	2	0.2822	2	0.258	2	0.341
19365	C10H12	cis-1-methyl-2-(1-propenyl)benzene	2077-33-0	232.31	2	465.57	2	682.61	2	30.52	2	467.5	2	0.2828	2	0.251	2	0.365
19366	C10H12	cis-1-methyl-3-(1-propenyl)benzene	2077-31-8	232.31	2	465.57	2	682.61	2	30.52	2	467.5	2	0.2828	2	0.251	2	0.365
19367	C10H12	cis-1-methyl-4-(1-propenyl)benzene	2077-29-4	232.31	2	469.15	1	687.86	2	30.52	2	467.5	2	0.2828	2	0.250	2	0.365
19368	C10H12	trans-1-methyl-4-(1-propenyl)benzene	2077-30-7	255.15	1	474.15	1	695.19	2	30.52	2	467.5	2	0.2828	2	0.247	2	0.365
19369	C10H12	1-methyl-2-(1-methylethenyl)benzene	7399-49-7	232.31	2	445.35	1	647.11	2	29.44	2	525.5	2	0.2516	2	0.288	2	0.390
19370	C10H12	1-methyl-3-(1-methylethenyl)benzene	1124-20-5	232.31	2	458.15	1	665.71	2	29.44	2	525.5	2	0.2516	2	0.280	2	0.390
19371	C10H12	1-methyl-4-(1-methylethenyl)benzene	1195-32-0	204.85	1	459.15	1	667.16	2	29.44	2	525.5	2	0.2516	2	0.279	2	0.390
19372	C10H12	o-ethylstyrene	7564-63-8	197.65	1	460.44	1	672.78	2	30.19	2	468.5	2	0.2822	2	0.253	2	0.376
19373	C10H12	m-ethylstyrene	7525-62-4	172.15	1	463.20	1	676.81	2	30.19	2	468.5	2	0.2822	2	0.251	2	0.376
19374	C10H12	p-ethylstyrene	3454-07-7	223.45	1	465.45	1	680.10	2	30.19	2	468.5	2	0.2822	2	0.250	2	0.376
19375	C10H12	1-ethenyl-2,4-dimethylbenzene	2234-20-0	208.85	1	475.26	1	693.48	2	29.70	2	468.5	2	0.2822	2	0.241	2	0.375
19376	C10H12	1-ethenyl-3,5-dimethylbenzene	5379-20-4	212.95	1	465.57	2	679.34	2	29.70	2	468.5	2	0.2822	2	0.246	2	0.375
19377	C10H12	2-ethenyl-1,3-dimethylbenzene	2039-90-9	234.55	1	465.57	2	679.34	2	29.70	2	468.5	2	0.2822	2	0.246	2	0.375
19378	C10H12	2-ethenyl-1,4-dimethylbenzene	2039-89-6	237.75	1	466.18	1	680.23	2	29.70	2	468.5	2	0.2822	2	0.246	2	0.375
19379	C10H12	4-ethenyl-1,2-dimethylbenzene	27831-13-6	232.75	1	465.57	2	679.34	2	29.70	2	468.5	2	0.2822	2	0.246	2	0.375
19380	C10H12	2,3-dimethylstyrene	40243-75-2	232.31	2	465.57	2	679.34	2	29.70	2	468.5	2	0.2822	2	0.246	2	0.375
19381	C10H12	3,4-dimethylstyrene	---	232.31	2	465.57	2	679.34	2	29.70	2	468.5	2	0.2822	2	0.246	2	0.375
19382	C10H12	2,6-dimethylstyrene	2039-90-9	232.31	2	465.57	2	679.34	2	29.70	2	468.5	2	0.2822	2	0.246	2	0.375
19383	C10H12	3,5-dimethylstyrene	80648-26-6	232.31	2	465.57	2	679.34	2	29.70	2	468.5	2	0.2822	2	0.246	2	0.375
19384	C10H12	2-butenylbenzene	1560-06-1	232.01	2	449.15	1	682.45	2	30.88	2	467.3	2	0.2829	2	0.254	2	0.356
19385	C10H12	3-butenylbenzene	768-56-9	203.15	1	450.15	1	682.45	2	30.88	2	467.3	2	0.2829	2	0.254	2	0.356
19386	C10H12	1-methyl-2-allylbenzene	1587-04-8	232.01	2	455.65	1	682.45	2	30.88	2	467.3	2	0.2829	2	0.254	2	0.356
19387	C10H12	(1-methylenepropyl)benzene	2039-93-2	232.31	2	455.15	1	666.00	2	30.10	2	454.0	2	0.2912	2	0.247	2	0.354
19397	C10H12	trans-1-butenylbenzene	824-90-8	230.15	1	463.05	1	682.45	2	30.88	2	467.3	2	0.2829	2	0.254	2	0.356
19398	C10H12	a,2-dimethylstyrene	26444-18-8	221.25	2	450.45	1	675.92	2	29.74	2	479.9	2	0.2761	2	0.254	2	0.378
19484	C10H12O	anethole	104-46-1	294.50	1	508.45	1	723.00	2	29.00	2	482.0	2	0.3075	2	0.233	2	0.485
19553	C10H12O2	propyl benzoate	2315-68-6	221.55	1	504.15	1	710.00	2	28.50	2	502.0	2	0.3271	2	0.242	2	0.521
19675	C10H12O4	diallyl maleate	999-21-3	226.15	1	520.00	1	693.00	2	23.30	2	606.0	2	0.3238	2	0.245	2	0.789
19865	C10H14	butylbenzene	104-51-8	185.30	1	456.46	1	660.50	1	28.90	1	497.0	1	0.2701	1	0.262	1	0.394
19866	C10H14	isobutylbenzene	538-93-2	221.70	1	445.94	1	650.00	1	30.50	1	478.0	1	0.2808	1	0.270	1	0.382
19867	C10H14	sec-butylbenzene	135-98-8	197.72	1	446.48	1	664.54	1	29.50	1	497.0	2	0.2701	2	0.265	1,2	0.279
19868	C10H14	tert-butylbenzene	98-06-6	215.27	1	442.30	1	660.00	2	29.70	2	492.0	2	0.2728	2	0.266	2	0.267
19869	C10H14	cymene	25155-15-1	205.25	1	449.50	1	664.65	2	28.97	2	487.2	2	0.2756	2	0.255	2	0.378
19870	C10H14	m-cymene	535-77-3	209.44	1	448.23	1	649.00	2	28.10	2	494.0	2	0.2717	2	0.257	2	0.378
19871	C10H14	o-cymene	527-84-4	201.64	1	451.33	1	657.00	2	29.00	2	490.0	2	0.2739	2	0.260	2	0.366
19872	C10H14	p-cymene	99-87-6	205.25	1	450.28	1	652.00	1	28.00	1	497.0	1	0.2701	1	0.257	1	0.374
19873	C10H14	1-methyl-2-propylbenzene	1074-17-5	212.95	1	457.95	1	662.00	2	29.40	2	482.0	2	0.2785	2	0.257	2	0.407
19874	C10H14	1-methyl-3-propylbenzene	1074-43-7	190.57	1	454.95	1	654.00	2	28.10	2	482.0	2	0.2785	2	0.249	2	0.413
19875	C10H14	1-methyl-4-propylbenzene	1074-55-1	209.55	1	456.45	1	656.00	2	28.10	2	482.0	2	0.2785	2	0.248	2	0.413
19876	C10H14	(S)-(1-methylpropyl)benzene	5787-28-0	221.30	2	457.10	2	664.65	2	28.97	2	487.2	2	0.2756	2	0.255	2	0.378
19877	C10H14	diethylbenzene	25340-17-4	221.30	2	455.05	1	664.65	2	28.97	2	487.2	2	0.2756	2	0.255	2	0.378
19878	C10H14	o-diethylbenzene	135-01-3	241.93	1	456.61	1	668.00	2	28.80	2	502.0	2	0.2674	2	0.260	2	0.340
19879	C10H14	m-diethylbenzene	141-93-5	189.26	1	454.29	1	663.00	2	28.80	2	488.0	2	0.2750	2	0.255	2	0.354
19880	C10H14	p-diethylbenzene	105-05-5	230.32	1	456.94	1	657.90	1	28.03	1	497.0	2	0.2701	2	0.255	1,2	0.403
19881	C10H14	3-ethyl-o-xylene	933-98-2	223.64	1	467.11	1	680.00	2	28.80	2	507.0	2	0.2647	2	0.258	2	0.362
19882	C10H14	4-ethyl-o-xylene	934-80-5	206.22	1	462.93	1	667.00	2	28.80	2	490.0	2	0.2739	2	0.254	2	0.411
19883	C10H14	2-ethyl-m-xylene	2870-04-4	256.89	1	463.19	1	671.00	2	30.20	2	482.0	2	0.2785	2	0.261	2	0.407
19884	C10H14	4-ethyl-m-xylene	874-41-9	210.27	1	461.59	1	665.00	2	28.80	2	482.0	2	0.2785	2	0.251	2	0.414
19885	C10H14	5-ethyl-m-xylene	934-74-7	188.82	1	456.93	1	655.00	2	27.50	2	482.0	2	0.2785	2	0.243	2	0.417
19886	C10H14	2-ethyl-p-xylene	1758-88-9	219.52	1	459.98	1	663.00	2	28.80	2	482.0	2	0.2785	2	0.252	2	0.411
19887	C10H14	1,2,3,4-tetramethylbenzene	488-23-3	266.90	1	478.19	1	693.00	2	31.10	2	475.0	2	0.2826	2	0.256	2	0.417
19888	C10H14	1,2,3,5-tetramethylbenzene	527-53-7	249.46	1	471.15	1	679.00	2	29.70	2	482.0	2	0.2785	2	0.254	2	0.424
19889	C10H14	1,2,4,5-tetramethylbenzene	95-93-2	352.38	1	469.99	1	676.00	1	29.00	1	482.0	2	0.2785	2	0.249	1,2	0.422
19982	C10H14O	3-butylphenol	4074-43-5	342.75	2	520.15	1	742.23	2	34.36	2	421.5	2	0.3564	2	0.235	2	0.542
19983	C10H14O	4-butylphenol	1638-22-8	295.15	1	521.15	1	743.65	2	34.36	2	421.5	2	0.3564	2	0.234	2	0.542
19984	C10H14O	2-isobutylphenol	4167-75-3	294.15	1	510.00	2	733.00	2	34.68	2	415.5	2	0.3615	2	0.236	2	0.510
19985	C10H14O	3-isobutylphenol	30749-25-8	327.75	2	510.00	2	733.00	2	34.68	2	415.5	2	0.3615	2	0.236	2	0.510
19986	C10H14O	4-isobutylphenol	4167-74-2	324.15	1	510.15	1	733.21	2	34.68	2	415.5	2	0.3615	2	0.236	2	0.510
19987	C10H14O	2-sec-butylphenol	89-72-5	289.15	1	501.15	1	720.28	2	34.68	2	415.5	2	0.3615	2	0.241	2	0.510
19988	C10H14O	3-sec-butylphenol	3522-86-9	327.75	2	510.00	2	733.00	2	34.68	2	415.5	2	0.3615	2	0.236	2	0.510
19989	C10H14O	4-sec-butylphenol	99-71-8	332.15	1	515.25	1	740.54	2	34.68	2	415.5	2	0.3615	2	0.234	2	0.510
19990	C10H14O	2-tert-butylphenol	88-18-6	267.53	1	497.23	1	725.38	2	35.14	2	410.5	2	0.3659	2	0.239	2	0.444
19991	C10H14O	3-tert-butylphenol	585-34-2	314.15	1	513.15	1	748.61	2	35.14	2	410.5	2	0.3659	2	0.232	2	0.444
19992	C10H14O	4-tert-butylphenol	98-54-4	371.95	1	512.88	1	734.00	2	33.40	2	493.0	2	0.3047	2	0.270	2	0.509
19993	C10H14O	2-methyl-3-propylphenol	66142-78-7	326.38	2	515.00	2	733.95	2	33.76	2	421.5	2	0.3564	2	0.233	2	0.541

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
19994	C10H14O	2-methyl-4-propylphenol	18441-56-0	316.15	1	515.15	1	734.16	2	33.76	2	421.5	2	0.3564	2	0.233	2	0.541
19995	C10H14O	2-methyl-5-propylphenol	499-75-2	326.38	2	515.00	2	733.95	2	33.76	2	421.5	2	0.3564	2	0.233	2	0.541
19996	C10H14O	2-methyl-6-propylphenol	---	326.38	2	515.00	2	733.95	2	33.76	2	421.5	2	0.3564	2	0.233	2	0.541
19997	C10H14O	3-methyl-2-propylphenol	3228-01-1	326.38	2	535.00	2	762.45	2	33.76	2	421.5	2	0.3564	2	0.224	2	0.541
19998	C10H14O	3-methyl-4-propylphenol	30388-40-0	289.15	1	535.00	2	762.45	2	33.76	2	421.5	2	0.3564	2	0.224	2	0.541
19999	C10H14O	3-methyl-5-propylphenol	36186-96-6	284.15	1	531.15	1	756.97	2	33.76	2	421.5	2	0.3564	2	0.226	2	0.541
20000	C10H14O	4-methyl-2-propylphenol	4074-46-8	326.38	2	547.87	2	780.80	2	33.76	2	421.5	2	0.3564	2	0.219	2	0.541
20001	C10H14O	4-methyl-3-propylphenol	---	326.38	2	547.87	2	780.80	2	33.76	2	421.5	2	0.3564	2	0.219	2	0.541
20002	C10H14O	5-methyl-2-propylphenol	89-83-8	326.38	2	547.87	2	780.80	2	33.76	2	421.5	2	0.3564	2	0.219	2	0.541
20003	C10H14O	2-methyl-3-isopropylphenol	4371-48-6	311.38	2	547.43	2	785.78	2	34.08	2	415.5	2	0.3615	2	0.217	2	0.509
20004	C10H14O	2-methyl-4-isopropylphenol	1740-97-2	281.75	1	547.00	2	785.78	2	34.08	2	415.5	2	0.3615	2	0.217	2	0.509
20005	C10H14O	2-methyl-5-isopropylphenol	499-75-2	273.65	1	510.15	1	732.26	2	34.08	2	415.5	2	0.3615	2	0.233	2	0.509
20006	C10H14O	2-methyl-6-isopropylphenol	3228-04-4	258.65	1	498.65	1	746.40	2	34.08	2	415.5	2	0.3615	2	0.228	2	0.509
20007	C10H14O	3-methyl-2-isopropylphenol	3228-01-1	342.15	1	501.15	1	719.35	2	34.08	2	415.5	2	0.3615	2	0.237	2	0.509
20008	C10H14O	3-methyl-4-isopropylphenol	3228-02-2	385.15	1	510.00	2	732.05	2	34.08	2	415.5	2	0.3615	2	0.233	2	0.509
20009	C10H14O	3-methyl-5-isopropylphenol	3228-03-3	322.15	1	514.15	1	738.01	2	34.08	2	415.5	2	0.3615	2	0.231	2	0.509
20010	C10H14O	4-methyl-2-isopropylphenol	4427-56-9	308.15	1	501.15	1	719.35	2	34.08	2	415.5	2	0.3615	2	0.237	2	0.509
20011	C10H14O	5-methyl-2-isopropylphenol	89-83-8	322.85	1	505.65	1	725.81	2	34.08	2	415.5	2	0.3615	2	0.235	2	0.509
20012	C10H14O	2,3-diethylphenol	---	326.38	2	505.00	2	719.70	2	33.76	2	421.5	2	0.3564	2	0.238	2	0.541
20013	C10H14O	2,4-diethylphenol	936-89-0	326.38	2	501.15	1	714.21	2	33.76	2	421.5	2	0.3564	2	0.240	2	0.541
20014	C10H14O	2,5-diethylphenol	876-20-0	326.38	2	500.00	2	712.57	2	33.76	2	421.5	2	0.3564	2	0.240	2	0.541
20015	C10H14O	2,6-diethylphenol	1006-59-3	310.65	1	491.15	1	699.96	2	33.76	2	421.5	2	0.3564	2	0.245	2	0.541
20016	C10H14O	3,4-diethylphenol	875-85-4	326.38	2	547.87	2	780.80	2	33.76	2	421.5	2	0.3564	2	0.219	2	0.541
20017	C10H14O	3,5-diethylphenol	1197-34-8	349.15	1	521.15	1	742.72	2	33.76	2	421.5	2	0.3564	2	0.230	2	0.541
20018	C10H14O	2,3-dimethyl-4-ethylphenol	---	310.01	2	510.00	2	725.91	2	33.18	2	421.5	2	0.3564	2	0.232	2	0.540
20019	C10H14O	2,3-dimethyl-5-ethylphenol	---	310.01	2	510.00	2	725.91	2	33.18	2	421.5	2	0.3564	2	0.232	2	0.540
20020	C10H14O	2,3-dimethyl-6-ethylphenol	---	326.15	1	510.00	2	725.91	2	33.18	2	421.5	2	0.3564	2	0.232	2	0.540
20021	C10H14O	2,4-dimethyl-3-ethylphenol	62126-74-3	343.15	1	515.00	2	733.03	2	33.18	2	421.5	2	0.3564	2	0.229	2	0.540
20022	C10H14O	2,4-dimethyl-5-ethylphenol	18441-55-9	312.15	1	515.15	1	733.24	2	33.18	2	421.5	2	0.3564	2	0.229	2	0.540
20023	C10H14O	2,4-dimethyl-6-ethylphenol	2219-79-6	310.01	2	500.15	1	711.89	2	33.18	2	421.5	2	0.3564	2	0.236	2	0.540
20024	C10H14O	2,5-dimethyl-3-ethylphenol	---	310.01	2	500.00	2	711.68	2	33.18	2	421.5	2	0.3564	2	0.236	2	0.540
20025	C10H14O	2,5-dimethyl-4-ethylphenol	32018-76-1	312.15	1	500.00	2	711.68	2	33.18	2	421.5	2	0.3564	2	0.236	2	0.540
20026	C10H14O	2,5-dimethyl-6-ethylphenol	---	310.01	2	500.00	2	711.68	2	33.18	2	421.5	2	0.3564	2	0.236	2	0.540
20027	C10H14O	2,6-dimethyl-3-ethylphenol	---	310.01	2	500.00	2	711.68	2	33.18	2	421.5	2	0.3564	2	0.236	2	0.540
20028	C10H14O	2,6-dimethyl-4-ethylphenol	10570-69-1	309.15	1	501.15	1	713.32	2	33.18	2	421.5	2	0.3564	2	0.236	2	0.540
20029	C10H14O	3,4-dimethyl-2-ethylphenol	---	310.01	2	515.00	2	733.03	2	33.18	2	421.5	2	0.3564	2	0.229	2	0.540
20030	C10H14O	3,4-dimethyl-5-ethylphenol	62126-75-4	351.15	1	515.15	1	733.24	2	33.18	2	421.5	2	0.3564	2	0.229	2	0.540
20031	C10H14O	3,4-dimethyl-6-ethylphenol	2219-78-5	324.15	1	515.00	2	733.03	2	33.18	2	421.5	2	0.3564	2	0.229	2	0.540
20032	C10H14O	3,5-dimethyl-2-ethylphenol	62126-76-5	353.15	1	535.00	2	761.50	2	33.18	2	421.5	2	0.3564	2	0.221	2	0.540
20033	C10H14O	3,5-dimethyl-4-ethylphenol	62126-77-6	363.65	1	532.15	1	757.44	2	33.18	2	421.5	2	0.3564	2	0.222	2	0.540
20034	C10H14O	2,3,4,5-tetramethylphenol	488-70-0	355.15	1	533.15	1	757.92	2	32.62	2	421.5	2	0.3564	2	0.218	2	0.538
20035	C10H14O	2,3,4,6-tetramethylphenol	3238-38-8	353.15	1	523.15	1	743.70	2	32.62	2	421.5	2	0.3564	2	0.222	2	0.538
20036	C10H14O	2,3,5,6-tetramethylphenol	527-35-5	390.15	1	521.15	1	740.86	2	32.62	2	421.5	2	0.3564	2	0.223	2	0.538
20037	C10H14O	2-butylphenol	3180-09-4	253.15	1	508.15	1	713.69	2	34.36	2	421.5	2	0.3564	2	0.244	2	0.542
20042	C10H14O	1-methyl-3-(1-methylethoxy)benzene	19177-04-9	288.00	2	469.65	1	670.00	2	28.40	2	495.0	2	0.3035	2	0.252	2	0.445
20089	C10H14O2	p-tert-butylcatechol	98-29-3	330.15	1	558.00	1	776.00	2	37.70	2	511.0	2	0.3253	2	0.299	2	0.734
20174	C10H14O5	2-(methacryloyloxy)ethyl acetoacetate	21282-97-3	---	---	575.00	2	761.00	2	22.60	2	621.0	2	0.3450	2	0.222	2	0.822
20178	C10H14S	4-tert-butylthiophenol	2396-68-1	262.25	1	511.15	1	755.00	2	32.00	2	524.7	2	0.3169	2	0.267	2	---
20179	C10H14S	2,4,6-trimethylbenzyl mercaptan	21411-42-7	320.15	1	511.15	2	755.00	2	32.00	2	524.7	2	0.3169	2	0.267	2	---
20195	C10H15N	N,N-dietyhlaniline	91-66-7	235.15	1	489.42	1	702.00	2	28.50	2	556.0	2	0.2684	2	0.272	2	0.426
20196	C10H15N	2,6-diethylaniline	579-66-8	276.65	1	508.65	1	678.00	2	31.20	2	533.0	2	0.2800	2	0.295	2	0.912
20197	C10H15N	2-sec-butylaniline	55751-54-7	274.23	2	502.03	2	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20198	C10H15N	2-tert-butylaniline	6310-21-0	274.23	2	507.15	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20199	C10H15N	4-butylaniline	104-13-2	274.23	2	534.15	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20200	C10H15N	4-sec-butylaniline	30273-11-1	274.23	2	511.15	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20201	C10H15N	4-tert-butylaniline	769-92-6	290.15	1	514.15	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20202	C10H15N	N-sec-butylaniline	6068-69-5	274.23	2	498.15	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20203	C10H15N	N-tert-butylaniline	937-33-7	274.23	2	488.15	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20204	C10H15N	N-butylaniline	1126-78-9	258.75	1	516.65	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20205	C10H15N	4-isobutylaniline	30090-17-6	274.23	2	510.15	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20206	C10H15N	N-isobutylaniline	588-47-6	274.23	2	505.15	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20207	C10H15N	4-methyl-N-isopropylaniline	10436-75-6	274.23	2	493.15	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20208	C10H15N	2-methyl-5-isopropylaniline	2051-53-8	257.15	1	514.15	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20209	C10H15N	4-methyl-N-propylaniline	54837-90-0	274.23	2	508.15	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20210	C10H15N	2,3,4,5-tetramethylaniline	2217-45-0	342.15	1	532.65	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20211	C10H15N	2,3,4,6-tetramethylaniline	488-71-1	296.65	1	528.15	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20212	C10H15N	N,N,2,6-tetramethylaniline	769-06-2	237.15	1	469.15	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20220	C10H15N	2-(1-ethylpropyl)pyridine	7399-50-0	---	---	468.55	1	693.00	2	27.00	2	535.0	2	0.2790	2	0.251	2	---
20221	C10H15N	4-(1-ethylpropyl)pyridine	35182-51-5	398.65	1	490.15	1	693.00	2	27.00	2	535.0	2	0.2790	2	0.251	2	---
20230	C10H15N	3,5,N,N-tetramethylaniline	4913-13-7	274.23	2	500.15	1	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20231	C10H15N	aniline, p-isopropyl-N-methyl-,	6950-79-4	274.23	2	502.03	2	690.00	2	29.85	2	525.5	2	0.2850	2	0.273	2	0.690
20315	C10H16	camphene	79-92-5	320.15	1	433.65	1	638.00	2	27.50	2	499.0	2	0.2730	2	0.259	2	0.296
20316	C10H16	D-limonene	5989-27-5	199.00	1	449.65	1	660.00	2	27.50	2	524.0	2	0.2600	2	0.263	2	0.312
20317	C10H16	limonene	138-86-3	178.15	1	451.15	1	660.00	2	27.50	2	524.0	2	0.2600	2	0.263	2	0.313
20318	C10H16	L-limonene	5989-54-8	188.58	2	451.15	1	660.00	2	27.50	2	524.0	2	0.2600	2	0.263	2	0.313
20319	C10H16	alpha-phellandrene	99-83-2	---	---	448.15	1	649.00	2	28.20	2	500.0	2	0.2725	2	0.261	2	0.381
20320	C10H16	beta-phellandrene	555-10-2	---	---	447.15	1	648.00	2	28.20	2	487.0	2	0.2797	2	0.255	2	0.374
20321	C10H16	alpha-pinene	80-56-8	209.15	1	429.29	1	644.00	1	27.60	2	454.0	1	0.3001	1	0.234	1,2	0.221
20322	C10H16	alpha-pinene, (-)	7785-26-4	209.15	1	428.15	1	647.00	2	27.80	2	505.3	2	0.2696	2	0.261	2	0.341
20323	C10H16	beta-pinene	127-91-3	211.61	1	439.19	1	643.00	2	27.60	2	494.0	2	0.2758	2	0.255	2	0.325

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_c, K	code	P_c, bar	code	V_c, ml/mol	code	rho_c, g/ml	code	Z_c	code	omega
20324	C10H16	beta-pinene, (1R)	19902-08-0	223.15	1	437.75	1	647.00	2	27.80	2	505.3	2	0.2696	2	0.261	2	0.341
20325	C10H16	alpha-terpinene	99-86-5	214.12	2	448.15	1	649.00	2	28.00	2	489.0	2	0.2786	2	0.254	2	0.372
20326	C10H16	gamma-terpinene	99-85-4	214.12	2	456.15	1	661.00	2	28.00	2	489.0	2	0.2786	2	0.249	2	0.376
20327	C10H16	terpinolene	586-62-9	---	---	460.00	1	667.00	2	28.20	2	493.0	2	0.2763	2	0.251	2	0.376
20331	C10H16	1-decen-3-yne	33622-26-3	---	---	439.95	2	615.00	2	27.00	2	486.0	2	0.2803	2	0.257	2	---
20332	C10H16	1-decen-4-yne	24948-66-1	---	---	439.95	2	615.00	2	27.00	2	486.0	2	0.2803	2	0.257	2	---
20333	C10H16	2-decen-4-yne	116668-40-7	---	---	439.95	2	615.00	2	27.00	2	486.0	2	0.2803	2	0.257	2	---
20349	C10H16	2-methyl-5-isopropyl-1,3-cyclohexadiene, (±)	13811-01-3	---	---	448.65	1	647.00	2	27.80	2	505.3	2	0.2696	2	0.261	2	0.341
20353	C10H16	tricyclo[3.3.1.13,7]decane	281-23-2	541.15	1	461.00	2	703.00	2	29.20	2	485.0	2	0.2809	2	0.242	2	0.185
20356	C10H16	(+)-camphene	5794-03-6	319.15	1	432.65	1	638.00	2	27.50	2	499.0	2	0.2730	2	0.259	2	0.296
20357	C10H16	(-)-camphene	5794-04-7	310.15	1	439.95	2	638.00	2	27.50	2	499.0	2	0.2730	2	0.259	2	0.296
20365	C10H16	(-)-a-pinene	1330-16-1	218.25	1	429.35	1	647.00	2	27.80	2	505.3	2	0.2696	2	0.261	2	0.341
20366	C10H16	(1S)-(-)-b-pinene	18172-67-3	212.25	1	439.15	1	647.00	2	27.80	2	505.3	2	0.2696	2	0.261	2	0.341
20367	C10H16	(±)-a-pinene	2437-95-8	218.25	1	428.75	1	647.00	2	27.80	2	505.3	2	0.2696	2	0.261	2	0.341
20368	C10H16	(+)-a-pinene	7785-70-8	211.15	1	428.65	1	647.00	2	27.80	2	505.3	2	0.2696	2	0.261	2	0.341
20412	C10H16N2O8	ethylenediaminetetraacetic acid	60-00-4	513.00	dec	661.15	---	809.00	2	22.30	2	798.0	2	0.3662	2	0.265	2	1.692
20423	C10H16O	camphor	76-22-2	453.25	1	480.57	1	709.00	2	29.90	2	505.0	2	0.3015	2	0.256	2	0.319
20521	C10H16O4	dipropyl maleate	2432-63-5	---	---	521.00	2	691.00	2	22.00	2	614.0	2	0.3261	2	0.235	2	0.782
20526	C10H16O4	dimethyl cyclohexane-1,4-dicarboxylate; (cis+trans)	94-60-0	343.15	1	539.15	1	736.00	2	24.90	2	569.0	2	0.3519	2	0.232	2	0.641
20540	C10H16S	3-hexylthiophene	1693-86-3	---	---	502.15	2	705.00	2	26.00	2	569.6	2	0.2955	2	0.253	2	---
20593	C10H18	1-decyne	764-93-2	229.16	1	447.16	1	619.85	2	23.70	2	552.0	2	0.2505	2	0.254	2	0.518
20594	C10H18	2-decyne	2384-70-5	308.06	2	457.75	1	650.86	2	24.56	2	557.5	2	0.2480	2	0.253	2	0.412
20595	C10H18	3-decyne	2384-85-2	308.06	2	452.45	1	643.32	2	24.56	2	557.5	2	0.2480	2	0.256	2	0.412
20596	C10H18	4-decyne	2384-86-3	261.36	2	443.65	2	642.22	2	24.46	2	557.5	2	0.2480	2	0.255	2	0.417
20597	C10H18	5-decyne	1942-46-7	200.15	1	450.15	1	642.22	2	24.46	2	557.5	2	0.2480	2	0.255	2	0.417
20598	C10H18	2,2-dimethyl-3-octyne	19482-57-6	261.36	2	443.65	2	642.22	2	24.46	2	557.5	2	0.2480	2	0.255	2	0.417
20599	C10H18	8-methyl-4-nonyne	70732-43-3	261.36	2	443.65	2	642.22	2	24.46	2	557.5	2	0.2480	2	0.255	2	0.417
20600	C10H18	5-ethyl-5-methyl-3-heptyne	61228-10-2	261.36	2	443.65	2	642.22	2	24.46	2	557.5	2	0.2480	2	0.255	2	0.417
20601	C10H18	cis-decahydronaphthalene	493-01-6	230.20	1	468.97	1	703.60	1	32.00	1	480.0	2	0.2880	2	0.263	1,2	0.279
20602	C10H18	trans-decahydronaphthalene	493-02-7	242.79	1	460.46	1	687.00	1	32.00	2	480.0	2	0.2880	2	0.269	1,2	0.299
20603	C10H18	1-pentylcyclopentene	4291-98-9	190.15	1	452.15	1	647.47	2	25.98	2	522.5	2	0.2646	2	0.252	2	0.403
20604	C10H18	1,5-dimethyl-4-isopropylcyclopentene	6912-05-6	190.15	2	436.15	1	647.47	2	25.98	2	522.5	2	0.2646	2	0.252	2	0.403
20608	C10H18	1,3-decadiene	2051-25-4	203.55	2	442.15	1	646.00	2	30.00	2	457.7	2	0.3021	2	0.256	2	---
20609	C10H18	1,9-decadiene	1647-16-1	203.55	2	440.15	1	646.00	2	30.00	2	457.7	2	0.3021	2	0.256	2	---
20610	C10H18	2,6-dimethyl-2,5-octadiene	116668-48-5	203.55	2	443.65	2	646.00	2	30.00	2	457.7	2	0.3021	2	0.256	2	---
20611	C10H18	2,7-dimethyl-2,6-octadiene	16736-42-8	198.75	1	439.15	1	646.00	2	30.00	2	457.7	2	0.3021	2	0.256	2	---
20612	C10H18	3,6-dimethyl-2,6-octadiene	116668-49-6	203.55	2	427.15	1	646.00	2	30.00	2	457.7	2	0.3021	2	0.256	2	---
20613	C10H18	3,7-dimethyl-2,4-octadiene	56523-26-3	203.55	2	438.65	1	646.00	2	30.00	2	457.7	2	0.3021	2	0.256	2	---
20614	C10H18	4,5-dimethyl-2,6-octadiene	18476-57-8	208.35	1	426.65	1	646.00	2	30.00	2	457.7	2	0.3021	2	0.256	2	---
20615	C10H18	cis-2,6-dimethyl-2,6-octadiene	2492-22-0	203.55	2	441.15	1	646.00	2	30.00	2	457.7	2	0.3021	2	0.256	2	---
20625	C10H18	1-methyl-4-isopropylcyclohexene	5502-88-5	181.60	2	447.65	1	640.00	2	26.00	2	511.0	2	0.2705	2	0.250	2	---
20626	C10H18	1-methyl-4-isopropylcyclohexene, (R)	1195-31-9	181.60	2	446.15	1	640.00	2	26.00	2	511.0	2	0.2705	2	0.250	2	---
20627	C10H18	4-methyl-1-isopropylcyclohexene, (R)	619-52-3	181.60	2	440.65	1	640.00	2	26.00	2	511.0	2	0.2705	2	0.250	2	---
20628	C10H18	trans-3-methyl-6-isopropylcyclohexene, (3R)	5113-93-9	181.60	2	440.15	1	640.00	2	26.00	2	511.0	2	0.2705	2	0.250	2	---
20635	C10H18	1-tert-butyl-1-cyclohexene	3419-66-7	181.60	2	440.65	1	640.00	2	26.00	2	511.0	2	0.2705	2	0.250	2	---
20636	C10H18	decahydronaphthalene; (cis+trans)	91-17-8	242.59	2	446.40	1	694.65	2	30.40	2	480.0	2	0.2880	2	0.253	2	0.274
20637	C10H18	3,7-dimethyl-1,6-octadiene	2436-90-0	203.55	2	429.60	1	646.00	2	30.00	2	454.1	2	0.3044	2	0.254	2	---
20638	C10H18	4-methyl-1-(1-methylethyl)cyclohexene	500-00-5	181.60	2	440.00	1	640.00	2	26.00	2	511.0	2	0.2705	2	0.250	2	---
20678	C10H18O	2-butylcyclohexanone	1126-18-7	300.33	2	481.15	1	710.00	2	27.50	2	519.5	2	0.2969	2	0.242	2	---
20679	C10H18O	4-isobutylcyclohexanone	42061-72-3	300.33	2	491.15	1	710.00	2	27.50	2	519.5	2	0.2969	2	0.242	2	---
20680	C10H18O	cis-5-methyl-2-isopropylcyclohexanone, (2R)	1196-31-2	300.33	2	477.15	1	710.00	2	27.50	2	519.5	2	0.2969	2	0.242	2	---
20681	C10H18O	trans-2-methyl-5-isopropylcyclohexanone, (2S)	13163-73-0	300.33	2	493.15	1	710.00	2	27.50	2	519.5	2	0.2969	2	0.242	2	---
20682	C10H18O	trans-5-methyl-2-isopropylcyclohexanone, (2S)	14073-97-3	267.15	1	480.15	1	710.00	2	27.50	2	519.5	2	0.2969	2	0.242	2	---
20688	C10H18O	2-decenal	3913-71-1	---	---	503.15	1	670.00	2	22.00	2	582.3	2	0.2649	2	0.230	2	---
20689	C10H18O	3-decenal	58474-80-9	---	---	480.98	2	670.00	2	22.00	2	582.3	2	0.2649	2	0.230	2	---
20690	C10H18O	3,7-dimethyl-6-octenal	106-23-0	---	---	480.98	2	670.00	2	22.00	2	582.3	2	0.2649	2	0.230	2	---
20691	C10H18O	3-decen-2-one	10519-33-2	---	---	480.98	2	675.00	2	25.60	2	584.2	2	0.2640	2	0.266	2	---
20692	C10H18O	3-ethyl-4-methyl-3-hepten-2-one	54244-90-5	---	---	463.15	1	675.00	2	25.60	2	584.2	2	0.2640	2	0.266	2	---
20693	C10H18O	3-ethyl-4-methyl-4-hepten-2-one	53252-08-7	---	---	480.98	2	675.00	2	25.60	2	584.2	2	0.2640	2	0.266	2	---
20694	C10H18O	4-ethyl-6-methyl-5-hepten-2-one	104035-66-7	---	---	480.98	2	675.00	2	25.60	2	584.2	2	0.2640	2	0.266	2	---
20695	C10H18O	5-ethyl-4-methyl-4-hepten-3-one	22319-28-4	---	---	480.98	2	675.00	2	25.60	2	584.2	2	0.2640	2	0.266	2	---
20696	C10H18O	5-ethyl-4-methyl-5-hepten-3-one	74764-56-0	347.65	1	480.98	2	675.00	2	25.60	2	584.2	2	0.2640	2	0.266	2	---
20697	C10H18O	6-methyl-5-nonen-4-one	7036-98-8	---	---	468.15	1	675.00	2	25.60	2	584.2	2	0.2640	2	0.266	2	---
20698	C10H18O	6-methyl-6-nonen-4-one	53252-20-3	---	---	480.98	2	675.00	2	25.60	2	584.2	2	0.2640	2	0.266	2	---
20716	C10H18O	2-tert-butylcyclohexanone	1728-46-7	311.70	1	480.98	2	710.00	2	27.50	2	519.5	2	0.2969	2	0.242	2	---
20717	C10H18O	4-tert-butylcyclohexanone	98-53-3	322.15	1	480.98	2	710.00	2	27.50	2	519.5	2	0.2969	2	0.242	2	---
20723	C10H18O	cis-4-decenal	21662-09-9	---	---	480.98	2	670.00	2	22.00	2	582.3	2	0.2649	2	0.230	2	---
20744	C10H18O	a-terpineol	98-55-5	309.65	1	492.95	1	675.00	2	29.50	2	507.0	2	0.3042	2	0.267	2	0.699
20745	C10H18O	2,2,6,6-tetramethylcyclohexanone	1195-93-3	300.33	2	480.98	2	710.00	2	27.50	2	519.5	2	0.2969	2	0.242	2	---
20746	C10H18O	3,3,5,5-tetramethylcyclohexanone	14376-79-5	300.33	2	474.65	1	710.00	2	27.50	2	519.5	2	0.2969	2	0.242	2	---
20760	C10H18O	2-(1-methylpropyl)cyclohexanone	14765-30-1	300.33	2	480.98	2	710.00	2	27.50	2	519.5	2	0.2969	2	0.242	2	---
20769	C10H18O2	2-decenoic acid	3913-85-7	285.15	1	540.00	2	776.00	2	23.00	2	603.6	2	0.2821	2	0.215	2	---
20770	C10H18O2	3-decenoic acid	15469-77-9	291.15	1	540.00	2	776.00	2	23.00	2	603.6	2	0.2821	2	0.215	2	---
20771	C10H18O2	4-decenoic acid	26303-90-2	291.98	2	540.00	2	776.00	2	23.00	2	603.6	2	0.2821	2	0.215	2	---
20772	C10H18O2	9-decenoic acid	14436-32-9	299.65	1	540.00	2	776.00	2	23.00	2	603.6	2	0.2821	2	0.215	2	---
20788	C10H18O2	trans-2-decenoic acid	334-49-6	291.98	2	540.00	2	776.00	2	23.00	2	600.8	2	0.2834	2	0.214	2	---
20795	C10H18O2	vinyl 2-ethylhexanoate	94-04-2	183.25	1	454.25	1	650.00	2	23.50	2	540.2	2	0.3152	2	0.235	2	---
20800	C10H18O2	heptyl acrylate	2499-58-3	183.25	2	486.24	2	650.00	2	23.50	2	540.2	2	0.3152	2	0.235	2	---
20801	C10H18O2	3-hexenyl isobutyrate	57859-47-9	183.25	2	486.24	2	650.00	2	23.50	2	540.2	2	0.3152	2	0.235	2	---
20802	C10H18O2	cis-3-hexenyl isobutyrate	41519-23-7	183.25	2	486.24	2	650.00	2	23.50	2	540.2	2	0.3152	2	0.235	2	---

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
20803	C10H18O2	hexyl-2-butenoate	19089-92-0	183.25	2	486.24	2	650.00	2	23.50	2	540.2	2	0.3152	2	0.235	2	---
20805	C10H18O2	methyl nonylenate	111-79-5	183.25	2	486.24	2	650.00	2	23.50	2	540.2	2	0.3152	2	0.235	2	---
20806	C10H18O2	1-octen-3-ol acetate	2442-10-6	183.25	2	486.24	2	650.00	2	23.50	2	540.2	2	0.3152	2	0.235	2	---
20820	C10H18O4	sebacic acid	111-20-6	407.65	1	642.09	1	815.00	2	23.50	2	658.0	2	0.3074	2	0.228	2	1.205
20856	C10H19Br	cis-1-bromo-1-decene	66291-72-3	256.68	2	498.15	1	683.71	2	23.63	2	637.5	2	0.3438	2	0.265	2	0.579
20857	C10H19Br	trans-1-bromo-1-decene	66291-73-4	256.68	2	498.15	1	683.71	2	23.63	2	637.5	2	0.3438	2	0.265	2	0.579
20858	C10H19Br	1-bromo-2-decene	14304-30-4	256.68	2	498.15	2	683.71	2	23.63	2	637.5	2	0.3438	2	0.265	2	0.579
20859	C10H19Br	2-bromo-1-decene	3017-67-2	256.68	2	498.15	2	683.71	2	23.63	2	637.5	2	0.3438	2	0.265	2	0.579
20867	C10H19Br3	1,1,1-tribromodecane	62127-67-7	383.78	2	585.15	1	786.93	2	26.24	2	770.5	2	0.4919	2	0.309	2	0.762
20868	C10H19Cl	cis-1-chloro-1-decene	66291-47-2	226.80	2	496.15	1	682.53	2	21.37	2	624.5	2	0.2798	2	0.235	2	0.516
20869	C10H19Cl	trans-1-chloro-1-decene	66291-48-3	226.80	2	496.15	1	682.53	2	21.37	2	624.5	2	0.2798	2	0.235	2	0.516
20870	C10H19Cl	(1R)-(-)-menthyl chloride	16052-42-9	255.00	1	496.15	2	682.53	2	21.37	2	624.5	2	0.2798	2	0.235	2	0.516
20876	C10H19Cl3	1,1,1-trichlorodecane	62108-56-9	294.14	2	535.15	1	724.19	2	19.41	2	731.5	2	0.3358	2	0.236	2	0.561
20877	C10H19F	cis-1-fluoro-1-decene	66291-49-4	229.03	2	431.63	2	593.48	2	21.22	2	593.5	2	0.2667	2	0.255	2	0.515
20878	C10H19F	trans-1-fluoro-1-decene	66291-50-7	229.03	2	431.63	2	593.48	2	21.22	2	593.5	2	0.2667	2	0.255	2	0.515
20882	C10H19F3	1,1,1-trifluorodecane	26288-16-4	300.83	2	442.15	1	600.10	2	19.00	2	632.0	2	0.3105	2	0.241	2	0.533
20883	C10H19I	cis-1-iodo-1-decene	66291-51-8	254.94	2	523.15	1	721.89	2	21.67	2	663.5	2	0.4012	2	0.240	2	0.506
20884	C10H19I	trans-1-iodo-1-decene	66291-52-9	254.94	2	523.15	1	721.89	2	21.67	2	663.5	2	0.4012	2	0.240	2	0.506
20885	C10H19I3	1,1,1-triiododecane	---	378.56	2	704.39	2	961.43	2	20.20	2	848.5	2	0.6128	2	0.214	2	0.532
20886	C10H19N	decanenitrile	1975-78-6	258.65	1	516.15	1	692.64	2	20.60	2	621.5	2	0.2466	2	0.222	2	0.645
20922	C10H20	pentylcyclopentane	3741-00-2	190.16	1	453.76	1	647.49	2	25.05	2	536.5	2	0.2615	2	0.250	2	0.398
20923	C10H20	butylcyclohexane	1678-93-9	198.42	1	454.13	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20924	C10H20	tert-butylcyclohexane	3178-22-1	231.95	1	444.65	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20925	C10H20	sec-butylcyclohexane	7058-01-7	191.06	2	452.45	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20926	C10H20	isobutylcyclohexane	1678-98-4	178.15	1	444.45	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20927	C10H20	1-methyl-1-propylcyclohexane	4258-93-9	191.06	2	445.15	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20928	C10H20	1-methyl-2-propylcyclohexane	4291-79-6	191.06	2	449.15	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20929	C10H20	1-methyl-3-propylcyclohexane	4291-80-9	191.06	2	437.65	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20930	C10H20	1-methyl-4-propylcyclohexane	4291-81-0	191.06	2	448.65	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20931	C10H20	1-methyl-2-isopropylcyclohexane	16580-23-7	191.06	2	444.15	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20932	C10H20	1-methyl-3-isopropylcyclohexane	16580-24-8	191.06	2	439.65	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20933	C10H20	1-methyl-4-isopropylcyclohexane	99-82-1	185.55	1	443.85	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20934	C10H20	cis-1-methyl-4-isopropylcyclohexane	6069-98-3	183.25	1	445.15	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20935	C10H20	trans-1-methyl-4-isopropylcyclohexane	1678-82-6	186.85	1	443.75	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20936	C10H20	1,1,3,4-tetramethylcyclohexane	24612-75-7	191.06	2	433.15	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20937	C10H20	trans-1,1,3,5-tetramethylcyclohexane	50876-31-8	191.06	2	429.55	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20938	C10H20	cis-1,1,3,5-tetramethylcyclohexane	50876-32-9	191.06	2	425.65	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20939	C10H20	diethylcyclohexane; (mixed isomers)	1331-43-7	173.25	1	447.15	1	667.00	2	25.70	2	534.0	2	0.2627	2	0.247	2	0.274
20942	C10H20	cyclodecane	293-96-9	284.15	1	475.15	1	709.00	1	30.40	1	506.0	1	0.2772	1	0.261	1	0.292
20943	C10H20	1-decene	872-05-9	206.89	1	443.75	1	617.00	1	22.20	1	584.0	1	0.2402	1	0.253	1	0.475
20944	C10H20	4-decene	19689-18-0	219.00	2	443.75	1	616.98	2	21.85	2	581.3	2	0.2413	2	0.248	2	0.457
20945	C10H20	cis-5-decene	7433-78-5	161.15	1	444.15	1	616.98	2	21.85	2	581.3	2	0.2413	2	0.248	2	0.457
20946	C10H20	trans-5-decene	7433-56-9	200.15	1	444.15	1	616.98	2	21.85	2	581.3	2	0.2413	2	0.248	2	0.457
20947	C10H20	2-methyl-1-nonene	2980-71-4	208.33	1	441.55	1	616.00	2	21.90	2	553.0	2	0.2537	2	0.236	2	0.453
20947.1	C10H20	cis-2-decene	20348-51-0	207.00	2	447.00	2	621.00	2	21.80	2	571.0	2	0.2457	2	0.241	2	0.475
20947.2	C10H20	trans-2-decene	20063-97-2	220.00	2	446.00	2	619.00	2	21.80	2	571.0	2	0.2457	2	0.242	2	0.482
20947.3	C10H20	8-methyl-1-nonene	26741-24-2	199.00	2	443.65	1	619.00	2	21.90	2	563.0	2	0.2491	2	0.240	2	0.452
20947.4	C10H20	1,1-diethylcyclohexane	78-01-3	173.15	1	449.82	1	643.00	2	25.70	2	534.0	2	0.2627	2	0.257	2	0.404
20947.5	C10H20	1,2,3,4-tetramethylcyclohexane	3726-45-2	195.00	2	449.20	1	642.00	2	25.70	2	528.0	2	0.2657	2	0.254	2	0.402
20948	C10H20	2-methyl-3-nonene	53966-53-3	219.00	2	434.15	1	616.98	2	21.85	2	581.3	2	0.2413	2	0.248	2	0.457
20949	C10H20	5-methyl-4-nonene	15918-07-7	219.00	2	439.96	2	616.98	2	21.85	2	581.3	2	0.2413	2	0.248	2	0.457
20950	C10H20	3,7-dimethyl-1-octene	4984-01-4	219.00	2	427.15	1	616.98	2	21.85	2	581.3	2	0.2413	2	0.248	2	0.457
20951	C10H20	2,6-dimethyl-2-octene	4057-42-5	219.00	2	436.15	1	616.98	2	21.85	2	581.3	2	0.2413	2	0.248	2	0.457
20952	C10H20	4-propyl-3-heptene	4485-13-6	219.00	2	433.65	1	616.98	2	21.85	2	581.3	2	0.2413	2	0.248	2	0.457
20953	C10H20	2,4,6-trimethyl-3-heptene, isomer	123434-07-1	219.00	2	439.96	2	616.98	2	21.85	2	581.3	2	0.2413	2	0.248	2	0.457
20954	C10H20	2,2,5,5-tetramethylhex-3-ene	22808-06-6	268.65	1	397.45	1	616.98	2	21.85	2	581.3	2	0.2413	2	0.248	2	0.457
20955	C10H20	cis-1,2-di-tert-butylethene	692-47-7	219.00	2	439.96	2	616.98	2	21.85	2	581.3	2	0.2413	2	0.248	2	0.457
20956	C10H20	(E)-2,2,5,5-tetramethylhex-3-ene	692-48-8	268.25	1	398.35	1	616.98	2	21.85	2	581.3	2	0.2413	2	0.248	2	0.457
20958	C10H20Br2	1,1-dibromodecane	59104-80-2	306.56	2	550.15	1	741.82	2	24.22	2	713.5	2	0.4206	2	0.280	2	0.701
20959	C10H20Br2	1,10-dibromodecane	4101-68-2	301.15	1	550.15	2	741.82	2	24.22	2	713.5	2	0.4206	2	0.280	2	0.701
20960	C10H20Br2	5,6-dibromodecane	77928-86-0	303.86	2	550.15	2	741.82	2	24.22	2	713.5	2	0.4206	2	0.280	2	0.701
20962	C10H20Cl2	1,1-dichlorodecane	3162-62-7	246.80	2	520.15	1	704.32	2	19.86	2	687.5	2	0.3072	2	0.233	2	0.570
20963	C10H20Cl2	1,10-dichlorodecane	2162-98-3	288.75	1	520.15	2	704.32	2	19.86	2	687.5	2	0.3072	2	0.233	2	0.570
20966	C10H20F2	1,1-difluorodecane	62127-43-9	251.26	2	456.15	1	622.00	2	19.20	2	618.0	2	0.2885	2	0.229	2	0.512
20968	C10H20I2	1,1-diiododecane	66291-57-4	303.08	2	614.04	2	836.20	2	20.40	2	765.5	2	0.5148	2	0.225	2	0.550
20969	C10H20I2	1,10-diiododecane	16355-92-3	304.65	1	614.04	2	836.20	2	20.40	2	765.5	2	0.5148	2	0.225	2	0.550
20992	C10H20O	decanal	112-31-2	267.15	1	488.15	1	674.20	1	26.00	1	580.0	2	0.2694	2	0.269	1,2	0.582
20993	C10H20O	2-decanone	693-54-9	276.25	1	483.35	1	656.59	2	22.36	2	601.5	2	0.2598	2	0.246	2	0.612
20994	C10H20O	3-decanone	928-80-3	274.45	1	476.15	1	656.59	2	22.36	2	601.5	2	0.2598	2	0.246	2	0.612
20995	C10H20O	4-decanone	624-16-8	264.15	1	479.65	1	656.59	2	22.36	2	601.5	2	0.2598	2	0.246	2	0.612
20996	C10H20O	2-methyl-5-nonanone	22287-02-1	269.70	2	476.65	1	656.59	2	22.36	2	601.5	2	0.2598	2	0.246	2	0.612
20997	C10H20O	2-tert-butylcyclohexanol	13491-79-7	318.15	1	480.78	2	665.00	2	30.90	2	529.8	2	0.2950	2	0.296	2	---
20998	C10H20O	trans-2-butylcyclohexanol	35242-05-8	339.96	2	480.78	2	665.00	2	30.90	2	529.8	2	0.2950	2	0.296	2	---
20999	C10H20O	citronellol, (±)	26489-01-0	---	---	497.15	1	656.59	2	22.36	2	601.5	2	0.2598	2	0.246	2	0.612
21004	C10H20O	9-decen-1-ol	13019-22-2	---	---	509.15	1	643.00	2	23.00	2	527.6	2	0.2962	2	0.227	2	---
21005	C10H20O	3,7-dimethyl-6-octen-3-ol	18479-51-1	---	---	480.78	2	643.00	2	23.00	2	527.6	2	0.2962	2	0.227	2	---
21006	C10H20O	3,7-dimethyl-7-octen-1-ol, (S)	6812-78-8	---	---	480.78	2	643.00	2	23.00	2	527.6	2	0.2962	2	0.227	2	---
21007	C10H20O	2-ethylhexyl vinyl ether	103-44-6	173.15	1	480.78	2	636.00	2	25.00	2	528.2	2	0.2959	2	0.250	2	---
21008	C10H20O	octyl vinyl ether	929-62-4	173.15	2	459.15	1	636.00	2	25.00	2	528.2	2	0.2959	2	0.250	2	---
21011	C10H20O	1-methyl-4-isopropylcyclohexanol	21129-27-1	339.96	2	481.65	1	665.00	2	30.90	2	529.8	2	0.2950	2	0.296	2	---

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
21012	C10H20O	2-methyl-5-isopropylcyclohexanol, [1R-(1alpha,2alpha,5beta)]	5563-78-0	339.96	2	490.65	1	665.00	2	30.90	2	529.8	2	0.2950	2	0.296	2	---
21013	C10H20O	2-methyl-1-propylcyclohexanol	24580-48-1	339.96	2	480.78	2	665.00	2	30.90	2	529.8	2	0.2950	2	0.296	2	---
21014	C10H20O	3-methyl-1-propylcyclohexanol	24580-52-7	339.96	2	472.15	1	665.00	2	30.90	2	529.8	2	0.2950	2	0.296	2	---
21015	C10H20O	4-tert-butylcyclohexanol; (cis+trans)	98-52-2	338.15	1	480.78	2	665.00	2	30.90	2	529.8	2	0.2950	2	0.296	2	---
21016	C10H20O	(±)-b-citronellol	106-22-9	298.15	1	496.40	1	656.59	2	22.36	2	601.5	2	0.2598	2	0.246	2	0.612
21017	C10H20O	(R)-(+)-b-citronellol	1117-61-9	---	---	480.78	2	656.59	2	22.36	2	601.5	2	0.2598	2	0.246	2	0.612
21018	C10H20O	(-)-b-citronellol	7540-51-4	---	---	498.65	1	656.59	2	22.36	2	601.5	2	0.2598	2	0.246	2	0.612
21019	C10H20O	5-decanone	820-29-1	263.95	1	477.05	1	656.59	2	22.36	2	601.5	2	0.2598	2	0.246	2	0.612
21020	C10H20O	trans-5-decen-1-ol	56578-18-8	---	---	480.78	2	643.00	2	23.00	2	527.6	2	0.2962	2	0.227	2	---
21021	C10H20O	cis-4-decen-1-ol	57074-37-0	---	---	480.78	2	643.00	2	23.00	2	527.6	2	0.2962	2	0.227	2	---
21025	C10H20O	isodecanal	1321-89-7	269.47	2	470.15	1	657.00	2	21.50	2	580.0	2	0.2694	2	0.228	2	0.642
21028	C10H20O	(1R,2S,5R)-(-)-menthol	2216-51-5	315.65	1	489.55	1	658.00	2	27.10	2	533.0	2	0.2932	2	0.264	2	0.780
21031	C10H20O	trans-4-(1,1-dimethylethyl)cyclohexanol	21862-63-5	348.45	1	480.78	2	665.00	2	30.90	2	529.8	2	0.2950	2	0.296	2	---
21032	C10H20O	cis-4-(1,1-dimethylethyl)cyclohexanol	937-05-3	355.10	1	480.78	2	665.00	2	30.90	2	529.8	2	0.2950	2	0.296	2	---
21033	C10H20O	[1R-(1a,2a,5b)]-5-methyl-2-(1-methylethyl)cyclohexanol	20747-49-3	339.96	2	480.78	2	665.00	2	30.90	2	529.8	2	0.2950	2	0.296	2	---
21034	C10H20O	2-methyl-3-nonanone	5445-31-8	269.70	2	473.00	1	656.59	2	22.36	2	601.5	2	0.2598	2	0.246	2	0.612
21035	C10H20O	2,6-dimethyl-1-octen-8-ol	141-25-3	---	---	480.78	2	643.00	2	23.00	2	527.6	2	0.2962	2	0.227	2	---
21036	C10H20O	2-isopropyl-5-methyl-2-hexen-1-ol	40853-53-0	---	---	480.78	2	643.00	2	23.00	2	527.6	2	0.2962	2	0.227	2	---
21038	C10H20O	tetrahydroneral	5988-91-0	---	---	403.15	1	656.59	2	22.36	2	601.5	2	0.2598	2	0.246	2	0.612
21040	C10H20O2	decanoic acid	334-48-5	304.75	1	543.15	1	722.10	1	22.50	1	608.0	2	0.2833	2	0.228	1,2	0.806
21041	C10H20O2	2,2-dimethyloctanoic acid	29662-90-6	314.78	2	473.73	2	713.00	2	22.50	2	600.0	2	0.2871	2	0.228	2	0.877
21042	C10H20O2	3-methylnonanoic acid	35205-79-9	314.78	2	473.73	2	713.00	2	22.50	2	600.0	2	0.2871	2	0.228	2	0.877
21043	C10H20O2	nonyl formate	5451-92-3	240.00	2	487.00	2	656.00	2	21.40	2	639.0	2	0.2696	2	0.251	2	0.650
21044	C10H20O2	2-ethylhexyl acetate	103-09-3	180.15	1	472.92	1	642.40	1	21.70	2	600.0	2	0.2871	2	0.244	1,2	0.599
21045	C10H20O2	octyl acetate	112-14-1	234.65	1	484.45	1	652.00	2	21.50	2	600.0	2	0.2871	2	0.238	2	0.651
21046	C10H20O2	6-methyl-2-heptyl acetate	67952-57-2	207.40	2	460.15	1	650.60	2	20.80	2	617.5	2	0.2792	2	0.237	2	0.574
21047	C10H20O2	6-methyl-3-heptyl acetate	32764-34-4	207.40	2	457.65	1	650.60	2	20.80	2	617.5	2	0.2792	2	0.237	2	0.574
21048	C10H20O2	2-methylheptyl acetate, (±)	74112-36-0	207.40	2	468.15	1	650.60	2	20.80	2	617.5	2	0.2792	2	0.237	2	0.574
21049	C10H20O2	heptyl propanoate	2216-81-1	222.25	1	483.15	1	659.60	2	19.30	2	635.0	2	0.2713	2	0.223	2	0.508
21050	C10H20O2	hexyl butanoate	2639-63-6	195.15	1	479.15	1	657.20	2	19.00	2	635.0	2	0.2713	2	0.221	2	0.474
21051	C10H20O2	1-methylpentyl butanoate, (S)	116723-96-7	195.15	2	473.73	2	657.20	2	19.00	2	635.0	2	0.2713	2	0.221	2	0.474
21052	C10H20O2	isopentyl isovalerate	659-70-1	215.00	1	467.15	1	637.00	2	22.00	2	600.0	2	0.2871	2	0.249	2	0.579
21053	C10H20O2	1,1-dimethylpropyl 3-methylbutanoate	542-37-0	195.15	2	446.65	1	657.20	2	19.00	2	635.0	2	0.2713	2	0.221	2	0.474
21054	C10H20O2	isopentyl pentanoate	2050-09-1	211.58	2	473.73	2	637.00	2	22.00	2	600.0	2	0.2871	2	0.249	2	0.579
21055	C10H20O2	pentyl pentanoate	2173-56-0	194.35	1	476.85	1	637.00	2	22.00	2	600.0	2	0.2871	2	0.249	2	0.579
21056	C10H20O2	butyl hexanoate	626-82-4	208.85	1	481.15	1	637.00	2	22.00	2	600.0	2	0.2871	2	0.249	2	0.579
21057	C10H20O2	isobutyl 4-methylpentanoate	25415-70-7	211.58	2	445.15	1	637.00	2	22.00	2	600.0	2	0.2871	2	0.249	2	0.579
21058	C10H20O2	propyl heptanoate	7778-87-2	209.65	1	481.15	1	637.00	2	22.00	2	600.0	2	0.2871	2	0.249	2	0.579
21059	C10H20O2	ethyl 2-ethylhexanoate	2983-37-1	211.58	2	473.73	2	637.00	2	22.00	2	600.0	2	0.2871	2	0.249	2	0.579
21060	C10H20O2	ethyl octanoate	106-32-1	230.05	1	481.65	1	637.00	2	22.00	2	600.0	2	0.2871	2	0.249	2	0.579
21063	C10H20O2	methyl nonanoate	1731-84-6	211.58	2	486.65	1	637.00	2	22.00	2	600.0	2	0.2871	2	0.249	2	0.579
21066	C10H20O2	8-methylnonanoic acid	5963-14-4	314.78	2	473.73	2	713.00	2	22.50	2	600.0	2	0.2871	2	0.228	2	0.877
21067	C10H20O2	neodecanoic acid	26896-20-8	314.78	2	528.15	1	713.00	2	22.50	2	600.0	2	0.2871	2	0.228	2	0.877
21068	C10H20O2	tert-decanoic acid	52627-73-3	314.78	2	473.73	2	713.00	2	22.50	2	600.0	2	0.2871	2	0.228	2	0.877
21071	C10H20O2	n-hexyl isobutyrate	2349-07-7	211.58	2	473.73	2	637.00	2	22.00	2	600.0	2	0.2871	2	0.249	2	0.579
21073	C10H20O2	isobutyl hexanoate	105-79-3	211.58	2	427.05	1	637.00	2	22.00	2	600.0	2	0.2871	2	0.249	2	0.579
21074	C10H20O2	2-(4-isobutylphenyl)butyric acid	55837-18-8	325.15	1	473.73	2	713.00	2	22.50	2	600.0	2	0.2871	2	0.228	2	0.877
21076	C10H20O2	p-menthane-8-hydroperoxide	80-47-7	---	---	532.00	2	711.00	2	29.50	2	553.0	2	0.3115	2	0.276	2	0.901
21077	C10H20O2	4-nonanecarboxylic acid	31080-39-4	314.78	2	473.73	2	713.00	2	22.50	2	600.0	2	0.2871	2	0.228	2	0.877
21083	C10H20O4	diethylene glycol monobutyl ether acetate	124-17-4	240.95	1	518.45	1	679.00	2	20.60	2	682.0	2	0.2995	2	0.249	2	0.842
21088	C10H20S	thiacycloundecane	408-32-2	279.43	2	527.15	1	784.51	2	30.16	2	535.5	2	0.3218	2	0.248	2	0.299
21090	C10H21Br	1-bromodecane	112-29-8	243.95	1	513.75	1	698.43	2	22.48	2	657.5	2	0.3364	2	0.255	2	0.611
21091	C10H21Br	2-bromodecane	39563-53-6	243.95	2	513.75	2	698.43	2	22.48	2	657.5	2	0.3364	2	0.255	2	0.611
21093	C10H21Cl	1-chlorodecane	1002-69-3	241.85	1	499.02	1	679.88	2	20.38	2	644.5	2	0.2742	2	0.232	2	0.547
21094	C10H21Cl	decyl chloride (mixed isomers)	28519-06-4	241.85	2	499.02	2	679.88	2	20.38	2	644.5	2	0.2742	2	0.232	2	0.547
21097	C10H21F	1-fluorodecane	334-56-5	238.15	1	459.35	1	623.10	2	19.70	2	608.0	2	0.2636	2	0.231	2	0.555
21100	C10H21I	1-iododecane	2050-77-3	256.85	1	536.85	1	700.35	2	23.70	2	614.5	2	0.4364	2	0.250	2	0.932
21117	C10H21NO2	1-nitrodecane	4609-87-4	345.57	2	539.15	1	716.97	2	21.31	2	677.5	2	0.2764	2	0.242	2	0.725
21133	C10H22	decane	124-18-5	243.51	1	447.30	1	617.70	1	21.10	1	600.0	2	0.2371	2	0.247	1,2	0.492
21134	C10H22	2-methylnonane	871-83-0	198.50	1	440.15	1	610.00	2	21.20	2	583.0	2	0.2441	2	0.244	2	0.472
21135	C10H22	3-methylnonane	5911-04-6	188.35	1	440.95	1	613.00	2	21.60	2	583.0	2	0.2441	2	0.247	2	0.465
21136	C10H22	4-methylnonane	17301-94-9	174.45	1	438.85	1	610.00	2	21.60	2	583.0	2	0.2441	2	0.248	2	0.465
21137	C10H22	5-methylnonane	15869-85-9	185.45	1	438.30	1	610.00	2	21.60	2	583.0	2	0.2441	2	0.248	2	0.456
21138	C10H22	3-ethyloctane	5881-17-4	185.46	1	439.66	1	613.60	2	21.89	2	561.0	2	0.2536	2	0.241	2	0.446
21139	C10H22	4-ethyloctane	15869-86-0	185.46	1	436.80	1	609.60	2	21.78	2	552.0	2	0.2578	2	0.237	2	0.443
21140	C10H22	2,2-dimethyloctane	15869-87-1	204.38	2	430.05	1	602.00	2	21.60	2	574.0	2	0.2479	2	0.248	2	0.429
21141	C10H22	2,3-dimethyloctane	7146-60-3	190.00	1	437.47	1	613.00	2	22.10	2	575.0	2	0.2475	2	0.249	2	0.433
21142	C10H22	2,4-dimethyloctane	4032-94-4	190.00	1	429.05	1	600.00	2	21.70	2	575.0	2	0.2475	2	0.250	2	0.435
21143	C10H22	2,5-dimethyloctane	15869-89-3	188.65	1	431.65	1	603.00	2	21.70	2	575.0	2	0.2475	2	0.249	2	0.440
21144	C10H22	2,6-dimethyloctane	2051-30-1	220.00	1	433.53	1	606.00	2	21.70	2	575.0	2	0.2475	2	0.248	2	0.439
21145	C10H22	2,7-dimethyloctane	1072-16-8	219.15	1	433.03	1	604.00	2	21.30	2	575.0	2	0.2475	2	0.244	2	0.442
21146	C10H22	3,3-dimethyloctane	4110-44-5	219.16	1	434.36	1	612.10	2	22.19	2	557.0	2	0.2554	2	0.243	2	0.404
21147	C10H22	3,4-dimethyloctane	15869-92-8	219.16	1	436.56	1	614.00	2	22.39	2	551.0	2	0.2582	2	0.242	2	0.417
21148	C10H22	3,5-dimethyloctane	15869-93-9	219.16	1	432.56	1	606.30	2	21.89	2	555.0	2	0.2564	2	0.241	2	0.424
21149	C10H22	3,6-dimethyloctane	15869-94-0	219.16	1	433.96	1	608.30	2	21.89	2	562.0	2	0.2532	2	0.243	2	0.424
21150	C10H22	4,4-dimethyloctane	15869-95-1	219.16	1	430.66	1	606.90	2	22.09	2	548.0	2	0.2596	2	0.240	2	0.402
21151	C10H22	4,5-dimethyloctane	15869-96-2	219.16	1	435.29	1	612.20	2	22.39	2	546.0	2	0.2606	2	0.240	2	0.418
21152	C10H22	4-propylheptane	3178-29-8	219.16	1	430.66	1	601.00	2	21.78	2	545.0	2	0.2611	2	0.238	2	0.444
21153	C10H22	4-isopropylheptane	52896-87-4	219.16	1	432.06	1	607.60	2	22.29	2	537.0	2	0.2650	2	0.237	2	0.416
21154	C10H22	3-ethyl-2-methylheptane	14676-29-0	219.16	1	434.36	1	610.90	2	22.29	2	544.0	2	0.2616	2	0.239	2	0.415

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
21155	C10H22	4-ethyl-2-methylheptane	52896-88-5	219.16	1	429.36	1	601.80	2	21.89	2	545.0	2	0.2611	2	0.238	2	0.424
21156	C10H22	5-ethyl-2-methylheptane	13475-78-0	219.16	1	432.86	1	606.70	2	21.89	2	555.0	2	0.2564	2	0.241	2	0.424
21157	C10H22	3-ethyl-3-methylheptane	17302-01-1	219.16	1	436.96	1	620.00	2	23.10	2	532.0	2	0.2675	2	0.238	2	0.389
21158	C10H22	4-ethyl-3-methylheptane	52896-89-6	219.16	1	435.36	1	614.30	2	22.80	2	530.0	2	0.2685	2	0.237	2	0.410
21159	C10H22	3-ethyl-5-methylheptane	52896-90-9	219.16	1	431.36	1	606.60	2	22.29	2	541.0	2	0.2630	2	0.239	2	0.416
21160	C10H22	3-ethyl-4-methylheptane	52896-91-0	219.16	1	436.16	1	615.50	2	22.80	2	533.0	2	0.2669	2	0.237	2	0.409
21161	C10H22	4-ethyl-4-methylheptane	17302-04-4	219.16	1	433.96	1	615.70	2	23.10	2	525.0	2	0.2710	2	0.237	2	0.390
21162	C10H22	2,2,3-trimethylheptane	52896-92-1	219.16	1	430.76	1	611.70	2	22.70	2	546.0	2	0.2606	2	0.244	2	0.378
21163	C10H22	2,2,4-trimethylheptane	14720-74-2	219.16	1	421.46	1	594.50	2	21.68	2	552.0	2	0.2578	2	0.242	2	0.389
21164	C10H22	2,2,5-trimethylheptane	20291-95-6	219.16	1	423.96	1	598.00	2	21.68	2	559.0	2	0.2545	2	0.244	2	0.389
21165	C10H22	2,2,6-trimethylheptane	1190-83-6	219.16	1	422.09	1	593.40	2	21.28	2	573.0	2	0.2483	2	0.247	2	0.396
21166	C10H22	2,3,3-trimethylheptane	52896-93-2	219.16	1	433.36	1	617.50	2	23.20	2	538.0	2	0.2645	2	0.243	2	0.371
21167	C10H22	2,3,4-trimethylheptane	52896-95-4	219.16	1	433.06	1	613.70	2	22.90	2	538.0	2	0.2645	2	0.241	2	0.391
21168	C10H22	2,3,5-trimethylheptane	20278-85-7	219.16	1	433.86	1	612.80	2	22.39	2	547.0	2	0.2601	2	0.240	2	0.397
21169	C10H22	2,3,6-trimethylheptane	4032-93-3	219.16	1	429.16	1	604.10	2	21.89	2	560.0	2	0.2541	2	0.244	2	0.403
21170	C10H22	2,4,4-trimethylheptane	4032-92-2	219.16	1	424.16	1	600.30	2	22.19	2	541.0	2	0.2630	2	0.241	2	0.383
21171	C10H22	2,4,5-trimethylheptane	20278-84-6	219.16	1	429.66	1	606.90	2	22.39	2	544.0	2	0.2616	2	0.241	2	0.397
21172	C10H22	2,4,6-trimethylheptane	2613-61-8	219.16	1	420.76	1	590.30	2	21.48	2	560.0	2	0.2541	2	0.245	2	0.411
21173	C10H22	2,5,5-trimethylheptane	1189-99-7	219.16	1	425.96	1	602.90	2	22.19	2	550.0	2	0.2587	2	0.243	2	0.383
21174	C10H22	3,3,4-trimethylheptane	20278-87-9	219.16	1	435.06	1	622.10	2	23.71	2	526.0	2	0.2705	2	0.241	2	0.365
21175	C10H22	3,3,5-trimethylheptane	7154-80-5	165.00	1	428.85	1	609.50	1	23.20	1	577.0	2	0.2466	2	0.264	1,2	0.385
21176	C10H22	3,4,4-trimethylheptane	20278-88-0	219.16	1	434.26	1	620.90	2	23.71	2	524.0	2	0.2715	2	0.241	2	0.365
21177	C10H22	3,4,5-trimethylheptane	20278-89-1	219.16	1	435.66	1	612.80	2	22.39	2	547.0	2	0.2601	2	0.240	2	0.417
21178	C10H22	3-isopropyl-2-methylhexane	62016-13-1	219.16	1	439.86	1	623.40	2	22.90	2	529.0	2	0.2690	2	0.234	2	0.391
21179	C10H22	3,3-diethylhexane	17302-02-2	219.16	1	439.46	1	627.80	2	24.12	2	510.0	2	0.2790	2	0.236	2	0.377
21180	C10H22	3,4-diethylhexane	19398-77-7	219.16	1	437.06	1	618.80	2	23.30	2	519.0	2	0.2742	2	0.235	2	0.403
21181	C10H22	3-ethyl-2,2-dimethylhexane	20291-91-2	219.16	1	429.26	1	611.70	2	23.10	2	526.0	2	0.2705	2	0.239	2	0.369
21182	C10H22	4-ethyl-2,2-dimethylhexane	52896-99-8	219.16	1	420.16	1	594.60	2	22.19	2	539.0	2	0.2640	2	0.242	2	0.384
21183	C10H22	3-ethyl-2,3-dimethylhexane	52897-00-4	219.16	1	436.86	1	626.80	2	24.22	2	516.0	2	0.2757	2	0.240	2	0.359
21184	C10H22	4-ethyl-2,3-dimethylhexane	52897-01-5	219.16	1	434.06	1	617.30	2	23.41	2	524.0	2	0.2715	2	0.239	2	0.384
21185	C10H22	3-ethyl-2,4-dimethylhexane	7220-26-0	219.16	1	433.26	1	616.10	2	23.41	2	522.0	2	0.2726	2	0.239	2	0.385
21186	C10H22	4-ethyl-2,4-dimethylhexane	52897-03-7	219.16	1	434.26	1	620.90	2	24.71	2	524.0	2	0.2715	2	0.251	2	0.383
21187	C10H22	3-ethyl-2,5-dimethylhexane	52897-04-8	219.16	1	427.26	1	603.50	2	22.39	2	537.0	2	0.2650	2	0.240	2	0.397
21188	C10H22	4-ethyl-3,3-dimethylhexane	52897-05-9	219.16	1	436.06	1	625.70	2	24.22	2	513.0	2	0.2774	2	0.239	2	0.358
21189	C10H22	3-ethyl-3,4-dimethylhexane	52897-06-0	219.16	1	435.26	1	624.50	2	24.22	2	511.0	2	0.2784	2	0.238	2	0.359
21190	C10H22	2,2,3,3-tetramethylhexane	13475-81-5	219.16	1	433.48	1	623.00	1	25.10	1	557.0	2	0.2554	2	0.270	1,2	0.366
21191	C10H22	2,2,3,4-tetramethylhexane	52897-08-2	219.16	1	431.96	1	620.40	2	23.71	2	525.0	2	0.2710	2	0.241	2	0.345
21192	C10H22	2,2,3,5-tetramethylhexane	52897-09-3	219.16	1	421.56	1	601.30	2	22.70	2	540.0	2	0.2635	2	0.245	2	0.357
21193	C10H22	2,2,4,4-tetramethylhexane	51750-65-3	219.16	1	426.96	1	610.20	2	22.49	2	535.0	2	0.2660	2	0.237	2	0.344
21194	C10H22	2,2,4,5-tetramethylhexane	16747-42-5	219.16	1	421.04	1	598.50	2	22.19	2	544.0	2	0.2616	2	0.243	2	0.363
21195	C10H22	2,2,5,5-tetramethylhexane	1071-81-4	260.55	1	410.61	1	581.40	1	21.90	1	584.0	2	0.2436	2	0.265	1,2	0.377
21196	C10H22	2,3,3,4-tetramethylhexane	52897-10-6	260.56	1	437.75	1	633.10	2	24.82	2	514.0	2	0.2768	2	0.242	2	0.334
21197	C10H22	2,3,3,5-tetramethylhexane	52897-11-7	260.56	1	426.26	1	610.10	2	23.20	2	531.0	2	0.2680	2	0.243	2	0.351
21198	C10H22	2,3,4,4-tetramethylhexane	52897-12-8	260.56	1	434.76	1	626.60	2	24.22	2	518.0	2	0.2747	2	0.241	2	0.339
21199	C10H22	2,3,4,5-tetramethylhexane	52897-15-1	260.56	1	429.36	1	613.20	2	23.41	2	530.0	2	0.2685	2	0.243	2	0.365
21200	C10H22	3,3,4,4-tetramethylhexane	5171-84-6	260.56	1	443.16	1	646.70	2	25.74	2	506.0	2	0.2812	2	0.242	2	0.311
21201	C10H22	2,4-dimethyl-3-isopropylpentane	13475-79-1	191.46	1	430.20	1	614.40	2	23.41	2	521.0	2	0.2731	2	0.239	2	0.365
21202	C10H22	3,3-diethyl-2-methylpentane	52897-16-2	191.46	1	442.86	1	639.90	2	25.33	2	501.0	2	0.2840	2	0.239	2	0.346
21203	C10H22	3-ethyl-2,2,3-trimethylpentane	52897-17-3	191.46	1	442.66	1	646.00	2	25.74	2	503.0	2	0.2829	2	0.241	2	0.311
21204	C10H22	3-ethyl-2,2,4-trimethylpentane	52897-18-4	191.46	1	428.46	1	615.30	2	23.71	2	518.0	2	0.2747	2	0.240	2	0.346
21205	C10H22	3-ethyl-2,3,4-trimethylpentane	52897-19-5	191.46	1	442.60	1	642.30	2	25.43	2	506.0	2	0.2812	2	0.241	2	0.329
21206	C10H22	2,2,3,3,4-pentamethylpentane	16747-44-7	236.71	1	439.21	1	643.80	2	25.84	2	508.0	2	0.2801	2	0.245	2	0.294
21207	C10H22	2,2,3,4,4-pentamethylpentane	16747-45-8	234.41	1	432.45	1	627.30	2	24.01	2	521.0	2	0.2731	2	0.240	2	0.308
21224	C10H22O	1-decanol	112-30-1	280.05	1	504.07	1	687.30	1	23.15	1	649.0	1	0.2439	1	0.263	1	0.622
21225	C10H22O	isodecanol	25339-17-7	213.15	1	493.00	1	644.00	2	22.80	2	591.0	2	0.2678	2	0.252	2	0.913
21226	C10H22O	2-decanol	1120-06-5	270.75	1	490.15	1	673.20	2	23.60	2	603.0	2	0.2625	2	0.254	2	0.575
21227	C10H22O	2-decanol, (±)	74742-10-2	271.95	1	484.15	1	629.00	2	23.55	2	598.0	2	0.2647	2	0.269	2	0.793
21228	C10H22O	3-decanol	1565-81-7	268.15	1	483.00	2	632.85	2	23.16	2	608.5	2	0.2601	2	0.268	2	0.883
21229	C10H22O	4-decanol	2051-31-2	261.75	1	483.15	1	633.05	2	23.16	2	608.5	2	0.2601	2	0.268	2	0.883
21230	C10H22O	5-decanol	5205-34-5	281.85	1	474.15	1	621.25	2	23.16	2	608.5	2	0.2601	2	0.273	2	0.883
21231	C10H22O	2-methyl-1-nonanol	40589-14-8	247.78	2	495.15	1	648.77	2	23.16	2	608.5	2	0.2601	2	0.261	2	0.883
21232	C10H22O	4-methyl-1-nonanol	1489-47-0	247.78	2	489.15	1	638.09	2	23.16	2	608.5	2	0.2601	2	0.266	2	0.883
21233	C10H22O	5-methyl-1-nonanol	2768-16-3	247.78	2	487.00	2	638.09	2	23.16	2	608.5	2	0.2601	2	0.266	2	0.883
21234	C10H22O	7-methyl-1-nonanol	33234-93-4	247.78	2	487.00	2	638.09	2	23.16	2	608.5	2	0.2601	2	0.266	2	0.883
21235	C10H22O	3-methyl-1-nonanol	22663-64-5	247.78	2	487.00	2	638.09	2	23.16	2	608.5	2	0.2601	2	0.266	2	0.883
21236	C10H22O	2-methyl-2-nonanol	10297-57-1	265.20	2	487.00	2	643.93	2	23.41	2	603.5	2	0.2623	2	0.264	2	0.819
21237	C10H22O	3-methyl-2-nonanol	60671-32-1	232.78	2	487.00	2	640.97	2	23.34	2	602.5	2	0.2627	2	0.264	2	0.852
21238	C10H22O	5-methyl-2-nonanol	66731-95-1	232.78	2	487.00	2	640.97	2	23.34	2	602.5	2	0.2627	2	0.264	2	0.852
21239	C10H22O	6-methyl-2-nonanol	66256-60-8	232.78	2	487.00	2	640.97	2	23.34	2	602.5	2	0.2627	2	0.264	2	0.852
21240	C10H22O	7-methyl-2-nonanol	66256-61-9	232.78	2	487.00	2	640.97	2	23.34	2	602.5	2	0.2627	2	0.264	2	0.852
21241	C10H22O	8-methyl-2-nonanol	14779-92-1	232.78	2	487.00	2	640.97	2	23.34	2	602.5	2	0.2627	2	0.264	2	0.852
21242	C10H22O	2-methyl-3-nonanol	26533-33-5	232.78	2	481.55	1	633.80	2	23.34	2	602.5	2	0.2627	2	0.267	2	0.852
21243	C10H22O	3-methyl-3-nonanol	21078-72-8	265.20	2	482.00	2	637.32	2	23.41	2	603.5	2	0.2623	2	0.267	2	0.819
21244	C10H22O	5-methyl-3-nonanol	66719-43-5	232.78	2	482.00	2	634.39	2	23.34	2	602.5	2	0.2627	2	0.267	2	0.852
21245	C10H22O	2-methyl-4-nonanol	26533-31-3	232.78	2	482.00	2	634.39	2	23.34	2	602.5	2	0.2627	2	0.267	2	0.852
21246	C10H22O	4-methyl-4-nonanol	23418-38-4	265.20	2	482.00	2	637.32	2	23.41	2	603.5	2	0.2623	2	0.267	2	0.819
21247	C10H22O	5-methyl-4-nonanol	66719-44-6	232.78	2	482.00	2	634.39	2	23.34	2	602.5	2	0.2627	2	0.267	2	0.852
21248	C10H22O	7-methyl-4-nonanol	26981-98-6	232.78	2	482.00	2	634.39	2	23.34	2	602.5	2	0.2627	2	0.267	2	0.852
21249	C10H22O	2-methyl-5-nonanol	29843-62-7	232.78	2	482.00	2	634.39	2	23.34	2	602.5	2	0.2627	2	0.267	2	0.852
21250	C10H22O	3-methyl-5-nonanol	66779-42-4	232.78	2	482.00	2	634.39	2	23.34	2	602.5	2	0.2627	2	0.267	2	0.852

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
21251	C10H22O	5-methyl-5-nonanol	33933-78-7	265.20	2	475.15	1	637.32	2	23.41	2	603.5	2	0.2623	2	0.267	2	0.819
21252	C10H22O	2-ethyl-1-octanol	20592-10-3	247.78	2	482.00	2	631.54	2	23.16	2	608.5	2	0.2601	2	0.268	2	0.883
21253	C10H22O	3-ethyl-1-octanol	66719-36-6	247.78	2	482.00	2	631.54	2	23.16	2	608.5	2	0.2601	2	0.268	2	0.883
21254	C10H22O	2,2-dimethyl-1-octanol	2370-14-1	265.20	2	481.15	1	636.20	2	23.41	2	603.5	2	0.2623	2	0.267	2	0.819
21255	C10H22O	2,6-dimethyl-1-octanol	62417-08-7	232.78	2	483.00	2	635.71	2	23.34	2	602.5	2	0.2627	2	0.266	2	0.852
21256	C10H22O	3,7-dimethyl-1-octanol	106-21-8	232.78	2	485.15	1	638.54	2	23.34	2	602.5	2	0.2627	2	0.265	2	0.852
21257	C10H22O	4,5-dimethyl-1-octanol	66719-32-2	232.78	2	485.00	2	638.34	2	23.34	2	602.5	2	0.2627	2	0.265	2	0.852
21258	C10H22O	4,6-dimethyl-1-octanol	66719-33-3	232.78	2	485.00	2	638.34	2	23.34	2	602.5	2	0.2627	2	0.265	2	0.852
21259	C10H22O	4,7-dimethyl-1-octanol	66719-34-4	232.78	2	485.00	2	638.34	2	23.34	2	602.5	2	0.2627	2	0.265	2	0.852
21260	C10H22O	7,7-dimethyl-1-octanol	66719-35-5	265.20	2	485.00	2	641.29	2	23.41	2	603.5	2	0.2623	2	0.265	2	0.819
21261	C10H22O	2,4-dimethyl-2-octanol	18675-20-2	250.20	2	485.00	2	644.39	2	23.59	2	597.5	2	0.2649	2	0.263	2	0.788
21262	C10H22O	2,6-dimethyt-2-octanol	18479-57-7	250.20	2	485.00	2	644.39	2	23.59	2	597.5	2	0.2649	2	0.263	2	0.788
21263	C10H22O	2,7-dimethyl-2-octanol	42007-73-8	250.20	2	485.00	2	644.39	2	23.59	2	597.5	2	0.2649	2	0.263	2	0.788
21264	C10H22O	3,7-dimethyl-2-octanol	15340-96-2	217.78	2	485.00	2	641.33	2	23.52	2	596.5	2	0.2654	2	0.263	2	0.822
21265	C10H22O	3-ethyl-3-octanol	2051-32-3	265.20	2	472.15	1	624.30	2	23.41	2	603.5	2	0.2623	2	0.272	2	0.819
21266	C10H22O	6-ethyl-3-octanol	19781-27-2	232.78	2	472.00	2	621.23	2	23.34	2	602.5	2	0.2627	2	0.272	2	0.852
21267	C10H22O	2,2-dimethyl-3-octanol	19841-72-6	250.20	2	467.00	2	620.48	2	23.59	2	597.5	2	0.2649	2	0.273	2	0.788
21268	C10H22O	2,3-dimethyl-3-octanol	19781-10-3	250.20	2	462.25	1	614.17	2	23.59	2	597.5	2	0.2649	2	0.276	2	0.788
21269	C10H22O	2,7-dimethyl-3-octanol	66719-55-9	217.78	2	467.15	1	617.73	2	23.52	2	596.5	2	0.2654	2	0.273	2	0.822
21270	C10H22O	3,5-dimethyl-3-octanol	56065-42-0	250.20	2	466.00	2	619.15	2	23.59	2	597.5	2	0.2649	2	0.274	2	0.788
21271	C10H22O	3,6-dimethyl-3-octanol	151-19-9	205.65	1	465.15	1	618.02	2	23.59	2	597.5	2	0.2649	2	0.274	2	0.788
21272	C10H22O	3,7-dimethyl-3-octanol	78-69-3	250.20	2	469.15	1	623.33	2	23.59	2	597.5	2	0.2649	2	0.272	2	0.788
21273	C10H22O	3-ethyl-4-octanol	63126-48-7	232.78	2	466.00	2	613.33	2	23.34	2	602.5	2	0.2627	2	0.276	2	0.852
21274	C10H22O	4-ethyl-4-octanol	38395-42-5	265.20	2	466.00	2	616.17	2	23.41	2	603.5	2	0.2623	2	0.276	2	0.819
21275	C10H22O	2,2-dimethyl-4-octanol	66719-52-6	250.20	2	463.15	1	615.36	2	23.59	2	597.5	2	0.2649	2	0.275	2	0.788
21276	C10H22O	2,4-dimethyl-4-octanol	33933-79-8	250.20	2	464.00	2	616.49	2	23.59	2	597.5	2	0.2649	2	0.275	2	0.788
21277	C10H22O	2,5-dimethyl-4-octanol	66719-53-7	217.78	2	464.00	2	613.56	2	23.52	2	596.5	2	0.2654	2	0.275	2	0.822
21278	C10H22O	2,6-dimethyl-4-octanol	66719-54-8	217.78	2	468.15	1	613.56	2	23.52	2	596.5	2	0.2654	2	0.275	2	0.822
21279	C10H22O	2,7-dimethyl-4-octanol	19781-11-4	217.78	2	475.15	1	613.56	2	23.52	2	596.5	2	0.2654	2	0.275	2	0.822
21280	C10H22O	3,4-dimethyl-4-octanol	66719-30-0	250.20	2	464.00	2	616.49	2	23.59	2	597.5	2	0.2649	2	0.275	2	0.788
21281	C10H22O	3,6-dimethyl-4-octanol	66719-31-1	217.78	2	464.00	2	613.56	2	23.52	2	596.5	2	0.2654	2	0.275	2	0.822
21282	C10H22O	4,6-dimethyl-4-octanol	56065-43-1	250.20	2	464.00	2	616.49	2	23.59	2	597.5	2	0.2649	2	0.275	2	0.788
21283	C10H22O	4,7-dimethyl-4-octanol	19781-13-6	250.20	2	465.15	1	618.02	2	23.59	2	597.5	2	0.2649	2	0.274	2	0.788
21284	C10H22O	2-propyl-1-heptanol	10042-59-8	247.78	2	491.05	1	643.40	2	23.16	2	608.5	2	0.2601	2	0.263	2	0.883
21285	C10H22O	3-isopropyl-1-heptanol	38514-15-7	232.78	2	488.35	1	642.75	2	23.34	2	602.5	2	0.2627	2	0.263	2	0.852
21286	C10H22O	2,4,6-trimethyl-2-heptanol	66256-47-1	235.20	2	466.00	2	622.25	2	23.77	2	591.5	2	0.2676	2	0.272	2	0.757
21287	C10H22O	2,5,6-trimethyl-2-heptanol	66256-48-2	235.20	2	466.15	1	622.45	2	23.77	2	591.5	2	0.2676	2	0.272	2	0.757
21288	C10H22O	4,6,6-trimethyl-2-heptanol	51079-79-9	235.20	2	466.00	2	622.25	2	23.77	2	591.5	2	0.2676	2	0.272	2	0.757
21289	C10H22O	2-methyl-3-ethyl-3-heptanol	66719-37-7	250.20	2	466.15	1	619.35	2	23.59	2	597.5	2	0.2649	2	0.274	2	0.788
21290	C10H22O	4-methyl-5-ethyl-3-heptanol	66731-94-0	217.78	2	466.00	2	616.21	2	23.52	2	596.5	2	0.2654	2	0.274	2	0.822
21291	C10H22O	5-methyl-3-ethyl-3-heptanol	---	250.20	2	466.00	2	619.15	2	23.59	2	597.5	2	0.2649	2	0.274	2	0.788
21292	C10H22O	2,2,3-trimethyl-3-heptanol	29772-40-5	267.62	2	459.15	1	616.23	2	23.84	2	592.5	2	0.2671	2	0.276	2	0.724
21293	C10H22O	2,2,6-trimethyl-3-heptanol	66256-43-7	235.20	2	463.00	2	618.25	2	23.77	2	591.5	2	0.2676	2	0.274	2	0.757
21294	C10H22O	2,3,6-trimethyl-3-heptanol	58046-40-5	235.20	2	463.00	2	618.25	2	23.77	2	591.5	2	0.2676	2	0.274	2	0.757
21295	C10H22O	3,5,5-trimethyl-3-heptanol	66256-50-6	267.62	2	468.75	1	629.12	2	23.84	2	592.5	2	0.2671	2	0.270	2	0.724
21296	C10H22O	4-propyl-4-heptanol	2198-72-3	265.20	2	467.15	1	617.69	2	23.41	2	603.5	2	0.2623	2	0.275	2	0.819
21297	C10H22O	4-isopropyl-4-heptanol	51200-82-9	250.20	2	463.15	1	615.36	2	23.59	2	597.5	2	0.2649	2	0.275	2	0.788
21298	C10H22O	2,2,4-trimethyl-4-heptanol	57233-31-5	267.62	2	454.15	1	609.52	2	23.84	2	592.5	2	0.2671	2	0.279	2	0.724
21299	C10H22O	2,2,5-trimethyl-4-heptanol	66256-42-6	235.20	2	455.00	2	607.56	2	23.77	2	591.5	2	0.2676	2	0.278	2	0.757
21300	C10H22O	2,2,6-trimethyl-4-heptanol	66256-44-8	235.20	2	455.00	2	607.56	2	23.77	2	591.5	2	0.2676	2	0.278	2	0.757
21301	C10H22O	2,4,5-trimethyl-4-heptanol	66256-46-0	235.20	2	455.00	2	607.56	2	23.77	2	591.5	2	0.2676	2	0.278	2	0.757
21302	C10H22O	2,4,6-trimethyl-4-heptanol	60836-07-9	235.20	2	455.15	1	607.76	2	23.77	2	591.5	2	0.2676	2	0.278	2	0.757
21303	C10H22O	3,3,6-trimethyl-4-heptanol	---	235.20	2	455.00	2	607.56	2	23.77	2	591.5	2	0.2676	2	0.278	2	0.757
21304	C10H22O	4-methyl-2-propyl-1-hexanol	66256-62-0	232.78	2	481.15	1	633.27	2	23.34	2	602.5	2	0.2627	2	0.267	2	0.852
21305	C10H22O	4-methyl-2-isopropyl-1-hexanol	66719-41-3	216.41	2	474.15	1	625.97	2	23.07	2	611.5	2	0.2588	2	0.271	2	0.822
21306	C10H22O	5-methyl-2-isopropyl-1-hexanol	2051-33-4	217.78	2	486.15	1	642.85	2	23.52	2	596.5	2	0.2654	2	0.262	2	0.822
21307	C10H22O	5,5-dimethyl-2-ethyl-1-hexanol	---	250.20	2	486.00	2	645.72	2	23.59	2	597.5	2	0.2649	2	0.263	2	0.788
21308	C10H22O	2,3,4,4-tetramethyl-2-hexanol	66256-66-4	252.62	2	463.15	1	624.93	2	24.03	2	586.5	2	0.2699	2	0.271	2	0.693
21309	C10H22O	3,3,5,5-tetramethyl-2-hexanol	66256-69-7	252.62	2	463.00	2	624.72	2	24.03	2	586.5	2	0.2699	2	0.271	2	0.693
21310	C10H22O	2-methyl-3-isopropyl-3-hexanol	51200-81-8	233.83	2	465.15	1	620.04	2	23.32	2	606.5	2	0.2610	2	0.274	2	0.759
21311	C10H22O	2,2-dimethyl-4-ethyl-3-hexanol	66719-47-9	235.20	2	460.15	1	614.44	2	23.77	2	591.5	2	0.2676	2	0.275	2	0.757
21312	C10H22O	2,4-dimethyl-4-ethyl-3-hexanol	66719-48-0	235.20	2	460.00	2	614.24	2	23.77	2	591.5	2	0.2676	2	0.275	2	0.757
21313	C10H22O	5,5-dimethyl-3-ethyl-3-hexanol	5340-62-5	267.62	2	460.00	2	617.38	2	23.84	2	592.5	2	0.2671	2	0.275	2	0.724
21314	C10H22O	2,2,3,4-tetramethyl-3-hexanol	66256-63-1	252.62	2	465.15	1	627.63	2	24.03	2	586.5	2	0.2699	2	0.270	2	0.693
21315	C10H22O	2,2,3,5-tetramethyl-3-hexanol	66256-64-2	252.62	2	513.48	2	692.84	2	24.03	2	586.5	2	0.2699	2	0.245	2	0.693
21316	C10H22O	2,2,4,4-tetramethyl-3-hexanol	66256-65-3	277.15	1	463.15	1	624.93	2	24.03	2	586.5	2	0.2699	2	0.271	2	0.693
21317	C10H22O	2,2,5,5-tetramethyl-3-hexanol	55073-86-4	325.15	1	443.15	1	597.94	2	24.03	2	586.5	2	0.2699	2	0.283	2	0.693
21318	C10H22O	2,3,4,4-tetramethyl-3-hexanol	66256-67-5	252.62	2	474.15	1	639.77	2	24.03	2	586.5	2	0.2699	2	0.265	2	0.693
21319	C10H22O	2,3,5,5-tetramethyl-3-hexanol	5396-09-8	252.62	2	475.00	2	640.92	2	24.03	2	586.5	2	0.2699	2	0.264	2	0.693
21320	C10H22O	2,4,4,5-tetramethyl-3-hexanol	66256-68-6	220.20	2	475.00	2	637.55	2	23.96	2	585.5	2	0.2703	2	0.265	2	0.726
21321	C10H22O	3,4,4,5-tetramethyl-3-hexanol	66256-39-1	252.62	2	475.15	1	641.12	2	24.03	2	586.5	2	0.2699	2	0.264	2	0.693
21322	C10H22O	3,4,5,5-tetramethyl-3-hexanol	66256-40-4	252.62	2	468.15	1	631.67	2	24.03	2	586.5	2	0.2699	2	0.268	2	0.693
21323	C10H22O	4-methyl-2-isobutyl-1-pentanol	22417-45-4	216.41	2	477.15	1	629.93	2	23.07	2	611.5	2	0.2588	2	0.269	2	0.822
21324	C10H22O	4,4-dimethyl-3-isopropyl-1-pentanol	66719-51-5	235.20	2	456.00	2	608.90	2	23.77	2	591.5	2	0.2676	2	0.278	2	0.757
21325	C10H22O	3,4-dimethyl-3-isopropyl-2-pentanol	66719-50-4	218.83	2	456.00	2	610.96	2	23.50	2	600.5	2	0.2636	2	0.278	2	0.728
21326	C10H22O	2,4-dimethyl-3-propyl-3-pentanol	---	235.20	2	457.15	1	610.43	2	23.77	2	591.5	2	0.2676	2	0.277	2	0.757
21327	C10H22O	2,4-dimethyl-3-isopropyl-3-pentanol	51200-83-0	258.45	1	467.65	1	626.57	2	23.50	2	600.5	2	0.2636	2	0.271	2	0.728
21328	C10H22O	2,2,4-trimethyl-3-ethyl-3-pentanol	66256-41-5	252.62	2	464.15	1	626.28	2	24.03	2	586.5	2	0.2699	2	0.271	2	0.693
21329	C10H22O	2,2,3,4,4-pentamethyl-3-pentanol	5857-69-2	315.25	1	467.55	1	637.91	2	24.29	2	581.5	2	0.2722	2	0.266	2	0.629
21330	C10H22O	2,3-dimethyl-2-tert-butyl-1-butanol	81931-81-9	327.15	1	466.00	2	628.77	2	24.03	2	586.5	2	0.2699	2	0.270	2	0.693

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
21331	C10H22O	3,7-dimethyl-3-octanol, (±)	57706-88-4	304.65	1	469.65	1	629.00	2	23.55	2	598.0	2	0.2647	2	0.269	2	0.793
21332	C10H22O	3,7-dimethyl-1-octanol, (±)	59204-02-3	246.36	2	485.65	1	629.00	2	23.55	2	598.0	2	0.2647	2	0.269	2	0.793
21333	C10H22O	3-ethyl-6-methyl-3-heptanol	66719-40-2	246.36	2	472.78	2	629.00	2	23.55	2	598.0	2	0.2647	2	0.269	2	0.793
21334	C10H22O	8-methyl-1-nonanol	55505-26-5	213.15	1	493.00	2	644.00	2	22.80	2	591.0	2	0.2678	2	0.252	2	0.913
21335	C10H22O	di-pentyl ether	693-65-2	203.72	1	459.90	1	622.00	2	20.90	2	593.0	2	0.2669	2	0.240	2	0.601
21336	C10H22O	diisopentyl ether	544-01-4	244.69	2	445.65	1	622.00	2	20.90	2	593.0	2	0.2669	2	0.240	2	0.601
21337	C10H22O	ethyl octyl ether	929-61-3	285.65	1	459.45	1	622.00	2	20.90	2	593.0	2	0.2669	2	0.240	2	0.601
21338	C10H22O	(S)-(+)-2-decanol	33758-16-6	246.36	2	484.15	1	629.00	2	23.55	2	598.0	2	0.2647	2	0.269	2	0.793
21339	C10H22O	(R)-3,7-dimethyl-1-octanol	1117-60-8	246.36	2	485.70	1	629.00	2	23.55	2	598.0	2	0.2647	2	0.269	2	0.793
21340	C10H22O	s-3,7-dimethyl-1-octanol	68680-98-8	246.36	2	485.00	2	629.00	2	23.55	2	598.0	2	0.2647	2	0.269	2	0.793
21341	C10H22O	decyl alcohol (mixed isomers)	85566-12-7	246.36	2	472.78	2	629.00	2	23.55	2	598.0	2	0.2647	2	0.269	2	0.793
21347	C10H22O2	1,2-decanediol	1119-86-4	322.15	1	553.15	2	697.08	2	25.35	2	627.5	2	0.2777	2	0.275	2	1.309
21348	C10H22O2	1,4-decanediol	37810-94-9	301.15	1	585.15	2	737.41	2	25.35	2	627.5	2	0.2777	2	0.259	2	1.309
21349	C10H22O2	1,10-decanediol	112-47-0	345.70	1	574.00	1	747.00	2	21.10	2	609.0	2	0.2862	2	0.207	2	0.919
21350	C10H22O2	2,9-decanediol	14021-92-2	306.15	1	503.47	2	716.12	2	25.30	2	629.0	2	0.2771	2	0.267	2	1.315
21351	C10H22O2	3,7-dimethyl-1,7-octanediol	107-74-4	320.44	2	538.15	1	716.12	2	25.30	2	629.0	2	0.2771	2	0.267	2	1.315
21352	C10H22O2	3,4-diethyl-3,4-hexanediol	6931-71-1	301.15	1	503.15	1	716.12	2	25.30	2	629.0	2	0.2771	2	0.267	2	1.315
21355	C10H22O2	ethylene glycol dibutyl ether	112-48-1	204.05	1	476.45	1	672.00	2	23.40	2	624.5	2	0.2791	2	0.262	2	---
21356	C10H22O2	ethylene glycol diisobutyl ether	54922-86-0	204.05	2	444.45	1	672.00	2	23.40	2	624.5	2	0.2791	2	0.262	2	---
21357	C10H22O2	(S)-1,2-decanediol	84276-14-2	333.15	1	503.47	2	716.12	2	25.30	2	629.0	2	0.2771	2	0.267	2	1.315
21358	C10H22O2	(R)-1,2-decanediol	87827-60-9	334.15	1	503.47	2	716.12	2	25.30	2	629.0	2	0.2771	2	0.267	2	1.315
21359	C10H22O2	2-(2-ethylhexyloxy)ethanol	1559-35-9	204.05	2	501.15	1	646.00	2	22.30	2	611.0	2	0.2852	2	0.254	2	0.983
21360	C10H22O2	2-(octyloxy)ethanol	10020-43-6	204.05	2	503.47	2	672.00	2	23.40	2	624.5	2	0.2791	2	0.262	2	---
21362	C10H22O2	1,3-decanediol	6071-27-8	320.44	2	503.47	2	710.95	2	25.35	2	627.5	2	0.2777	2	0.269	2	1.309
21369	C10H22O3	di(ethylene glycol) hexyl ether	112-59-4	239.55	1	532.25	1	684.00	2	24.10	2	631.0	2	0.3016	2	0.267	2	1.111
21370	C10H22O3	di(propylene glycol) tert-butyl ether, isomers	132739-31-2	---	---	515.00	1	667.00	2	22.30	2	631.0	2	0.3016	2	0.254	2	0.997
21376	C10H22O4	2-[2-(2-butoxyethoxy)ethoxy]ethanol	143-22-6	264.00	2	551.15	1	695.00	2	21.10	2	684.0	2	0.3016	2	0.250	2	1.138
21378	C10H22O4	(2-(2-methoxy methyl ethoxy)methyl ethoxy)propanol	25498-49-1	231.15	1	515.55	1	657.00	2	21.80	2	652.0	2	0.3164	2	0.260	2	1.125
21380	C10H22O5	tetraethylene glycol dimethyl ether	143-24-8	243.45	1	548.95	1	705.00	2	19.40	2	674.0	2	0.3298	2	0.223	2	0.965
21385	C10H22S	decyl mercaptan	143-10-2	247.56	1	512.35	1	696.00	2	21.30	2	624.0	2	0.2794	2	0.230	2	0.587
21386	C10H22S	2-decanethiol	13402-60-3	231.15	1	501.45	1	690.00	2	21.00	2	637.0	2	0.2737	2	0.233	2	0.506
21387	C10H22S	dipentyl sulfide	872-10-6	221.85	1	500.00	2	701.03	2	21.41	2	649.5	2	0.2684	2	0.239	2	0.551
21388	C10H22S	methyl nonyl sulfide	59973-07-8	238.16	2	500.00	2	701.03	2	21.41	2	649.5	2	0.2684	2	0.239	2	0.551
21389	C10H22S	ethyl octyl sulfide	3698-94-0	241.00	2	505.54	1	700.00	1	24.00	1	624.0	2	0.2794	2	0.257	1,2	0.538
21390	C10H22S	propyl heptyl sulfide	24768-46-5	238.16	2	500.00	2	701.03	2	21.41	2	649.5	2	0.2684	2	0.239	2	0.551
21391	C10H22S	butyl hexyl sulfide	16967-04-7	238.16	2	500.00	2	701.03	2	21.41	2	649.5	2	0.2684	2	0.239	2	0.551
21392	C10H22S	bis(2-methylbutyl) sulfide	96034-00-3	228.84	2	438.15	1	701.03	2	21.41	2	649.5	2	0.2684	2	0.239	2	0.551
21393	C10H22S	diisopentyl sulfide	544-02-5	198.55	1	489.20	1	701.03	2	21.41	2	649.5	2	0.2684	2	0.239	2	0.551
21394	C10H22S2	dipentyl disulfide	112-51-6	214.16	1	537.06	1	726.94	2	21.75	2	703.5	2	0.2934	2	0.253	2	0.614
21395	C10H22S2	diisopentyl disulfide	2051-04-9	214.16	2	520.15	1	726.94	2	21.75	2	703.5	2	0.2934	2	0.253	2	0.614
21400	C10H23N	decylamine	2016-57-1	288.85	1	493.65	1	663.00	2	21.80	2	629.0	2	0.2501	2	0.249	2	0.666
21401	C10H23N	methylnonylamine	39093-27-1	234.65	2	480.15	1	649.40	2	21.70	2	620.0	2	0.2537	2	0.249	2	0.624
21402	C10H23N	dimethyloctylamine	7378-99-6	198.15	1	464.15	1	650.60	2	21.20	2	620.0	2	0.2537	2	0.243	2	0.415
21403	C10H23N	diethylhexylamine	44979-90-0	198.15	2	452.15	1	617.59	2	21.84	2	633.5	2	0.2483	2	0.269	2	0.568
21404	C10H23N	ethyloctylamine	4088-36-2	234.65	2	475.15	1	642.40	2	21.30	2	620.0	2	0.2537	2	0.247	2	0.616
21405	C10H23N	dipentylamine	2050-92-2	240.15	1	476.15	1	639.00	2	21.20	2	629.0	2	0.2501	2	0.251	2	0.677
21406	C10H23N	diisopentylamine	544-00-3	229.15	1	461.15	1	644.56	2	21.59	2	624.1	2	0.2521	2	0.251	2	0.585
21407	C10H23N	N,N-diisopropylisobutylamine	44976-81-0	198.15	2	445.00	2	644.56	2	21.59	2	624.1	2	0.2521	2	0.251	2	0.585
21408	C10H23NO	N,N-diisobutylethanolamine	4535-66-4	---	---	487.15	1	770.00	2	27.00	2	601.4	2	0.2881	2	0.254	2	---
21409	C10H23NO	2-dibutylaminoethanol	102-81-8	---	---	487.15	2	770.00	2	27.00	2	601.4	2	0.2881	2	0.254	2	---
21420	C10H24N2	N,N'-di-tert-butylethylenediamine	4062-60-6	326.50	1	462.15	1	625.00	2	21.60	2	686.0	2	0.2512	2	0.285	2	0.628
21457	C10H28N6	pentaethylenehexamine	4067-16-7	243.15	1	659.00	1	820.00	2	21.10	2	912.0	2	0.2548	2	0.282	2	1.387
21461	C10H30O3Si4	decamethyltetrasiloxane	141-62-8	205.15	1	467.15	1	599.40	1	12.27	1	1157.0	1	0.2685	1	0.285	1	0.673
21463	C10H30O5Si5	decamethylcyclopentasiloxane	541-02-6	235.15	1	484.10	1	619.15	1	11.60	2	1216.0	1	0.3049	1	0.274	1,2	0.666
21601	C11H10	1-methylnaphthalene	90-12-0	242.67	1	517.83	1	772.00	1	36.00	1	465.0	2	0.3058	2	0.261	1,2	0.342
21602	C11H10	2-methylnaphthalene	91-57-6	307.73	1	514.26	1	761.00	1	35.00	1	465.0	2	0.3058	2	0.257	1,2	0.378
21603	C11H10	methylnaphthalene	1321-94-4	307.15	1	515.15	1	766.52	2	34.55	2	515.0	2	0.2762	2	0.279	2	0.347
21702	C11H11N	3-ethylquinoline	1873-54-7	305.55	2	539.15	1	775.67	2	34.12	2	514.5	2	0.3056	2	0.272	2	0.498
21703	C11H11N	6-ethylquinoline	19655-60-8	316.82	2	536.00	2	771.14	2	34.12	2	514.5	2	0.3056	2	0.274	2	0.498
21704	C11H11N	8-ethylquinoline	19655-56-2	316.82	2	529.15	1	761.28	2	34.12	2	514.5	2	0.3056	2	0.277	2	0.498
21705	C11H11N	2,3-dimethylquinoline	1721-89-7	343.15	1	536.15	1	774.45	2	33.53	2	514.5	2	0.3056	2	0.268	2	0.497
21706	C11H11N	2,4-dimethylquinoline	1198-37-4	288.00	1	540.36	1	776.40	2	33.53	2	514.5	2	0.3056	2	0.267	2	0.497
21707	C11H11N	2,6-dimethylquinoline	877-43-0	330.45	1	538.56	1	773.81	2	33.53	2	514.5	2	0.3056	2	0.268	2	0.497
21708	C11H11N	2,7-dimethylquinoline	93-37-8	334.15	1	537.65	1	774.45	2	33.53	2	514.5	2	0.3056	2	0.268	2	0.497
21709	C11H11N	2,8-dimethylquinoline	1463-17-8	334.15	1	523.15	1	751.67	2	33.53	2	514.5	2	0.3056	2	0.276	2	0.497
21710	C11H11N	3,4-dimethylquinoline	2436-92-2	347.15	1	564.15	1	765.83	2	33.53	2	514.5	2	0.3056	2	0.271	2	0.497
21711	C11H11N	3,6-dimethylquinoline	20668-26-2	330.15	1	543.15	1	780.41	2	33.53	2	514.5	2	0.3056	2	0.266	2	0.497
21712	C11H11N	3,7-dimethylquinoline	20668-28-4	352.15	1	544.15	1	781.85	2	33.53	2	514.5	2	0.3056	2	0.265	2	0.497
21713	C11H11N	3,8-dimethylquinoline	20668-29-5	300.45	2	534.15	1	767.48	2	33.53	2	514.5	2	0.3056	2	0.270	2	0.497
21714	C11H11N	4,5-dimethylquinoline	59129-74-7	351.15	1	538.00	2	773.01	2	33.53	2	514.5	2	0.3056	2	0.268	2	0.497
21715	C11H11N	4,6-dimethylquinoline	826-77-7	295.15	1	545.15	1	783.28	2	33.53	2	514.5	2	0.3056	2	0.265	2	0.497
21716	C11H11N	4,8-dimethylquinoline	13362-80-6	330.15	1	546.00	2	784.50	2	33.53	2	514.5	2	0.3056	2	0.264	2	0.497
21717	C11H11N	5,6-dimethylquinoline	20668-30-8	323.15	1	546.00	2	784.50	2	33.53	2	514.5	2	0.3056	2	0.264	2	0.497
21718	C11H11N	5,7-dimethylquinoline	20150-89-4	295.15	1	547.15	1	786.16	2	33.53	2	514.5	2	0.3056	2	0.264	2	0.497
21719	C11H11N	6,7-dimethylquinoline	20668-33-1	331.15	1	547.00	2	785.94	2	33.53	2	514.5	2	0.3056	2	0.264	2	0.497
21720	C11H11N	2,5-dimethylquinoline	26190-82-9	334.15	1	537.65	1	775.10	2	33.63	2	514.5	2	0.3056	2	0.268	2	0.497
21721	C11H11N	5,8-dimethylquinoline	2623-50-9	275.45	1	539.15	1	775.10	2	33.63	2	514.5	2	0.3056	2	0.268	2	0.497
21722	C11H11N	6,8-dimethylquinoline	2436-93-3	321.72	2	541.65	1	775.10	2	33.63	2	514.5	2	0.3056	2	0.268	2	0.497
21723	C11H11N	2-ethylquinoline	1613-34-9	321.72	2	518.65	1	775.10	2	33.63	2	514.5	2	0.3056	2	0.268	2	0.497
21791.1	C11H12	p-isopropylenylstyrene	16262-48-9	---	---	515.00	2	741.00	2	27.80	2	531.0	2	0.2716	2	0.240	2	0.407

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
22025	C11H14	1-methyl-[1,2,3,4-tetrahydronaphthalene]	1559-81-5	232.30	2	493.74	1	722.13	2	30.76	2	492.5	2	0.2969	2	0.252	2	0.379
22026	C11H14	2-methyl-[1,2,3,4-tetrahydronaphthalene]	3877-19-8	230.15	1	493.15	1	721.27	2	30.76	2	492.5	2	0.2969	2	0.253	2	0.379
22027	C11H14	1,2,3,4-tetrahydro-5-methylnaphthalene	2809-64-5	250.15	1	507.15	1	721.70	2	30.76	2	492.5	2	0.2969	2	0.252	2	0.379
22028	C11H14	1,2,3,4-tetrahydro-6-methylnaphthalene	1680-51-9	233.15	1	502.15	1	721.70	2	30.76	2	492.5	2	0.2969	2	0.252	2	0.379
22035	C11H14	(1-ethylallyl)benzene	19947-22-9	236.15	2	464.65	1	703.00	2	28.00	2	521.3	2	0.2805	2	0.250	2	---
22036	C11H14	(1-ethyl-1-propenyl)benzene	4701-36-4	236.15	2	470.15	1	703.00	2	28.00	2	521.3	2	0.2805	2	0.250	2	---
22037	C11H14	4-isopropylstyrene	2055-40-5	228.45	1	477.25	1	685.00	2	27.00	2	529.1	2	0.2764	2	0.251	2	---
22038	C11H14	(1-methyl-1-butenyl)benzene	53172-84-2	236.15	2	475.15	1	703.00	2	28.00	2	521.3	2	0.2805	2	0.250	2	---
22039	C11H14	1-pentenylbenzene	826-18-6	236.15	2	490.15	1	703.00	2	28.00	2	521.3	2	0.2805	2	0.250	2	---
22040	C11H14	3-pentenylbenzene	1745-16-0	236.15	2	474.15	1	703.00	2	28.00	2	521.3	2	0.2805	2	0.250	2	---
22041	C11H14	4-pentenylbenzene	1075-74-7	236.15	2	474.15	1	703.00	2	28.00	2	521.3	2	0.2805	2	0.250	2	---
22042	C11H14	2-vinyl-1,3,5-trimethylbenzene	769-25-5	236.15	1	482.15	1	703.00	2	28.00	2	521.3	2	0.2805	2	0.250	2	---
22054	C11H14Cl2	2,4-bis(chloromethyl)-1,3,5-trimethylbenzene	1585-17-7	378.65	1	570.00	2	810.00	2	25.00	2	643.4	2	0.3375	2	0.239	2	---
22113	C11H14O2	butyl benzoate	136-60-7	251.65	1	523.15	1	724.00	2	25.90	2	555.0	2	0.3211	2	0.239	2	0.577
22304	C11H16	pentylbenzene	538-68-1	198.15	1	478.61	1	679.90	2	26.04	2	550.0	2	0.2695	2	0.253	2	0.438
22305	C11H16	2-phenylpentane	2719-52-0	224.65	2	463.15	1	663.62	2	26.71	2	537.5	2	0.2758	2	0.260	2	0.413
22306	C11H16	3-phenylpentane	1196-58-3	224.65	2	464.15	1	665.05	2	26.71	2	537.5	2	0.2758	2	0.260	2	0.413
22307	C11H16	1-phenyl-2-methylbutane	3968-85-2	224.65	2	470.15	1	673.65	2	26.71	2	537.5	2	0.2758	2	0.256	2	0.413
22308	C11H16	1-phenyl-3-methylbutane	2049-94-7	224.65	2	472.05	1	676.37	2	26.71	2	537.5	2	0.2758	2	0.255	2	0.413
22309	C11H16	2-phenyl-2-methylbutane	2049-95-8	242.07	2	465.53	1	676.93	2	27.01	2	532.5	2	0.2784	2	0.256	2	0.351
22310	C11H16	2-phenyl-3-methylbutane	4481-30-5	209.65	2	461.15	1	665.60	2	26.93	2	531.5	2	0.2789	2	0.259	2	0.383
22311	C11H16	1-phenyl-2,2-dimethylpropane	1007-26-7	242.07	2	459.15	1	667.65	2	27.01	2	532.5	2	0.2784	2	0.259	2	0.351
22312	C11H16	1-methyl-2-butylbenzene	1595-11-5	252.17	2	481.15	1	683.67	2	26.08	2	543.5	2	0.2728	2	0.249	2	0.442
22313	C11H16	1-methyl-3-butylbenzene	1595-04-6	252.17	2	478.15	1	679.41	2	26.08	2	543.5	2	0.2728	2	0.251	2	0.442
22314	C11H16	1-methyl-4-butylbenzene	1595-05-7	188.15	1	480.15	1	682.25	2	26.08	2	543.5	2	0.2728	2	0.250	2	0.442
22315	C11H16	1-methyl-2-sec-butylbenzene	1595-06-8	237.17	2	469.15	1	671.35	2	26.30	2	537.5	2	0.2758	2	0.253	2	0.412
22316	C11H16	1-methyl-3-sec-butylbenzene	1772-10-7	237.17	2	467.15	1	668.49	2	26.30	2	537.5	2	0.2758	2	0.254	2	0.412
22317	C11H16	1-methyl-4-sec-butylbenzene	1595-16-0	237.17	2	470.15	1	672.78	2	26.30	2	537.5	2	0.2758	2	0.253	2	0.412
22318	C11H16	1-methyl-2-isobutylbenzene	36301-29-8	199.85	1	469.15	1	671.35	2	26.30	2	537.5	2	0.2758	2	0.253	2	0.412
22319	C11H16	1-methyl-3-isobutylbenzene	5160-99-6	237.17	2	467.15	1	668.49	2	26.30	2	537.5	2	0.2758	2	0.254	2	0.412
22320	C11H16	1-methyl-4-isobutylbenzene	5161-04-6	237.17	2	469.15	1	671.35	2	26.30	2	537.5	2	0.2758	2	0.253	2	0.412
22321	C11H16	1-methyl-2-tert-butyl benzene	1074-92-6	222.83	1	473.60	1	687.73	2	26.60	2	532.5	2	0.2784	2	0.248	2	0.351
22322	C11H16	1-methyl-3-tert-butylbenzene	1075-38-3	231.78	1	462.41	1	671.48	2	26.60	2	532.5	2	0.2784	2	0.254	2	0.351
22323	C11H16	1-methyl-4-tert-butylbenzene	98-51-1	220.64	1	465.91	1	676.56	2	26.60	2	532.5	2	0.2784	2	0.252	2	0.351
22324	C11H16	1-ethyl-2-propylbenzene	16021-20-8	252.17	2	476.15	1	676.56	2	26.08	2	543.5	2	0.2728	2	0.252	2	0.442
22325	C11H16	1-ethyl-3-propylbenzene	20024-91-3	252.17	2	474.15	1	673.72	2	26.08	2	543.5	2	0.2728	2	0.253	2	0.442
22326	C11H16	1-ethyl-4-propylbenzene	20024-90-2	252.17	2	478.15	1	679.41	2	26.08	2	543.5	2	0.2728	2	0.251	2	0.442
22327	C11H16	1-ethyl-2-isopropylbenzene	18970-44-0	223.00	2	466.15	1	666.00	2	26.70	2	530.0	2	0.2797	2	0.256	2	0.418
22328	C11H16	1-ethyl-3-isopropylbenzene	4920-99-4	237.17	2	465.15	1	665.63	2	26.30	2	537.5	2	0.2758	2	0.255	2	0.412
22329	C11H16	1-ethyl-4-isopropylbenzene	4218-48-8	237.17	2	469.75	1	672.21	2	26.30	2	537.5	2	0.2758	2	0.253	2	0.412
22330	C11H16	1,2-dimethyl-3-propylbenzene	17059-44-8	264.69	2	483.85	1	686.65	2	25.69	2	543.5	2	0.2728	2	0.245	2	0.441
22331	C11H16	1,2-dimethyl-4-propylbenzene	3982-66-9	253.15	1	482.05	1	684.10	2	25.69	2	543.5	2	0.2728	2	0.245	2	0.441
22332	C11H16	1,3-dimethyl-2-propylbenzene	17059-45-9	264.69	2	480.75	1	682.26	2	25.69	2	543.5	2	0.2728	2	0.246	2	0.441
22333	C11H16	1,3-dimethyl-4-propylbenzene	61827-85-8	264.69	2	479.75	1	680.84	2	25.69	2	543.5	2	0.2728	2	0.247	2	0.441
22334	C11H16	1,3-dimethyl-5-propylbenzene	3982-64-7	214.05	1	475.39	1	674.65	2	25.69	2	543.5	2	0.2728	2	0.249	2	0.441
22335	C11H16	1,4-dimethyl-2-propylbenzene	3042-50-0	264.69	2	477.45	1	677.57	2	25.69	2	543.5	2	0.2728	2	0.248	2	0.441
22336	C11H16	1,2-dimethyl-3-isopropylbenzene	22539-65-7	249.69	2	475.75	1	679.93	2	25.90	2	537.5	2	0.2758	2	0.246	2	0.411
22337	C11H16	1,2-dimethyl-4-isopropylbenzene	4132-77-8	249.69	2	474.95	1	678.79	2	25.90	2	537.5	2	0.2758	2	0.247	2	0.411
22338	C11H16	1,3-dimethyl-2-isopropylbenzene	14411-75-7	249.69	2	472.15	1	674.78	2	25.90	2	537.5	2	0.2758	2	0.248	2	0.411
22339	C11H16	1,3-dimethyl-4-isopropylbenzene	4706-89-2	191.15	1	472.25	1	674.93	2	25.90	2	537.5	2	0.2758	2	0.248	2	0.411
22340	C11H16	1,3-dimethyl-5-isopropylbenzene	4706-90-5	249.69	2	467.65	1	668.35	2	25.90	2	537.5	2	0.2758	2	0.251	2	0.411
22341	C11H16	1,4-dimethyl-2-isopropylbenzene	4132-72-3	249.69	2	469.35	1	670.78	2	25.90	2	537.5	2	0.2758	2	0.250	2	0.411
22342	C11H16	1-methyl-2,3-diethylbenzene	13632-93-4	264.69	2	479.75	1	680.84	2	25.69	2	543.5	2	0.2728	2	0.247	2	0.441
22343	C11H16	1-methyl-2,4-diethylbenzene	1758-85-6	264.69	2	478.15	1	678.57	2	25.69	2	543.5	2	0.2728	2	0.247	2	0.441
22344	C11H16	1-methyl-2,5-diethylbenzene	13632-94-5	264.69	2	480.25	1	681.55	2	25.69	2	543.5	2	0.2728	2	0.246	2	0.441
22345	C11H16	1-methyl-2,6-diethyl benzene	13632-95-6	264.69	2	481.95	1	683.96	2	25.69	2	543.5	2	0.2728	2	0.246	2	0.441
22346	C11H16	1-methyl-3,4-diethylbenzene	13732-80-4	264.69	2	476.75	1	676.58	2	25.69	2	543.5	2	0.2728	2	0.248	2	0.441
22347	C11H16	1-methyl-3,5-diethylbenzene	2050-24-0	199.03	1	473.85	1	672.46	2	25.69	2	543.5	2	0.2728	2	0.250	2	0.441
22348	C11H16	1,2,3-trimethyl-4-ethylbenzene	61827-86-9	277.21	2	493.55	1	699.56	2	25.30	2	543.5	2	0.2728	2	0.236	2	0.441
22349	C11H16	1,2,3-trimethyl-5-ethylbenzene	31366-00-4	277.21	2	488.95	1	693.04	2	25.30	2	543.5	2	0.2728	2	0.239	2	0.441
22350	C11H16	1,2,4-trimethyl-3-ethylbenzene	61827-87-0	277.21	2	489.75	1	694.17	2	25.30	2	543.5	2	0.2728	2	0.238	2	0.441
22351	C11H16	1,2,4-trimethyl-5-ethylbenzene	17851-27-3	259.65	1	486.15	1	689.07	2	25.30	2	543.5	2	0.2728	2	0.240	2	0.441
22352	C11H16	1,2,4-trimethyl-6-ethylbenzene	---	259.65	1	486.15	1	689.07	2	25.30	2	543.5	2	0.2728	2	0.240	2	0.441
22353	C11H16	1,3,5-trimethyl-2-ethylbenzene	3982-67-0	257.65	1	485.55	1	688.22	2	25.30	2	543.5	2	0.2728	2	0.240	2	0.441
22354	C11H16	pentamethylbenzene	700-12-9	327.45	1	504.55	1	719.15	1	28.70	2	538.0	2	0.2756	2	0.258	1,2	0.464
22355	C11H16	1-ethyl-2,3,5-trimethylbenzene	18262-85-6	243.06	2	486.15	1	678.03	2	26.02	2	540.1	2	0.2745	2	0.249	2	0.420
22356	C11H16	sec-pentylbenzene	29316-05-0	203.25	1	473.15	1	678.03	2	26.02	2	540.1	2	0.2745	2	0.249	2	0.420
22399	C11H16O	p-tert-amylphenol	80-46-6	366.00	1	535.65	1	752.00	2	29.80	2	546.0	2	0.3008	2	0.260	2	0.564
22400	C11H16O	2-butyl-4-methylphenol	6891-45-8	292.15	1	501.15	1	751.00	2	29.80	2	546.0	2	0.3008	2	0.261	2	0.569
22401	C11H16O	2-tert-butyl-4-methylphenol	2409-55-4	324.65	1	510.15	1	751.00	2	29.80	2	546.0	2	0.3008	2	0.261	2	0.569
22402	C11H16O	2-tert-butyl-5-methylphenol	88-60-8	319.65	1	486.71	2	751.00	2	29.80	2	546.0	2	0.3008	2	0.261	2	0.569
22403	C11H16O	2-tert-butyl-6-methylphenol	2219-82-1	304.15	1	503.15	1	751.00	2	29.80	2	546.0	2	0.3008	2	0.261	2	0.569
22404	C11H16O	4-tert-butyl-2-methylphenol	98-27-1	300.65	1	510.15	1	751.00	2	29.80	2	546.0	2	0.3008	2	0.261	2	0.569
22405	C11H16O	4-isopentylphenol	1805-61-4	302.15	1	528.15	1	751.00	2	29.80	2	546.0	2	0.3008	2	0.261	2	0.569
22406	C11H16O	5-methyl-2-sec-butylphenol	29472-95-5	322.97	2	519.15	1	751.00	2	29.80	2	546.0	2	0.3008	2	0.261	2	0.569
22407	C11H16O	pentamethylphenol	2819-86-5	401.15	1	540.15	1	751.00	2	29.80	2	546.0	2	0.3008	2	0.261	2	0.569
22408	C11H16O	4-pentylphenol	14938-35-3	296.15	1	523.65	1	751.00	2	29.80	2	546.0	2	0.3008	2	0.261	2	0.569
22439	C11H16O	2-(1-methylbutyl)phenol	87-26-3	322.97	2	515.74	1	751.00	2	29.80	2	546.0	2	0.3008	2	0.261	2	0.569
22440	C11H16O	o-amylphenol	136-81-2	322.97	2	486.71	2	751.00	2	29.80	2	546.0	2	0.3008	2	0.261	2	0.569
22441	C11H16O	2-sec-amylphenol	26401-74-1	322.97	2	407.65	1	751.00	2	29.80	2	546.0	2	0.3008	2	0.261	2	0.569

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_c, g/ml	code	Z_C	code	omega
22442	C11H16O	4-sec-amylphenol	25735-67-5	322.97	2	409.65	1	751.00	2	29.80	2	546.0	2	0.3008	2	0.261	2	0.569
22492	C11H17N	N,N-diethyl-2-methylaniline	606-46-2	213.15	1	482.15	1	700.00	2	27.50	2	566.1	2	0.2884	2	0.267	2	---
22493	C11H17N	N,N-diethyl-4-methylaniline	613-48-9	319.40	2	502.15	1	700.00	2	27.50	2	566.1	2	0.2884	2	0.267	2	---
22494	C11H17N	4-isopentylaniline	104177-72-2	319.40	2	530.15	1	700.00	2	27.50	2	566.1	2	0.2884	2	0.267	2	---
22495	C11H17N	N-isopentylaniline	2051-84-5	319.40	2	527.65	1	700.00	2	27.50	2	566.1	2	0.2884	2	0.267	2	---
22496	C11H17N	2,3,4,5,6-pentamethylaniline	2243-30-3	425.65	1	550.65	1	700.00	2	27.50	2	566.1	2	0.2884	2	0.267	2	---
22497	C11H17N	p-tert-pentylaniline	2049-92-5	319.40	2	533.65	1	700.00	2	27.50	2	566.1	2	0.2884	2	0.267	2	---
22501	C11H17N	N,N-diethyl-m-toluidine	91-67-8	319.40	2	504.65	1	700.00	2	27.50	2	566.1	2	0.2884	2	0.267	2	---
22502	C11H17N	N-ethyl-N-isopropylaniline	54813-77-3	319.40	2	497.15	1	700.00	2	27.50	2	566.1	2	0.2884	2	0.267	2	---
22503	C11H17N	N,N,2,4,6-pentamethylaniline	13021-15-3	319.40	2	487.15	1	700.00	2	27.50	2	566.1	2	0.2884	2	0.267	2	---
22504	C11H17N	4-pentylaniline	33228-44-3	319.40	2	535.00	2	700.00	2	27.50	2	566.1	2	0.2884	2	0.267	2	---
22505	C11H17N	N-pentylaniline	2655-27-8	319.40	2	531.15	1	700.00	2	27.50	2	566.1	2	0.2884	2	0.267	2	---
22554	C11H18	1-undecen-3-yne	74744-28-8	---	---	474.15	2	640.00	2	25.00	2	544.1	2	0.2762	2	0.256	2	---
22586	C11H18O	2-heptylfuran	3777-71-7	---	---	466.65	2	660.00	2	29.70	2	496.0	2	0.3352	2	0.268	2	---
22634	C11H18S	3-heptylthiophene	65016-61-7	---	---	519.15	2	725.00	2	24.00	2	632.1	2	0.2884	2	0.252	2	---
22665	C11H20	1-methyl-cis-decahydronaphthalene	---	225.04	2	516.15	1	752.51	2	26.38	2	532.5	2	0.2860	2	0.225	2	0.331
22666	C11H20	1-methyl-trans-decahydronaphthalene	---	237.65	2	508.15	1	740.84	2	26.38	2	532.5	2	0.2860	2	0.228	2	0.331
22667	C11H20	2-methyl-cis-decahydronaphthalene	---	225.04	2	489.15	1	713.14	2	26.38	2	532.5	2	0.2860	2	0.237	2	0.331
22668	C11H20	2-methyl-trans-decahydronaphthalene	4683-94-7	237.65	2	481.15	1	701.48	2	26.38	2	532.5	2	0.2860	2	0.241	2	0.331
22669	C11H20	4a-methyl-cis-decahydronaphthalene	2547-26-4	225.04	2	488.15	1	711.69	2	26.38	2	532.5	2	0.2860	2	0.237	2	0.331
22670	C11H20	4a-methyl-trans-decahydronaphthalene	2547-27-5	237.65	2	478.15	1	697.11	2	26.38	2	532.5	2	0.2860	2	0.242	2	0.331
22671	C11H20	1-hexylcyclopentene	4291-99-0	189.32	2	473.15	1	665.48	2	23.61	2	578.5	2	0.2632	2	0.247	2	0.447
22672	C11H20	1-undecyne	2243-98-3	248.16	1	468.16	1	650.99	2	22.12	2	613.5	2	0.2482	2	0.251	2	0.470
22673	C11H20	2-undecyne	60212-29-5	243.05	1	479.15	1	669.50	2	22.38	2	613.5	2	0.2482	2	0.247	2	0.456
22674	C11H20	3-undecyne	60212-30-8	319.33	2	473.15	1	661.12	2	22.38	2	613.5	2	0.2482	2	0.250	2	0.456
22675	C11H20	4-undecyne	60212-31-9	198.45	1	471.65	1	660.54	2	22.29	2	613.5	2	0.2482	2	0.249	2	0.460
22676	C11H20	5-undecyne	2294-72-6	199.05	1	471.15	1	660.54	2	22.29	2	613.5	2	0.2482	2	0.249	2	0.460
22677	C11H20	3,3-dimethyl-4-nonyne	29022-31-9	241.61	2	483.34	2	660.54	2	22.29	2	613.5	2	0.2482	2	0.249	2	0.460
22701	C11H20O2	2-ethylhexyl acrylate	103-11-7	183.15	1	489.15	1	655.00	2	20.70	2	664.0	2	0.2775	2	0.252	2	0.673
22704	C11H20O2	cis-9-undecenoic acid	116836-30-7	275.65	1	545.00	2	796.00	2	21.00	2	675.0	2	0.2730	2	0.214	2	---
22705	C11H20O2	trans-9-undecenoic acid	37973-84-5	292.15	1	546.15	1	796.00	2	21.00	2	675.0	2	0.2730	2	0.214	2	---
22706	C11H20O2	10-undecenoic acid	112-38-9	297.65	1	548.15	1	796.00	2	21.00	2	675.0	2	0.2730	2	0.214	2	---
22707	C11H20O2	vinyl nonanoate	6280-03-1	214.45	2	512.58	2	672.00	2	22.50	2	578.4	2	0.3186	2	0.233	2	---
22708	C11H20O2	allyl octanoate	4230-97-1	214.45	2	498.15	1	672.00	2	22.50	2	578.4	2	0.3186	2	0.233	2	---
22713	C11H20O2	N-octyl acrylate	2499-59-4	214.45	2	512.58	2	672.00	2	22.50	2	578.4	2	0.3186	2	0.233	2	---
22714	C11H20O2	citronellyl formate	105-85-1	214.45	2	512.58	2	672.00	2	22.50	2	578.4	2	0.3186	2	0.233	2	---
22715	C11H20O2	cis-3-hexenyl 2-methylbutyrate	53398-85-9	214.45	2	512.58	2	672.00	2	22.50	2	578.4	2	0.3186	2	0.233	2	---
22716	C11H20O2	cis-3-hexenyl valerate	35852-46-1	214.45	2	512.58	2	672.00	2	22.50	2	578.4	2	0.3186	2	0.233	2	---
22718	C11H20O2	isooctyl acrylate	29590-42-9	214.45	2	512.58	2	672.00	2	22.50	2	578.4	2	0.3186	2	0.233	2	---
22749	C11H21Br	cis-1-bromo-1-undecene	66142-59-4	267.95	2	517.15	1	699.36	2	21.57	2	693.5	2	0.3363	2	0.257	2	0.621
22750	C11H21Br	trans-1-bromo-1-undecene	66142-60-7	267.95	2	517.15	1	699.36	2	21.57	2	693.5	2	0.3363	2	0.257	2	0.621
22751	C11H21Br	11-bromo-1-undecene	7766-50-9	267.95	2	517.15	2	699.36	2	21.57	2	693.5	2	0.3363	2	0.257	2	0.621
22755	C11H21Br3	1,1,1-tribromoundecane	62127-68-8	395.05	2	599.15	1	795.21	2	23.84	2	826.5	2	0.4755	2	0.298	2	0.802
22756	C11H21Cl	cis-1-chloro-1-undecene	66172-73-4	238.07	2	517.15	1	700.84	2	19.60	2	680.5	2	0.2774	2	0.229	2	0.558
22757	C11H21Cl	trans-1-chloro-1-undecene	66142-61-8	238.07	2	517.15	1	700.84	2	19.60	2	680.5	2	0.2774	2	0.229	2	0.558
22762	C11H21Cl3	1,1,1-trichloroundecane	3922-25-6	305.41	2	553.15	1	738.37	2	17.86	2	787.5	2	0.3297	2	0.229	2	0.601
22764	C11H21F	cis-1-fluoro-1-undecene	66172-74-5	240.30	2	454.51	2	615.67	2	19.46	2	649.5	2	0.2653	2	0.247	2	0.557
22765	C11H21F	trans-1-fluoro-1-undecene	66142-62-9	240.30	2	454.51	2	615.67	2	19.46	2	649.5	2	0.2653	2	0.247	2	0.557
22767	C11H21F3	1,1,1-trifluoroundecane	62126-97-0	312.10	2	462.15	1	620.00	2	17.70	2	687.0	2	0.3061	2	0.236	2	0.564
22768	C11H21I	cis-1-iodo-1-undecene	66142-63-0	266.21	2	541.15	1	735.45	2	19.86	2	719.5	2	0.3894	2	0.234	2	0.548
22769	C11H21I	trans-1-iodo-1-undecene	66142-64-1	266.21	2	541.15	1	735.45	2	19.86	2	719.5	2	0.3894	2	0.234	2	0.548
22770	C11H21I3	1,1,1-triiodoundecane	---	389.83	2	727.27	2	978.49	2	18.56	2	904.5	2	0.5904	2	0.206	2	0.573
22771	C11H21N	undecanenitrile	2244-07-7	267.35	1	533.15	1	706.20	2	19.46	2	677.5	2	0.2454	2	0.225	2	0.700
22791	C11H22	hexylcyclopentane	4457-00-5	200.16	1	476.26	1	667.67	2	22.81	2	592.5	2	0.2604	2	0.243	2	0.442
22792	C11H22	pentylcyclohexane	4292-92-6	215.66	1	476.87	1	674.01	2	23.36	2	584.5	2	0.2640	2	0.244	2	0.413
22793	C11H22	isopentylcyclohexane	54105-76-9	215.66	2	469.65	1	674.01	2	23.36	2	584.5	2	0.2640	2	0.244	2	0.413
22794	C11H22	cycloundecane	294-41-7	251.45	1	494.15	1	728.78	2	27.38	2	545.5	2	0.2829	2	0.247	2	0.298
22795	C11H22	1-undecene	821-95-4	223.99	1	465.82	1	639.00	2	20.30	2	642.0	2	0.2403	2	0.245	2	0.517
22796	C11H22	cis-2-undecene	821-96-5	206.65	1	469.25	1	637.84	2	20.23	2	637.8	2	0.2419	2	0.243	2	0.504
22797	C11H22	trans-2-undecene	693-61-8	224.85	1	465.65	1	637.84	2	20.23	2	637.8	2	0.2419	2	0.243	2	0.504
22798	C11H22	3-undecene	60669-40-1	211.15	1	466.65	1	637.84	2	20.23	2	637.8	2	0.2419	2	0.243	2	0.504
22799	C11H22	cis-4-undecene	821-98-7	176.15	1	465.75	1	637.84	2	20.23	2	637.8	2	0.2419	2	0.243	2	0.504
22800	C11H22	trans-4-undecene	693-62-9	209.45	1	466.15	1	637.84	2	20.23	2	637.8	2	0.2419	2	0.243	2	0.504
22801	C11H22	cis-5-undecene	764-96-5	166.65	1	465.45	1	637.84	2	20.23	2	637.8	2	0.2419	2	0.243	2	0.504
22802	C11H22	trans-5-undecene	764-97-6	212.05	1	465.15	1	637.84	2	20.23	2	637.8	2	0.2419	2	0.243	2	0.504
22803	C11H22	2-methyl-1-decene	13151-27-4	221.67	1	463.85	1	637.68	2	20.16	2	633.5	2	0.2436	2	0.241	2	0.491
22805	C11H22Br2	1,1-dibromoundecane	62168-28-9	317.83	2	567.15	1	754.56	2	22.08	2	769.5	2	0.4082	2	0.271	2	0.741
22806	C11H22Br2	1,11-dibromoundecane	16696-65-4	439.15	1	567.15	2	754.56	2	22.08	2	769.5	2	0.4082	2	0.271	2	0.741
22807	C11H22Cl2	1,1-dichloroundecane	822-01-5	258.07	2	539.15	1	720.08	2	18.26	2	743.5	2	0.3029	2	0.227	2	0.610
22809	C11H22F2	1,1-difluoroundecane	62127-44-0	262.53	2	475.15	1	640.20	2	17.80	2	673.0	2	0.2857	2	0.225	2	0.541
22810	C11H22I2	1,1-diiodoundecane	66142-53-8	314.35	2	636.92	2	855.13	2	18.74	2	821.5	2	0.4968	2	0.217	2	0.591
22822	C11H22O	undecanal	112-44-7	273.15	1	506.15	1	692.00	2	24.90	2	632.0	2	0.2695	2	0.274	2	0.620
22823	C11H22O	2-undecanone	112-12-9	285.95	1	500.98	1	678.01	2	20.46	2	657.5	2	0.2590	2	0.239	2	0.653
22824	C11H22O	3-undecanone	2216-87-7	285.15	1	500.15	1	678.01	2	20.46	2	657.5	2	0.2590	2	0.239	2	0.653
22825	C11H22O	4-undecanone	14476-37-0	275.45	1	507.63	2	678.01	2	20.46	2	657.5	2	0.2590	2	0.239	2	0.653
22826	C11H22O	5-undecanone	33083-83-9	274.15	1	500.15	1	678.01	2	20.46	2	657.5	2	0.2590	2	0.239	2	0.653
22827	C11H22O	6-undecanone	927-49-1	287.65	1	501.15	1	678.01	2	20.46	2	657.5	2	0.2590	2	0.239	2	0.653
22828	C11H22O	10-undecen-1-ol	112-43-6	272.15	1	523.15	1	657.00	2	20.00	2	609.2	2	0.2795	2	0.223	2	---
22829	C11H22O	2-undecen-4-ol	22381-86-8	---	---	507.63	2	657.00	2	20.00	2	609.2	2	0.2795	2	0.223	2	---
22830	C11H22O	9-undecen-1-ol	112-46-9	279.15	1	521.65	1	657.00	2	20.00	2	609.2	2	0.2795	2	0.223	2	---

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
22831	C11H22O	4-tert-amylcyclohexanol	5349-51-9	298.65	1	507.63	2	675.00	2	28.00	2	589.5	2	0.2889	2	0.294	2	---
22834	C11H22O	2-methyl-1-decanal	19009-56-4	273.15	2	507.63	2	672.00	2	20.00	2	632.0	2	0.2695	2	0.226	2	0.697
22835	C11H22O2	undecanoic acid	112-37-8	301.65	1	557.35	1	732.00	2	20.80	2	653.0	2	0.2853	2	0.223	2	0.835
22836	C11H22O2	decyl formate	5451-52-5	250.00	2	506.00	2	672.00	2	19.90	2	697.0	2	0.2673	2	0.248	2	0.712
22837	C11H22O2	nonyl acetate	143-13-5	247.15	1	497.10	1	661.00	2	19.90	2	653.0	2	0.2853	2	0.236	2	0.716
22838	C11H22O2	octyl propanoate	142-60-9	231.55	1	501.15	1	677.20	2	17.70	2	693.0	2	0.2688	2	0.218	2	0.621
22839	C11H22O2	heptyl butanoate	5870-93-9	215.65	1	498.25	1	675.50	2	17.50	2	693.0	2	0.2688	2	0.216	2	0.496
22840	C11H22O2	butyl heptanoate	5454-28-4	205.65	1	499.35	1	652.00	2	20.47	2	658.7	2	0.2835	2	0.249	2	0.639
22841	C11H22O2	ethyl nonanoate	123-29-5	236.45	1	500.15	1	652.00	2	20.47	2	658.7	2	0.2835	2	0.249	2	0.639
22842	C11H22O2	hexyl pentanoate	1117-59-5	210.05	1	499.45	1	652.00	2	20.47	2	658.7	2	0.2835	2	0.249	2	0.639
22843	C11H22O2	isopentyl hexanoate	2198-61-0	226.73	2	498.65	1	652.00	2	20.47	2	658.7	2	0.2835	2	0.249	2	0.639
22844	C11H22O2	pentyl hexanoate	540-07-8	226.15	1	499.15	1	652.00	2	20.47	2	658.7	2	0.2835	2	0.249	2	0.639
22845	C11H22O2	isobutyl heptanoate	7779-80-8	226.73	2	481.15	1	652.00	2	20.47	2	658.7	2	0.2835	2	0.249	2	0.639
22846	C11H22O2	isopropyl octanoate	5458-59-3	226.73	2	489.73	2	652.00	2	20.47	2	658.7	2	0.2835	2	0.249	2	0.639
22847	C11H22O2	propyl octanoate	624-13-5	226.95	1	499.55	1	652.00	2	20.47	2	658.7	2	0.2835	2	0.249	2	0.639
22848	C11H22O2	methyl decanoate	110-42-9	255.15	1	505.00	1	671.00	2	19.90	2	653.0	2	0.2853	2	0.233	2	0.699
22851	C11H22O2	6-methyldecanoic acid	53696-14-3	301.65	2	489.73	2	725.00	2	20.95	2	675.5	2	0.2758	2	0.235	2	0.880
22853	C11H22O2	hexyl 2,2-dimethylpropanoate	5434-57-1	231.55	2	489.73	2	677.20	2	17.70	2	693.0	2	0.2688	2	0.218	2	0.621
22854	C11H22O2	hexyl isovalerate	10032-13-0	226.73	2	489.73	2	652.00	2	20.47	2	658.7	2	0.2835	2	0.249	2	0.639
22855	C11H22O2	hexyl 2-methylbutyrate	10032-15-2	226.73	2	489.73	2	652.00	2	20.47	2	658.7	2	0.2835	2	0.249	2	0.639
22856	C11H22O2	3,5,5-trimethylhexyl acetate	58430-94-7	247.15	2	480.00	2	678.70	2	18.20	2	693.0	2	0.2688	2	0.224	2	0.622
22866	C11H22S	thiacyclododecane	294-65-5	287.18	2	541.15	1	796.44	2	27.94	2	583.5	2	0.3194	2	0.246	2	0.314
22870	C11H23Br	1-bromoundecane	693-67-4	263.45	1	531.95	1	713.07	2	20.57	2	713.5	2	0.3297	2	0.248	2	0.651
22872	C11H23Cl	1-chloroundecane	2473-03-2	256.25	1	518.49	1	696.43	2	18.72	2	700.5	2	0.2723	2	0.227	2	0.588
22875	C11H23F	1-fluoroundecane	506-05-8	257.15	1	479.15	1	641.60	2	18.10	2	663.0	2	0.2629	2	0.225	2	0.588
22876	C11H23I	1-iodoundecane	4282-44-4	275.15	1	554.65	1	715.99	2	21.63	2	670.5	2	0.4209	2	0.244	2	0.964
22885	C11H23NO2	1-nitroundecane	2216-25-3	356.84	2	555.15	1	729.26	2	19.54	2	733.5	2	0.2745	2	0.236	2	0.762
22890	C11H24	undecane	1120-21-4	247.57	1	469.08	1	639.00	1	19.50	1	659.0	2	0.2372	2	0.242	1,2	0.530
22891	C11H24	2-methyldecane	6975-98-0	224.31	1	462.34	1	631.76	2	19.48	2	645.5	2	0.2422	2	0.239	2	0.507
22892	C11H24	3-methyldecane	13151-34-3	180.25	1	463.15	1	632.86	2	19.48	2	645.5	2	0.2422	2	0.239	2	0.507
22893	C11H24	4-methyldecane	2847-72-5	181.15	1	461.05	1	629.99	2	19.48	2	645.5	2	0.2422	2	0.240	2	0.507
22894	C11H24	5-methyldecane	13151-35-4	198.23	2	459.15	1	627.40	2	19.48	2	645.5	2	0.2422	2	0.241	2	0.507
22895	C11H24	3-ethylnonane	17302-11-3	198.23	2	461.15	1	630.13	2	19.48	2	645.5	2	0.2422	2	0.240	2	0.507
22896	C11H24	4-ethylnonane	5911-05-7	198.23	2	457.15	1	624.66	2	19.48	2	645.5	2	0.2422	2	0.242	2	0.507
22897	C11H24	5-ethylnonane	17302-12-4	198.23	2	453.15	1	619.20	2	19.48	2	645.5	2	0.2422	2	0.244	2	0.507
22898	C11H24	2,2-dimethylnonane	17302-14-6	215.65	2	453.15	1	626.62	2	19.67	2	640.5	2	0.2440	2	0.242	2	0.448
22899	C11H24	2,3-dimethylnonane	2884-06-2	183.23	2	459.15	1	631.11	2	19.61	2	639.5	2	0.2444	2	0.239	2	0.478
22900	C11H24	2,4-dimethylnonane	17302-24-8	183.23	2	451.15	1	620.12	2	19.61	2	639.5	2	0.2444	2	0.243	2	0.478
22901	C11H24	2,5-dimethylnonane	17302-27-1	183.23	2	452.15	1	621.49	2	19.61	2	639.5	2	0.2444	2	0.243	2	0.478
22902	C11H24	2,6-dimethylnonane	17302-28-2	183.23	2	452.15	1	621.49	2	19.61	2	639.5	2	0.2444	2	0.243	2	0.478
22903	C11H24	2,7-dimethylnonane	17302-29-3	183.23	2	453.15	1	622.87	2	19.61	2	639.5	2	0.2444	2	0.242	2	0.478
22904	C11H24	2,8-dimethylnonane	17302-30-6	183.23	2	456.15	1	626.99	2	19.61	2	639.5	2	0.2444	2	0.241	2	0.478
22905	C11H24	3,3-dimethylnonane	17302-15-7	215.65	2	455.15	1	629.38	2	19.67	2	640.5	2	0.2440	2	0.241	2	0.448
22906	C11H24	3,4-dimethylnonane	17302-22-6	183.23	2	458.15	1	629.74	2	19.61	2	639.5	2	0.2444	2	0.240	2	0.478
22907	C11H24	3,5-dimethylnonane	17302-25-9	183.23	2	453.15	1	622.87	2	19.61	2	639.5	2	0.2444	2	0.242	2	0.478
22908	C11H24	3,6-dimethylnonane	17302-31-7	183.23	2	455.15	1	625.61	2	19.61	2	639.5	2	0.2444	2	0.241	2	0.478
22909	C11H24	3,7-dimethylnonane	17302-32-8	183.23	2	457.15	1	628.36	2	19.61	2	639.5	2	0.2444	2	0.240	2	0.478
22910	C11H24	4,4-dimethylnonane	17302-18-0	215.65	2	451.15	1	623.85	2	19.67	2	640.5	2	0.2440	2	0.243	2	0.448
22911	C11H24	4,5-dimethylnonane	17302-23-7	183.23	2	455.15	1	625.61	2	19.61	2	639.5	2	0.2444	2	0.241	2	0.478
22912	C11H24	4,6-dimethylnonane	17302-26-0	183.23	2	452.15	1	621.49	2	19.61	2	639.5	2	0.2444	2	0.243	2	0.478
22913	C11H24	5,5-dimethylnonane	6414-96-6	215.65	2	450.15	1	622.47	2	19.67	2	640.5	2	0.2440	2	0.243	2	0.448
22914	C11H24	4-propyloctane	17302-13-5	198.23	2	453.15	1	619.20	2	19.48	2	645.5	2	0.2422	2	0.244	2	0.507
22915	C11H24	4-isopropyloctane	62016-15-3	183.23	2	451.15	1	620.12	2	19.61	2	639.5	2	0.2444	2	0.243	2	0.478
22916	C11H24	2-methyl-3-ethyloctane	62016-16-4	183.23	2	455.15	1	625.61	2	19.61	2	639.5	2	0.2444	2	0.241	2	0.478
22917	C11H24	2-methyl-4-ethyloctane	62016-17-5	183.23	2	449.15	1	617.37	2	19.61	2	639.5	2	0.2444	2	0.244	2	0.478
22918	C11H24	2-methyl-5-ethyloctane	62016-18-6	183.23	2	451.15	1	620.12	2	19.61	2	639.5	2	0.2444	2	0.243	2	0.478
22919	C11H24	2-methyl-6-ethyloctane	62016-19-7	183.23	2	455.15	1	625.61	2	19.61	2	639.5	2	0.2444	2	0.241	2	0.478
22920	C11H24	3-methyl-3-ethyloctane	17302-16-8	215.65	2	458.85	1	634.50	2	19.67	2	640.5	2	0.2440	2	0.239	2	0.448
22921	C11H24	3-methyl-4-ethyloctane	62016-20-0	183.23	2	455.15	1	625.61	2	19.61	2	639.5	2	0.2444	2	0.241	2	0.478
22922	C11H24	3-methyl-5-ethyloctane	62016-21-1	183.23	2	449.15	1	617.37	2	19.61	2	639.5	2	0.2444	2	0.244	2	0.478
22923	C11H24	3-methyl-6-ethyloctane	62016-22-2	183.23	2	455.15	1	625.61	2	19.61	2	639.5	2	0.2444	2	0.241	2	0.478
22924	C11H24	4-methyl-3-ethyloctane	62016-23-3	183.23	2	456.15	1	626.99	2	19.61	2	639.5	2	0.2444	2	0.241	2	0.478
22925	C11H24	4-methyl-4-ethyloctane	17302-19-1	215.65	2	453.15	1	626.62	2	19.67	2	640.5	2	0.2440	2	0.242	2	0.448
22926	C11H24	4-methyl-5-ethyloctane	62016-24-4	183.23	2	453.15	1	622.87	2	19.61	2	639.5	2	0.2444	2	0.242	2	0.478
22927	C11H24	4-methyl-6-ethyloctane	62016-25-5	183.23	2	453.15	1	622.87	2	19.61	2	639.5	2	0.2444	2	0.242	2	0.478
22928	C11H24	2,2,3-trimethyloctane	62016-26-6	200.65	2	452.15	1	629.17	2	19.81	2	634.5	2	0.2464	2	0.240	2	0.419
22929	C11H24	2,2,4-trimethyloctane	18932-14-4	200.65	2	444.65	1	618.73	2	19.81	2	634.5	2	0.2464	2	0.244	2	0.419
22930	C11H24	2,2,5-trimethyloctane	62016-27-7	200.65	2	444.15	1	618.03	2	19.81	2	634.5	2	0.2464	2	0.245	2	0.419
22931	C11H24	2,2,6-trimethyloctane	62016-28-8	200.65	2	447.15	1	622.21	2	19.81	2	634.5	2	0.2464	2	0.243	2	0.419
22932	C11H24	2,2,7-trimethyloctane	62016-29-9	200.65	2	443.15	1	616.64	2	19.81	2	634.5	2	0.2464	2	0.245	2	0.419
22933	C11H24	2,3,3-trimethyloctane	62016-30-2	200.65	2	455.15	1	633.34	2	19.81	2	634.5	2	0.2464	2	0.239	2	0.419
22934	C11H24	2,3,4-trimethyloctane	62016-31-3	168.23	2	453.15	1	626.67	2	19.75	2	633.5	2	0.2467	2	0.240	2	0.449
22935	C11H24	2,3,5-trimethyloctane	62016-32-4	168.23	2	450.15	1	622.52	2	19.75	2	633.5	2	0.2467	2	0.242	2	0.449
22936	C11H24	2,3,6-trimethyloctane	62016-33-5	168.23	2	453.15	1	626.67	2	19.75	2	633.5	2	0.2467	2	0.240	2	0.449
22937	C11H24	2,3,7-trimethyloctane	62016-34-6	168.23	2	452.15	1	625.29	2	19.75	2	633.5	2	0.2467	2	0.241	2	0.449
22938	C11H24	2,4,4-trimethyloctane	62016-35-7	200.65	2	444.15	1	618.03	2	19.81	2	634.5	2	0.2464	2	0.245	2	0.419
22939	C11H24	2,4,5-trimethyloctane	62016-36-8	168.23	2	449.15	1	621.14	2	19.75	2	633.5	2	0.2467	2	0.242	2	0.449
22940	C11H24	2,4,6-trimethyloctane	62016-37-9	168.23	2	447.15	1	618.37	2	19.75	2	633.5	2	0.2467	2	0.243	2	0.449
22941	C11H24	2,4,7-trimethyloctane	62016-38-0	168.23	2	444.15	1	614.22	2	19.75	2	633.5	2	0.2467	2	0.245	2	0.449
22942	C11H24	2,5,5-trimethyloctane	62016-39-1	200.65	2	445.15	1	619.43	2	19.81	2	634.5	2	0.2464	2	0.244	2	0.419

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
22943	C11H24	2,5,6-trimethyloctane	62016-14-2	168.23	2	451.15	1	623.90	2	19.75	2	633.5	2	0.2467	2	0.241	2	0.449
22944	C11H24	2,6,6-trimethyloctane	54166-32-4	200.65	2	449.15	1	624.99	2	19.81	2	634.5	2	0.2464	2	0.242	2	0.419
22945	C11H24	3,3,4-trimethyloctane	62016-40-4	200.65	2	455.15	1	633.34	2	19.81	2	634.5	2	0.2464	2	0.239	2	0.419
22946	C11H24	3,3,5-trimethyloctane	62016-41-5	200.65	2	447.15	1	622.21	2	19.81	2	634.5	2	0.2464	2	0.243	2	0.419
22947	C11H24	3,3,6-trimethyloctane	62016-42-6	200.65	2	450.15	1	626.38	2	19.81	2	634.5	2	0.2464	2	0.241	2	0.419
22948	C11H24	3,4,4-trimethyloctane	62016-43-7	200.65	2	454.15	1	631.95	2	19.81	2	634.5	2	0.2464	2	0.239	2	0.419
22949	C11H24	3,4,5-trimethyloctane	62016-44-8	168.23	2	454.15	1	628.05	2	19.75	2	633.5	2	0.2467	2	0.240	2	0.449
22950	C11H24	3,4,6-trimethyloctane	62016-45-9	168.23	2	452.15	1	625.29	2	19.75	2	633.5	2	0.2467	2	0.241	2	0.449
22951	C11H24	3,5,5-trimethyloctane	61868-94-8	200.65	2	443.15	1	616.64	2	19.81	2	634.5	2	0.2464	2	0.245	2	0.419
22952	C11H24	4,4,5-trimethyloctane	61868-95-9	200.65	2	453.15	1	630.56	2	19.81	2	634.5	2	0.2464	2	0.240	2	0.419
22953	C11H24	4-tert-butylheptane	60302-21-8	200.65	2	447.15	1	622.21	2	19.81	2	634.5	2	0.2464	2	0.243	2	0.419
22954	C11H24	2-methyl-4-propylheptane	61868-96-0	183.23	2	447.15	1	614.62	2	19.61	2	639.5	2	0.2444	2	0.245	2	0.478
22955	C11H24	3-methyl-4-propylheptane	61868-97-1	183.23	2	452.15	1	621.49	2	19.61	2	639.5	2	0.2444	2	0.243	2	0.478
22956	C11H24	4-methyl-4-propylheptane	17302-20-4	215.65	2	451.15	1	623.85	2	19.67	2	640.5	2	0.2440	2	0.243	2	0.448
22957	C11H24	2-methyl-3-isopropylheptane	6876-18-2	168.23	2	451.45	1	624.32	2	19.75	2	633.5	2	0.2467	2	0.241	2	0.449
22958	C11H24	2-methyl-4-isopropylheptane	61868-98-2	168.23	2	445.15	1	615.61	2	19.75	2	633.5	2	0.2467	2	0.244	2	0.449
22959	C11H24	3-methyl-4-isopropylheptane	61868-99-3	168.23	2	450.15	1	622.52	2	19.75	2	633.5	2	0.2467	2	0.242	2	0.449
22960	C11H24	4-methyl-4-isopropylheptane	61869-00-9	200.65	2	453.15	1	630.56	2	19.81	2	634.5	2	0.2464	2	0.240	2	0.419
22961	C11H24	3,3-diethylheptane	17302-17-9	215.65	2	460.05	1	636.16	2	19.67	2	640.5	2	0.2440	2	0.238	2	0.448
22962	C11H24	3,4-diethylheptane	61869-01-0	183.23	2	453.15	1	622.87	2	19.61	2	639.5	2	0.2444	2	0.242	2	0.478
22963	C11H24	3,5-diethylheptane	61869-02-1	183.23	2	452.15	1	621.49	2	19.61	2	639.5	2	0.2444	2	0.243	2	0.478
22964	C11H24	4,4-diethylheptane	17302-21-5	215.65	2	453.45	1	627.03	2	19.67	2	640.5	2	0.2440	2	0.242	2	0.448
22965	C11H24	2,2-dimethyl-3-ethylheptane	61869-03-2	200.65	2	449.15	1	624.99	2	19.81	2	634.5	2	0.2464	2	0.242	2	0.419
22966	C11H24	2,2-dimethyl-4-ethylheptane	62016-46-0	200.65	2	441.15	1	613.86	2	19.81	2	634.5	2	0.2464	2	0.246	2	0.419
22967	C11H24	2,2-dimethyl-5-ethylheptane	62016-47-1	200.65	2	445.15	1	619.43	2	19.81	2	634.5	2	0.2464	2	0.244	2	0.419
22968	C11H24	2,3-dimethyl-3-ethylheptane	61868-21-1	200.65	2	453.15	1	630.56	2	19.81	2	634.5	2	0.2464	2	0.240	2	0.419
22969	C11H24	2,3-dimethyl-4-ethylheptane	61868-22-2	168.23	2	452.15	1	625.29	2	19.75	2	633.5	2	0.2467	2	0.241	2	0.449
22970	C11H24	2,3-dimethyl-5-ethylheptane	61868-23-3	168.23	2	451.15	1	623.90	2	19.75	2	633.5	2	0.2467	2	0.241	2	0.449
22971	C11H24	2,4-dimethyl-3-ethylheptane	61868-24-4	168.23	2	452.15	1	625.29	2	19.75	2	633.5	2	0.2467	2	0.241	2	0.449
22972	C11H24	2,4-dimethyl-4-ethylheptane	61868-25-5	247.15	1	443.15	1	616.64	2	19.81	2	634.5	2	0.2464	2	0.245	2	0.419
22973	C11H24	2,4-dimethyl-5-ethylheptane	61868-26-6	168.23	2	449.15	1	621.14	2	19.75	2	633.5	2	0.2467	2	0.242	2	0.449
22974	C11H24	2,5-dimethyl-3-ethylheptane	61868-27-7	168.23	2	449.15	1	621.14	2	19.75	2	633.5	2	0.2467	2	0.242	2	0.449
22975	C11H24	2,5-dimethyl-4-ethylheptane	61868-28-8	168.23	2	448.15	1	619.75	2	19.75	2	633.5	2	0.2467	2	0.243	2	0.449
22976	C11H24	2,5-dimethyl-5-ethylheptane	61868-29-9	200.65	2	451.15	1	627.77	2	19.81	2	634.5	2	0.2464	2	0.241	2	0.419
22977	C11H24	2,6-dimethyl-3-ethylheptane	61868-30-2	168.23	2	449.15	1	621.14	2	19.75	2	633.5	2	0.2467	2	0.242	2	0.449
22978	C11H24	2,6-dimethyl-4-ethylheptane	61868-31-3	168.23	2	443.15	1	612.84	2	19.75	2	633.5	2	0.2467	2	0.246	2	0.449
22979	C11H24	3,3-dimethyl-4-ethylheptane	61868-32-4	200.65	2	453.15	1	630.56	2	19.81	2	634.5	2	0.2464	2	0.240	2	0.419
22980	C11H24	3,3-dimethyl-5-ethylheptane	61868-33-5	200.65	2	448.15	1	623.60	2	19.81	2	634.5	2	0.2464	2	0.242	2	0.419
22981	C11H24	3,4-dimethyl-3-ethylheptane	61868-34-6	200.65	2	458.15	1	637.52	2	19.81	2	634.5	2	0.2464	2	0.237	2	0.419
22982	C11H24	3,4-dimethyl-4-ethylheptane	61868-35-7	200.65	2	454.15	1	631.95	2	19.81	2	634.5	2	0.2464	2	0.239	2	0.419
22983	C11H24	3,4-dimethyl-5-ethylheptane	61868-36-8	168.23	2	455.15	1	629.43	2	19.75	2	633.5	2	0.2467	2	0.239	2	0.449
22984	C11H24	3,5-dimethyl-3-ethylheptane	61868-37-9	200.65	2	453.15	1	630.56	2	19.81	2	634.5	2	0.2464	2	0.240	2	0.419
22985	C11H24	3,5-dimethyl-4-ethylheptane	61868-38-0	168.23	2	454.15	1	628.05	2	19.75	2	633.5	2	0.2467	2	0.240	2	0.449
22986	C11H24	4,4-dimethyl-3-ethylheptane	61868-39-1	200.65	2	449.15	1	624.99	2	19.81	2	634.5	2	0.2464	2	0.242	2	0.419
22987	C11H24	2,2,3,3-tetramethylheptane	61868-40-4	218.07	2	453.15	1	638.82	2	20.00	2	629.5	2	0.2483	2	0.237	2	0.361
22988	C11H24	2,2,3,4-tetramethylheptane	61868-41-5	185.65	2	449.15	1	629.04	2	19.95	2	628.5	2	0.2487	2	0.240	2	0.391
22989	C11H24	2,2,3,5-tetramethylheptane	61868-42-6	185.65	2	447.15	1	626.24	2	19.95	2	628.5	2	0.2487	2	0.241	2	0.391
22990	C11H24	2,2,3,6-tetramethylheptane	61868-43-7	185.65	2	443.15	1	620.64	2	19.95	2	628.5	2	0.2487	2	0.243	2	0.391
22991	C11H24	2,2,4,4-tetramethylheptane	61868-44-8	218.07	2	443.15	1	624.72	2	20.00	2	629.5	2	0.2483	2	0.242	2	0.361
22992	C11H24	2,2,4,5-tetramethylheptane	61868-45-9	185.65	2	442.15	1	619.24	2	19.95	2	628.5	2	0.2487	2	0.244	2	0.391
22993	C11H24	2,2,4,6-tetramethylheptane	61868-46-0	185.65	2	435.35	1	609.72	2	19.95	2	628.5	2	0.2487	2	0.247	2	0.391
22994	C11H24	2,2,5,5-tetramethylheptane	61868-47-1	218.07	2	439.15	1	619.08	2	20.00	2	629.5	2	0.2483	2	0.245	2	0.361
22995	C11H24	2,2,5,6-tetramethylheptane	61868-48-2	185.65	2	442.15	1	619.24	2	19.95	2	628.5	2	0.2487	2	0.244	2	0.391
22996	C11H24	2,2,6,6-tetramethylheptane	40117-45-1	218.07	2	436.15	1	614.86	2	20.00	2	629.5	2	0.2483	2	0.246	2	0.361
22997	C11H24	2,3,3,4-tetramethylheptane	61868-49-3	185.65	2	455.15	1	637.45	2	19.95	2	628.5	2	0.2487	2	0.237	2	0.391
22998	C11H24	2,3,3,5-tetramethylheptane	61868-50-6	185.65	2	449.15	1	629.04	2	19.95	2	628.5	2	0.2487	2	0.240	2	0.391
22999	C11H24	2,3,3,6-tetramethylheptane	61868-51-7	185.65	2	448.15	1	627.64	2	19.95	2	628.5	2	0.2487	2	0.240	2	0.391
23000	C11H24	2,3,4,4-tetramethylheptane	61868-52-8	185.65	2	451.15	1	631.84	2	19.95	2	628.5	2	0.2487	2	0.239	2	0.391
23001	C11H24	2,3,4,5-tetramethylheptane	61868-53-9	153.23	2	452.15	1	629.22	2	19.89	2	627.5	2	0.2491	2	0.239	2	0.421
23002	C11H24	2,3,4,6-tetramethylheptane	61868-54-0	153.23	2	447.15	1	622.26	2	19.89	2	627.5	2	0.2491	2	0.241	2	0.421
23003	C11H24	2,3,5,5-tetramethylheptane	61868-55-1	185.65	2	445.15	1	623.44	2	19.95	2	628.5	2	0.2487	2	0.242	2	0.391
23004	C11H24	2,3,5,6-tetramethylheptane	52670-32-3	153.23	2	448.15	1	623.65	2	19.89	2	627.5	2	0.2491	2	0.241	2	0.421
23005	C11H24	2,4,4,5-tetramethylheptane	61868-56-2	185.65	2	447.15	1	626.24	2	19.95	2	628.5	2	0.2487	2	0.241	2	0.391
23006	C11H24	2,4,4,6-tetramethylheptane	61868-57-3	185.65	2	437.15	1	612.24	2	19.95	2	628.5	2	0.2487	2	0.246	2	0.391
23007	C11H24	2,4,5,5-tetramethylheptane	61868-58-4	185.65	2	449.15	1	629.04	2	19.95	2	628.5	2	0.2487	2	0.240	2	0.391
23008	C11H24	3,3,4,4-tetramethylheptane	61868-59-5	218.07	2	457.15	1	644.46	2	20.00	2	629.5	2	0.2483	2	0.235	2	0.361
23009	C11H24	3,3,4,5-tetramethylheptane	61868-60-8	185.65	2	454.15	1	636.04	2	19.95	2	628.5	2	0.2487	2	0.237	2	0.391
23010	C11H24	3,3,5,5-tetramethylheptane	61868-61-9	218.07	2	453.15	1	638.82	2	20.00	2	629.5	2	0.2483	2	0.237	2	0.361
23011	C11H24	3,4,4,5-tetramethylheptane	61868-62-0	185.65	2	458.15	1	641.65	2	19.95	2	628.5	2	0.2487	2	0.235	2	0.391
23012	C11H24	2,2-dimethyl-3-isopropylhexane	61868-63-1	185.65	2	445.15	1	623.44	2	19.95	2	628.5	2	0.2487	2	0.242	2	0.391
23013	C11H24	2,3-dimethyl-3-isopropylhexane	61868-64-2	185.65	2	453.15	1	634.64	2	19.95	2	628.5	2	0.2487	2	0.238	2	0.391
23014	C11H24	2,4-dimethyl-3-isopropylhexane	61868-65-3	153.23	2	448.15	1	623.65	2	19.89	2	627.5	2	0.2491	2	0.241	2	0.421
23015	C11H24	2,5-dimethyl-3-isopropylhexane	61868-66-4	153.23	2	443.15	1	616.70	2	19.89	2	627.5	2	0.2491	2	0.243	2	0.421
23016	C11H24	2-methyl-3,3-diethylhexane	61868-67-5	200.65	2	459.15	1	638.91	2	19.81	2	634.5	2	0.2464	2	0.237	2	0.419
23017	C11H24	2-methyl-3,4-diethylhexane	61868-68-6	168.23	2	452.15	1	625.29	2	19.75	2	633.5	2	0.2467	2	0.241	2	0.449
23018	C11H24	2-methyl-4,4-diethylhexane	61868-69-7	200.65	2	452.15	1	629.17	2	19.81	2	634.5	2	0.2464	2	0.240	2	0.419
23019	C11H24	3-methyl-3,4-diethylhexane	61868-70-0	200.65	2	459.15	1	638.91	2	19.81	2	634.5	2	0.2464	2	0.237	2	0.419
23020	C11H24	3-methyl-4,4-diethylhexane	61868-71-1	200.65	2	463.15	1	644.47	2	19.81	2	634.5	2	0.2464	2	0.235	2	0.419
23021	C11H24	2,2,3-trimethyl-3-ethylhexane	61868-72-2	218.07	2	453.15	1	638.82	2	20.00	2	629.5	2	0.2483	2	0.237	2	0.361
23022	C11H24	2,2,3-trimethyl-4-ethylhexane	61868-73-3	185.65	2	449.15	1	629.04	2	19.95	2	628.5	2	0.2487	2	0.240	2	0.391

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_c, K	code	P_c, bar	code	V_c, ml/mol	code	rho_c, g/ml	code	Z_c	code	omega
23023	C11H24	2,2,4-trimethyl-3-ethylhexane	61868-74-4	185.65	2	448.15	1	627.64	2	19.95	2	628.5	2	0.2487	2	0.240	2	0.391
23024	C11H24	2,2,4-trimethyl-4-ethylhexane	61868-75-5	218.07	2	451.15	1	636.00	2	20.00	2	629.5	2	0.2483	2	0.238	2	0.361
23025	C11H24	2,2,5-trimethyl-3-ethylhexane	61868-76-6	185.65	2	443.15	1	620.64	2	19.95	2	628.5	2	0.2487	2	0.243	2	0.391
23026	C11H24	2,2,5-trimethyl-4-ethylhexane	61868-77-7	185.65	2	439.15	1	615.04	2	19.95	2	628.5	2	0.2487	2	0.245	2	0.391
23027	C11H24	2,3,3-trimethyl-4-ethylhexane	61868-78-8	185.65	2	456.15	1	638.85	2	19.95	2	628.5	2	0.2487	2	0.236	2	0.391
23028	C11H24	2,3,4-trimethyl-3-ethylhexane	61868-79-9	185.65	2	460.15	1	644.45	2	19.95	2	628.5	2	0.2487	2	0.234	2	0.391
23029	C11H24	2,3,4-trimethyl-4-ethylhexane	61868-80-2	185.65	2	453.15	1	634.64	2	19.95	2	628.5	2	0.2487	2	0.238	2	0.391
23030	C11H24	2,3,5-trimethyl-3-ethylhexane	61868-81-3	185.65	2	449.15	1	629.04	2	19.95	2	628.5	2	0.2487	2	0.240	2	0.391
23031	C11H24	2,3,5-trimethyl-4-ethylhexane	61868-82-4	153.23	2	450.15	1	626.44	2	19.89	2	627.5	2	0.2491	2	0.240	2	0.421
23032	C11H24	2,4,4-trimethyl-3-ethylhexane	61868-83-5	185.65	2	451.15	1	631.84	2	19.95	2	628.5	2	0.2487	2	0.239	2	0.391
23033	C11H24	3,3,4-trimethyl-4-ethylhexane	61868-84-6	218.07	2	463.15	1	652.92	2	20.00	2	629.5	2	0.2483	2	0.232	2	0.361
23034	C11H24	2,2,3,3,4-pentamethylhexane	61868-85-7	203.07	2	457.15	1	648.89	2	20.15	2	623.5	2	0.2507	2	0.233	2	0.333
23035	C11H24	2,2,3,3,5-pentamethylhexane	61868-86-8	203.07	2	443.65	1	629.72	2	20.15	2	623.5	2	0.2507	2	0.240	2	0.333
23036	C11H24	2,2,3,4,4-pentamethylhexane	61868-87-9	203.07	2	459.15	1	651.73	2	20.15	2	623.5	2	0.2507	2	0.232	2	0.333
23037	C11H24	2,2,3,4,5-pentamethylhexane	61868-88-0	170.65	2	447.15	1	630.42	2	20.09	2	622.5	2	0.2511	2	0.239	2	0.362
23038	C11H24	2,2,3,5,5-pentamethylhexane	14739-73-2	203.07	2	439.15	1	623.34	2	20.15	2	623.5	2	0.2507	2	0.242	2	0.333
23039	C11H24	2,2,4,4,5-pentamethylhexane	60302-23-0	203.07	2	449.15	1	637.53	2	20.15	2	623.5	2	0.2507	2	0.237	2	0.333
23040	C11H24	2,3,3,4,4-pentamethylhexane	61868-89-1	203.07	2	460.15	1	653.15	2	20.15	2	623.5	2	0.2507	2	0.231	2	0.333
23041	C11H24	2,3,3,4,5-pentamethylhexane	52670-33-4	170.65	2	454.15	1	640.29	2	20.09	2	622.5	2	0.2511	2	0.235	2	0.362
23042	C11H24	2,2,4-trimethyl-3-isopropylpentane	61868-90-4	170.65	2	443.15	1	624.78	2	20.09	2	622.5	2	0.2511	2	0.241	2	0.362
23043	C11H24	2,3,4-trimethyl-3-isopropylpentane	61868-91-5	170.65	2	459.15	1	647.34	2	20.09	2	622.5	2	0.2511	2	0.232	2	0.362
23044	C11H24	2,2-dimethyl-3,3-diethylpentane	60302-28-5	218.07	2	462.15	1	651.51	2	20.00	2	629.5	2	0.2483	2	0.232	2	0.361
23045	C11H24	2,4-dimethyl-3,3-diethylpentane	61868-92-6	185.65	2	462.15	1	647.25	2	19.95	2	628.5	2	0.2487	2	0.233	2	0.391
23046	C11H24	2,2,3,4-tetramethyl-3-ethylpentane	61868-93-7	203.07	2	459.15	1	651.73	2	20.15	2	623.5	2	0.2507	2	0.232	2	0.333
23047	C11H24	2,2,4,4-tetramethyl-3-ethylpentane	---	203.07	2	453.15	1	643.21	2	20.15	2	623.5	2	0.2507	2	0.235	2	0.333
23048	C11H24	2,2,3,3,4,4-hexamethylpentane	60302-27-4	220.49	2	467.15	1	672.56	2	20.35	2	618.5	2	0.2527	2	0.225	2	0.275
23055	C11H24O	1-undecanol	112-42-5	288.45	1	518.15	1	703.60	1	21.47	1	718.0	1	0.2400	1	0.264	1	0.625
23056	C11H24O	2-undecanol	1653-30-1	273.15	1	508.15	1	689.70	2	21.80	2	658.0	2	0.2619	2	0.250	2	0.604
23057	C11H24O	2-undecanol, (±)	113666-64-1	285.15	1	501.15	1	696.85	2	21.30	2	650.5	2	0.2649	2	0.239	2	0.596
23058	C11H24O	3-undecanol, (R)-	107494-37-1	290.15	1	502.15	1	696.85	2	21.30	2	650.5	2	0.2649	2	0.239	2	0.596
23059	C11H24O	5-undecanol	37493-70-2	271.35	1	502.15	1	696.85	2	21.30	2	650.5	2	0.2649	2	0.239	2	0.596
23060	C11H24O	6-undecanol	23708-56-7	298.15	1	501.15	1	696.85	2	21.30	2	650.5	2	0.2649	2	0.239	2	0.596
23061	C11H24O	2,8-dimethyl-5-nonanol	19780-96-2	285.15	2	506.13	2	696.85	2	21.30	2	650.5	2	0.2649	2	0.239	2	0.596
23062	C11H24O	undecanol	30207-98-8	289.05	1	518.15	1	696.85	2	21.30	2	650.5	2	0.2649	2	0.239	2	0.596
23063	C11H24O	5-ethyl-2-nonanol	103-08-2	285.15	2	498.00	1	696.85	2	21.30	2	650.5	2	0.2649	2	0.239	2	0.596
23064	C11H24O	1-methoxydecane	7289-52-3	---	---	506.13	2	640.00	2	19.53	2	645.5	2	0.2670	2	0.237	2	0.656
23065	C11H24O2	1,2-undecanediol	13006-29-6	319.87	2	567.15	2	709.89	2	23.07	2	683.5	2	0.2755	2	0.267	2	1.317
23066	C11H24O2	1,3-undecanediol	6071-32-5	319.87	2	578.15	2	723.65	2	23.07	2	683.5	2	0.2755	2	0.262	2	1.317
23067	C11H24O2	1,4-undecanediol	---	319.87	2	599.15	2	749.94	2	23.07	2	683.5	2	0.2755	2	0.253	2	1.317
23068	C11H24O2	1,11-undecanediol	765-04-8	335.15	1	586.15	2	731.93	2	22.89	2	689.5	2	0.2731	2	0.259	2	1.339
23069	C11H24O2	2,2-dibutyl-1,3-propanediol	24765-57-9	315.15	1	570.00	2	728.85	2	23.03	2	685.0	2	0.2749	2	0.260	2	1.323
23071	C11H24O2	2-(isobutyl-3-methylbutoxy)ethanol	10086-50-7	---	---	553.53	2	690.00	2	21.00	2	711.8	2	0.2646	2	0.261	2	---
23076	C11H24O3	2-(2-(1-ethylamyloxy)ethoxy)ethanol	10138-87-1	---	---	553.53	2	690.00	2	21.00	2	711.8	2	0.2870	2	0.261	2	---
23077	C11H24O3	2-(2-(heptyloxy)ethoxy)ethanol	25961-87-9	---	---	553.53	2	690.00	2	21.00	2	711.8	2	0.2870	2	0.261	2	---
23081.1	C11H24O4	tripropylene glycol monoethyl ether	75899-69-3	256.50	2	525.00	2	664.00	2	20.20	2	704.0	2	0.3129	2	0.258	2	1.161
23084	C11H24S	1-undecanethiol	5332-52-5	270.15	1	530.55	1	710.00	2	19.80	2	676.0	2	0.2787	2	0.227	2	0.639
23085	C11H24S	2-undecanethiol	62155-02-6	239.15	1	520.45	1	706.00	2	20.00	2	692.0	2	0.2722	2	0.236	2	0.563
23086	C11H24S	methyl decyl sulfide	22438-39-7	254.66	2	520.00	2	717.91	2	19.63	2	705.5	2	0.2670	2	0.232	2	0.592
23087	C11H24S	ethyl nonyl sulfide	59973-08-9	254.66	2	520.00	2	717.91	2	19.63	2	705.5	2	0.2670	2	0.232	2	0.592
23088	C11H24S	propyl octyl sulfide	3698-93-9	254.66	2	520.00	2	717.91	2	19.63	2	705.5	2	0.2670	2	0.232	2	0.592
23089	C11H24S	butyl heptyl sulfide	40813-84-1	254.66	2	520.00	2	717.91	2	19.63	2	705.5	2	0.2670	2	0.232	2	0.592
23090	C11H25N	undecylamine	7307-55-3	288.26	1	514.75	1	682.00	2	20.20	2	682.0	2	0.2512	2	0.243	2	0.707
23091	C11H25N	methyldecylamine	7516-82-7	277.15	1	499.35	1	666.60	2	19.90	2	675.0	2	0.2538	2	0.242	2	0.660
23092	C11H25N	ethylnonylamine	66563-84-6	277.15	2	495.15	1	660.80	2	19.70	2	675.0	2	0.2538	2	0.242	2	0.657
23093	C11H25N	dimethylnonylamine	17373-27-2	215.00	2	488.15	1	668.70	2	19.10	2	675.0	2	0.2538	2	0.232	2	0.483
23094	C11H25N	diethylheptylamine	26981-81-7	215.00	2	471.15	1	634.32	2	20.00	2	689.5	2	0.2485	2	0.262	2	0.609
23095	C11H25N	4-ethyl-1-methyloctylamine	10024-78-9	288.26	2	493.99	2	664.56	2	19.66	2	677.9	2	0.2527	2	0.241	2	0.606
23223	C12H6N2O2	1,5-diisocyanatonaphthalene	3173-72-6	403.65	1	603.00	1	818.00	2	27.20	2	635.0	2	0.3310	2	0.254	2	0.730
23261	C12H8	acenaphthylene	208-96-8	362.60	1	543.15	1	792.00	1	32.00	1	544.0	2	0.2798	2	0.264	1,2	0.399
23335	C12H8O	dibenzofuran	132-64-9	355.31	1	558.31	1	824.00	1	36.40	1	495.0	1	0.3398	1	0.263	1	0.399
23344	C12H8O4	2,6-naphthalenedicarboxylic acid	1141-38-4	640.15	1	695.00	2	904.00	2	30.50	2	586.0	2	0.3689	2	0.238	2	1.160
23348	C12H8S	dibenzothiophene	132-65-0	371.82	1	604.61	1	897.00	1	38.60	2	512.0	1	0.3599	1	0.265	1,2	0.398
23394	C12H9N	dibenzopyrrole	86-74-8	517.95	1	627.86	1	899.00	2	32.60	2	482.0	2	0.3469	2	0.210	2	0.494
23437.1	C12H9N3O4	4,4'-dinitrodiphenylamine	1821-27-8	491.05	1	709.00	2	926.00	2	26.20	2	710.0	2	0.3651	2	0.242	2	1.025
23444	C12H10	acenaphthene	83-32-9	366.56	1	550.54	1	803.15	2	31.00	2	553.0	2	0.2789	2	0.257	2	0.381
23445	C12H10	phenylbenzene (biphenyl)	92-52-4	342.20	1	528.15	1	773.00	1	33.80	1	497.0	1	0.3103	1	0.261	1	0.403
23472	C12H10Cl2Si	dichlorodiphenylsilane	80-10-4	251.15	1	577.25	1	814.00	2	23.30	2	674.0	2	0.3757	2	0.232	2	0.428
23500	C12H10N2O2	4-nitro-N-phenylaniline	836-30-6	408.55	1	600.00	2	814.00	2	28.70	2	623.0	2	0.3439	2	0.264	2	0.766
23502	C12H10N2O2	2-nitro-N-phenylaniline	119-75-5	348.15	1	616.00	1	835.00	2	28.70	2	623.0	2	0.3439	2	0.258	2	0.767
23519	C12H10O	diphenyl ether	101-84-8	300.03	1	531.46	1	766.80	1	30.80	2	503.0	2	0.3384	2	0.243	1,2	0.439
23607	C12H11N	p-aminodiphenyl	92-67-1	326.00	1	610.00	1	867.00	2	32.90	2	572.0	2	0.2959	2	0.261	2	0.542
23609	C12H11N	diphenylamine	122-39-4	326.15	1	575.15	1	817.00	2	31.80	2	539.0	2	0.3140	2	0.252	2	0.530
23656	C12H11N3	p-aminoazobenzene	60-09-3	401.00	1	633.00	1	877.00	2	29.00	2	642.0	2	0.3072	2	0.255	2	0.635
23657	C12H11N3	1,3-diphenyltriazene	136-35-6	372.00	1	610.00	1	845.00	2	28.20	2	642.0	2	0.3072	2	0.258	2	0.623
23675	C12H12	1,2-dimethylnaphthalene	573-98-8	272.16	1	539.46	1	775.34	2	30.06	2	521.5	2	0.2996	2	0.243	2	0.443
23676	C12H12	1,3-dimethylnaphthalene	575-41-7	269.16	1	538.36	1	773.76	2	30.06	2	521.5	2	0.2996	2	0.244	2	0.443
23677	C12H12	1,4-dimethylnaphthalene	571-58-4	280.82	1	540.46	1	776.78	2	30.06	2	521.5	2	0.2996	2	0.243	2	0.443
23678	C12H12	1,5-dimethylnaphthalene	571-61-9	355.16	1	538.16	1	773.47	2	30.06	2	521.5	2	0.2996	2	0.244	2	0.443
23679	C12H12	1,6-dimethylnaphthalene	575-43-9	259.16	1	536.16	1	770.60	2	30.06	2	521.5	2	0.2996	2	0.245	2	0.443
23680	C12H12	1,7-dimethylnaphthalene	575-37-1	260.16	1	536.16	1	770.60	2	30.06	2	521.5	2	0.2996	2	0.245	2	0.443

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
23681	C12H12	1,8-dimethylnaphthalene	569-41-5	337.15	1	543.15	1	792.00	1	31.00	1	517.0	1	0.3022	1	0.243	1	0.395
23682	C12H12	2,3-dimethylnaphthalene	581-40-8	378.16	1	541.16	1	777.78	2	30.06	2	521.5	2	0.2996	2	0.242	2	0.443
23683	C12H12	2,6-dimethylnaphthalene	581-42-0	384.55	1	535.15	1	777.00	2	31.70	2	520.0	2	0.3004	2	0.255	2	0.418
23684	C12H12	2,7-dimethylnaphthalene	582-16-1	370.15	1	536.15	1	778.00	2	31.70	2	520.0	2	0.3004	2	0.255	2	0.420
23685	C12H12	1-ethylnaphthalene	1127-76-0	259.34	1	531.48	1	776.00	2	33.20	2	520.0	2	0.3004	2	0.268	2	0.407
23686	C12H12	2-ethylnaphthalene	939-27-5	265.76	1	531.05	1	771.00	2	31.70	2	520.0	2	0.3004	2	0.257	2	0.421
23687	C12H12	dimethylnaphthalene, isomers	28804-88-8	307.53	2	537.28	2	776.35	2	30.52	2	520.8	2	0.3000	2	0.246	2	0.424
23718	C12H12N2	p-aminodiphenylamine	101-54-2	339.15	1	627.15	1	867.00	2	31.90	2	596.0	2	0.3091	2	0.264	2	0.694
23719	C12H12N2	hydrazobenzene	122-66-7	400.50	1	679.00	1	939.00	2	30.90	2	599.9	2	0.3071	2	0.237	2	0.672
23720	C12H12N2	p-benzidine	92-87-5	402.15	1	674.85	1	929.00	2	33.00	2	596.0	2	0.3091	2	0.255	2	0.735
23887	C12H14	1,2,3-trimethylindene	4773-83-5	344.65	1	509.00	1	726.00	2	27.70	2	529.0	2	0.2991	2	0.243	2	0.441
23897	C12H14	2-propyl-1H-indene	92013-11-1	---	---	510.46	2	726.00	2	27.70	2	529.0	2	0.2991	2	0.243	2	0.441
24002	C12H14O4	diethyl phthalate	84-66-2	269.87	1	567.15	1	757.00	2	23.30	2	635.0	2	0.3500	2	0.235	2	0.761
24022.1	C12H14O6	terephthalic acid diethylene glycol ester	959-26-2	385.15	1	683.00	2	846.00	2	24.70	2	656.0	2	0.2199	2	0.230	2	1.604
24111	C12H16	cyclohexylbenzene	827-52-1	280.14	1	513.27	1	744.00	2	28.80	2	529.0	2	0.3029	2	0.246	2	0.378
24112	C12H16	1-ethyl-[1,2,3,4-tetrahydronaphthalene]	13556-58-6	243.57	2	512.72	1	735.44	2	27.73	2	548.5	2	0.2922	2	0.249	2	0.424
24113	C12H16	2-ethyl-[1,2,3,4-tetrahydronaphthalene]	32367-54-7	224.75	1	515.75	1	739.79	2	27.73	2	548.5	2	0.2922	2	0.247	2	0.424
24114	C12H16	5-ethyl-1,2,3,4-tetrahydronaphthalene	42775-75-7	228.65	1	518.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24115	C12H16	6-ethyl-1,2,3,4-tetrahydronaphthalene	22531-20-0	203.15	1	517.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24116	C12H16	1,2,3,4-tetrahydro-1,3-dimethylnaphthalene	5195-37-9	253.92	2	507.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24117	C12H16	1,2,3,4-tetrahydro-1,4-dimethylnaphthalene	4175-54-6	253.92	2	499.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24118	C12H16	1,2,3,4-tetrahydro-1,5-dimethylnaphthalene	21564-91-0	253.92	2	512.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24119	C12H16	1,2,3,4-tetrahydro-2,2-dimethylnaphthalene	13556-55-3	253.92	2	503.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24120	C12H16	1,2,3,4-tetrahydro-2,3-dimethylnaphthalene	21564-92-1	270.65	1	506.74	2	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24121	C12H16	1,2,3,4-tetrahydro-2,5-dimethylnaphthalene	25419-37-8	253.92	2	509.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24122	C12H16	1,2,3,4-tetrahydro-2,6-dimethylnaphthalene	7524-63-2	293.15	1	513.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24123	C12H16	1,2,3,4-tetrahydro-2,7-dimethylnaphthalene	13065-07-1	253.92	2	510.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24124	C12H16	1,2,3,4-tetrahydro-2,8-dimethylnaphthalene	25419-36-7	253.92	2	509.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24125	C12H16	1,2,3,4-tetrahydro-5,6-dimethylnaphthalene	20027-77-4	253.92	2	525.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24126	C12H16	1,2,3,4-tetrahydro-5,7-dimethylnaphthalene	21693-54-9	267.15	1	526.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24127	C12H16	1,2,3,4-tetrahydro-5,8-dimethylnaphthalene	14108-88-4	271.05	1	527.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24128	C12H16	1,2,3,4-tetrahydro-6,7-dimethylnaphthalene	1076-61-5	283.15	1	525.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24129	C12H16	1,2,3,4-tetrahydro-1,1-dimethylnaphthalene	1985-59-7	253.92	2	494.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24130	C12H16	1,2,3,4-tetrahydro-1,2-dimethylnaphthalene	5195-40-4	253.92	2	508.15	1	737.62	2	27.73	2	548.5	2	0.2922	2	0.248	2	0.424
24134	C12H16	2-hexenylbenzene	67590-77-6	242.55	2	506.74	2	723.00	2	25.50	2	586.3	2	0.2733	2	0.249	2	---
24135	C12H16	3-hexenylbenzene	35008-86-7	242.55	2	495.15	1	723.00	2	25.50	2	586.3	2	0.2733	2	0.249	2	---
24136	C12H16	5-hexenylbenzene	1588-44-9	242.55	2	489.15	1	723.00	2	25.50	2	586.3	2	0.2733	2	0.249	2	---
24137	C12H16	p-isopropenylisopropylbenzene	2388-14-9	242.55	1	493.95	1	723.00	2	25.50	2	586.3	2	0.2733	2	0.249	2	---
24138	C12H16	(1-methyl-1-pentenyl)benzene	20247-89-6	242.55	2	496.15	1	723.00	2	25.50	2	586.3	2	0.2733	2	0.249	2	---
24139	C12H16	4-tert-butylstyrene	1746-23-2	236.25	1	500.00	2	709.00	2	24.80	2	594.0	2	0.2698	2	0.250	2	0.422
24139.1	C12H16	4-isobutylstyrene	63444-56-4	---	---	524.00	2	735.00	2	23.80	2	621.0	2	0.2581	2	0.242	2	0.463
24140	C12H16	methylcyclopentadiene dimer	26472-00-4	220.00	1	473.00	1	675.00	2	26.40	2	541.0	2	0.2962	2	0.254	2	0.423
24357	C12H18	hexylbenzene	1077-16-3	212.00	1	499.26	1	698.00	2	23.80	2	593.0	2	0.2737	2	0.243	2	0.479
24358	C12H18	1,4-dipropylbenzene	4815-57-0	249.75	2	481.77	2	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24359	C12H18	diisopropylbenzene	25321-09-9	249.75	2	473.60	1	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24360	C12H18	1,2-diisopropylbenzene	577-55-9	216.15	1	477.15	1	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24361	C12H18	m-diisopropylbenzene	99-62-7	210.02	1	476.33	1	684.00	2	24.50	2	600.0	2	0.2705	2	0.258	2	0.359
24362	C12H18	p-diisopropylbenzene	100-18-5	256.08	1	483.65	1	689.00	2	24.50	2	598.0	2	0.2714	2	0.256	2	0.390
24363	C12H18	triethylbenzene; (mixed isomers)	25340-18-5	249.75	2	490.70	1	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24364	C12H18	1,2,3-triethylbenzene	42205-08-3	206.66	1	490.66	1	684.37	2	23.36	2	599.5	2	0.2707	2	0.246	2	0.479
24365	C12H18	1,2,4-triethylbenzene	877-44-1	195.15	1	491.15	1	684.00	2	23.80	2	600.0	2	0.2705	2	0.251	2	0.501
24366	C12H18	1,3,5-triethylbenzene	102-25-0	206.74	1	489.05	1	678.00	2	23.00	2	593.0	2	0.2737	2	0.242	2	0.508
24367	C12H18	1-tert-butyl-3,5-dimethylbenzene	98-19-1	255.15	1	480.15	1	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24368	C12H18	(1,1-dimethylbutyl)benzene	1985-57-5	249.75	2	478.65	1	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24369	C12H18	2,4-dimethyl-1-sec-butylbenzene	1483-60-9	249.75	2	481.77	2	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24370	C12H18	(1-ethylbutyl)benzene	4468-42-2	217.75	1	482.15	1	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24371	C12H18	(1-ethyl-1-methylpropyl)benzene	1985-97-3	249.75	2	478.15	1	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24372	C12H18	(1-methylpentyl)benzene	6031-02-3	249.75	2	481.15	1	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24373	C12H18	(3-methylpentyl)benzene	54410-69-4	249.75	2	493.15	1	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24374	C12H18	(4-methylpentyl)benzene	4215-86-5	249.75	2	490.15	1	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24375	C12H18	1,2,4-trimethyl-5-isopropylbenzene	10222-95-4	294.15	1	494.15	1	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24376	C12H18	4-tert-butyl-o-xylene	7397-06-0	249.75	2	478.15	1	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24377	C12H18	hexamethyldewarbenzene	7641-77-2	277.00	1	440.00	2	697.15	2	23.61	2	602.0	2	0.2696	2	0.245	2	0.437
24378	C12H18	hexamethylbenzene	87-85-4	438.65	1	536.60	1	758.00	1	27.70	2	593.0	2	0.2737	2	0.261	1,2	0.496
24378.1	C12H18	p-tert-butyl ethylbenzene	7364-19-4	234.80	1	485.25	1	684.00	2	23.80	2	605.0	2	0.2682	2	0.253	2	0.435
24378.2	C12H18	1,5,9-cyclododecatriene	706-31-0	256.35	1	514.65	1	745.00	2	29.90	2	563.0	2	0.2882	2	0.272	2	0.403
24378.3	C12H18	1,2,3-triethylebenzene	42205-08-3	215.00	2	490.70	1	683.00	2	23.80	2	593.0	2	0.2737	2	0.249	2	0.505
24412	C12H18N2O2	isophorone diisocyanate	4098-71-9	213.15	1	562.00	2	765.00	2	25.20	2	667.0	2	0.3333	2	0.264	2	0.666
24433	C12H18O	2-tert-butyl-4,5-dimethylphenol	1445-23-4	319.15	1	531.65	1	755.67	2	27.47	2	598.7	2	0.2982	2	0.262	2	0.590
24434	C12H18O	2-tert-butyl-4,6-dimethylphenol	1879-09-0	295.45	1	522.15	1	755.67	2	27.47	2	598.7	2	0.2982	2	0.262	2	0.590
24435	C12H18O	4-tert-butyl-2,5-dimethylphenol	17696-37-6	344.35	1	537.15	1	755.67	2	27.47	2	598.7	2	0.2982	2	0.262	2	0.590
24436	C12H18O	4-tert-butyl-2,6-dimethylphenol	879-97-0	355.55	1	521.15	1	755.67	2	27.47	2	598.7	2	0.2982	2	0.262	2	0.590
24446	C12H18O	4-(1,1-dimethylpropyl)-2-methylphenol	71745-63-6	288.15	1	533.15	1	755.67	2	27.47	2	598.7	2	0.2982	2	0.262	2	0.590
24447	C12H18O	2,6-dipropylphenol	6626-32-0	300.15	1	529.15	1	755.67	2	27.47	2	598.7	2	0.2982	2	0.262	2	0.590
24448	C12H18O	5-methyl-2-pentylphenol	1300-94-3	297.15	1	524.28	2	755.67	2	27.47	2	598.7	2	0.2982	2	0.262	2	0.590
24451	C12H18O	6-n-amyl-m-cresol	53043-14-4	297.15	1	531.15	1	755.67	2	27.47	2	598.7	2	0.2982	2	0.262	2	0.590
24452	C12H18O	2-tert-butyl-4-ethylphenol	96-70-8	303.15	1	523.15	1	755.67	2	27.47	2	598.7	2	0.2982	2	0.262	2	0.590
24457	C12H18O	3,5-bis(1-methylethyl)phenol	26886-05-5	311.14	2	524.28	2	755.67	2	27.47	2	598.7	2	0.2982	2	0.262	2	0.590
24458	C12H18O	2,4-bis(1-methylethyl)phenol	2934-05-6	311.14	2	524.28	2	755.67	2	27.47	2	598.7	2	0.2982	2	0.262	2	0.590
24461	C12H18O	2-hexylphenol	3226-32-2	311.14	2	524.28	2	755.67	2	27.47	2	598.7	2	0.2982	2	0.262	2	0.590

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
24477.1	C12H18O2	m-diisopropylbenzene hydroperoxide	26762-93-6	---	---	620.00	2	812.00	2	24.60	2	688.0	2	0.2824	2	0.251	2	0.963
24477.2	C12H18O2	p-diisopropylbenzene hydroperoxide	98-49-7	---	---	616.00	2	810.00	2	24.90	2	669.0	2	0.2904	2	0.247	2	0.928
24505	C12H19N	2,6-diisopropylaniline	24544-04-5	228.15	1	530.15	1	710.00	2	25.00	2	626.9	2	0.2828	2	0.266	2	---
24506	C12H19N	N,N-dipropylaniline	2217-07-4	228.15	2	515.15	1	710.00	2	25.00	2	626.9	2	0.2828	2	0.266	2	---
24507	C12H19N	4-tert-butyl-N,N-dimethylaniline	2909-79-7	228.15	2	524.65	1	710.00	2	25.00	2	626.9	2	0.2828	2	0.266	2	---
24508	C12H19N	N,N-diisopropylaniline	4107-98-6	228.15	2	531.28	2	710.00	2	25.00	2	626.9	2	0.2828	2	0.266	2	---
24509	C12H19N	4-hexylaniline	33228-45-4	228.15	2	555.15	1	710.00	2	25.00	2	626.9	2	0.2828	2	0.266	2	---
24531	C12H20	1-dodecen-3-yne	74744-36-8	---	---	471.05	2	655.00	2	22.00	2	630.3	2	0.2606	2	0.255	2	---
24532	C12H20	1,3-dimethyladamantane	702-79-4	247.59	1	476.44	1	708.00	2	30.00	2	570.0	1	0.2882	1	0.291	1,2	0.293
24559	C12H20O	[1,1'-bicyclohexyl]-2-one	90-42-6	241.15	1	537.15	1	787.00	1	27.40	2	569.0	2	0.3169	2	0.238	1,2	0.315
24560	C12H20O	2,5-di-tert-butylfuran	4789-40-6	---	---	483.15	1	670.00	2	26.70	2	558.0	2	0.3231	2	0.267	2	---
24594	C12H20O4	dibutyl maleate	105-76-0	188.15	1	553.15	1	716.00	2	19.00	2	719.0	2	0.3175	2	0.229	2	0.899
24619	C12H20S	3-octylthiophene	65016-62-8	---	---	536.15	2	745.00	2	22.00	2	705.8	2	0.2782	2	0.251	2	---
24652	C12H22	bicyclohexyl	92-51-3	276.78	1	512.19	1	727.00	2	25.60	2	598.0	2	0.2781	2	0.253	2	0.428
24653	C12H22	1-dodecyne	765-03-7	254.16	1	488.16	1	668.16	2	20.25	2	669.5	2	0.2484	2	0.244	2	0.512
24654	C12H22	2-dodecyne	629-49-2	264.15	1	499.15	1	686.26	2	20.47	2	669.5	2	0.2484	2	0.240	2	0.498
24655	C12H22	3-dodecyne	6790-27-8	330.60	2	492.55	1	677.19	2	20.47	2	669.5	2	0.2484	2	0.243	2	0.498
24656	C12H22	6-dodecyne	6975-99-1	282.97	2	483.15	1	677.20	2	20.40	2	669.5	2	0.2484	2	0.243	2	0.503
24657	C12H22	3,3-dimethyl-4-decyne	70732-45-5	282.97	2	500.93	2	677.20	2	20.40	2	669.5	2	0.2484	2	0.243	2	0.503
24658	C12H22	4a-ethyl-cis-decahydronaphthalene	66553-61-5	236.31	2	506.15	1	723.87	2	23.96	2	588.5	2	0.2826	2	0.234	2	0.374
24659	C12H22	4a-ethyl-trans-decahydronaphthalene	66553-62-6	248.92	2	498.15	1	712.43	2	23.96	2	588.5	2	0.2826	2	0.238	2	0.374
24660	C12H22	1-ethyl,cis-decahydronaphthalene	---	236.31	2	533.15	1	762.49	2	23.96	2	588.5	2	0.2826	2	0.222	2	0.374
24661	C12H22	1-ethyl-trans-decahydronaphthalene	---	248.92	2	528.15	1	755.34	2	23.96	2	588.5	2	0.2826	2	0.225	2	0.374
24662	C12H22	2-ethyl-cis-decahydronaphthalene	---	236.31	2	508.15	1	726.73	2	23.96	2	588.5	2	0.2826	2	0.233	2	0.374
24663	C12H22	2-ethyl-trans-decahydronaphthalene	---	248.92	2	501.15	1	716.72	2	23.96	2	588.5	2	0.2826	2	0.237	2	0.374
24664	C12H22	1,4a-dimethyl-cis-decahydronaphthalene	---	219.94	2	493.15	1	707.09	2	23.20	2	587.5	2	0.2831	2	0.232	2	0.349
24665	C12H22	1,4a-dimethyl-trans-decahydronaphthalene	---	232.55	2	486.15	1	697.05	2	23.20	2	587.5	2	0.2831	2	0.235	2	0.349
24666	C12H22	1-heptylcyclopentene	4292-00-6	200.59	2	492.15	1	680.78	2	21.55	2	634.5	2	0.2621	2	0.242	2	0.490
24669	C12H22	1,11-dodecadiene	5876-87-9	---	---	481.65	1	696.00	2	26.00	2	560.2	2	0.2969	2	0.252	2	---
24700	C12H22O2	2-dodecenoic acid	4412-16-2	290.25	1	560.00	2	816.00	2	21.00	2	688.7	2	0.2879	2	0.213	2	---
24701	C12H22O2	4-dodecenoic acid	505-92-0	273.85	1	560.00	2	816.00	2	20.00	2	723.2	2	0.2742	2	0.213	2	---
24702	C12H22O2	5-dodecenoic acid	2761-84-4	273.85	1	560.00	2	816.00	2	20.00	2	723.2	2	0.2742	2	0.213	2	---
24703	C12H22O2	11-dodecenoic acid	65423-25-8	293.15	1	560.00	2	816.00	2	20.00	2	723.2	2	0.2742	2	0.213	2	---
24704	C12H22O2	2-ethylhexyl methacrylate	688-84-6	291.03	2	508.57	2	694.00	2	22.50	2	592.3	2	0.3348	2	0.231	2	---
24708	C12H22O2	methyl 10-undecenoate	111-81-9	245.65	1	521.15	1	694.00	2	21.50	2	619.8	2	0.3199	2	0.231	2	---
24712	C12H22O2	citronellyl acetate	150-84-5	291.03	2	502.15	1	694.00	2	21.50	2	619.8	2	0.3199	2	0.231	2	---
24714	C12H22O2	cis-5-dodecenoic acid	2430-94-6	282.78	2	560.00	2	816.00	2	20.00	2	723.2	2	0.2742	2	0.213	2	---
24716	C12H22O2	menthyl acetate	89-48-5	298.15	1	501.15	1	694.00	2	21.50	2	619.8	2	0.3199	2	0.231	2	---
24717	C12H22O2	(1R)-(-)-neomenthyl acetate	146502-80-9	310.15	1	508.57	2	694.00	2	21.50	2	619.8	2	0.3199	2	0.231	2	---
24718	C12H22O2	(1S)-(+)-neomenthyl acetate	2552-91-2	310.15	1	508.57	2	694.00	2	21.50	2	619.8	2	0.3199	2	0.231	2	---
24722	C12H22O2	vinyl decanoate	4704-31-8	291.03	2	508.57	2	694.00	2	21.50	2	619.8	2	0.3199	2	0.231	2	---
24723	C12H22O2	acetic acid 2-isopropyl-5-methyl-2-hexen-1-yl ester	40853-56-3	282.78	2	560.00	2	816.00	2	20.00	2	723.2	2	0.2742	2	0.213	2	---
24724	C12H22O2	allyl 3,5,5-trimethylhexanoate	71500-21-5	291.03	2	508.57	2	694.00	2	21.50	2	619.8	2	0.3199	2	0.231	2	---
24731	C12H22O2	cis-3-hexenyl caproate	31501-11-8	291.03	2	508.57	2	694.00	2	21.50	2	619.8	2	0.3199	2	0.231	2	---
24774	C12H22O11	sucrose	57-50-1	459.15	1	751.00	2	1086.00	2	26.90	2	761.0	2	0.4498	2	0.227	2	0.365
24782.1	C12H22S	dicyclohexyl sulfide	7133-46-2	283.05	1	559.00	2	802.00	2	26.50	2	707.0	2	0.2806	2	0.281	2	0.396
24787	C12H23Br	cis-1-bromo-1-dodecene	66553-39-7	279.22	2	534.15	1	712.56	2	19.77	2	749.5	2	0.3298	2	0.250	2	0.661
24788	C12H23Br	trans-1-bromo-1-dodecene	66553-40-0	279.22	2	534.15	1	712.56	2	19.77	2	749.5	2	0.3298	2	0.250	2	0.661
24791	C12H23Br3	1,1,1-tribromododecane	62127-69-9	406.32	2	613.15	1	804.01	2	21.75	2	882.5	2	0.4612	2	0.287	2	0.839
24792	C12H23Cl	cis-1-chloro-1-dodecene	66553-41-1	249.34	2	536.15	1	716.62	2	18.03	2	736.5	2	0.2753	2	0.223	2	0.598
24793	C12H23Cl	trans-1-chloro-1-dodecene	66553-42-2	249.34	2	536.15	1	716.62	2	18.03	2	736.5	2	0.2753	2	0.223	2	0.598
24795	C12H23Cl3	1,1,1-trichlorododecane	62108-57-0	316.68	2	570.15	1	751.55	2	16.50	2	843.5	2	0.3244	2	0.223	2	0.638
24796	C12H23F	cis-1-fluoro-1-dodecene	66553-43-3	251.57	2	477.39	2	637.82	2	17.91	2	705.5	2	0.2641	2	0.238	2	0.597
24797	C12H23F	trans-1-fluoro-1-dodecene	66553-44-4	251.57	2	477.39	2	637.82	2	17.91	2	705.5	2	0.2641	2	0.238	2	0.597
24799	C12H23F3	1,1,1-trifluorododecane	764-84-1	323.37	2	481.15	1	638.20	2	16.50	2	742.0	2	0.3023	2	0.231	2	0.597
24800	C12H23I	cis-1-iodo-1-dodecene	66553-45-5	277.48	2	558.15	1	747.98	2	18.26	2	775.5	2	0.3794	2	0.228	2	0.588
24801	C12H23I	trans-1-iodo-1-dodecene	66553-46-6	277.48	2	558.15	1	747.98	2	18.26	2	775.5	2	0.3794	2	0.228	2	0.588
24802	C12H23I3	1,1,1-triiododododecane	---	401.10	2	750.15	2	996.02	2	17.12	2	960.5	2	0.5706	2	0.199	2	0.611
24804	C12H23N	dicyclohexylamine	101-83-7	273.05	1	529.00	1	737.00	2	25.20	2	619.0	2	0.2929	2	0.255	2	0.513
24805	C12H23N	dodecanenitrile	2437-25-4	277.15	1	550.15	1	720.09	2	17.43	2	733.5	2	0.2472	2	0.214	2	0.720
24818	C12H24	heptylcyclopentane	5617-42-5	220.00	1	497.30	1	679.00	1	19.40	1	648.5	2	0.2596	2	0.223	1,2	0.515
24819	C12H24	hexylcyclohexane	4292-75-5	263.60	1	497.86	1	691.81	2	21.33	2	640.5	2	0.2628	2	0.238	2	0.456
24820	C12H24	1-methyl-2-pentylcyclohexane	54411-01-7	263.60	2	490.65	1	691.81	2	21.33	2	640.5	2	0.2628	2	0.238	2	0.456
24821	C12H24	cyclododecane	294-62-2	333.85	1	512.15	1	747.23	2	25.46	2	593.5	2	0.2836	2	0.243	2	0.313
24823	C12H24	1-dodecene	112-41-4	237.93	1	486.50	1	657.60	1	19.30	1	684.0	2	0.2461	2	0.241	1,2	0.571
24823.1	C12H24	cis-2-dodecene	7206-26-0	233.00	2	491.00	2	663.00	2	18.90	2	681.0	2	0.2472	2	0.233	2	0.569
24823.2	C12H24	trans-2-dodecene	7206-13-5	243.00	2	491.00	2	663.00	2	18.90	2	681.0	2	0.2472	2	0.233	2	0.569
24824	C12H24	2-methyl-1-undecene	18516-37-5	232.38	1	484.75	1	656.53	2	18.53	2	689.5	2	0.2441	2	0.234	2	0.532
24825	C12H24	4,4-dimethyl-2-neopentyl-1-pentene	141-70-8	271.55	1	488.99	2	656.77	2	18.72	2	694.8	2	0.2423	2	0.238	2	0.548
24826	C12H24	2,2,4,6,6-pentamethyl-3-heptene	123-48-8	234.75	2	453.70	1	656.77	2	18.72	2	694.8	2	0.2423	2	0.238	2	0.548
24827	C12H24	trans-2,2,4,6,6-pentamethyl-3-heptene	27656-50-4	234.75	2	453.70	2	656.77	2	18.72	2	694.8	2	0.2423	2	0.238	2	0.548
24828	C12H24	isobutene, trimer	7756-94-7	197.15	1	453.15	1	656.77	2	18.72	2	694.8	2	0.2423	2	0.238	2	0.548
24831	C12H24Br2	1,1-dibromododecane	62168-29-0	329.10	2	583.15	1	766.37	2	20.22	2	825.5	2	0.3975	2	0.262	2	0.779
24832	C12H24Br2	1,12-dibromododecane	3344-70-5	314.15	1	583.15	2	766.37	2	20.22	2	825.5	2	0.3975	2	0.262	2	0.779
24833	C12H24Cl2	1,1-dichlorododecane	62017-17-8	269.34	2	556.15	1	733.47	2	16.85	2	799.5	2	0.2992	2	0.221	2	0.647
24834	C12H24Cl2	1,12-dichlorododecane	3922-28-9	302.15	1	572.15	1	733.47	2	16.85	2	799.5	2	0.2992	2	0.221	2	0.647
24838	C12H24F2	1,1-difluorododecane	62127-45-1	273.80	2	492.15	1	656.90	2	16.50	2	728.0	2	0.2834	2	0.220	2	0.557
24839	C12H24I2	1,1-diiododododecane	66553-33-1	325.62	2	659.80	2	874.36	2	17.27	2	877.5	2	0.4811	2	0.209	2	0.629
24852	C12H24O	dodecanal	112-54-9	285.15	1	523.15	1	708.00	2	24.10	2	685.0	2	0.2691	2	0.280	2	0.675
24853	C12H24O	2-methylundecanal	110-41-8	285.15	2	519.25	2	685.00	2	18.60	2	685.0	2	0.2691	2	0.224	2	0.754

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
24854	C12H24O	2-dodecanone	6175-49-1	293.65	1	519.85	1	687.46	2	18.79	2	713.5	2	0.2583	2	0.235	2	0.691
24855	C12H24O	6-dodecanone	6064-27-3	283.15	1	519.25	2	687.46	2	18.79	2	713.5	2	0.2583	2	0.235	2	0.691
24855.1	C12H24O	isobutyl heptyl ketone	123-18-2	198.00	1	491.40	1	658.00	2	19.70	2	680.0	2	0.2711	2	0.245	2	0.649
24856	C12H24O	decyl vinyl ether	765-05-9	232.15	1	489.15	2	686.00	2	21.00	2	672.8	2	0.2739	2	0.248	2	---
24860	C12H24O	trimethyl nonanone	1331-50-6	198.25	1	488.15	1	687.46	2	18.79	2	713.5	2	0.2583	2	0.235	2	0.691
24861	C12H24O	3-dodecanone	1534-27-6	292.58	1	519.25	2	687.46	2	18.79	2	713.5	2	0.2583	2	0.235	2	0.691
24862	C12H24O	5-dodecanone	19780-10-0	282.85	1	519.25	2	687.46	2	18.79	2	713.5	2	0.2583	2	0.235	2	0.691
24863	C12H24O	4-dodecanone	6137-26-4	284.65	1	519.25	2	687.46	2	18.79	2	713.5	2	0.2583	2	0.235	2	0.691
24864	C12H24O	(Z)-7-dodecen-1-ol	20056-92-2	285.00	2	519.25	2	671.00	2	20.00	2	611.2	2	0.3016	2	0.219	2	---
24867	C12H24O2	dodecanoic acid	143-07-7	316.98	1	571.85	1	743.00	2	19.40	2	705.0	2	0.2841	2	0.221	2	0.880
24868	C12H24O2	undecyl formate	5454-24-0	283.20	2	531.48	2	700.00	2	17.40	2	749.0	2	0.2675	2	0.224	2	0.675
24869	C12H24O2	decyl acetate	112-17-4	258.12	1	517.15	1	678.00	2	18.60	2	705.0	2	0.2841	2	0.233	2	0.750
24870	C12H24O2	nonyl propanoate	53184-67-1	266.83	2	532.18	2	693.10	2	16.30	2	751.0	2	0.2667	2	0.212	2	0.716
24871	C12H24O2	octyl butanoate	110-39-4	217.15	1	517.15	1	691.80	2	16.10	2	751.0	2	0.2667	2	0.210	2	0.530
24872	C12H24O2	heptyl pentanoate	5451-80-9	226.75	1	518.35	1	667.00	2	18.93	2	717.3	2	0.2800	2	0.245	2	0.699
24873	C12H24O2	hexyl hexanoate	6378-65-0	218.15	1	519.15	1	667.00	2	18.93	2	717.3	2	0.2800	2	0.245	2	0.699
24874	C12H24O2	pentyl heptanoate	7493-82-5	223.15	1	518.55	1	667.00	2	18.93	2	717.3	2	0.2800	2	0.245	2	0.699
24875	C12H24O2	butyl octanoate	589-75-3	230.25	1	513.65	1	667.00	2	18.93	2	717.3	2	0.2800	2	0.245	2	0.699
24876	C12H24O2	ethyl decanoate	110-38-3	253.15	1	514.65	1	667.00	2	18.93	2	717.3	2	0.2800	2	0.245	2	0.699
24877	C12H24O2	ethyl 3-methylnonanoate	86051-37-8	230.29	2	523.39	2	667.00	2	18.93	2	717.3	2	0.2800	2	0.245	2	0.699
24878	C12H24O2	methyl undecanoate	1731-86-8	230.29	2	523.39	2	667.00	2	18.93	2	717.3	2	0.2800	2	0.245	2	0.699
24879	C12H24O2	2-butyloctanoic acid	27610-92-0	316.90	2	503.15	1	734.00	2	19.40	2	705.0	2	0.2841	2	0.224	2	0.967
24880	C12H24O2	3,7-dimethyloctanyl acetate	20780-49-8	258.12	2	505.00	2	693.80	2	16.70	2	751.0	2	0.2667	2	0.217	2	0.533
24885.1	C12H24O3	2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	77-68-9	261.00	2	524.15	2	662.00	2	21.00	2	723.0	2	0.2992	2	0.276	2	1.050
24892	C12H24S	thiacyclotridecane	295-05-6	294.93	2	555.15	1	808.34	2	25.95	2	631.5	2	0.3173	2	0.244	2	0.329
24894	C12H25Br	1-bromododecane	143-15-7	263.65	1	549.05	1	726.55	2	18.89	2	769.5	2	0.3239	2	0.241	2	0.690
24895	C12H25Br	2-bromododecane	13187-99-0	177.25	1	549.05	2	726.55	2	18.89	2	769.5	2	0.3239	2	0.241	2	0.690
24897	C12H25Cl	1-chlorododecane	112-52-7	263.85	1	536.33	1	711.02	2	17.26	2	756.5	2	0.2707	2	0.221	2	0.626
24899	C12H25F	1-fluorododecane	334-68-9	260.15	1	498.15	1	658.60	2	16.70	2	718.0	2	0.2623	2	0.219	2	0.625
24900	C12H25I	1-iododododecane	4292-19-7	273.45	1	571.35	1	730.57	2	19.82	2	726.5	2	0.4078	2	0.237	2	0.992
24905	C12H25NO2	1-nitrododecane	16891-99-9	368.11	2	570.15	1	740.64	2	17.99	2	789.5	2	0.2728	2	0.231	2	0.796
24914	C12H26	dodecane	112-40-3	263.59	1	489.47	1	658.00	1	18.20	1	716.0	2	0.2379	2	0.238	1,2	0.576
24915	C12H26	3-methylundecane	1002-43-3	215.15	1	483.95	1	655.00	2	18.70	2	693.0	2	0.2458	2	0.238	2	0.552
24916	C12H26	4-methylundecane	2980-69-0	209.50	2	482.15	1	649.36	2	17.92	2	701.5	2	0.2428	2	0.233	2	0.548
24917	C12H26	5-methylundecane	1632-70-8	209.50	2	479.15	1	645.32	2	17.92	2	701.5	2	0.2428	2	0.234	2	0.548
24918	C12H26	6-methylundecane	17302-33-9	209.50	2	479.15	1	645.32	2	17.92	2	701.5	2	0.2428	2	0.234	2	0.548
24919	C12H26	3-ethyldecane	17085-96-0	209.50	2	481.85	1	648.96	2	17.92	2	701.5	2	0.2428	2	0.233	2	0.548
24920	C12H26	4-ethyldecane	1636-44-8	209.50	2	477.15	1	642.63	2	17.92	2	701.5	2	0.2428	2	0.235	2	0.548
24921	C12H26	5-ethyldecane	17302-36-2	209.50	2	475.15	1	639.94	2	17.92	2	701.5	2	0.2428	2	0.236	2	0.548
24922	C12H26	2,2-dimethyldecane	17302-37-3	226.92	2	474.15	1	645.65	2	18.09	2	696.5	2	0.2446	2	0.235	2	0.489
24923	C12H26	2,3-dimethyldecane	17312-44-6	194.50	2	479.15	1	648.85	2	18.05	2	695.5	2	0.2449	2	0.233	2	0.519
24924	C12H26	2,4-dimethyldecane	2801-84-5	194.50	2	473.15	1	640.72	2	18.05	2	695.5	2	0.2449	2	0.236	2	0.519
24925	C12H26	2,5-dimethyldecane	17312-50-4	194.50	2	471.15	1	638.02	2	18.05	2	695.5	2	0.2449	2	0.237	2	0.519
24926	C12H26	2,6-dimethyldecane	13150-81-7	194.50	2	471.15	1	638.02	2	18.05	2	695.5	2	0.2449	2	0.237	2	0.519
24927	C12H26	2,7-dimethyldecane	17312-51-5	194.50	2	475.15	1	643.43	2	18.05	2	695.5	2	0.2449	2	0.235	2	0.519
24928	C12H26	2,8-dimethyldecane	17312-52-6	194.50	2	477.15	1	646.14	2	18.05	2	695.5	2	0.2449	2	0.234	2	0.519
24929	C12H26	2,9-dimethyldecane	1002-17-1	194.50	2	477.15	1	646.14	2	18.05	2	695.5	2	0.2449	2	0.234	2	0.519
24930	C12H26	3,3-dimethyldecane	17302-38-4	226.92	2	476.15	1	648.37	2	18.09	2	696.5	2	0.2446	2	0.234	2	0.489
24931	C12H26	3,4-dimethyldecane	17312-45-7	194.50	2	478.15	1	647.49	2	18.05	2	695.5	2	0.2449	2	0.233	2	0.519
24932	C12H26	3,5-dimethyldecane	17312-48-0	194.50	2	473.15	1	640.72	2	18.05	2	695.5	2	0.2449	2	0.236	2	0.519
24933	C12H26	3,6-dimethyldecane	17312-53-7	194.50	2	474.15	1	642.08	2	18.05	2	695.5	2	0.2449	2	0.235	2	0.519
24934	C12H26	3,7-dimethyldecane	17312-54-8	194.50	2	475.15	1	643.43	2	18.05	2	695.5	2	0.2449	2	0.235	2	0.519
24935	C12H26	3,8-dimethyldecane	17312-55-9	194.50	2	478.15	1	647.49	2	18.05	2	695.5	2	0.2449	2	0.233	2	0.519
24936	C12H26	4,4-dimethyldecane	17312-39-9	226.92	2	472.15	1	642.92	2	18.09	2	696.5	2	0.2446	2	0.236	2	0.489
24937	C12H26	4,5-dimethyldecane	17312-46-8	194.50	2	475.15	1	643.43	2	18.05	2	695.5	2	0.2449	2	0.235	2	0.519
24938	C12H26	4,6-dimethyldecane	17312-49-1	194.50	2	471.15	1	638.02	2	18.05	2	695.5	2	0.2449	2	0.237	2	0.519
24939	C12H26	4,7-dimethyldecane	17312-56-0	194.50	2	472.15	1	639.37	2	18.05	2	695.5	2	0.2449	2	0.236	2	0.519
24940	C12H26	5,5-dimethyldecane	17453-92-8	226.92	2	470.15	1	640.20	2	18.09	2	696.5	2	0.2446	2	0.237	2	0.489
24941	C12H26	5,6-dimethyldecane	1636-43-7	194.50	2	474.15	1	642.08	2	18.05	2	695.5	2	0.2449	2	0.235	2	0.519
24942	C12H26	4-propylnonane	6165-37-3	209.50	2	472.15	1	635.90	2	17.92	2	701.5	2	0.2428	2	0.238	2	0.548
24943	C12H26	5-propylnonane	998-35-6	209.50	2	470.15	1	633.20	2	17.92	2	701.5	2	0.2428	2	0.239	2	0.548
24944	C12H26	4-isopropylnonane	62184-71-8	194.50	2	471.15	1	638.02	2	18.05	2	695.5	2	0.2449	2	0.237	2	0.519
24945	C12H26	5-isopropylnonane	62184-72-9	194.50	2	471.15	1	638.02	2	18.05	2	695.5	2	0.2449	2	0.237	2	0.519
24946	C12H26	2-methyl-3-ethylnonane	62184-73-0	194.50	2	474.15	1	642.08	2	18.05	2	695.5	2	0.2449	2	0.235	2	0.519
24947	C12H26	2-methyl-4-ethylnonane	62184-37-6	194.50	2	471.15	1	638.02	2	18.05	2	695.5	2	0.2449	2	0.237	2	0.519
24948	C12H26	2-methyl-5-ethylnonane	62184-38-7	194.50	2	469.15	1	635.31	2	18.05	2	695.5	2	0.2449	2	0.238	2	0.519
24949	C12H26	2-methyl-6-ethylnonane	62184-39-8	194.50	2	471.15	1	638.02	2	18.05	2	695.5	2	0.2449	2	0.237	2	0.519
24950	C12H26	2-methyl-7-ethylnonane	62184-40-1	194.50	2	475.15	1	643.43	2	18.05	2	695.5	2	0.2449	2	0.235	2	0.519
24951	C12H26	3-methyl-3-ethylnonane	17302-39-5	226.92	2	477.15	1	649.73	2	18.09	2	696.5	2	0.2446	2	0.233	2	0.489
24952	C12H26	3-methyl-4-ethylnonane	62184-41-2	194.50	2	474.15	1	642.08	2	18.05	2	695.5	2	0.2449	2	0.235	2	0.519
24953	C12H26	3-methyl-5-ethylnonane	62184-42-3	194.50	2	468.15	1	633.95	2	18.05	2	695.5	2	0.2449	2	0.238	2	0.519
24954	C12H26	3-methyl-6-ethylnonane	62184-43-4	194.50	2	472.15	1	639.37	2	18.05	2	695.5	2	0.2449	2	0.236	2	0.519
24955	C12H26	3-methyl-7-ethylnonane	62184-44-5	194.50	2	473.15	1	640.72	2	18.05	2	695.5	2	0.2449	2	0.236	2	0.519
24956	C12H26	4-methyl-3-ethylnonane	62184-45-6	194.50	2	473.15	1	640.72	2	18.05	2	695.5	2	0.2449	2	0.236	2	0.519
24957	C12H26	4-methyl-4-ethylnonane	17312-40-2	226.92	2	472.15	1	642.92	2	18.09	2	696.5	2	0.2446	2	0.236	2	0.489
24958	C12H26	4-methyl-5-ethylnonane	62184-46-7	194.50	2	471.15	1	638.02	2	18.05	2	695.5	2	0.2449	2	0.237	2	0.519
24959	C12H26	4-methyl-6-ethylnonane	62184-47-8	194.50	2	469.15	1	635.31	2	18.05	2	695.5	2	0.2449	2	0.238	2	0.519
24960	C12H26	4-methyl-7-ethylnonane	62184-48-9	194.50	2	473.15	1	640.72	2	18.05	2	695.5	2	0.2449	2	0.236	2	0.519
24961	C12H26	5-methyl-3-ethylnonane	62184-49-0	194.50	2	472.15	1	639.37	2	18.05	2	695.5	2	0.2449	2	0.236	2	0.519
24962	C12H26	5-methyl-4-ethylnonane	1632-71-9	194.50	2	472.15	1	639.37	2	18.05	2	695.5	2	0.2449	2	0.236	2	0.519

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
24963	C12H26	5-methyl-5-ethylnonane	14531-16-9	226.92	2	471.15	1	641.56	2	18.09	2	696.5	2	0.2446	2	0.236	2	0.489
24964	C12H26	2,2,3-trimethylnonane	55499-04-2	211.92	2	473.15	1	648.03	2	18.22	2	690.5	2	0.2467	2	0.233	2	0.461
24965	C12H26	2,2,4-trimethylnonane	62184-50-3	211.92	2	464.15	1	635.70	2	18.22	2	690.5	2	0.2467	2	0.238	2	0.461
24966	C12H26	2,2,5-trimethylnonane	62184-51-4	211.92	2	464.15	1	635.70	2	18.22	2	690.5	2	0.2467	2	0.238	2	0.461
24967	C12H26	2,2,6-trimethylnonane	62184-52-5	211.92	2	463.15	1	634.33	2	18.22	2	690.5	2	0.2467	2	0.239	2	0.461
24968	C12H26	2,2,7-trimethylnonane	62184-53-6	211.92	2	468.15	1	641.18	2	18.22	2	690.5	2	0.2467	2	0.236	2	0.461
24969	C12H26	2,2,8-trimethylnonane	62184-54-7	211.92	2	468.15	1	641.18	2	18.22	2	690.5	2	0.2467	2	0.236	2	0.461
24970	C12H26	2,3,3-trimethylnonane	62184-55-8	211.92	2	475.15	1	650.77	2	18.22	2	690.5	2	0.2467	2	0.232	2	0.461
24971	C12H26	2,3,4-trimethylnonane	62184-56-9	179.50	2	473.15	1	644.34	2	18.17	2	689.5	2	0.2470	2	0.234	2	0.491
24972	C12H26	2,3,5-trimethylnonane	62184-57-0	179.50	2	469.15	1	638.89	2	18.17	2	689.5	2	0.2470	2	0.236	2	0.491
24973	C12H26	2,3,6-trimethylnonane	62184-58-1	179.50	2	471.15	1	641.61	2	18.17	2	689.5	2	0.2470	2	0.235	2	0.491
24974	C12H26	2,3,7-trimethylnonane	62184-59-2	179.50	2	474.15	1	645.70	2	18.17	2	689.5	2	0.2470	2	0.233	2	0.491
24975	C12H26	2,3,8-trimethylnonane	62184-60-5	179.50	2	473.15	1	644.34	2	18.17	2	689.5	2	0.2470	2	0.234	2	0.491
24976	C12H26	2,4,4-trimethylnonane	62184-61-6	211.92	2	463.15	1	634.33	2	18.22	2	690.5	2	0.2467	2	0.239	2	0.461
24977	C12H26	2,4,5-trimethylnonane	62184-62-7	179.50	2	468.15	1	637.53	2	18.17	2	689.5	2	0.2470	2	0.236	2	0.491
24978	C12H26	2,4,6-trimethylnonane	62184-10-5	179.50	2	465.15	1	633.44	2	18.17	2	689.5	2	0.2470	2	0.238	2	0.491
24979	C12H26	2,4,7-trimethylnonane	62184-11-6	179.50	2	467.15	1	636.16	2	18.17	2	689.5	2	0.2470	2	0.237	2	0.491
24980	C12H26	2,4,8-trimethylnonane	49542-74-7	179.50	2	464.15	1	632.08	2	18.17	2	689.5	2	0.2470	2	0.238	2	0.491
24981	C12H26	2,5,5-trimethylnonane	62184-12-7	211.92	2	463.15	1	634.33	2	18.22	2	690.5	2	0.2467	2	0.239	2	0.461
24982	C12H26	2,5,6-trimethylnonane	62184-13-8	179.50	2	469.15	1	638.89	2	18.17	2	689.5	2	0.2470	2	0.236	2	0.491
24983	C12H26	2,5,7-trimethylnonane	62184-14-9	179.50	2	467.15	1	636.16	2	18.17	2	689.5	2	0.2470	2	0.237	2	0.491
24984	C12H26	2,5,8-trimethylnonane	49557-09-7	179.50	2	465.15	1	633.44	2	18.17	2	689.5	2	0.2470	2	0.238	2	0.491
24985	C12H26	2,6,6-trimethylnonane	62184-15-0	211.92	2	463.15	1	634.33	2	18.22	2	690.5	2	0.2467	2	0.239	2	0.461
24986	C12H26	2,6,7-trimethylnonane	62184-16-1	179.50	2	472.15	1	642.97	2	18.17	2	689.5	2	0.2470	2	0.234	2	0.491
24987	C12H26	2,7,7-trimethylnonane	62184-17-2	211.92	2	470.15	1	643.92	2	18.22	2	690.5	2	0.2467	2	0.235	2	0.461
24988	C12H26	3,3,4-trimethylnonane	62184-18-3	211.92	2	475.15	1	650.77	2	18.22	2	690.5	2	0.2467	2	0.232	2	0.461
24989	C12H26	3,3,5-trimethylnonane	62184-19-4	211.92	2	463.15	1	634.33	2	18.22	2	690.5	2	0.2467	2	0.239	2	0.461
24990	C12H26	3,3,7-trimethylnonane	62184-21-8	211.92	2	468.15	1	641.18	2	18.22	2	690.5	2	0.2467	2	0.236	2	0.461
24991	C12H26	3,3,6-trimethylnonane	62184-20-7	211.92	2	471.15	1	645.29	2	18.22	2	690.5	2	0.2467	2	0.234	2	0.461
24992	C12H26	3,4,4-trimethylnonane	62184-22-9	211.92	2	473.15	1	648.03	2	18.22	2	690.5	2	0.2467	2	0.233	2	0.461
24993	C12H26	3,4,5-trimethylnonane	62184-23-0	179.50	2	473.15	1	644.34	2	18.17	2	689.5	2	0.2470	2	0.234	2	0.491
24994	C12H26	3,4,6-trimethylnonane	62184-24-1	179.50	2	470.15	1	640.25	2	18.17	2	689.5	2	0.2470	2	0.235	2	0.491
24995	C12H26	3,4,7-trimethylnonane	27802-85-3	179.50	2	473.15	1	644.34	2	18.17	2	689.5	2	0.2470	2	0.234	2	0.491
24996	C12H26	3,5,5-trimethylnonane	62184-25-2	211.92	2	464.15	1	635.70	2	18.22	2	690.5	2	0.2467	2	0.238	2	0.461
24997	C12H26	3,5,6-trimethylnonane	62184-26-3	179.50	2	470.15	1	640.25	2	18.17	2	689.5	2	0.2470	2	0.235	2	0.491
24998	C12H26	3,5,7-trimethylnonane	62184-27-4	179.50	2	468.15	1	637.53	2	18.17	2	689.5	2	0.2470	2	0.236	2	0.491
24999	C12H26	3,6,6-trimethylnonane	62184-28-5	211.92	2	463.15	1	634.33	2	18.22	2	690.5	2	0.2467	2	0.239	2	0.461
25000	C12H26	4,4,5-trimethylnonane	62184-29-6	211.92	2	471.15	1	645.29	2	18.22	2	690.5	2	0.2467	2	0.234	2	0.461
25001	C12H26	4,4,6-trimethylnonane	62184-30-9	211.92	2	464.15	1	635.70	2	18.22	2	690.5	2	0.2467	2	0.238	2	0.461
25002	C12H26	4,5,5-trimethylnonane	62184-31-0	211.92	2	471.15	1	645.29	2	18.22	2	690.5	2	0.2467	2	0.234	2	0.461
25003	C12H26	4,5,6-trimethylnonane	62211-85-2	179.50	2	471.15	1	641.61	2	18.17	2	689.5	2	0.2470	2	0.235	2	0.491
25004	C12H26	4-tert-butyloctane	62184-32-1	211.92	2	464.15	1	635.70	2	18.22	2	690.5	2	0.2467	2	0.238	2	0.461
25005	C12H26	2-methyl-4-propyloctane	62184-33-2	194.50	2	464.15	1	628.54	2	18.05	2	695.5	2	0.2449	2	0.240	2	0.519
25006	C12H26	2-methyl-5-propyloctane	62184-34-3	194.50	2	464.15	1	628.54	2	18.05	2	695.5	2	0.2449	2	0.240	2	0.519
25007	C12H26	3-methyl-4-propyloctane	62184-35-4	194.50	2	470.15	1	636.66	2	18.05	2	695.5	2	0.2449	2	0.237	2	0.519
25008	C12H26	3-methyl-5-propyloctane	62184-36-5	194.50	2	467.15	1	632.60	2	18.05	2	695.5	2	0.2449	2	0.239	2	0.519
25009	C12H26	4-methyl-4-propyloctane	17312-41-3	226.92	2	468.15	1	637.48	2	18.09	2	696.5	2	0.2446	2	0.238	2	0.489
25010	C12H26	4-methyl-5-propyloctane	62183-85-1	194.50	2	469.15	1	635.31	2	18.05	2	695.5	2	0.2449	2	0.238	2	0.519
25011	C12H26	2-methyl-3-isopropyloctane	13287-19-9	179.50	2	469.15	1	638.89	2	18.17	2	689.5	2	0.2470	2	0.236	2	0.491
25012	C12H26	2-methyl-4-isopropyloctane	62183-86-2	179.50	2	463.15	1	630.72	2	18.17	2	689.5	2	0.2470	2	0.239	2	0.491
25013	C12H26	2-methyl-5-isopropyloctane	62183-87-3	179.50	2	464.15	1	632.08	2	18.17	2	689.5	2	0.2470	2	0.238	2	0.491
25014	C12H26	3-methyl-4-isopropyloctane	62183-88-4	179.50	2	468.15	1	637.53	2	18.17	2	689.5	2	0.2470	2	0.236	2	0.491
25015	C12H26	3-methyl-5-isopropyloctane	62183-89-5	179.50	2	465.15	1	633.44	2	18.17	2	689.5	2	0.2470	2	0.238	2	0.491
25016	C12H26	4-methyl-4-isopropyloctane	62183-90-8	211.92	2	471.15	1	645.29	2	18.22	2	690.5	2	0.2467	2	0.234	2	0.461
25017	C12H26	4-methyl-5-isopropyloctane	62183-91-9	179.50	2	467.15	1	636.16	2	18.17	2	689.5	2	0.2470	2	0.237	2	0.491
25018	C12H26	3,3-diethyloctane	17302-40-8	226.92	2	478.15	1	651.09	2	18.09	2	696.5	2	0.2446	2	0.233	2	0.489
25019	C12H26	3,4-diethyloctane	62183-92-0	194.50	2	472.15	1	639.37	2	18.05	2	695.5	2	0.2449	2	0.236	2	0.519
25020	C12H26	3,5-diethyloctane	62183-93-1	194.50	2	470.15	1	636.66	2	18.05	2	695.5	2	0.2449	2	0.237	2	0.519
25021	C12H26	3,6-diethyloctane	62183-94-2	194.50	2	475.15	1	643.43	2	18.05	2	695.5	2	0.2449	2	0.235	2	0.519
25022	C12H26	4,4-diethyloctane	17312-42-4	226.92	2	473.15	1	644.29	2	18.09	2	696.5	2	0.2446	2	0.235	2	0.489
25023	C12H26	4,5-diethyloctane	1636-41-5	194.50	2	470.15	1	636.66	2	18.05	2	695.5	2	0.2449	2	0.237	2	0.519
25024	C12H26	2,2-dimethyl-3-ethyloctane	62183-95-3	211.92	2	469.15	1	642.55	2	18.22	2	690.5	2	0.2467	2	0.235	2	0.461
25025	C12H26	2,2-dimethyl-4-ethyloctane	62183-96-4	211.92	2	460.15	1	630.23	2	18.22	2	690.5	2	0.2467	2	0.240	2	0.461
25026	C12H26	2,2-dimethyl-5-ethyloctane	62183-97-5	211.92	2	462.15	1	632.97	2	18.22	2	690.5	2	0.2467	2	0.239	2	0.461
25027	C12H26	2,2-dimethyl-6-ethyloctane	62183-98-6	211.92	2	466.15	1	638.44	2	18.22	2	690.5	2	0.2467	2	0.237	2	0.461
25028	C12H26	2,3-dimethyl-3-ethyloctane	62183-99-7	211.92	2	475.15	1	650.77	2	18.22	2	690.5	2	0.2467	2	0.232	2	0.461
25029	C12H26	2,3-dimethyl-4-ethyloctane	62184-00-3	179.50	2	470.15	1	640.25	2	18.17	2	689.5	2	0.2470	2	0.235	2	0.491
25030	C12H26	2,3-dimethyl-5-ethyloctane	62184-01-4	179.50	2	467.15	1	636.16	2	18.17	2	689.5	2	0.2470	2	0.237	2	0.491
25031	C12H26	2,3-dimethyl-6-ethyloctane	62184-02-5	179.50	2	472.15	1	642.97	2	18.17	2	689.5	2	0.2470	2	0.234	2	0.491
25032	C12H26	2,4-dimethyl-3-ethyloctane	62184-03-6	179.50	2	470.15	1	640.25	2	18.17	2	689.5	2	0.2470	2	0.235	2	0.491
25033	C12H26	2,4-dimethyl-4-ethyloctane	62184-04-7	211.92	2	464.15	1	635.70	2	18.22	2	690.5	2	0.2467	2	0.238	2	0.461
25034	C12H26	2,4-dimethyl-5-ethyloctane	62184-05-8	179.50	2	466.15	1	634.80	2	18.17	2	689.5	2	0.2470	2	0.237	2	0.491
25035	C12H26	2,4-dimethyl-6-ethyloctane	62184-06-9	179.50	2	465.15	1	633.44	2	18.17	2	689.5	2	0.2470	2	0.238	2	0.491
25036	C12H26	2,5-dimethyl-3-ethyloctane	62184-07-0	179.50	2	467.15	1	636.16	2	18.17	2	689.5	2	0.2470	2	0.237	2	0.491
25037	C12H26	2,5-dimethyl-4-ethyloctane	62184-08-1	179.50	2	465.15	1	633.44	2	18.17	2	689.5	2	0.2470	2	0.238	2	0.491
25038	C12H26	2,5-dimethyl-5-ethyloctane	62184-09-2	211.92	2	466.15	1	638.44	2	18.22	2	690.5	2	0.2467	2	0.237	2	0.461
25039	C12H26	2,5-dimethyl-6-ethyloctane	62183-50-0	179.50	2	470.15	1	640.25	2	18.17	2	689.5	2	0.2470	2	0.235	2	0.491
25040	C12H26	2,6-dimethyl-3-ethyloctane	62183-51-1	179.50	2	470.15	1	640.25	2	18.17	2	689.5	2	0.2470	2	0.235	2	0.491
25041	C12H26	2,6-dimethyl-4-ethyloctane	62183-52-2	179.50	2	463.15	1	630.72	2	18.17	2	689.5	2	0.2470	2	0.239	2	0.491
25042	C12H26	2,6-dimethyl-5-ethyloctane	62183-53-3	179.50	2	468.15	1	637.53	2	18.17	2	689.5	2	0.2470	2	0.236	2	0.491

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
25043	C12H26	2,6-dimethyl-6-ethyloctane	62183-54-4	211.92	2	471.15	1	645.29	2	18.22	2	690.5	2	0.2467	2	0.234	2	0.461
25044	C12H26	2,7-dimethyl-3-ethyloctane	62183-55-5	179.50	2	469.15	1	638.89	2	18.17	2	689.5	2	0.2470	2	0.236	2	0.491
25045	C12H26	2,7-dimethyl-4-ethyloctane	62183-56-6	179.50	2	463.15	1	630.72	2	18.17	2	689.5	2	0.2470	2	0.239	2	0.491
25046	C12H26	3,3-dimethyl-4-ethyloctane	62183-57-7	211.92	2	471.15	1	645.29	2	18.22	2	690.5	2	0.2467	2	0.234	2	0.461
25047	C12H26	3,3-dimethyl-5-ethyloctane	62183-58-8	211.92	2	464.15	1	635.70	2	18.22	2	690.5	2	0.2467	2	0.238	2	0.461
25048	C12H26	3,3-dimethyl-6-ethyloctane	62183-59-9	211.92	2	469.15	1	642.55	2	18.22	2	690.5	2	0.2467	2	0.235	2	0.461
25049	C12H26	3,4-dimethyl-3-ethyloctane	62212-28-6	211.92	2	473.15	1	648.03	2	18.22	2	690.5	2	0.2467	2	0.233	2	0.461
25050	C12H26	3,4-dimethyl-4-ethyloctane	62183-60-2	211.92	2	474.15	1	649.40	2	18.22	2	690.5	2	0.2467	2	0.233	2	0.461
25051	C12H26	3,4-dimethyl-5-ethyloctane	62183-61-3	179.50	2	471.15	1	641.61	2	18.17	2	689.5	2	0.2470	2	0.235	2	0.491
25052	C12H26	3,4-dimethyl-6-ethyloctane	62183-62-4	179.50	2	471.15	1	641.61	2	18.17	2	689.5	2	0.2470	2	0.235	2	0.491
25053	C12H26	3,5-dimethyl-3-ethyloctane	62183-63-5	211.92	2	469.15	1	642.55	2	18.22	2	690.5	2	0.2467	2	0.235	2	0.461
25054	C12H26	3,5-dimethyl-4-ethyloctane	62183-64-6	179.50	2	470.15	1	640.25	2	18.17	2	689.5	2	0.2470	2	0.235	2	0.491
25055	C12H26	3,5-dimethyl-5-ethyloctane	62183-65-7	211.92	2	463.15	1	634.33	2	18.22	2	690.5	2	0.2467	2	0.239	2	0.461
25056	C12H26	3,5-dimethyl-6-ethyloctane	62183-66-8	179.50	2	470.15	1	640.25	2	18.17	2	689.5	2	0.2470	2	0.235	2	0.491
25057	C12H26	3,6-dimethyl-3-ethyloctane	62183-67-9	211.92	2	472.15	1	646.66	2	18.22	2	690.5	2	0.2467	2	0.234	2	0.461
25058	C12H26	3,6-dimethyl-4-ethyloctane	62183-68-0	179.50	2	469.15	1	638.89	2	18.17	2	689.5	2	0.2470	2	0.236	2	0.491
25059	C12H26	4,4-dimethyl-3-ethyloctane	62183-69-1	211.92	2	471.15	1	645.29	2	18.22	2	690.5	2	0.2467	2	0.234	2	0.461
25060	C12H26	4,4-dimethyl-5-ethyloctane	62183-70-4	211.92	2	469.15	1	642.55	2	18.22	2	690.5	2	0.2467	2	0.235	2	0.461
25061	C12H26	4,4-dimethyl-6-ethyloctane	62183-71-5	211.92	2	464.15	1	635.70	2	18.22	2	690.5	2	0.2467	2	0.238	2	0.461
25062	C12H26	4,5-dimethyl-3-ethyloctane	62183-72-6	179.50	2	472.15	1	642.97	2	18.17	2	689.5	2	0.2470	2	0.234	2	0.491
25063	C12H26	4,5-dimethyl-4-ethyloctane	62183-73-7	211.92	2	473.15	1	648.03	2	18.22	2	690.5	2	0.2467	2	0.233	2	0.461
25064	C12H26	2,2,3,3-tetramethyloctane	62183-74-8	229.34	2	473.15	1	655.89	2	18.39	2	685.5	2	0.2485	2	0.231	2	0.403
25065	C12H26	2,2,3,4-tetramethyloctane	62183-75-9	196.92	2	468.15	1	645.03	2	18.34	2	684.5	2	0.2489	2	0.234	2	0.432
25066	C12H26	2,2,3,5-tetramethyloctane	62183-76-0	196.92	2	465.15	1	640.89	2	18.34	2	684.5	2	0.2489	2	0.236	2	0.432
25067	C12H26	2,2,3,6-tetramethyloctane	62183-77-1	196.92	2	467.15	1	643.65	2	18.34	2	684.5	2	0.2489	2	0.235	2	0.432
25068	C12H26	2,2,3,7-tetramethyloctane	62183-78-2	196.92	2	467.15	1	643.65	2	18.34	2	684.5	2	0.2489	2	0.235	2	0.432
25069	C12H26	2,2,4,4-tetramethyloctane	62183-79-3	229.34	2	465.15	1	644.80	2	18.39	2	685.5	2	0.2485	2	0.235	2	0.403
25070	C12H26	2,2,4,5-tetramethyloctane	62183-80-6	196.92	2	460.15	1	634.00	2	18.34	2	684.5	2	0.2489	2	0.238	2	0.432
25071	C12H26	2,2,4,6-tetramethyloctane	62183-81-7	196.92	2	458.15	1	631.25	2	18.34	2	684.5	2	0.2489	2	0.239	2	0.432
25072	C12H26	2,2,4,7-tetramethyloctane	62183-82-8	196.92	2	457.95	1	630.97	2	18.34	2	684.5	2	0.2489	2	0.239	2	0.432
25073	C12H26	2,2,5,5-tetramethyloctane	62183-83-9	229.34	2	457.15	1	633.71	2	18.39	2	685.5	2	0.2485	2	0.239	2	0.403
25074	C12H26	2,2,5,6-tetramethyloctane	62183-84-0	196.92	2	463.15	1	638.14	2	18.34	2	684.5	2	0.2489	2	0.237	2	0.432
25075	C12H26	2,2,5,7-tetramethyloctane	62199-19-3	196.92	2	458.15	1	631.25	2	18.34	2	684.5	2	0.2489	2	0.239	2	0.432
25076	C12H26	2,2,6,6-tetramethyloctane	62199-20-6	229.34	2	458.15	1	635.10	2	18.39	2	685.5	2	0.2485	2	0.239	2	0.403
25077	C12H26	2,2,6,7-tetramethyloctane	62199-21-7	196.92	2	464.15	1	639.52	2	18.34	2	684.5	2	0.2489	2	0.236	2	0.432
25078	C12H26	2,2,7,7-tetramethyloctane	1071-31-4	229.34	2	458.15	1	635.10	2	18.39	2	685.5	2	0.2485	2	0.239	2	0.403
25079	C12H26	2,3,3,4-tetramethyloctane	62199-22-8	196.92	2	474.15	1	653.29	2	18.34	2	684.5	2	0.2489	2	0.231	2	0.432
25080	C12H26	2,3,3,5-tetramethyloctane	62199-23-9	196.92	2	467.15	1	643.65	2	18.34	2	684.5	2	0.2489	2	0.235	2	0.432
25081	C12H26	2,3,3,6-tetramethyloctane	62199-24-0	196.92	2	469.15	1	646.41	2	18.34	2	684.5	2	0.2489	2	0.234	2	0.432
25082	C12H26	2,3,3,7-tetramethyloctane	62199-25-1	196.92	2	469.15	1	646.41	2	18.34	2	684.5	2	0.2489	2	0.234	2	0.432
25083	C12H26	2,3,4,4-tetramethyloctane	62199-26-2	196.92	2	469.15	1	646.41	2	18.34	2	684.5	2	0.2489	2	0.234	2	0.432
25084	C12H26	2,3,4,5-tetramethyloctane	62199-27-3	164.50	2	470.15	1	643.97	2	18.29	2	683.5	2	0.2492	2	0.234	2	0.462
25085	C12H26	2,3,4,6-tetramethyloctane	62199-28-4	164.50	2	468.15	1	641.23	2	18.29	2	683.5	2	0.2492	2	0.235	2	0.462
25086	C12H26	2,3,4,7-tetramethyloctane	62199-29-5	164.50	2	467.15	1	639.86	2	18.29	2	683.5	2	0.2492	2	0.235	2	0.462
25087	C12H26	2,3,5,5-tetramethyloctane	62199-30-8	196.92	2	468.15	1	645.03	2	18.34	2	684.5	2	0.2489	2	0.234	2	0.432
25088	C12H26	2,3,5,6-tetramethyloctane	62199-31-9	164.50	2	468.15	1	641.23	2	18.29	2	683.5	2	0.2492	2	0.235	2	0.462
25089	C12H26	2,3,5,7-tetramethyloctane	62199-32-0	164.50	2	463.15	1	634.39	2	18.29	2	683.5	2	0.2492	2	0.237	2	0.462
25090	C12H26	2,3,6,6-tetramethyloctane	62199-33-1	196.92	2	466.15	1	642.27	2	18.34	2	684.5	2	0.2489	2	0.235	2	0.432
25091	C12H26	2,3,6,7-tetramethyloctane	52670-34-5	164.50	2	469.15	1	642.60	2	18.29	2	683.5	2	0.2492	2	0.234	2	0.462
25092	C12H26	2,4,4,5-tetramethyloctane	62199-34-2	196.92	2	464.15	1	639.52	2	18.34	2	684.5	2	0.2489	2	0.236	2	0.432
25093	C12H26	2,4,4,6-tetramethyloctane	62199-35-3	196.92	2	458.15	1	631.25	2	18.34	2	684.5	2	0.2489	2	0.239	2	0.432
25094	C12H26	2,4,4,7-tetramethyloctane	35866-96-7	196.92	2	457.15	1	629.87	2	18.34	2	684.5	2	0.2489	2	0.240	2	0.432
25095	C12H26	2,4,5,5-tetramethyloctane	62199-36-4	196.92	2	465.15	1	640.89	2	18.34	2	684.5	2	0.2489	2	0.236	2	0.432
25096	C12H26	2,4,5,6-tetramethyloctane	62199-37-5	164.50	2	467.15	1	639.86	2	18.29	2	683.5	2	0.2492	2	0.235	2	0.462
25097	C12H26	2,4,5,7-tetramethyloctane	2217-17-6	164.50	2	459.45	1	629.32	2	18.29	2	683.5	2	0.2492	2	0.239	2	0.462
25098	C12H26	2,4,6,6-tetramethyloctane	62199-38-6	196.92	2	460.15	1	634.00	2	18.34	2	684.5	2	0.2489	2	0.238	2	0.432
25099	C12H26	2,5,5,6-tetramethyloctane	62199-39-7	196.92	2	467.15	1	643.65	2	18.34	2	684.5	2	0.2489	2	0.235	2	0.432
25100	C12H26	2,5,6,6-tetramethyloctane	62199-40-0	196.92	2	469.15	1	646.41	2	18.34	2	684.5	2	0.2489	2	0.234	2	0.432
25101	C12H26	3,3,4,4-tetramethyloctane	62199-41-1	229.34	2	475.15	1	658.66	2	18.39	2	685.5	2	0.2485	2	0.230	2	0.403
25102	C12H26	3,3,4,5-tetramethyloctane	62199-42-2	196.92	2	471.15	1	649.16	2	18.34	2	684.5	2	0.2489	2	0.233	2	0.432
25103	C12H26	3,3,4,6-tetramethyloctane	62199-43-3	196.92	2	469.15	1	646.41	2	18.34	2	684.5	2	0.2489	2	0.234	2	0.432
25104	C12H26	3,3,5,5-tetramethyloctane	62199-44-4	229.34	2	470.15	1	651.73	2	18.39	2	685.5	2	0.2485	2	0.233	2	0.403
25105	C12H26	3,3,5,6-tetramethyloctane	62199-45-5	196.92	2	466.15	1	642.27	2	18.34	2	684.5	2	0.2489	2	0.235	2	0.432
25106	C12H26	3,3,6,6-tetramethyloctane	62199-46-6	199.87	1	462.85	1	641.61	2	18.39	2	685.5	2	0.2485	2	0.236	2	0.403
25107	C12H26	3,4,4,5-tetramethyloctane	62199-47-7	196.92	2	474.15	1	653.29	2	18.34	2	684.5	2	0.2489	2	0.231	2	0.432
25108	C12H26	3,4,4,6-tetramethyloctane	62185-19-7	196.92	2	468.15	1	645.03	2	18.34	2	684.5	2	0.2489	2	0.234	2	0.432
25109	C12H26	3,4,5,5-tetramethyloctane	62185-20-0	196.92	2	470.15	1	647.78	2	18.34	2	684.5	2	0.2489	2	0.233	2	0.432
25110	C12H26	3,4,5,6-tetramethyloctane	62185-21-1	164.50	2	472.15	1	646.71	2	18.29	2	683.5	2	0.2492	2	0.233	2	0.462
25111	C12H26	4,4,5,5-tetramethyloctane	62185-22-2	229.34	2	473.15	1	655.89	2	18.39	2	685.5	2	0.2485	2	0.231	2	0.403
25112	C12H26	2-methyl-4-tert-butylheptane	62185-23-3	196.92	2	458.15	1	631.25	2	18.34	2	684.5	2	0.2489	2	0.239	2	0.432
25113	C12H26	3-methyl-4-tert-butylheptane	62185-24-4	196.92	2	463.15	1	638.14	2	18.34	2	684.5	2	0.2489	2	0.237	2	0.432
25114	C12H26	4-methyl-4-tert-butylheptane	62185-25-5	229.34	2	471.15	1	653.12	2	18.39	2	685.5	2	0.2485	2	0.232	2	0.403
25115	C12H26	3-ethyl-4-propylheptane	62185-26-6	194.50	2	469.15	1	635.31	2	18.05	2	695.5	2	0.2449	2	0.238	2	0.519
25116	C12H26	4-ethyl-4-propylheptane	17312-43-5	226.92	2	470.15	1	640.20	2	18.09	2	696.5	2	0.2446	2	0.237	2	0.489
25117	C12H26	3-ethyl-4-isopropylheptane	62185-27-7	179.50	2	468.15	1	637.53	2	18.17	2	689.5	2	0.2470	2	0.236	2	0.491
25118	C12H26	4-ethyl-4-isopropylheptane	62185-28-8	211.92	2	473.15	1	648.03	2	18.22	2	690.5	2	0.2467	2	0.233	2	0.461
25119	C12H26	2,2-dimethyl-4-propylheptane	---	211.92	2	457.15	1	626.12	2	18.22	2	690.5	2	0.2467	2	0.242	2	0.461
25120	C12H26	2,3-dimethyl-4-propylheptane	62185-30-2	179.50	2	467.15	1	636.16	2	18.17	2	689.5	2	0.2470	2	0.237	2	0.491
25121	C12H26	2,4-dimethyl-4-propylheptane	62185-31-3	211.92	2	462.15	1	632.97	2	18.22	2	690.5	2	0.2467	2	0.239	2	0.461
25122	C12H26	2,5-dimethyl-4-propylheptane	62185-32-4	179.50	2	463.15	1	630.72	2	18.17	2	689.5	2	0.2470	2	0.239	2	0.491

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
25123	C12H26	2,6-dimethyl-4-propylheptane	62185-33-5	179.50	2	457.75	1	623.36	2	18.17	2	689.5	2	0.2470	2	0.242	2	0.491
25124	C12H26	3,3-dimethyl-4-propylheptane	62185-34-6	211.92	2	469.15	1	642.55	2	18.22	2	690.5	2	0.2467	2	0.235	2	0.461
25125	C12H26	3,4-dimethyl-4-propylheptane	62185-35-7	211.92	2	471.15	1	645.29	2	18.22	2	690.5	2	0.2467	2	0.234	2	0.461
25126	C12H26	3,5-dimethyl-4-propylheptane	62185-36-8	179.50	2	469.15	1	638.89	2	18.17	2	689.5	2	0.2470	2	0.236	2	0.491
25127	C12H26	2,2-dimethyl-3-isopropylheptane	62185-37-9	196.92	2	463.15	1	638.14	2	18.34	2	684.5	2	0.2489	2	0.237	2	0.432
25128	C12H26	2,2-dimethyl-4-isopropylheptane	62185-38-0	196.92	2	455.15	1	627.12	2	18.34	2	684.5	2	0.2489	2	0.241	2	0.432
25129	C12H26	2,3-dimethyl-3-isopropylheptane	62185-39-1	196.92	2	474.15	1	653.29	2	18.34	2	684.5	2	0.2489	2	0.231	2	0.432
25130	C12H26	2,3-dimethyl-4-isopropylheptane	62185-40-4	164.50	2	465.15	1	637.13	2	18.29	2	683.5	2	0.2492	2	0.236	2	0.462
25131	C12H26	2,4-dimethyl-3-isopropylheptane	62185-41-5	164.50	2	465.15	1	637.13	2	18.29	2	683.5	2	0.2492	2	0.236	2	0.462
25132	C12H26	2,4-dimethyl-4-isopropylheptane	62185-42-6	196.92	2	465.15	1	640.89	2	18.34	2	684.5	2	0.2489	2	0.236	2	0.432
25133	C12H26	2,5-dimethyl-3-isopropylheptane	62185-43-7	164.50	2	463.15	1	634.39	2	18.29	2	683.5	2	0.2492	2	0.237	2	0.462
25134	C12H26	2,5-dimethyl-4-isopropylheptane	62185-44-8	164.50	2	462.15	1	633.02	2	18.29	2	683.5	2	0.2492	2	0.238	2	0.462
25135	C12H26	2,6-dimethyl-3-isopropylheptane	62185-45-9	164.50	2	463.95	1	635.48	2	18.29	2	683.5	2	0.2492	2	0.237	2	0.462
25136	C12H26	2,6-dimethyl-4-isopropylheptane	35866-89-8	164.50	2	456.15	1	624.80	2	18.29	2	683.5	2	0.2492	2	0.241	2	0.462
25137	C12H26	3,3-dimethyl-4-isopropylheptane	62185-46-0	196.92	2	467.15	1	643.65	2	18.34	2	684.5	2	0.2489	2	0.235	2	0.432
25138	C12H26	3,4-dimethyl-4-isopropylheptane	62185-47-1	196.92	2	474.15	1	653.29	2	18.34	2	684.5	2	0.2489	2	0.231	2	0.432
25139	C12H26	3,5-dimethyl-4-isopropylheptane	62198-89-4	164.50	2	467.15	1	639.86	2	18.29	2	683.5	2	0.2492	2	0.235	2	0.462
25140	C12H26	2-methyl-3,3-diethylheptane	62198-90-7	211.92	2	476.15	1	652.14	2	18.22	2	690.5	2	0.2467	2	0.232	2	0.461
25141	C12H26	2-methyl-3,4-diethylheptane	62198-91-8	179.50	2	468.15	1	637.53	2	18.17	2	689.5	2	0.2470	2	0.236	2	0.491
25142	C12H26	2-methyl-3,5-diethylheptane	62198-92-9	179.50	2	468.15	1	637.53	2	18.17	2	689.5	2	0.2470	2	0.236	2	0.491
25143	C12H26	2-methyl-4,4-diethylheptane	62198-93-0	211.92	2	467.15	1	639.81	2	18.22	2	690.5	2	0.2467	2	0.236	2	0.461
25144	C12H26	2-methyl-4,5-diethylheptane	62198-94-1	179.50	2	466.15	1	634.80	2	18.17	2	689.5	2	0.2470	2	0.237	2	0.491
25145	C12H26	2-methyl-5,5-diethylheptane	62198-95-2	211.92	2	471.15	1	645.29	2	18.22	2	690.5	2	0.2467	2	0.234	2	0.461
25146	C12H26	3-methyl-3,4-diethylheptane	62198-96-3	211.92	2	474.15	1	649.40	2	18.22	2	690.5	2	0.2467	2	0.233	2	0.461
25147	C12H26	3-methyl-3,5-diethylheptane	62198-97-4	211.92	2	470.15	1	643.92	2	18.22	2	690.5	2	0.2467	2	0.235	2	0.461
25148	C12H26	3-methyl-4,4-diethylheptane	62198-98-5	211.92	2	477.15	1	653.51	2	18.22	2	690.5	2	0.2467	2	0.232	2	0.461
25149	C12H26	3-methyl-4,5-diethylheptane	62198-99-6	179.50	2	471.15	1	641.61	2	18.17	2	689.5	2	0.2470	2	0.235	2	0.491
25150	C12H26	3-methyl-5,5-diethylheptane	62199-00-2	211.92	2	472.15	1	646.66	2	18.22	2	690.5	2	0.2467	2	0.234	2	0.461
25151	C12H26	4-methyl-3,3-diethylheptane	62199-01-3	211.92	2	478.15	1	654.88	2	18.22	2	690.5	2	0.2467	2	0.231	2	0.461
25152	C12H26	4-methyl-3,4-diethylheptane	62199-02-4	211.92	2	474.15	1	649.40	2	18.22	2	690.5	2	0.2467	2	0.233	2	0.461
25153	C12H26	4-methyl-3,5-diethylheptane	62199-03-5	179.50	2	473.15	1	644.34	2	18.17	2	689.5	2	0.2470	2	0.234	2	0.491
25154	C12H26	2,2,3-trimethyl-3-ethylheptane	62199-04-6	229.34	2	473.15	1	655.89	2	18.39	2	685.5	2	0.2485	2	0.231	2	0.403
25155	C12H26	2,2,3-trimethyl-4-ethylheptane	62199-05-7	196.92	2	466.15	1	642.27	2	18.34	2	684.5	2	0.2489	2	0.235	2	0.432
25156	C12H26	2,2,3-trimethyl-5-ethylheptane	62199-06-8	196.92	2	465.15	1	640.89	2	18.34	2	684.5	2	0.2489	2	0.236	2	0.432
25157	C12H26	2,2,4-trimethyl-3-ethylheptane	62199-07-9	196.92	2	465.15	1	640.89	2	18.34	2	684.5	2	0.2489	2	0.236	2	0.432
25158	C12H26	2,2,4-trimethyl-4-ethylheptane	62199-08-0	229.34	2	467.15	1	647.57	2	18.39	2	685.5	2	0.2485	2	0.234	2	0.403
25159	C12H26	2,2,4-trimethyl-5-ethylheptane	62199-09-1	196.92	2	460.15	1	634.00	2	18.34	2	684.5	2	0.2489	2	0.238	2	0.432
25160	C12H26	2,2,5-trimethyl-3-ethylheptane	62199-10-4	196.92	2	463.15	1	638.14	2	18.34	2	684.5	2	0.2489	2	0.237	2	0.432
25161	C12H26	2,2,5-trimethyl-4-ethylheptane	62199-11-5	196.92	2	459.15	1	632.63	2	18.34	2	684.5	2	0.2489	2	0.239	2	0.432
25162	C12H26	2,2,5-trimethyl-5-ethylheptane	62199-12-6	229.34	2	462.15	1	640.64	2	18.39	2	685.5	2	0.2485	2	0.237	2	0.403
25163	C12H26	2,2,6-trimethyl-3-ethylheptane	62199-13-7	196.92	2	463.15	1	638.14	2	18.34	2	684.5	2	0.2489	2	0.237	2	0.432
25164	C12H26	2,2,6-trimethyl-4-ethylheptane	62199-14-8	196.92	2	453.15	1	624.36	2	18.34	2	684.5	2	0.2489	2	0.242	2	0.432
25165	C12H26	2,2,6-trimethyl-5-ethylheptane	62199-15-9	196.92	2	460.15	1	634.00	2	18.34	2	684.5	2	0.2489	2	0.238	2	0.432
25166	C12H26	2,3,3-trimethyl-4-ethylheptane	62199-16-0	196.92	2	472.15	1	650.54	2	18.34	2	684.5	2	0.2489	2	0.232	2	0.432
25167	C12H26	2,3,3-trimethyl-5-ethylheptane	62199-17-1	196.92	2	467.15	1	643.65	2	18.34	2	684.5	2	0.2489	2	0.235	2	0.432
25168	C12H26	2,3,4-trimethyl-3-ethylheptane	62199-18-2	196.92	2	476.15	1	656.05	2	18.34	2	684.5	2	0.2489	2	0.230	2	0.432
25169	C12H26	2,3,4-trimethyl-4-ethylheptane	62198-55-4	196.92	2	471.15	1	649.16	2	18.34	2	684.5	2	0.2489	2	0.233	2	0.432
25170	C12H26	2,3,4-trimethyl-5-ethylheptane	62198-56-5	164.50	2	470.15	1	643.97	2	18.29	2	683.5	2	0.2492	2	0.234	2	0.462
25171	C12H26	2,3,5-trimethyl-3-ethylheptane	62198-57-6	196.92	2	470.65	1	648.47	2	18.34	2	684.5	2	0.2489	2	0.233	2	0.432
25172	C12H26	2,3,5-trimethyl-4-ethylheptane	62198-58-7	164.50	2	469.15	1	642.60	2	18.29	2	683.5	2	0.2492	2	0.234	2	0.462
25173	C12H26	2,3,5-trimethyl-5-ethylheptane	62198-59-8	196.92	2	467.15	1	643.65	2	18.34	2	684.5	2	0.2489	2	0.235	2	0.432
25174	C12H26	2,3,6-trimethyl-3-ethylheptane	62198-60-1	196.92	2	469.15	1	646.41	2	18.34	2	684.5	2	0.2489	2	0.234	2	0.432
25175	C12H26	2,3,6-trimethyl-4-ethylheptane	62198-61-2	164.50	2	463.15	1	634.39	2	18.29	2	683.5	2	0.2492	2	0.237	2	0.462
25176	C12H26	2,3,6-trimethyl-5-ethylheptane	62198-62-3	164.50	2	466.15	1	638.50	2	18.29	2	683.5	2	0.2492	2	0.236	2	0.462
25177	C12H26	2,4,4-trimethyl-3-ethylheptane	62198-63-4	196.92	2	467.15	1	643.65	2	18.34	2	684.5	2	0.2489	2	0.235	2	0.432
25178	C12H26	2,4,4-trimethyl-5-ethylheptane	62198-64-5	196.92	2	465.15	1	640.89	2	18.34	2	684.5	2	0.2489	2	0.236	2	0.432
25179	C12H26	2,4,5-trimethyl-3-ethylheptane	62198-65-6	164.50	2	469.15	1	642.60	2	18.29	2	683.5	2	0.2492	2	0.234	2	0.462
25180	C12H26	2,4,5-trimethyl-4-ethylheptane	62198-66-7	196.92	2	468.15	1	645.03	2	18.34	2	684.5	2	0.2489	2	0.234	2	0.432
25181	C12H26	2,4,5-trimethyl-5-ethylheptane	62198-67-8	196.92	2	470.15	1	647.78	2	18.34	2	684.5	2	0.2489	2	0.233	2	0.432
25182	C12H26	2,4,6-trimethyl-3-ethylheptane	62198-68-9	164.50	2	464.15	1	635.76	2	18.29	2	683.5	2	0.2492	2	0.237	2	0.462
25183	C12H26	2,4,6-trimethyl-4-ethylheptane	62198-69-0	196.92	2	458.15	1	631.25	2	18.34	2	684.5	2	0.2489	2	0.239	2	0.432
25184	C12H26	2,5,5-trimethyl-3-ethylheptane	62198-70-3	196.92	2	463.15	1	638.14	2	18.34	2	684.5	2	0.2489	2	0.237	2	0.432
25185	C12H26	2,5,5-trimethyl-4-ethylheptane	62198-71-4	196.92	2	465.15	1	640.89	2	18.34	2	684.5	2	0.2489	2	0.236	2	0.432
25186	C12H26	3,3,4-trimethyl-4-ethylheptane	62198-72-5	229.34	2	478.15	1	662.82	2	18.39	2	685.5	2	0.2485	2	0.229	2	0.403
25187	C12H26	3,3,4-trimethyl-5-ethylheptane	62198-73-6	196.92	2	472.15	1	650.54	2	18.34	2	684.5	2	0.2489	2	0.232	2	0.432
25188	C12H26	3,3,5-trimethyl-4-ethylheptane	62198-74-7	196.92	2	470.15	1	647.78	2	18.34	2	684.5	2	0.2489	2	0.233	2	0.432
25189	C12H26	3,3,5-trimethyl-5-ethylheptane	62198-75-8	229.34	2	475.15	1	658.66	2	18.39	2	685.5	2	0.2485	2	0.230	2	0.403
25190	C12H26	3,4,4-trimethyl-3-ethylheptane	62198-76-9	229.34	2	478.15	1	662.82	2	18.39	2	685.5	2	0.2485	2	0.229	2	0.403
25191	C12H26	3,4,4-trimethyl-5-ethylheptane	62198-77-0	196.92	2	475.15	1	654.67	2	18.34	2	684.5	2	0.2489	2	0.231	2	0.432
25192	C12H26	3,4,5-trimethyl-3-ethylheptane	62198-78-1	196.92	2	475.15	1	654.67	2	18.34	2	684.5	2	0.2489	2	0.231	2	0.432
25193	C12H26	3,4,5-trimethyl-4-ethylheptane	62198-79-2	196.92	2	478.15	1	658.81	2	18.34	2	684.5	2	0.2489	2	0.229	2	0.432
25194	C12H26	2,2,3,3,4-pentamethylheptane	62198-80-5	214.34	2	473.15	1	660.06	2	18.52	2	679.5	2	0.2507	2	0.229	2	0.375
25195	C12H26	2,2,3,3,5-pentamethylheptane	62198-81-6	214.34	2	467.15	1	651.69	2	18.52	2	679.5	2	0.2507	2	0.232	2	0.375
25196	C12H26	2,2,3,3,6-pentamethylheptane	62198-82-7	214.34	2	466.15	1	650.30	2	18.52	2	679.5	2	0.2507	2	0.233	2	0.375
25197	C12H26	2,2,3,4,4-pentamethylheptane	62198-83-8	214.34	2	475.15	1	662.85	2	18.52	2	679.5	2	0.2507	2	0.228	2	0.375
25198	C12H26	2,2,3,4,5-pentamethylheptane	62198-84-9	181.92	2	467.15	1	647.63	2	18.47	2	678.5	2	0.2511	2	0.233	2	0.404
25199	C12H26	2,2,3,4,6-pentamethylheptane	62198-85-0	181.92	2	461.15	1	639.31	2	18.47	2	678.5	2	0.2511	2	0.236	2	0.404
25200	C12H26	2,2,3,5,5-pentamethylheptane	62198-86-1	214.34	2	460.15	1	641.93	2	18.52	2	679.5	2	0.2507	2	0.236	2	0.375
25201	C12H26	2,2,3,5,6-pentamethylheptane	62198-87-2	181.92	2	461.95	1	640.42	2	18.47	2	678.5	2	0.2511	2	0.235	2	0.404
25202	C12H26	2,2,3,6,6-pentamethylheptane	62198-88-3	214.34	2	458.15	1	639.14	2	18.52	2	679.5	2	0.2507	2	0.237	2	0.375

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
25203	C12H26	2,2,4,4,5-pentamethylheptane	62199-61-5	214.34	2	469.15	1	654.48	2	18.52	2	679.5	2	0.2507	2	0.231	2	0.375
25204	C12H26	2,2,4,4,6-pentamethylheptane	62199-62-6	214.34	2	458.75	1	639.98	2	18.52	2	679.5	2	0.2507	2	0.236	2	0.375
25205	C12H26	2,2,4,5,5-pentamethylheptane	62199-63-7	214.34	2	459.15	1	640.53	2	18.52	2	679.5	2	0.2507	2	0.236	2	0.375
25206	C12H26	2,2,4,5,6-pentamethylheptane	62199-64-8	181.92	2	458.15	1	635.15	2	18.47	2	678.5	2	0.2511	2	0.237	2	0.404
25207	C12H26	2,2,4,6,6-pentamethylheptane	13475-82-6	206.15	1	451.10	1	629.30	2	18.52	2	679.5	2	0.2507	2	0.240	2	0.375
25208	C12H26	2,2,5,5,6-pentamethylheptane	62199-65-9	214.34	2	459.15	1	640.53	2	18.52	2	679.5	2	0.2507	2	0.236	2	0.375
25209	C12H26	2,3,3,4,4-pentamethylheptane	62199-66-0	214.34	2	476.15	1	664.25	2	18.52	2	679.5	2	0.2507	2	0.228	2	0.375
25210	C12H26	2,3,3,4,5-pentamethylheptane	62199-67-1	181.92	2	473.15	1	655.95	2	18.47	2	678.5	2	0.2511	2	0.230	2	0.404
25211	C12H26	2,3,3,4,6-pentamethylheptane	62199-68-2	181.92	2	468.15	1	649.01	2	18.47	2	678.5	2	0.2511	2	0.232	2	0.404
25212	C12H26	2,3,3,5,5-pentamethylheptane	62199-69-3	214.34	2	473.15	1	660.06	2	18.52	2	679.5	2	0.2507	2	0.229	2	0.375
25213	C12H26	2,3,3,5,6-pentamethylheptane	52670-35-6	181.92	2	465.15	1	644.85	2	18.47	2	678.5	2	0.2511	2	0.234	2	0.404
25214	C12H26	2,3,4,4,5-pentamethylheptane	62199-70-6	181.92	2	473.15	1	655.95	2	18.47	2	678.5	2	0.2511	2	0.230	2	0.404
25215	C12H26	2,3,4,4,6-pentamethylheptane	62199-71-7	181.92	2	463.15	1	642.08	2	18.47	2	678.5	2	0.2511	2	0.235	2	0.404
25216	C12H26	2,3,4,5,5-pentamethylheptane	62199-72-8	181.92	2	470.15	1	651.79	2	18.47	2	678.5	2	0.2511	2	0.231	2	0.404
25217	C12H26	2,3,4,5,6-pentamethylheptane	27574-98-7	149.50	2	468.15	1	645.08	2	18.42	2	677.5	2	0.2514	2	0.233	2	0.434
25218	C12H26	2,4,4,5,5-pentamethylheptane	62199-73-9	214.34	2	469.15	1	654.48	2	18.52	2	679.5	2	0.2507	2	0.231	2	0.375
25219	C12H26	3,3,4,4,5-pentamethylheptane	62199-74-0	214.34	2	479.15	1	668.43	2	18.52	2	679.5	2	0.2507	2	0.226	2	0.375
25220	C12H26	3,3,4,5,5-pentamethylheptane	62199-75-1	214.34	2	482.15	1	672.62	2	18.52	2	679.5	2	0.2507	2	0.225	2	0.375
25221	C12H26	2,2-dimethyl-3-tert-butylhexane	62199-76-2	214.34	2	469.15	1	654.48	2	18.52	2	679.5	2	0.2507	2	0.231	2	0.375
25222	C12H26	2-methyl-3-ethyl-3-isopropylhexane	62199-77-3	211.92	2	473.15	1	648.03	2	18.22	2	690.5	2	0.2467	2	0.233	2	0.461
25223	C12H26	2-methyl-4-ethyl-3-isopropylhexane	62199-78-4	179.50	2	463.15	1	630.72	2	18.17	2	689.5	2	0.2470	2	0.239	2	0.491
25224	C12H26	2,2,3-trimethyl-3-isopropylhexane	62199-79-5	214.34	2	474.15	1	661.46	2	18.52	2	679.5	2	0.2507	2	0.229	2	0.375
25225	C12H26	2,2,4-trimethyl-3-isopropylhexane	62199-80-8	181.92	2	462.15	1	640.70	2	18.47	2	678.5	2	0.2511	2	0.235	2	0.404
25226	C12H26	2,2,5-trimethyl-3-isopropylhexane	62199-81-9	181.92	2	453.15	1	628.22	2	18.47	2	678.5	2	0.2511	2	0.240	2	0.404
25227	C12H26	2,2,5-trimethyl-4-isopropylhexane	62199-82-0	181.92	2	453.15	1	628.22	2	18.47	2	678.5	2	0.2511	2	0.240	2	0.404
25228	C12H26	2,3,4-trimethyl-3-isopropylhexane	62199-83-1	181.92	2	477.15	1	661.49	2	18.47	2	678.5	2	0.2511	2	0.228	2	0.404
25229	C12H26	2,3,5-trimethyl-3-isopropylhexane	62199-84-2	181.92	2	467.15	1	647.63	2	18.47	2	678.5	2	0.2511	2	0.233	2	0.404
25230	C12H26	2,3,5-trimethyl-4-isopropylhexane	62199-85-3	149.50	2	463.15	1	638.19	2	18.42	2	677.5	2	0.2514	2	0.235	2	0.434
25231	C12H26	2,4,4-trimethyl-3-isopropylhexane	62199-86-4	181.92	2	465.15	1	644.85	2	18.47	2	678.5	2	0.2511	2	0.234	2	0.404
25232	C12H26	3,3,4-triethylhexane	62199-87-5	211.92	2	479.15	1	656.25	2	18.22	2	690.5	2	0.2467	2	0.231	2	0.461
25233	C12H26	2,2-dimethyl,3,3-diethylhexane	62199-88-6	229.34	2	473.15	1	655.89	2	18.39	2	685.5	2	0.2485	2	0.231	2	0.403
25234	C12H26	2,2-dimethyl-3,4-diethylhexane	62199-89-7	196.92	2	463.15	1	638.14	2	18.34	2	684.5	2	0.2489	2	0.237	2	0.432
25235	C12H26	2,2-dimethyl-4,4-diethylhexane	62184-89-8	229.34	2	473.15	1	655.89	2	18.39	2	685.5	2	0.2485	2	0.231	2	0.403
25236	C12H26	2,3-dimethyl-3,4-diethylhexane	62184-90-1	196.92	2	477.15	1	657.43	2	18.34	2	684.5	2	0.2489	2	0.230	2	0.432
25237	C12H26	2,3-dimethyl-4,4-diethylhexane	62184-91-2	196.92	2	477.15	1	657.43	2	18.34	2	684.5	2	0.2489	2	0.230	2	0.432
25238	C12H26	2,4-dimethyl-3,3-diethylhexane	62184-92-3	196.92	2	473.15	1	651.92	2	18.34	2	684.5	2	0.2489	2	0.232	2	0.432
25239	C12H26	2,4-dimethyl-3,4-diethylhexane	62184-93-4	196.92	2	473.15	1	651.92	2	18.34	2	684.5	2	0.2489	2	0.232	2	0.432
25240	C12H26	2,5-dimethyl-3,3-diethylhexane	62184-94-5	196.92	2	463.15	1	638.14	2	18.34	2	684.5	2	0.2489	2	0.237	2	0.432
25241	C12H26	2,5-dimethyl-3,4-diethylhexane	62184-95-6	164.50	2	463.15	1	634.39	2	18.29	2	683.5	2	0.2492	2	0.237	2	0.462
25242	C12H26	3,3-dimethyl-4,4-diethylhexane	62184-96-7	229.34	2	483.15	1	669.75	2	18.39	2	685.5	2	0.2485	2	0.226	2	0.403
25243	C12H26	3,4-dimethyl-3,4-diethylhexane	62184-97-8	229.34	2	483.15	1	669.75	2	18.39	2	685.5	2	0.2485	2	0.226	2	0.403
25244	C12H26	2,2,3,3-tetramethyl-4-ethylhexane	62184-98-9	214.34	2	474.15	1	661.46	2	18.52	2	679.5	2	0.2507	2	0.229	2	0.375
25245	C12H26	2,2,3,4-tetramethyl-3-ethylhexane	62184-99-0	214.34	2	477.15	1	665.64	2	18.52	2	679.5	2	0.2507	2	0.227	2	0.375
25246	C12H26	2,2,3,4-tetramethyl-4-ethylhexane	62185-00-6	214.34	2	481.15	1	671.22	2	18.52	2	679.5	2	0.2507	2	0.225	2	0.375
25247	C12H26	2,2,3,5-tetramethyl-3-ethylhexane	62185-01-7	214.34	2	467.15	1	651.69	2	18.52	2	679.5	2	0.2507	2	0.232	2	0.375
25248	C12H26	2,2,3,5-tetramethyl-4-ethylhexane	62185-02-8	181.92	2	464.15	1	643.47	2	18.47	2	678.5	2	0.2511	2	0.234	2	0.404
25249	C12H26	2,2,4,4-tetramethyl-3-ethylhexane	62185-03-9	214.34	2	473.15	1	660.06	2	18.52	2	679.5	2	0.2507	2	0.229	2	0.375
25250	C12H26	2,2,4,5-tetramethyl-3-ethylhexane	62185-04-0	181.92	2	463.15	1	642.08	2	18.47	2	678.5	2	0.2511	2	0.235	2	0.404
25251	C12H26	2,2,4,5-tetramethyl-4-ethylhexane	62185-05-1	214.34	2	470.15	1	655.88	2	18.52	2	679.5	2	0.2507	2	0.231	2	0.375
25252	C12H26	2,2,5,5-tetramethyl-3-ethylhexane	62185-06-2	214.34	2	453.15	1	632.16	2	18.52	2	679.5	2	0.2507	2	0.239	2	0.375
25253	C12H26	2,3,3,4-tetramethyl-4-ethylhexane	62185-07-3	214.34	2	481.15	1	671.22	2	18.52	2	679.5	2	0.2507	2	0.225	2	0.375
25254	C12H26	2,3,3,5-tetramethyl-4-ethylhexane	62185-08-4	181.92	2	470.15	1	651.79	2	18.47	2	678.5	2	0.2511	2	0.231	2	0.404
25255	C12H26	2,3,4,4-tetramethyl-3-ethylhexane	62185-09-5	214.34	2	481.15	1	671.22	2	18.52	2	679.5	2	0.2507	2	0.225	2	0.375
25256	C12H26	2,3,4,5-tetramethyl-3-ethylhexane	62185-10-8	181.92	2	474.15	1	657.33	2	18.47	2	678.5	2	0.2511	2	0.229	2	0.404
25257	C12H26	2,2,3,3,4,4-hexamethylhexane	62185-11-9	231.76	2	489.15	1	691.43	2	18.69	2	674.5	2	0.2525	2	0.219	2	0.318
25258	C12H26	2,2,3,3,4,5-hexamethylhexane	62185-12-0	199.34	2	472.15	1	662.99	2	18.64	2	673.5	2	0.2529	2	0.228	2	0.347
25259	C12H26	2,2,3,3,5,5-hexamethylhexane	60302-24-1	231.76	2	468.15	1	661.75	2	18.69	2	674.5	2	0.2525	2	0.229	2	0.318
25260	C12H26	2,2,3,4,4,5-hexamethylhexane	62185-13-1	199.34	2	479.15	1	672.82	2	18.64	2	673.5	2	0.2529	2	0.224	2	0.347
25261	C12H26	2,2,3,4,5,5-hexamethylhexane	62185-14-2	199.34	2	463.15	1	650.35	2	18.64	2	673.5	2	0.2529	2	0.232	2	0.347
25262	C12H26	2,3,3,4,4,5-hexamethylhexane	52670-36-7	199.34	2	479.15	1	672.82	2	18.64	2	673.5	2	0.2529	2	0.224	2	0.347
25263	C12H26	2,4-dimethyl-3-ethyl-3-isopropylpentane	62185-16-4	181.92	2	479.15	1	664.26	2	18.47	2	678.5	2	0.2511	2	0.227	2	0.404
25264	C12H26	2,2,4-trimethyl-3,3-diethylpentane	62185-15-3	214.34	2	479.15	1	668.43	2	18.52	2	679.5	2	0.2507	2	0.226	2	0.375
25265	C12H26	2,2,3,4-tetramethyl-3-isopropylpentane	62185-17-5	199.34	2	477.15	1	670.01	2	18.64	2	673.5	2	0.2529	2	0.225	2	0.347
25266	C12H26	2,2,4,4-tetramethyl-3-isopropylpentane	62185-18-6	199.34	2	467.15	1	655.97	2	18.64	2	673.5	2	0.2529	2	0.230	2	0.347
25267	C12H26	2,2,3,4,4-pentamethyl-3-ethylpentane	66576-21-4	231.76	2	487.15	1	688.61	2	18.69	2	674.5	2	0.2525	2	0.220	2	0.318
25268	C12H26	2-methylundecane	7045-71-8	227.00	1	484.00	2	650.71	2	17.92	2	701.5	2	0.2428	2	0.232	2	0.548
25277	C12H26O	1-dodecanol	112-53-8	296.95	1	536.95	1	719.40	1	19.94	1	716.0	2	0.2602	2	0.239	1,2	0.666
25278	C12H26O	2-dodecanol	10203-28-8	292.15	1	525.15	1	704.80	2	20.10	2	713.0	2	0.2613	2	0.245	2	0.631
25279	C12H26O	3-dodecanol	10203-30-2	298.15	1	512.53	2	712.90	2	19.70	2	704.5	2	0.2645	2	0.234	2	0.635
25280	C12H26O	6-dodecanol	6836-38-0	303.15	1	498.15	1	712.90	2	19.70	2	704.5	2	0.2645	2	0.234	2	0.635
25281	C12H26O	2-methyl-1-undecanol	10522-26-6	280.73	2	512.53	2	712.90	2	19.70	2	704.5	2	0.2645	2	0.234	2	0.635
25282	C12H26O	2-methyl-3-undecanol	60671-36-5	280.73	2	512.53	2	712.90	2	19.70	2	704.5	2	0.2645	2	0.234	2	0.635
25283	C12H26O	2-methyl-5-undecanol	33978-71-1	280.73	2	512.53	2	712.90	2	19.70	2	704.5	2	0.2645	2	0.234	2	0.635
25284	C12H26O	2-butyl-1-octanol	3913-02-8	280.73	2	519.65	1	712.90	2	19.70	2	704.5	2	0.2645	2	0.234	2	0.635
25285	C12H26O	dihexyl ether	112-58-3	230.15	1	498.85	1	658.00	2	18.16	2	698.0	2	0.2670	2	0.232	2	0.711
25286	C12H26O	2,6,8-trimethylnonanol-4	123-17-1	213.25	1	498.40	1	712.90	2	19.70	2	704.5	2	0.2645	2	0.234	2	0.635
25287	C12H26O2	1,2-dodecanediol	1119-87-5	334.15	1	581.15	2	723.16	2	21.08	2	739.5	2	0.2736	2	0.259	2	1.318
25288	C12H26O2	1,3-dodecanediol	39516-24-0	331.14	2	592.15	2	736.85	2	21.08	2	739.5	2	0.2736	2	0.254	2	1.318
25289	C12H26O2	1,4-dodecanediol	38146-95-1	320.15	1	613.15	2	762.98	2	21.08	2	739.5	2	0.2736	2	0.246	2	1.318
25290	C12H26O2	1,12-dodecanediol	5675-51-4	352.35	1	600.15	2	745.30	2	20.93	2	745.5	2	0.2714	2	0.252	2	1.336

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
25291	C12H26O2	(R)-1,2-dodecanediol	85514-84-7	336.29	2	596.65	2	742.07	2	21.04	2	741.0	2	0.2731	2	0.253	2	1.322
25292	C12H26O2	(S)-1,2-dodecanediol	85514-85-8	343.65	1	596.65	2	742.07	2	21.04	2	741.0	2	0.2731	2	0.253	2	1.322
25294	C12H26O3	diethylene glycol dibutyl ether	112-73-2	212.95	1	529.15	1	680.00	2	17.60	2	803.0	2	0.2719	2	0.250	2	0.846
25310	C12H26S	1-dodecanethiol	112-55-0	265.15	1	547.75	1	724.00	2	18.40	2	729.0	2	0.2776	2	0.223	2	0.666
25311	C12H26S	2-dodecanethiol	14402-50-7	256.15	1	538.35	1	720.00	2	18.00	2	747.0	2	0.2710	2	0.225	2	0.593
25312	C12H26S	dihexyl sulfide	6294-31-1	259.16	2	503.15	1	733.68	2	18.06	2	761.5	2	0.2658	2	0.225	2	0.631
25313	C12H26S	methyl undecyl sulfide	7289-44-3	259.16	2	537.00	2	733.68	2	18.06	2	761.5	2	0.2658	2	0.225	2	0.631
25314	C12H26S	ethyl decyl sulfide	19313-61-2	259.16	2	537.00	2	733.68	2	18.06	2	761.5	2	0.2658	2	0.225	2	0.631
25315	C12H26S	propyl nonyl sulfide	62103-66-6	259.16	2	537.00	2	733.68	2	18.06	2	761.5	2	0.2658	2	0.225	2	0.631
25316	C12H26S	butyl octyl sulfide	16900-07-5	259.16	2	537.00	2	733.68	2	18.06	2	761.5	2	0.2658	2	0.225	2	0.631
25317	C12H26S	tert-dodecylmercaptan	25103-58-6	265.75	1	515.65	1	691.00	2	18.60	2	771.0	2	0.2625	2	0.250	2	0.610
25318	C12H26S2	dihexyl disulfide	10496-15-8	225.16	1	566.66	1	747.10	2	18.33	2	815.5	2	0.2875	2	0.241	2	0.692
25327	C12H27BO3	tributyl borate	688-74-4	203.15	1	506.65	1	743.15	2	19.89	2	863.0	2	0.2667	2	0.278	2	0.189
25340	C12H27N	dodecylamine	124-22-1	301.47	1	532.35	1	696.00	2	18.80	2	735.0	2	0.2522	2	0.239	2	0.764
25341	C12H27N	methylundecylamine	66553-53-5	260.09	2	517.15	1	682.30	2	18.30	2	730.0	2	0.2539	2	0.235	2	0.692
25342	C12H27N	ethyldecylamine	66553-52-4	260.09	2	514.15	1	677.70	2	18.20	2	730.0	2	0.2539	2	0.236	2	0.696
25343	C12H27N	dihexylamine	143-16-8	260.09	1	512.95	1	678.20	2	18.70	2	732.0	2	0.2532	2	0.243	2	0.690
25344	C12H27N	dimethyldecylamine	1120-24-7	229.15	1	508.15	1	685.30	2	17.80	2	730.0	2	0.2539	2	0.228	2	0.536
25345	C12H27N	diethyloctylamine	4088-37-3	227.83	2	486.15	1	645.88	2	18.39	2	745.5	2	0.2486	2	0.255	2	0.648
25346	C12H27N	tributylamine	102-82-9	203.00	1	487.15	1	644.00	2	18.00	2	735.0	2	0.2522	2	0.247	2	0.694
25347	C12H27N	triisobutylamine	1116-40-1	251.35	1	464.65	1	672.77	2	18.31	2	733.9	2	0.2526	2	0.240	2	0.675
25348	C12H27NO	N,N-diisopentylethanolamine	3574-43-4	---	---	521.15	1	820.00	2	24.00	2	714.9	2	0.2816	2	0.252	2	---
25420	C12H36O4Si5	dodecamethylpentasiloxane	141-63-9	192.00	1	503.00	1	628.40	1	9.45	1	1509.0	1	0.2550	1	0.273	1	0.726
25421	C12H36O4Si5	tetrakis(trimethylsilyloxy)silane	3555-47-3	270.15	1	518.15	1	645.80	2	9.61	2	1610.0	2	0.2390	2	0.288	2	0.746
25537	C13H9N	acridine	260-94-6	383.24	1	619.15	1	905.00	2	36.40	2	543.0	2	0.3301	2	0.263	2	0.438
25575	C13H10	fluorene	86-73-7	387.94	1	570.44	1	826.00	2	30.00	2	524.0	2	0.3172	2	0.229	2	0.404
25623	C13H10O	benzophenone	119-61-9	321.35	1	579.24	1	830.00	1	33.52	2	567.7	1	0.3210	1	0.276	1,2	0.502
25738	C13H12	diphenylmethane	101-81-5	298.39	1	537.42	1	760.00	1	27.10	1	563.0	1	0.2988	1	0.241	1	0.482
25739	C13H12	1-methylbiphenyl	28652-72-4	273.15	1	528.45	1	775.80	2	35.20	2	538.0	2	0.3127	2	0.294	2	0.417
25740	C13H12	3-methylbiphenyl	643-93-6	277.85	1	545.85	1	801.00	2	35.20	2	538.0	2	0.3127	2	0.284	2	0.418
25741	C13H12	4-methylbiphenyl	644-08-6	321.15	1	543.15	1	793.40	2	35.20	2	538.0	2	0.3127	2	0.287	2	0.439
25742	C13H12	2-methylbiphenyl	643-58-3	272.95	1	528.65	1	790.07	2	35.20	2	538.0	2	0.3127	2	0.288	2	0.425
25745	C13H12	methylbiphenyl	28652-72-4	297.20	1	536.65	1	790.07	2	35.20	2	538.0	2	0.3127	2	0.288	2	0.425
25903	C13H14	1-propylnaphthalene	2765-18-6	264.55	1	545.96	1	782.00	2	29.70	2	520.0	2	0.3274	2	0.238	2	0.455
25904	C13H14	2-propylnaphthalene	2027-19-2	270.16	1	546.66	1	772.44	2	27.56	2	577.5	2	0.2948	2	0.248	2	0.488
25905	C13H14	1-isopropylnaphthalene	6158-45-8	257.61	1	540.94	1	769.66	2	27.79	2	571.5	2	0.2979	2	0.248	2	0.463
25906	C13H14	2-isopropylnaphthalene	2027-17-0	288.31	1	541.35	1	770.24	2	27.79	2	571.5	2	0.2979	2	0.248	2	0.463
25907	C13H14	1-methyl-2-ethylnaphthalene	25607-16-3	338.14	2	549.15	1	775.02	2	27.13	2	577.5	2	0.2948	2	0.243	2	0.493
25908	C13H14	1-methyl-3-ethylnaphthalene	17179-41-8	338.14	2	546.15	1	770.78	2	27.13	2	577.5	2	0.2948	2	0.244	2	0.493
25909	C13H14	1-methyl-4-ethylnaphthalene	27424-87-9	338.14	2	547.15	1	772.19	2	27.13	2	577.5	2	0.2948	2	0.244	2	0.493
25910	C13H14	1-methyl-5-ethylnaphthalene	17057-92-0	313.15	1	543.15	1	766.55	2	27.13	2	577.5	2	0.2948	2	0.246	2	0.493
25911	C13H14	1-methyl-6-ethylnaphthalene	17059-53-9	338.14	2	546.15	1	770.78	2	27.13	2	577.5	2	0.2948	2	0.244	2	0.493
25912	C13H14	1-methyl-7-ethylnaphthalene	2451-00-5	370.15	1	544.15	1	767.96	2	27.13	2	577.5	2	0.2948	2	0.245	2	0.493
25913	C13H14	1-methyl-8-ethylnaphthalene	61886-71-3	338.14	2	548.15	1	773.61	2	27.13	2	577.5	2	0.2948	2	0.244	2	0.493
25914	C13H14	2-methyl-1-ethylnaphthalene	---	338.14	2	546.15	1	770.78	2	27.13	2	577.5	2	0.2948	2	0.244	2	0.493
25915	C13H14	2-methyl-3-ethylnaphthalene	31032-94-7	344.16	1	550.16	1	776.44	2	27.13	2	577.5	2	0.2948	2	0.243	2	0.488
25916	C13H14	2-methyl-4-ethylnaphthalene	17057-94-2	338.14	2	547.15	1	772.19	2	27.13	2	577.5	2	0.2948	2	0.244	2	0.493
25917	C13H14	2-methyl-5-ethylnaphthalene	---	338.14	2	543.15	1	766.55	2	27.13	2	577.5	2	0.2948	2	0.246	2	0.493
25918	C13H14	2-methyl-6-ethylnaphthalene	7372-86-3	318.16	1	543.16	1	766.56	2	27.13	2	577.5	2	0.2948	2	0.246	2	0.488
25919	C13H14	2-methyl-7-ethylnaphthalene	17059-55-1	318.16	1	543.16	1	766.56	2	27.13	2	577.5	2	0.2948	2	0.246	2	0.488
25920	C13H14	2-methyl-8-ethylnaphthalene	---	338.14	2	543.15	1	766.55	2	27.13	2	577.5	2	0.2948	2	0.246	2	0.493
25921	C13H14	1,2,3-trimethylnaphthalene	879-12-9	301.15	1	556.15	1	783.95	2	26.71	2	577.5	2	0.2948	2	0.237	2	0.492
25922	C13H14	1,2,4-trimethylnaphthalene	2717-42-2	325.15	1	555.15	1	782.54	2	26.71	2	577.5	2	0.2948	2	0.237	2	0.492
25923	C13H14	1,2,5-trimethylnaphthalene	641-91-8	306.65	1	553.15	1	779.72	2	26.71	2	577.5	2	0.2948	2	0.238	2	0.492
25924	C13H14	1,2,6-trimethylnaphthalene	3031-05-8	287.15	1	553.15	1	779.72	2	26.71	2	577.5	2	0.2948	2	0.238	2	0.492
25925	C13H14	1,2,7-trimethylnaphthalene	486-34-0	416.15	1	551.15	1	776.90	2	26.71	2	577.5	2	0.2948	2	0.239	2	0.492
25926	C13H14	1,2,8-trimethylnaphthalene	3876-97-9	417.15	1	558.15	1	786.77	2	26.71	2	577.5	2	0.2948	2	0.236	2	0.492
25927	C13H14	1,3,5-trimethylnaphthalene	2131-39-7	319.15	1	557.65	1	786.07	2	26.71	2	577.5	2	0.2948	2	0.236	2	0.492
25928	C13H14	1,3,6-trimethylnaphthalene	3031-08-1	338.14	2	553.15	1	779.72	2	26.71	2	577.5	2	0.2948	2	0.238	2	0.492
25929	C13H14	1,3,7-trimethylnaphthalene	2131-38-6	286.15	1	553.15	1	779.72	2	26.71	2	577.5	2	0.2948	2	0.238	2	0.492
25930	C13H14	1,3,8-trimethylnaphthalene	17057-91-9	321.15	1	558.15	1	786.77	2	26.71	2	577.5	2	0.2948	2	0.236	2	0.492
25931	C13H14	1,4,5-trimethylnaphthalene	2131-41-1	335.15	1	558.15	1	786.77	2	26.71	2	577.5	2	0.2948	2	0.236	2	0.492
25932	C13H14	1,4,6-trimethylnaphthalene	2131-42-2	338.14	2	551.15	1	776.90	2	26.71	2	577.5	2	0.2948	2	0.239	2	0.492
25933	C13H14	1,6,7-trimethylnaphthalene	2245-38-7	298.15	1	553.15	1	779.72	2	26.71	2	577.5	2	0.2948	2	0.238	2	0.492
25934	C13H14	2,3,6-trimethylnaphthalene	829-26-5	375.15	1	550.15	1	775.49	2	26.71	2	577.5	2	0.2948	2	0.239	2	0.492
26158	C13H18	1-propyl-[1,2,3,4-tetrahydronaphthalene]	66324-83-2	254.84	2	529.55	1	745.97	2	25.13	2	604.5	2	0.2883	2	0.245	2	0.468
26159	C13H18	2-propyl-[1,2,3,4-tetrahydronaphthalene]	66324-84-3	265.65	1	534.15	1	752.45	2	25.13	2	604.5	2	0.2883	2	0.243	2	0.468
26160	C13H18	1,2,3,4-tetrahydro-1,1,6-trimethylnaphthalene	475-03-6	260.25	2	513.15	1	749.21	2	25.13	2	604.5	2	0.2883	2	0.244	2	0.468
26161	C13H18	2,3-dihydro-1,1,4,7-tetramethyl-1H-indene	1078-04-2	260.25	2	525.62	2	749.21	2	25.13	2	604.5	2	0.2883	2	0.244	2	0.468
26162	C13H18	2,3-dihydro-1,1,4,6-tetramethyl-1H-indene	941-60-6	260.25	2	525.62	2	749.21	2	25.13	2	604.5	2	0.2883	2	0.244	2	0.468
26163	C13H18	1,2,3,4-tetrahydro-2,5,8-trimethylnaphthalene	30316-17-7	260.25	2	525.62	2	749.21	2	25.13	2	604.5	2	0.2883	2	0.244	2	0.468
26217	C13H18O2	ibuprofen	15687-27-1	348.40	1	588.00	2	777.00	2	23.30	2	660.0	2	0.3126	2	0.238	2	0.823
26283	C13H20	heptylbenzene	1078-71-3	225.15	1	519.25	1	714.00	2	21.80	2	648.0	2	0.2721	2	0.238	2	0.529
26284	C13H20	1-methyl-2,4-diisopropylbenzene	1460-98-6	228.72	2	497.15	1	714.00	2	21.80	2	648.0	2	0.2721	2	0.238	2	0.529
26285	C13H20	1-methyl-3,5-diisopropylbenzene	3055-14-9	212.35	1	489.65	1	714.00	2	21.80	2	648.0	2	0.2721	2	0.238	2	0.529
26286	C13H20	[2-methyl-1-isopropylpropyl]benzene	21777-84-4	248.65	1	493.85	1	714.00	2	21.80	2	648.0	2	0.2721	2	0.238	2	0.529
26288	C13H20	(2,4-dimethylpentyl)benzene	54518-00-2	228.72	2	492.16	1	714.00	2	21.80	2	648.0	2	0.2721	2	0.238	2	0.529
26315	C13H20O	4-heptylphenol	1987-50-4	297.15	1	429.15	1	760.33	2	25.13	2	651.3	2	0.2957	2	0.259	2	0.610
26318	C13H20O	2-sec-butyl-6-isopropylphenol	74926-97-9	297.15	2	484.92	2	762.67	2	23.97	2	677.7	2	0.2944	2	0.256	2	0.621
26319	C13H20O	o-heptylphenol	5284-22-0	297.15	2	430.15	1	763.83	2	23.38	2	690.8	2	0.2937	2	0.254	2	0.626

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
26344	C13H21N	4-heptylaniline	37529-27-4	245.15	2	557.00	2	720.00	2	23.00	2	685.9	2	0.2789	2	0.264	2	---
26402	C13H24	1-tridecyne	26186-02-7	268.16	1	507.16	1	684.11	2	18.61	2	725.5	2	0.2486	2	0.237	2	0.553
26403	C13H24	2-tridecyne	28467-75-6	341.87	2	518.15	1	701.82	2	18.81	2	725.5	2	0.2486	2	0.234	2	0.539
26404	C13H24	3-tridecyne	60186-78-9	341.87	2	511.15	1	692.34	2	18.81	2	725.5	2	0.2486	2	0.237	2	0.539
26405	C13H24	dicyclohexylmethane	3178-23-2	254.51	1	525.95	1	749.48	2	23.66	2	629.5	2	0.2865	2	0.239	2	0.385
26406	C13H24	1-octylcyclopentene	52315-44-3	211.86	2	510.15	1	694.89	2	19.75	2	690.5	2	0.2612	2	0.236	2	0.532
26420	C13H24O2	ethyl 10-undecenoate	692-86-4	235.15	1	537.65	1	716.00	2	19.00	2	717.4	2	0.2960	2	0.229	2	---
26421	C13H24O2	methyl 11-dodecenoate	29972-79-0	204.15	2	537.65	2	716.00	2	19.00	2	717.4	2	0.2960	2	0.229	2	---
26422	C13H24O2	isodecyl acrylate	1330-61-6	173.15	1	537.65	2	716.00	2	19.00	2	717.4	2	0.2960	2	0.229	2	---
26423	C13H24O2	2-tridecenoic acid	6969-16-0	309.15	1	575.00	2	836.00	2	19.00	2	776.3	2	0.2735	2	0.212	2	---
26424	C13H24O2	12-tridecenoic acid	6006-06-0	311.65	1	575.00	2	836.00	2	19.00	2	776.3	2	0.2735	2	0.212	2	---
26426	C13H24O2	citronellyl propionate	76444-23-0	204.15	2	537.65	2	716.00	2	19.00	2	717.4	2	0.2960	2	0.229	2	---
26427	C13H24O2	decyl acrylate	2156-96-9	204.15	2	537.65	2	716.00	2	19.00	2	717.4	2	0.2960	2	0.229	2	---
26428	C13H24O2	undecenyl acetate	112-19-6	204.15	2	537.65	2	716.00	2	19.00	2	717.4	2	0.2960	2	0.229	2	---
26439	C13H25Br	cis-1-bromo-1-tridecene	66324-50-3	290.49	2	551.15	1	726.09	2	18.19	2	805.5	2	0.3243	2	0.243	2	0.699
26440	C13H25Br	trans-1-bromo-1-tridecene	66324-51-4	290.49	2	551.15	1	726.09	2	18.19	2	805.5	2	0.3243	2	0.243	2	0.699
26442	C13H25Br3	1,1,1-tribromotridecane	62127-70-2	417.59	2	627.15	1	813.37	2	19.93	2	938.5	2	0.4486	2	0.277	2	0.873
26443	C13H25Cl	cis-1-chloro-1-tridecene	66324-52-5	260.61	2	554.15	1	731.35	2	16.65	2	792.5	2	0.2736	2	0.217	2	0.635
26444	C13H25Cl	trans-1-chloro-1-tridecene	66324-53-6	260.61	2	554.15	1	731.35	2	16.65	2	792.5	2	0.2736	2	0.217	2	0.635
26445	C13H25Cl3	1,1,1-trichlorotridecane	3922-24-5	327.95	2	586.15	1	763.82	2	15.28	2	899.5	2	0.3198	2	0.216	2	0.672
26446	C13H25F	cis-1-fluoro-1-tridecene	66324-54-7	262.84	2	500.27	2	659.99	2	16.54	2	761.5	2	0.2631	2	0.230	2	0.634
26447	C13H25F	trans-1-fluoro-1-tridecene	66324-55-8	262.84	2	500.27	2	659.99	2	16.54	2	761.5	2	0.2631	2	0.230	2	0.634
26448	C13H25F3	1,1,1-trifluorotridecane	62126-98-1	334.64	2	498.15	1	654.90	2	15.40	2	797.0	2	0.2990	2	0.225	2	0.615
26449	C13H25I	cis-1-iodo-1-tridecene	66324-56-9	288.75	2	574.15	1	759.56	2	16.85	2	831.5	2	0.3707	2	0.222	2	0.626
26450	C13H25I	trans-1-iodo-1-tridecene	66324-57-0	288.75	2	574.15	1	759.56	2	16.85	2	831.5	2	0.3707	2	0.222	2	0.626
26451	C13H25I3	1,1,1-triiodotridecane	---	412.37	2	773.03	2	1014.03	2	15.83	2	1016.5	2	0.5529	2	0.191	2	0.647
26452	C13H25N	tridecanenitrile	629-60-7	283.05	1	566.15	1	733.04	2	16.12	2	789.5	2	0.2474	2	0.209	2	0.753
26465	C13H26	octylcyclopentane	1795-20-6	229.16	1	516.86	1	702.06	2	19.14	2	704.5	2	0.2588	2	0.231	2	0.526
26466	C13H26	heptylcyclohexane	5617-41-4	242.66	1	518.06	1	708.63	2	19.56	2	696.5	2	0.2618	2	0.231	2	0.498
26467	C13H26	2-butyl-1,1,3-trimethylcyclohexane	54676-39-0	242.66	2	510.52	2	708.63	2	19.56	2	696.5	2	0.2618	2	0.231	2	0.498
26468	C13H26	cyclotridecane	295-02-3	298.05	1	529.15	1	764.06	2	23.73	2	641.5	2	0.2843	2	0.240	2	0.328
26469	C13H26	1-tridecene	2437-56-1	250.08	1	505.93	1	675.00	2	17.70	2	756.0	2	0.2412	2	0.238	2	0.606
26470	C13H26	2-methyl-1-dodecene	16435-49-7	241.94	1	504.45	1	673.88	2	17.09	2	745.5	2	0.2446	2	0.227	2	0.571
26471	C13H26	5-butyl-4-nonene	7367-38-6	246.01	2	488.65	1	674.44	2	17.39	2	750.8	2	0.2429	2	0.233	2	0.592
26472	C13H26Br2	1,1-dibromotridecane	62168-30-3	340.37	2	598.15	1	777.32	2	18.58	2	881.5	2	0.3882	2	0.253	2	0.813
26473	C13H26Br2	1,13-dibromotridecane	31772-05-1	282.15	1	598.15	2	777.32	2	18.58	2	881.5	2	0.3882	2	0.253	2	0.813
26474	C13H26Cl2	1,1-dichlorotridecane	821-93-2	280.61	2	572.15	1	745.93	2	15.60	2	855.5	2	0.2960	2	0.215	2	0.681
26475	C13H26F2	1,1-difluorotridecane	62127-02-0	285.07	2	509.15	1	672.30	2	15.40	2	783.0	2	0.2814	2	0.216	2	0.586
26476	C13H26I2	1,1-diiodotridecane	66324-43-4	336.89	2	682.68	2	893.94	2	15.97	2	933.5	2	0.4672	2	0.201	2	0.664
26486	C13H26O	1-tridecanal	10486-19-8	288.15	1	540.15	1	724.00	2	23.50	2	738.0	2	0.2688	2	0.288	2	0.716
26487	C13H26O	2-tridecanone	593-08-8	300.65	1	535.73	1	707.26	2	17.32	2	769.5	2	0.2578	2	0.227	2	0.727
26488	C13H26O	3-tridecanone	1534-26-5	304.15	1	538.47	2	707.26	2	17.32	2	769.5	2	0.2578	2	0.227	2	0.727
26489	C13H26O	7-tridecanone	462-18-0	306.15	1	534.15	1	707.26	2	17.32	2	769.5	2	0.2578	2	0.227	2	0.727
26492	C13H26O2	tridecanoic acid	638-53-9	315.01	1	585.25	1	754.00	2	18.10	2	758.0	2	0.2828	2	0.219	2	0.904
26493	C13H26O2	2-methyldodecanoic acid	2874-74-0	295.15	1	542.21	2	746.59	2	17.70	2	787.5	2	0.2722	2	0.225	2	0.937
26494	C13H26O2	dodecyl formate	28303-42-6	294.47	2	554.36	2	713.20	2	16.00	2	807.0	2	0.2656	2	0.218	2	0.798
26495	C13H26O2	undecyl acetate	1731-81-3	266.35	1	520.00	2	707.60	2	15.40	2	809.0	2	0.2650	2	0.212	2	0.849
26496	C13H26O2	decyl propanoate	5454-19-3	278.10	2	555.06	2	707.60	2	15.10	2	809.0	2	0.2650	2	0.208	2	0.835
26497	C13H26O2	nonyl butanoate	2639-64-7	278.10	2	535.15	1	706.70	2	15.00	2	809.0	2	0.2650	2	0.207	2	0.570
26498	C13H26O2	octyl pentanoate	5451-85-4	230.85	1	534.75	1	682.00	2	17.40	2	776.0	2	0.2764	2	0.238	2	0.759
26499	C13H26O2	heptyl hexanoate	6976-72-3	238.75	1	534.15	1	682.00	2	17.40	2	776.0	2	0.2764	2	0.238	2	0.759
26500	C13H26O2	hexyl heptanoate	1119-06-8	225.15	1	534.15	1	682.00	2	17.40	2	776.0	2	0.2764	2	0.238	2	0.759
26501	C13H26O2	pentyl octanoate	638-25-5	238.35	1	533.35	1	682.00	2	17.40	2	776.0	2	0.2764	2	0.238	2	0.759
26502	C13H26O2	butyl nonanoate	50623-57-9	235.15	1	503.00	1	674.00	2	17.40	2	810.0	2	0.2646	2	0.252	2	0.728
26503	C13H26O2	propyl decanoate	30673-60-0	243.51	2	542.21	2	682.00	2	17.40	2	776.0	2	0.2764	2	0.238	2	0.759
26504	C13H26O2	isopropyl decanoate	2311-59-3	243.51	2	542.21	2	682.00	2	17.40	2	776.0	2	0.2764	2	0.238	2	0.759
26505	C13H26O2	methyl dodecanoate	111-82-0	278.15	1	540.00	1	712.00	1	17.40	2	758.0	2	0.2828	2	0.223	1,2	0.692
26506	C13H26O2	ethyl undecanoate	627-90-7	258.15	1	542.21	2	682.00	2	17.40	2	776.0	2	0.2764	2	0.238	2	0.759
26507	C13H26O2	isoamyl caprylate	2035-99-6	243.51	2	542.21	2	682.00	2	17.40	2	776.0	2	0.2764	2	0.238	2	0.759
26514	C13H26S	thiacyclotetradecane	295-20-5	302.68	2	568.15	1	818.79	2	24.17	2	679.5	2	0.3155	2	0.241	2	0.344
26515	C13H27Br	1-bromotridecane	765-09-3	279.35	1	565.15	1	739.06	2	17.40	2	825.5	2	0.3189	2	0.234	2	0.726
26516	C13H27Cl	1-chlorotridecane	822-13-9	273.85	1	553.15	1	724.59	2	15.96	2	812.5	2	0.2693	2	0.215	2	0.661
26517	C13H27F	1-fluorotridecane	1536-21-6	276.15	1	515.15	1	674.20	2	15.40	2	773.0	2	0.2618	2	0.212	2	0.646
26518	C13H27I	1-iodotridecane	35599-77-0	285.45	1	587.15	1	744.41	2	18.23	2	782.5	2	0.3965	2	0.231	2	1.014
26522	C13H27NO2	1-nitrotridecane	26817-31-2	379.38	2	584.15	1	751.18	2	16.61	2	845.5	2	0.2713	2	0.225	2	0.826
26526	C13H28	tridecane	629-50-5	267.76	1	508.62	1	675.00	1	16.80	1	775.0	2	0.2379	2	0.232	1,2	0.617
26527	C13H28	2-methyldodecane	1560-97-0	247.15	1	502.65	1	668.02	2	16.55	2	757.5	2	0.2434	2	0.226	2	0.586
26528	C13H28	3-methyldodecane	17312-57-1	220.15	1	503.45	1	669.09	2	16.55	2	757.5	2	0.2434	2	0.225	2	0.586
26529	C13H28	2,2-dimethylundecane	17312-64-0	238.19	2	494.15	1	663.40	2	16.70	2	752.5	2	0.2450	2	0.228	2	0.529
26530	C13H28	2,3-dimethylundecane	17312-77-5	205.77	2	501.15	1	669.37	2	16.66	2	751.5	2	0.2453	2	0.225	2	0.558
26531	C13H28	2,4-dimethylundecane	17312-80-0	205.77	2	489.15	1	653.35	2	16.66	2	751.5	2	0.2453	2	0.230	2	0.558
26532	C13H28	5-butylnonane	17312-63-9	230.80	2	490.65	1	666.51	2	16.73	2	756.8	2	0.2436	2	0.228	2	0.573
26535	C13H28O	1-tridecanol	112-70-9	303.75	1	553.60	1	734.00	2	19.35	2	749.0	2	0.2675	2	0.237	2	0.712
26536	C13H28O	2-tridecanol	1653-31-2	295.15	1	541.15	1	718.60	2	18.60	2	768.0	2	0.2609	2	0.239	2	0.657
26537	C13H28O	3-tridecanol	10289-68-6	305.15	1	531.15	2	724.80	2	18.35	2	758.5	2	0.2642	2	0.231	2	0.642
26538	C13H28O	5-butyl-5-nonanol	597-93-3	293.15	1	531.15	2	724.80	2	18.35	2	758.5	2	0.2642	2	0.231	2	0.642
26539	C13H28O2	1,2-tridecanediol	---	342.41	2	595.15	2	736.93	2	19.34	2	795.5	2	0.2720	2	0.251	2	1.310
26540	C13H28O2	1,3-tridecanediol	---	342.41	2	606.15	2	750.55	2	19.34	2	795.5	2	0.2720	2	0.247	2	1.310
26541	C13H28O2	1,4-tridecanediol	61828-34-0	319.15	1	627.15	2	776.55	2	19.34	2	795.5	2	0.2720	2	0.238	2	1.310
26542	C13H28O2	1,13-tridecanediol	13362-52-2	349.75	1	614.15	2	759.19	2	19.20	2	801.5	2	0.2699	2	0.244	2	1.324

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
26543	C13H28O2	1,12-tridecanediol	99706-68-0	333.65	1	610.65	2	755.80	2	19.30	2	797.0	2	0.2715	2	0.245	2	1.313
26549	C13H28S	1-tridecanethiol	19484-26-5	282.04	1	563.96	1	742.13	2	17.33	2	817.5	2	0.2647	2	0.230	2	0.673
26550	C13H28S	2-tridecanethiol	62155-03-7	263.15	1	555.15	1	734.00	2	17.00	2	802.0	2	0.2699	2	0.223	2	0.635
26551	C13H28S	methyl dodecyl sulfide	---	271.16	2	553.00	2	748.42	2	16.67	2	817.5	2	0.2647	2	0.219	2	0.667
26552	C13H28S	ethyl undecyl sulfide	66577-30-8	271.16	2	553.00	2	748.42	2	16.67	2	817.5	2	0.2647	2	0.219	2	0.667
26553	C13H28S	propyl decyl sulfide	66577-31-9	271.16	2	553.00	2	748.42	2	16.67	2	817.5	2	0.2647	2	0.219	2	0.667
26554	C13H28S	butyl nonyl sulfide	66577-32-0	271.16	2	553.00	2	748.42	2	16.67	2	817.5	2	0.2647	2	0.219	2	0.667
26555	C13H29N	tridecylamine	2869-34-3	299.15	1	553.15	1	721.70	2	16.40	2	785.0	2	0.2540	2	0.215	2	0.706
26556	C13H29N	methyldodecylamine	7311-30-0	291.15	1	534.15	1	696.80	2	16.90	2	785.0	2	0.2540	2	0.229	2	0.726
26557	C13H29N	ethylundecylamine	59570-04-6	291.15	2	532.15	1	693.10	2	16.90	2	785.0	2	0.2540	2	0.230	2	0.738
26558	C13H29N	dimethylundecylamine	17373-28-3	299.15	2	526.15	1	700.50	2	16.40	2	785.0	2	0.2540	2	0.221	2	0.570
26559	C13H29N	diethylnonylamine	45124-35-4	299.15	2	504.15	1	661.69	2	16.96	2	801.5	2	0.2488	2	0.247	2	0.684
26560	C13H29N	6-methyl-N-isopentyl-2-heptanamine	502-59-0	291.15	2	520.48	2	694.76	2	16.71	2	788.3	2	0.2529	2	0.228	2	0.685
26561	C13H29N	tert-amyl-tert-octylamine	150285-07-7	291.15	2	473.15	1	694.76	2	16.71	2	788.3	2	0.2529	2	0.228	2	0.685
26562	C13H29N	N-methyldihexylamine	37615-53-5	299.15	2	520.48	2	694.76	2	16.71	2	788.3	2	0.2529	2	0.228	2	0.685
26654	C14H8O2	anthraquinone	84-65-1	559.15	1	653.05	1	900.00	2	31.50	2	544.0	2	0.3828	2	0.229	2	0.681
26728	C14H10	anthracene	120-12-7	488.93	1	615.18	1	873.00	1	29.00	2	554.0	2	0.3217	2	0.221	1,2	0.486
26729	C14H10	diphenylacetylene	501-65-5	335.65	1	573.00	1	832.00	2	29.00	2	611.0	2	0.2917	2	0.256	2	0.384
26730	C14H10	phenanthrene	85-01-8	372.38	1	610.03	1	869.00	1	29.00	2	554.0	2	0.3217	2	0.222	1,2	0.471
26788	C14H10O4	benzoyl peroxide	94-36-0	378.00	1	669.00	2	884.00	2	25.70	2	718.0	2	0.3374	2	0.251	2	0.914
26866	C14H12	cis-stilbene	645-49-8	275.65	1	554.00	1	784.00	2	27.40	2	596.0	2	0.3024	2	0.251	2	0.476
26867	C14H12	trans-stilbene	103-30-0	397.35	1	579.65	1	820.00	2	27.40	2	607.0	2	0.2970	2	0.244	2	0.487
26868	C14H12	1,1-diphenylethene	530-48-3	281.41	1	550.25	1	791.64	2	29.12	2	585.5	2	0.3079	2	0.259	2	0.431
26873	C14H12	stilbene	588-59-0	397.55	1	579.65	1	788.50	2	27.40	2	581.0	2	0.3102	2	0.243	2	0.481
26942	C14H12O2	benzyl benzoate	120-51-4	292.55	1	596.65	1	820.00	2	25.80	2	694.0	2	0.3058	2	0.263	2	0.590
26987.1	C14H12O4	dimethyl-2,6-naphthalenedicarboxylate	840-65-3	464.50	1	650.86	2	883.00	2	24.85	2	698.0	2	0.3499	2	0.236	2	0.685
27052	C14H14	1,1-diphenylethane	612-00-0	255.20	1	545.78	1	775.00	2	26.80	2	604.0	2	0.3018	2	0.251	2	0.457
27053	C14H14	1,2-diphenylethane	103-29-7	324.34	1	553.65	1	780.00	2	26.50	2	616.0	2	0.2959	2	0.252	2	0.488
27054	C14H14	2-methyldiphenylmethane	713-36-0	279.79	1	553.65	1	784.15	2	27.27	2	603.5	2	0.3020	2	0.252	2	0.478
27055	C14H14	3-methyldiphenylmethane	620-47-3	245.35	1	552.39	1	782.37	2	27.27	2	603.5	2	0.3020	2	0.253	2	0.478
27056	C14H14	4-methyldiphenylmethane	620-83-7	277.76	1	555.11	1	786.22	2	27.27	2	603.5	2	0.3020	2	0.252	2	0.478
27057	C14H14	2,2'-dimethylbiphenyl	605-39-0	291.15	1	531.15	1	761.60	2	31.30	2	593.0	2	0.3074	2	0.293	2	0.477
27058	C14H14	2,3'-trimethylbiphenyl	611-43-8	322.15	2	547.15	1	781.70	2	31.30	2	593.0	2	0.3074	2	0.286	2	0.495
27059	C14H14	2,4'-dimethlbiphenyl	611-61-0	322.15	2	547.15	1	788.20	2	31.30	2	593.0	2	0.3074	2	0.283	2	0.455
27060	C14H14	3,3'-dimethylbiphenyl	612-75-9	280.15	1	559.15	1	796.10	2	31.30	2	593.0	2	0.3074	2	0.280	2	0.512
27061	C14H14	3,4'-dimethylbiphenyl	7383-90-6	288.15	1	556.15	1	808.30	2	31.30	2	593.0	2	0.3074	2	0.276	2	0.414
27062	C14H14	4,4'-dimethylbiphenyl	613-33-2	394.15	1	566.15	1	817.70	2	31.30	2	593.0	2	0.3074	2	0.273	2	0.443
27063	C14H14	2-ethylbiphenyl	1812-51-7	267.05	1	539.12	1	777.40	2	31.30	2	593.0	2	0.3074	2	0.287	2	0.450
27064	C14H14	3-ethylbiphenyl	5668-93-9	245.65	1	559.11	1	801.00	2	31.30	2	593.0	2	0.3074	2	0.279	2	0.482
27065	C14H14	4-ethylbiphenyl	5707-44-8	320.15	1	556.15	1	806.00	2	31.30	2	593.0	2	0.3074	2	0.277	2	0.427
27066	C14H14	2,3-dimethylbiphenyl	3864-18-4	315.15	1	551.15	1	802.00	2	31.90	2	593.0	2	0.3074	2	0.284	2	0.416
27067	C14H14	3,4-dimethylbiphenyl	4433-11-8	302.65	1	555.15	1	801.20	2	31.90	2	593.0	2	0.3074	2	0.284	2	0.454
27068	C14H14	2,6-dimethylbiphenyl	3976-34-9	270.65	1	536.15	1	768.10	2	30.80	2	593.0	2	0.3074	2	0.286	2	0.475
27069	C14H14	1,3-dimethyl-4-phenyl benzene	---	322.15	2	543.15	1	783.20	2	30.80	2	593.0	2	0.3074	2	0.280	2	0.444
27070	C14H14	1,3-dimethyl-5-phenyl benzene	---	322.15	2	548.15	1	785.00	2	30.80	2	593.0	2	0.3074	2	0.280	2	0.476
27071	C14H14	1,4-dimethyl-2-phenyl benzene	---	322.15	2	540.15	1	796.00	2	31.30	2	593.0	2	0.3074	2	0.280	2	0.354
27072	C14H14	2,5-dimethylbiphenyl	7372-85-2	301.14	2	549.48	2	792.44	2	31.36	2	593.0	2	0.3074	2	0.282	2	0.458
27073	C14H14	2,4-dimethylbiphenyl	4433-10-7	301.14	2	545.15	1	792.44	2	31.36	2	593.0	2	0.3074	2	0.282	2	0.458
27074	C14H14	3,5-dimethylbiphenyl	17057-88-4	295.65	1	547.65	1	792.44	2	31.36	2	593.0	2	0.3074	2	0.282	2	0.458
27138	C14H14O	dibenzyl ether	103-50-4	276.75	1	561.45	1	777.00	2	25.60	2	608.0	2	0.3261	2	0.241	2	0.591
27267	C14H16	1-butylnaphthalene	1634-09-9	253.43	1	562.54	1	792.00	2	26.80	2	631.0	2	0.2920	2	0.257	2	0.495
27268	C14H16	2-butylnaphthalene	1134-62-9	268.16	1	562.16	1	780.96	2	24.98	2	633.5	2	0.2909	2	0.244	2	0.533
27269	C14H16	1-sec-butylnaphthalene	1680-58-6	333.04	2	575.00	2	818.49	2	25.18	2	627.5	2	0.2937	2	0.232	2	0.508
27270	C14H16	2-sec-butylnaphthalene	4614-03-3	333.04	2	585.41	2	818.49	2	25.18	2	627.5	2	0.2937	2	0.232	2	0.508
27271	C14H16	1-isobutylnaphthalene	16727-91-6	263.75	1	552.65	1	772.68	2	25.18	2	627.5	2	0.2937	2	0.246	2	0.508
27272	C14H16	2-isobutylnaphthalene	26490-07-3	333.04	2	585.41	2	818.49	2	25.18	2	627.5	2	0.2937	2	0.232	2	0.508
27273	C14H16	1-tert-butylnaphthalene	17085-91-5	262.15	1	551.45	1	781.33	2	25.46	2	622.5	2	0.2960	2	0.244	2	0.445
27274	C14H16	2-tert-butylnaphthalene	2876-35-9	268.15	1	553.25	1	783.88	2	25.46	2	622.5	2	0.2960	2	0.243	2	0.445
27275	C14H16	1-methyl-2-propylnaphthalene	39036-65-2	333.04	2	585.41	2	812.35	2	24.60	2	633.5	2	0.2909	2	0.231	2	0.537
27276	C14H16	2-methyl-1-propylnaphthalene	54774-89-9	333.04	2	585.41	2	812.35	2	24.60	2	633.5	2	0.2909	2	0.231	2	0.537
27277	C14H16	3-methyl-2-propylnaphthalene	66577-19-3	333.04	2	585.41	2	812.35	2	24.60	2	633.5	2	0.2909	2	0.231	2	0.537
27278	C14H16	2-methyl-1-isopropylnaphthalene	32114-79-7	333.04	2	585.41	2	817.54	2	24.80	2	627.5	2	0.2937	2	0.229	2	0.507
27279	C14H16	3-methyl-2-isopropylnaphthalene	66577-18-2	333.04	2	585.41	2	817.54	2	24.80	2	627.5	2	0.2937	2	0.229	2	0.507
27280	C14H16	1-methyl-3-isopropylnaphthalene	66577-16-0	333.04	2	585.41	2	817.54	2	24.80	2	627.5	2	0.2937	2	0.229	2	0.507
27281	C14H16	1-methyl-4-isopropylnaphthalene	1680-53-1	333.04	2	585.41	2	817.54	2	24.80	2	627.5	2	0.2937	2	0.229	2	0.507
27282	C14H16	1-methyl-6-isopropylnaphthalene	10136-83-1	333.04	2	585.41	2	817.54	2	24.80	2	627.5	2	0.2937	2	0.229	2	0.507
27283	C14H16	1-methyl-7-isopropylnaphthalene	490-65-3	333.04	2	554.15	1	773.88	2	24.80	2	627.5	2	0.2937	2	0.242	2	0.507
27284	C14H16	2-methyl-8-isopropylnaphthalene	---	333.04	2	555.15	1	775.28	2	24.80	2	627.5	2	0.2937	2	0.241	2	0.507
27285	C14H16	1,2-diethylnaphthalene	19182-11-7	333.04	2	585.41	2	812.35	2	24.60	2	633.5	2	0.2909	2	0.231	2	0.537
27286	C14H16	1,4-diethylnaphthalene	37796-58-0	293.15	1	585.41	2	812.35	2	24.60	2	633.5	2	0.2909	2	0.231	2	0.537
27287	C14H16	1,6-diethylnaphthalene	19182-13-9	333.04	2	585.41	2	812.35	2	24.60	2	633.5	2	0.2909	2	0.231	2	0.537
27288	C14H16	1,7-diethylnaphthalene	66577-37-5	333.04	2	585.41	2	812.35	2	24.60	2	633.5	2	0.2909	2	0.231	2	0.537
27289	C14H16	2,3-diethylnaphthalene	66610-91-1	333.04	2	585.41	2	812.35	2	24.60	2	633.5	2	0.2909	2	0.231	2	0.537
27289.1	C14H16	2,6-diethylnaphthalene	59919-41-4	322.15	1	576.00	2	807.00	2	25.80	2	630.0	2	0.2925	2	0.242	2	0.512
27290	C14H16	2,4-dimethyl-1-ethylnaphthalene	66577-14-8	333.04	2	585.41	2	811.44	2	24.24	2	633.5	2	0.2909	2	0.228	2	0.536
27291	C14H16	4,6-dimethyl-1-ethylnaphthalene	66577-15-9	333.04	2	585.41	2	811.44	2	24.24	2	633.5	2	0.2909	2	0.228	2	0.536
27292	C14H16	2,5-dimethyl-3-ethylnaphthalene	---	333.04	2	585.41	2	811.44	2	24.24	2	633.5	2	0.2909	2	0.228	2	0.536
27293	C14H16	1,2-dimethyl-4-ethylnaphthalene	66577-38-6	333.04	2	585.41	2	811.44	2	24.24	2	633.5	2	0.2909	2	0.228	2	0.536
27294	C14H16	1,3-dimethyl-5-ethylnaphthalene	66577-40-0	303.15	1	585.41	2	811.44	2	24.24	2	633.5	2	0.2909	2	0.228	2	0.536
27295	C14H16	1,4-dimethyl-5-ethylnaphthalene	66309-90-8	265.15	1	585.41	2	811.44	2	24.24	2	633.5	2	0.2909	2	0.228	2	0.536

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
27296	C14H16	1,3-dimethyl-6-ethylnaphthalene	39622-45-2	333.04	2	585.41	2	811.44	2	24.24	2	633.5	2	0.2909	2	0.228	2	0.536
27297	C14H16	1,4-dimethyl-6-ethylnaphthalene	66610-92-2	333.04	2	585.41	2	811.44	2	24.24	2	633.5	2	0.2909	2	0.228	2	0.536
27298	C14H16	1,2-dimethyl-7-ethylnaphthalene	66577-39-7	333.04	2	585.41	2	811.44	2	24.24	2	633.5	2	0.2909	2	0.228	2	0.536
27299	C14H16	1,2,3,4-tetramethylnaphthalene	3031-15-0	379.15	1	585.41	2	810.54	2	23.89	2	633.5	2	0.2909	2	0.225	2	0.535
27300	C14H16	1,2,3,6-tetramethylnaphthalene	66577-20-6	332.15	1	585.41	2	810.54	2	23.89	2	633.5	2	0.2909	2	0.225	2	0.535
27301	C14H16	1,2,4,6-tetramethylnaphthalene	66577-21-7	317.15	1	585.41	2	810.54	2	23.89	2	633.5	2	0.2909	2	0.225	2	0.535
27302	C14H16	1,2,4,7-tetramethylnaphthalene	16020-17-0	270.15	1	585.41	2	810.54	2	23.89	2	633.5	2	0.2909	2	0.225	2	0.535
27303	C14H16	1,2,4,8-tetramethylnaphthalene	66577-22-8	329.15	1	585.41	2	810.54	2	23.89	2	633.5	2	0.2909	2	0.225	2	0.535
27304	C14H16	1,2,5,6-tetramethylnaphthalene	2131-43-3	387.15	1	585.41	2	810.54	2	23.89	2	633.5	2	0.2909	2	0.225	2	0.535
27305	C14H16	1,2,5,8-tetramethylnaphthalene	3031-16-1	333.04	2	585.41	2	810.54	2	23.89	2	633.5	2	0.2909	2	0.225	2	0.535
27306	C14H16	1,2,6,8-tetramethylnaphthalene	66577-00-2	333.04	2	585.41	2	810.54	2	23.89	2	633.5	2	0.2909	2	0.225	2	0.535
27307	C14H16	1,3,5,8-tetramethylnaphthalene	14558-12-4	329.15	1	585.41	2	810.54	2	23.89	2	633.5	2	0.2909	2	0.225	2	0.535
27308	C14H16	1,3,6,7-tetramethylnaphthalene	7435-50-9	318.15	1	585.41	2	810.54	2	23.89	2	633.5	2	0.2909	2	0.225	2	0.535
27309	C14H16	1,4,5,8-tetramethylnaphthalene	2717-39-7	404.15	1	585.41	2	810.54	2	23.89	2	633.5	2	0.2909	2	0.225	2	0.535
27310	C14H16	1,4,6,7-tetramethylnaphthalene	13764-18-6	336.15	1	585.41	2	810.54	2	23.89	2	633.5	2	0.2909	2	0.225	2	0.535
27311	C14H16	2,3,6,7-tetramethylnaphthalene	1134-40-3	464.15	1	585.41	2	810.54	2	23.89	2	633.5	2	0.2909	2	0.225	2	0.535
27313	C14H16	7-methyl-1-isopropylnaphthalene	66577-17-1	327.40	2	555.15	1	807.60	2	24.50	2	631.5	2	0.2918	2	0.230	2	0.524
27314	C14H16	1,3,6,8-tetramethylnaphthalene	14558-14-6	357.65	1	576.21	2	807.60	2	24.50	2	631.5	2	0.2918	2	0.230	2	0.524
27497	C14H18O4	dipropyl phthalate	131-16-8	242.15	1	590.65	1	768.00	2	19.90	2	789.0	2	0.3172	2	0.246	2	0.855
27506.1	C14H18O8	di-1-glyceryl terephthalate	66032-51-76	397.40	1	715.00	2	882.00	2	29.20	2	812.0	2	0.3871	2	0.323	2	1.794
27560	C14H20	1-butyl-[1,2,3,4-tetrahydronaphthalene]	38857-76-0	266.11	2	546.28	1	756.75	2	22.87	2	660.5	2	0.2851	2	0.240	2	0.511
27561	C14H20	2-butyl-[1,2,3,4-tetrahydronaphthalene]	36230-28-1	243.05	1	551.65	1	764.18	2	22.87	2	660.5	2	0.2851	2	0.238	2	0.511
27562	C14H20	1,2,3,4-tetrahydro-1,1,2,6-tetramethylnaphthalene	1681-22-7	247.92	2	546.31	2	760.47	2	22.87	2	660.5	2	0.2851	2	0.239	2	0.511
27565	C14H20	5-butyl-1,2,3,4-tetrahydronaphthalene	66325-42-6	224.05	1	553.05	1	760.47	2	22.87	2	660.5	2	0.2851	2	0.239	2	0.511
27566	C14H20	1,2,3,4-tetrahydro-5-isobutylnaphthalene	5458-54-8	258.45	1	543.55	1	760.47	2	22.87	2	660.5	2	0.2851	2	0.239	2	0.511
27566.1	C14H20	diamantane	2292-79-7	517.92	1	529.00	2	791.00	2	22.60	2	663.0	2	0.2840	2	0.228	2	0.163
27644	C14H22	octylbenzene	2189-60-8	237.15	1	537.55	1	729.00	2	20.20	2	703.0	2	0.2707	2	0.234	2	0.572
27645	C14H22	1,2,3,4-tetraethylbenzene	642-32-0	284.96	1	524.16	1	708.20	2	19.30	2	711.5	2	0.2675	2	0.233	2	0.562
27646	C14H22	1,2,3,5-tetraethylbenzene	38842-05-6	252.15	1	522.00	1	708.00	2	20.70	2	703.0	2	0.2707	2	0.247	2	0.594
27647	C14H22	1,2,4,5-tetraethylbenzene	635-81-4	283.16	1	523.16	1	706.85	2	19.30	2	711.5	2	0.2675	2	0.234	2	0.562
27648	C14H22	1,4-di-tert-butylbenzene	1012-72-2	350.76	1	510.43	1	708.00	1	23.00	2	732.0	1	0.2600	1	0.286	1,2	0.502
27649	C14H22	(1-methylheptyl)benzene	777-22-0	234.25	1	523.94	2	712.89	2	19.53	2	709.4	2	0.2683	2	0.234	2	0.565
27650	C14H22	1,3-di-tert-butylbenzene	1014-60-4	283.65	1	523.94	2	712.89	2	19.53	2	709.4	2	0.2683	2	0.234	2	0.565
27679	C14H22O	p-tert-octylphenol	140-66-9	358.55	1	563.60	1	765.00	2	22.80	2	704.0	2	0.2931	2	0.252	2	0.633
27680	C14H22O	2,4-di-tert-butylphenol	96-76-4	329.65	1	536.65	1	765.00	2	22.80	2	704.0	2	0.2931	2	0.252	2	0.631
27681	C14H22O	2,6-di-sec-butylphenol	5510-99-6	231.15	1	530.65	1	765.00	2	22.80	2	704.0	2	0.2931	2	0.252	2	0.631
27682	C14H22O	2,6-di-tert-butylphenol	128-39-2	312.15	1	527.81	2	765.00	2	22.80	2	704.0	2	0.2931	2	0.252	2	0.631
27687	C14H22O	4-octylphenol	1806-26-4	316.15	1	423.15	1	765.00	2	22.80	2	704.0	2	0.2931	2	0.252	2	0.631
27688	C14H22O	tert-octylphenol	27193-28-8	346.15	1	554.65	1	765.00	2	22.80	2	704.0	2	0.2931	2	0.252	2	0.631
27689	C14H22O	3,5-bis(1,1-dimethylethyl)phenol	1138-52-9	361.15	1	527.81	2	765.00	2	22.80	2	704.0	2	0.2931	2	0.252	2	0.631
27691	C14H22O	2-isopropyl-6-(1-methylbutyl)phenol	74926-98-0	322.14	2	527.81	2	765.00	2	22.80	2	704.0	2	0.2931	2	0.252	2	0.631
27724	C14H23N	2,6-diisopropyl-N,N-dimethylaniline	2909-77-5	262.15	2	543.85	2	730.00	2	21.00	2	755.9	2	0.2716	2	0.262	2	---
27725	C14H23N	N-(2-ethylhexyl)aniline	10137-80-1	262.15	2	543.85	2	730.00	2	21.00	2	755.9	2	0.2716	2	0.262	2	---
27772	C14H24S	3-decylthiophene	65016-55-9	---	---	570.15	2	785.00	2	19.00	2	851.0	2	0.2637	2	0.248	2	---
27777	C14H26	1,1-dicyclohexylethane	2319-61-1	252.33	1	544.32	1	762.12	2	21.59	2	685.5	2	0.2835	2	0.234	2	0.429
27778	C14H26	1,2-dicyclohexylethane	3321-50-4	284.65	1	545.65	1	762.12	2	21.59	2	685.5	2	0.2835	2	0.234	2	0.429
27779	C14H26	1-nonylcyclopentene	62184-74-1	223.13	2	527.15	1	707.91	2	18.17	2	746.5	2	0.2604	2	0.230	2	0.573
27780	C14H26	1-tetradecyne	765-10-6	294.01	2	525.15	1	689.90	2	16.60	2	772.0	2	0.2518	2	0.223	2	0.665
27781	C14H26	3-tetradecyne	60212-32-0	353.14	2	528.15	1	705.58	2	17.33	2	781.5	2	0.2487	2	0.231	2	0.579
27782	C14H26	7-tetradecyne	35216-11-6	323.58	2	535.60	2	697.74	2	16.97	2	776.8	2	0.2502	2	0.227	2	0.622
27784	C14H26	1,13-tetradecadiene	21964-49-8	---	---	535.60	2	736.00	2	22.00	2	700.0	2	0.2776	2	0.252	2	---
27797	C14H26O2	methyl 12-tridecenoate	29780-00-5	250.75	2	513.00	2	738.00	2	18.00	2	773.8	2	0.2925	2	0.227	2	---
27798	C14H26O2	4-tetradecenoic acid	544-65-0	291.65	1	590.00	2	856.00	2	18.00	2	839.0	2	0.2698	2	0.212	2	---
27799	C14H26O2	5-tetradecenoic acid	544-66-1	293.15	1	590.00	2	856.00	2	18.00	2	839.0	2	0.2698	2	0.212	2	---
27800	C14H26O2	9-tetradecenoic acid	13147-06-3	269.15	1	590.00	2	856.00	2	18.00	2	839.0	2	0.2698	2	0.212	2	---
27801	C14H26O2	decyl methacrylate	3179-47-3	250.75	1	513.00	2	738.00	2	18.00	2	773.8	2	0.2925	2	0.227	2	---
27803	C14H26O2	isodecyl methacrylate	29964-84-9	250.75	2	513.00	2	738.00	2	18.00	2	773.8	2	0.2925	2	0.227	2	---
27807	C14H26O2	citronellyl butyrate	141-16-2	250.75	2	513.00	2	738.00	2	18.00	2	773.8	2	0.2925	2	0.227	2	---
27808	C14H26O2	citronellyl isobutyrate	97-89-2	250.75	2	513.00	2	738.00	2	18.00	2	773.8	2	0.2925	2	0.227	2	---
27809	C14H26O2	2,6-dimethyl-2-octen-8-yl butyrate	141-16-2	250.75	2	513.00	2	738.00	2	18.00	2	773.8	2	0.2925	2	0.227	2	---
27810	C14H26O2	cis-7-dodecenyl acetate	14959-86-5	250.75	2	513.00	2	738.00	2	18.00	2	773.8	2	0.2925	2	0.227	2	---
27825	C14H27Br	cis-1-bromo-1-tetradecene	66827-02-9	301.76	2	567.15	1	738.68	2	16.78	2	861.5	2	0.3195	2	0.235	2	0.733
27826	C14H27Br	trans-1-bromo-1-tetradecene	66827-03-0	301.76	2	567.15	1	738.68	2	16.78	2	861.5	2	0.3195	2	0.235	2	0.733
27828	C14H27Br3	1,1,1-tribromotetradecane	62155-25-3	428.86	2	640.15	1	821.99	2	18.33	2	994.5	2	0.4375	2	0.267	2	0.903
27829	C14H27Cl	cis-1-chloro-1-tetradecene	66827-04-1	271.88	2	571.15	1	745.10	2	15.41	2	848.5	2	0.2720	2	0.211	2	0.669
27830	C14H27Cl	trans-1-chloro-1-tetradecene	66827-05-2	271.88	2	571.15	1	745.10	2	15.41	2	848.5	2	0.2720	2	0.211	2	0.669
27832	C14H27Cl3	1,1,1-trichlorotetradecane	62108-58-1	339.22	2	601.15	1	775.24	2	14.20	2	955.5	2	0.3158	2	0.210	2	0.702
27833	C14H27F	cis-1-fluoro-1-tetradecene	66827-06-3	274.11	2	523.15	2	682.24	2	15.32	2	817.5	2	0.2622	2	0.221	2	0.668
27834	C14H27F	trans-1-fluoro-1-tetradecene	66827-07-4	274.11	2	523.15	2	682.24	2	15.32	2	817.5	2	0.2622	2	0.221	2	0.668
27835	C14H27F3	1,1,1-trifluorotetradecane	62126-99-2	345.91	2	515.15	1	670.40	2	14.40	2	852.0	2	0.2962	2	0.220	2	0.645
27836	C14H27I	cis-1-iodo-1-tetradecene	66827-08-5	300.02	2	590.15	1	771.57	2	15.60	2	887.5	2	0.3631	2	0.216	2	0.661
27837	C14H27I	trans-1-iodo-1-tetradecene	66827-09-6	300.02	2	590.15	1	771.57	2	15.60	2	887.5	2	0.3631	2	0.216	2	0.661
27838	C14H27I3	1,1,1-triiodotetradecane	---	423.64	2	795.91	2	1032.58	2	14.69	2	1072.5	2	0.5371	2	0.184	2	0.679
27839	C14H27N	tetradecanenitrile	629-63-0	292.45	1	581.15	1	745.12	2	14.94	2	845.5	2	0.2476	2	0.204	2	0.781
27847	C14H28	nonylcyclopentane	2882-98-6	244.16	1	535.26	1	716.95	2	17.62	2	760.5	2	0.2582	2	0.225	2	0.566
27848	C14H28	octylcyclohexane	1795-15-9	253.46	1	536.76	1	723.61	2	18.00	2	752.5	2	0.2610	2	0.225	2	0.538
27849	C14H28	cyclotetradecane	295-17-0	328.75	1	544.15	1	777.91	2	22.17	2	689.5	2	0.2848	2	0.236	2	0.343
27850	C14H28	1-tetradecene	1120-36-1	260.30	1	524.25	1	692.00	2	16.60	2	817.0	2	0.2404	2	0.236	2	0.645
27851	C14H28	2-tetradecene	638-60-8	279.65	1	536.15	1	716.27	2	16.44	2	781.5	2	0.2513	2	0.216	2	0.550
27852	C14H28	2-methyl-1-tridecene	18094-01-4	251.37	1	523.15	1	690.08	2	17.55	2	801.5	2	0.1851	2	0.245	2	0.669

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_c, K	code	P_c, bar	code	V_c, ml/mol	code	rho_c, g/ml	code	Z_c	code	omega
27853	C14H28	trans-7-tetradecene	41446-63-3	263.77	2	523.15	1	699.45	2	16.86	2	800.0	2	0.2256	2	0.232	2	0.622
27854	C14H28Br2	1,1-dibromotetradecane	62168-31-4	351.64	2	612.15	1	787.47	2	17.13	2	937.5	2	0.3799	2	0.245	2	0.843
27855	C14H28Br2	1,14-dibromotetradecane	37688-96-3	323.55	1	612.15	2	787.47	2	17.13	2	937.5	2	0.3799	2	0.245	2	0.843
27856	C14H28Cl2	1,1-dichlorotetradecane	4168-40-5	291.88	2	588.15	1	758.80	2	14.48	2	911.5	2	0.2932	2	0.209	2	0.712
27857	C14H28F2	1,1-difluorotetradecane	62127-03-1	296.34	2	524.15	1	686.60	2	14.30	2	838.0	2	0.2797	2	0.210	2	0.595
27858	C14H28I2	1,1-diiodotetradecane	66826-79-7	348.16	2	705.56	2	913.90	2	14.82	2	989.5	2	0.4550	2	0.193	2	0.697
27862	C14H28O	tetradecanal	124-25-4	298.15	1	556.15	1	717.32	2	16.15	2	836.5	2	0.2539	2	0.227	2	0.784
27863	C14H28O	2-tetradecanone	2345-27-9	306.70	1	551.15	1	712.65	2	16.01	2	825.5	2	0.2573	2	0.223	2	0.759
27864	C14H28O	7-ethyl-2-methyl-4-undecanone	6976-00-7	311.33	2	525.65	1	712.65	2	16.01	2	825.5	2	0.2573	2	0.223	2	0.759
27865	C14H28O	2-methyl-3-tridecanone	40239-35-8	320.15	1	540.15	1	712.65	2	16.01	2	825.5	2	0.2573	2	0.223	2	0.759
27866	C14H28O	3-tetradecanone	629-23-2	307.15	1	512.95	2	712.65	2	16.01	2	825.5	2	0.2573	2	0.223	2	0.759
27867	C14H28O	dodecyl vinyl ether	765-14-0	---	---	510.00	2	726.00	2	19.00	2	780.8	2	0.2720	2	0.246	2	---
27870	C14H28O	cis-9-tetradecenol	35153-15-2	295.00	2	512.95	2	699.00	2	16.00	2	788.7	2	0.2693	2	0.217	2	---
27873	C14H28O2	tetradecanoic acid	544-63-8	327.37	1	599.35	1	765.00	2	17.00	2	811.0	2	0.2816	2	0.217	2	0.936
27874	C14H28O2	tridecyl formate	42875-41-2	305.74	2	577.24	2	725.40	2	14.70	2	865.0	2	0.2640	2	0.211	2	0.945
27875	C14H28O2	dodecyl acetate	112-66-3	274.25	1	538.15	1	720.30	2	14.30	2	867.0	2	0.2634	2	0.207	2	1.006
27876	C14H28O2	undecyl propanoate	5458-33-3	289.37	2	577.94	2	720.90	2	14.00	2	867.0	2	0.2634	2	0.203	2	0.982
27877	C14H28O2	decyl butanoate	5454-09-1	289.37	2	553.15	1	720.20	2	13.90	2	867.0	2	0.2634	2	0.201	2	0.620
27878	C14H28O2	octyl hexanoate	4887-30-3	245.15	1	548.15	1	695.00	2	16.60	2	817.7	2	0.2793	2	0.235	2	---
27879	C14H28O2	heptyl heptanoate	624-09-9	240.15	1	550.15	1	695.00	2	16.60	2	814.2	2	0.2805	2	0.234	2	---
27880	C14H28O2	hexyl octanoate	1117-55-1	242.55	1	550.55	1	695.00	2	16.60	2	810.8	2	0.2817	2	0.233	2	---
27881	C14H28O2	pentyl nonanoate	61531-45-1	246.15	1	559.87	2	695.00	2	16.60	2	807.4	2	0.2829	2	0.232	2	---
27882	C14H28O2	ethyl laurate	106-33-2	271.45	1	544.15	1	695.00	2	16.60	2	803.9	2	0.2841	2	0.231	2	---
27883	C14H28O2	methyl tridecanoate	1731-88-0	279.65	1	559.87	2	695.00	2	16.60	2	800.5	2	0.2853	2	0.230	2	---
27885	C14H28O2	3,7-dimethyloctanyl butyrate	67874-80-0	289.37	2	559.87	2	720.20	2	13.90	2	867.0	2	0.2634	2	0.201	2	0.620
27893	C14H28S	thiacyclopentadecane	295-51-2	310.43	2	580.15	1	827.84	2	22.57	2	727.5	2	0.3140	2	0.239	2	0.359
27895	C14H29Br	1-bromotetradecane	112-71-0	278.75	1	580.15	1	750.56	2	16.09	2	881.5	2	0.3146	2	0.227	2	0.758
27896	C14H29Br	1-bromo-12-methyltridecane	111772-90-8	278.75	2	580.15	2	750.56	2	16.09	2	881.5	2	0.3146	2	0.227	2	0.758
27897	C14H29Cl	1-chlorotetradecane	2425-54-9	278.05	1	569.99	1	738.54	2	14.80	2	868.5	2	0.2681	2	0.209	2	0.694
27899	C14H29F	1-fluorotetradecane	73180-09-3	277.15	1	531.15	1	688.70	2	14.30	2	828.0	2	0.2613	2	0.207	2	0.667
27901	C14H29I	1-iodotetradecane	19218-94-1	286.75	1	603.15	1	758.94	2	16.82	2	838.5	2	0.3867	2	0.224	2	1.030
27908	C14H29NO2	1-nitrotetradecane	31241-42-6	390.65	2	598.15	1	762.20	2	15.38	2	901.5	2	0.2700	2	0.219	2	0.851
27912	C14H30	tetradecane	629-59-4	279.01	1	526.73	1	693.00	1	15.70	1	830.0	1	0.2390	1	0.226	1	0.643
27913	C14H30	2-methyltridecane	1560-96-9	248.15	1	521.05	1	684.08	2	15.33	2	813.5	2	0.2439	2	0.219	2	0.622
27914	C14H30	3-methyltridecane	6418-41-3	235.65	1	521.85	1	685.13	2	15.33	2	813.5	2	0.2439	2	0.219	2	0.622
27915	C14H30	2,2-dimethyldodecane	49598-54-1	249.46	2	513.15	1	679.98	2	15.46	2	808.5	2	0.2454	2	0.221	2	0.566
27916	C14H30	2,3-dimethyldodecane	6117-98-2	217.04	2	520.15	1	686.04	2	15.43	2	807.5	2	0.2457	2	0.218	2	0.595
27917	C14H30	2,4-dimethyldodecane	6117-99-3	217.04	2	507.15	1	668.89	2	15.43	2	807.5	2	0.2457	2	0.224	2	0.595
27918	C14H30	7-methyltridecane	26730-14-3	235.95	1	518.35	2	682.75	2	15.53	2	815.6	2	0.2433	2	0.223	2	0.610
27922	C14H30O	1-tetradecanol	112-72-1	310.65	1	568.80	1	747.00	2	18.10	2	802.0	2	0.2673	2	0.234	2	0.743
27923	C14H30O	2-tetradecanol	4706-81-4	307.15	1	557.15	1	731.40	2	17.30	2	823.0	2	0.2605	2	0.234	2	0.694
27924	C14H30O	3-tetradecanol	1653-32-3	304.65	1	552.35	2	736.20	2	17.15	2	812.5	2	0.2639	2	0.228	2	0.686
27925	C14H30O	12-methyl-1-tridecanol	21987-21-3	283.65	1	552.35	2	736.20	2	17.15	2	812.5	2	0.2639	2	0.228	2	0.686
27926	C14H30O	2-methyl-3-tridecanol	98930-89-3	293.15	1	547.15	1	736.20	2	17.15	2	812.5	2	0.2639	2	0.228	2	0.686
27927	C14H30O	2-methyl-4-tridecanol	36691-77-7	301.79	2	552.35	2	736.20	2	17.15	2	812.5	2	0.2639	2	0.228	2	0.686
27928	C14H30O	diheptyl ether	629-64-1	269.27	2	535.15	1	692.83	2	15.03	2	837.5	2	0.2560	2	0.219	2	0.710
27929	C14H30O	tetradecanol; mixed isomers	27196-00-5	311.15	1	562.15	1	736.20	2	17.15	2	812.5	2	0.2639	2	0.228	2	0.686
27930	C14H30O2	1,2-tetradecanediol	21129-09-9	341.15	1	609.15	2	751.22	2	17.80	2	851.5	2	0.2706	2	0.243	2	1.293
27931	C14H30O2	1,3-tetradecanediol	---	353.68	2	620.15	2	764.79	2	17.80	2	851.5	2	0.2706	2	0.238	2	1.293
27932	C14H30O2	1,4-tetradecanediol	---	353.68	2	641.15	2	790.69	2	17.80	2	851.5	2	0.2706	2	0.231	2	1.293
27933	C14H30O2	1,14-tetradecanediol	19812-64-7	357.95	1	628.15	2	773.63	2	17.68	2	857.5	2	0.2687	2	0.236	2	1.304
27938	C14H30O2	2,2,9,9-tetramethyl-1,10-decanediol	35449-36-6	334.65	1	624.65	2	770.08	2	17.77	2	853.0	2	0.2701	2	0.237	2	1.296
27946	C14H30S	1-tetradecanethiol	2079-95-0	279.26	1	579.36	1	753.80	2	16.03	2	873.5	2	0.2638	2	0.223	2	0.707
27947	C14H30S	2-tetradecanethiol	62155-04-8	274.15	1	571.15	1	746.00	2	16.00	2	857.0	2	0.2689	2	0.221	2	0.683
27948	C14H30S	diheptyl sulfide	629-65-2	343.15	1	571.15	1	762.23	2	15.44	2	873.5	2	0.2638	2	0.213	2	0.700
27949	C14H30S	methyl tridecyl sulfide	62155-09-3	276.16	2	569.00	2	762.23	2	15.44	2	873.5	2	0.2638	2	0.213	2	0.700
27950	C14H30S	ethyl dodecyl sulfide	2851-83-4	276.16	2	569.00	2	762.23	2	15.44	2	873.5	2	0.2638	2	0.213	2	0.700
27951	C14H30S	propyl undecyl sulfide	66826-84-4	276.16	2	569.00	2	762.23	2	15.44	2	873.5	2	0.2638	2	0.213	2	0.700
27952	C14H30S	butyl decyl sulfide	19313-57-6	276.16	2	569.00	2	762.23	2	15.44	2	873.5	2	0.2638	2	0.213	2	0.700
27953	C14H30S2	diheptyl disulfide	10496-16-9	235.16	1	593.86	1	765.96	2	15.65	2	927.5	2	0.2830	2	0.228	2	0.758
27956	C14H31N	tetradecylamine	2016-42-4	311.34	1	564.45	1	722.00	2	16.60	2	840.0	2	0.2541	2	0.232	2	0.861
27957	C14H31N	methyltridecylamine	45165-81-9	274.15	2	550.15	1	710.20	2	15.60	2	840.0	2	0.2541	2	0.222	2	0.755
27958	C14H31N	ethyldodecylamine	35902-57-9	274.15	2	549.15	1	707.40	2	15.70	2	840.0	2	0.2541	2	0.224	2	0.776
27959	C14H31N	diheptylamine	2470-68-0	274.15	1	545.15	1	706.40	2	16.50	2	842.0	2	0.2535	2	0.237	2	0.761
27960	C14H31N	dimethyldodecylamine	112-18-5	252.85	1	544.15	1	714.50	2	15.10	2	840.0	2	0.2541	2	0.214	2	0.612
27961	C14H31N	diethyldecylamine	6308-94-7	252.85	2	520.15	1	675.16	2	15.70	2	857.5	2	0.2489	2	0.240	2	0.717
27973	C14H42O5Si6	tetradecamethylhexasiloxane	107-52-8	214.15	1	532.90	1	653.20	1	8.04	1	1808.0	1	0.2539	1	0.268	1	0.785
28029	C15H10N2O2	diphenylmethane-4,4'-diisocyanate	101-68-8	311.20	1	609.00	1	802.00	2	22.80	2	712.0	2	0.3515	2	0.243	2	0.950
28135.1	C15H12	1-phenylindene	1961-96-2	310.65	1	610.00	2	865.00	2	27.60	2	627.0	2	0.3066	2	0.241	2	0.470
28250	C15H14	1,1-diphenyl-1-propene	778-66-5	322.15	1	562.15	1	796.49	2	26.60	2	640.5	2	0.3033	2	0.257	2	0.465
28251	C15H14	1,2-diphenyl-1-propene	779-51-1	355.15	1	558.65	1	796.49	2	26.60	2	640.5	2	0.3033	2	0.257	2	0.465
28252	C15H14	1,3-diphenyl-1-propene	5209-18-7	289.15	1	575.15	1	796.49	2	26.60	2	640.5	2	0.3033	2	0.257	2	0.465
28253	C15H14	2,3-diphenyl-1-propene	948-97-0	321.15	1	562.15	1	796.49	2	26.60	2	640.5	2	0.3033	2	0.257	2	0.465
28379	C15H16	1,1-diphenylpropane	1530-03-6	286.85	1	556.37	1	774.30	2	23.90	2	722.0	2	0.2719	2	0.268	2	0.508
28380	C15H16	1,2-diphenylpropane	5814-85-7	273.40	1	556.81	1	781.16	2	25.30	2	653.5	2	0.3004	2	0.255	2	0.492
28381	C15H16	1,3-diphenylpropane	1081-75-0	252.40	1	571.85	1	797.05	2	25.10	2	659.5	2	0.2976	2	0.250	2	0.523
28382	C15H16	2,2-diphenylpropane	778-22-3	302.35	1	554.34	1	788.27	2	25.59	2	648.5	2	0.3027	2	0.253	2	0.430
28383	C15H16	2-methyl-1,1-diphenylethane	32341-92-7	304.56	2	562.15	1	787.73	2	24.93	2	653.5	2	0.3004	2	0.249	2	0.491
28384	C15H16	3-methyl-1,1-diphenylethane	32341-91-6	304.56	2	561.15	1	786.32	2	24.93	2	653.5	2	0.3004	2	0.249	2	0.491
28385	C15H16	4-methyl-1,1-diphenylethane	3717-68-8	304.56	2	563.15	1	789.13	2	24.93	2	653.5	2	0.3004	2	0.248	2	0.491

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
28386	C15H16	2-methyl-1,2-diphenylethane	34403-05-9	304.56	2	570.15	1	793.78	2	24.73	2	659.5	2	0.2976	2	0.247	2	0.522
28387	C15H16	3-methyl-1,2-diphenylethane	34403-06-0	304.56	2	569.15	1	792.39	2	24.73	2	659.5	2	0.2976	2	0.248	2	0.522
28388	C15H16	4-methyl-1,2-diphenylethane	14310-20-4	304.56	2	561.15	1	781.25	2	24.73	2	659.5	2	0.2976	2	0.251	2	0.522
28389	C15H16	2-ethyldiphenylmethane	28122-25-0	262.03	1	564.01	1	785.23	2	24.73	2	659.5	2	0.2976	2	0.250	2	0.522
28390	C15H16	3-ethyldiphenylmethane	28122-24-9	263.95	1	564.69	1	786.18	2	24.73	2	659.5	2	0.2976	2	0.249	2	0.522
28391	C15H16	4-ethyldiphenylmethane	620-85-9	249.65	1	570.18	1	793.82	2	24.73	2	659.5	2	0.2976	2	0.247	2	0.522
28392	C15H16	2',3'-dimethyldiphenylmethane	62155-16-2	304.56	2	570.15	1	792.88	2	24.36	2	659.5	2	0.2976	2	0.244	2	0.521
28393	C15H16	2',4'-dimethyldiphenylmethane	28122-28-3	304.56	2	569.15	1	791.49	2	24.36	2	659.5	2	0.2976	2	0.244	2	0.521
28394	C15H16	2',5'-dimethyldiphenylmethane	13540-50-6	304.56	2	568.15	1	790.10	2	24.36	2	659.5	2	0.2976	2	0.245	2	0.521
28395	C15H16	2',6'-dimethyldiphenylmethane	---	304.56	2	570.15	1	792.88	2	24.36	2	659.5	2	0.2976	2	0.244	2	0.521
28396	C15H16	3',4'-dimethyldiphenylmethane	13540-56-2	304.56	2	571.15	1	794.27	2	24.36	2	659.5	2	0.2976	2	0.243	2	0.521
28397	C15H16	3',5'-dimethyldiphenylmethane	28122-27-2	304.56	2	567.15	1	788.71	2	24.36	2	659.5	2	0.2976	2	0.245	2	0.521
28398	C15H16	2',2"-dimethyldiphenylmethane	28122-29-4	304.56	2	570.15	1	792.88	2	24.36	2	659.5	2	0.2976	2	0.244	2	0.521
28399	C15H16	2',3"-dimethyldiphenylmethane	21895-13-6	304.56	2	568.15	1	790.10	2	24.36	2	659.5	2	0.2976	2	0.245	2	0.521
28400	C15H16	2',4"-dimethyldiphenylmethane	21895-17-0	304.56	2	571.15	1	794.27	2	24.36	2	659.5	2	0.2976	2	0.243	2	0.521
28401	C15H16	3',3"-dimethyldiphenylmethane	---	304.56	2	567.15	1	788.71	2	24.36	2	659.5	2	0.2976	2	0.245	2	0.521
28402	C15H16	3',4"-dimethyldiphenylmethane	21895-16-9	304.56	2	570.15	1	792.88	2	24.36	2	659.5	2	0.2976	2	0.244	2	0.521
28403	C15H16	4',4"-dimethyldiphenylmethane	4957-14-6	302.15	1	573.15	1	797.05	2	24.36	2	659.5	2	0.2976	2	0.242	2	0.521
28429	C15H16O	p-cumylphenol	599-64-4	346.30	1	608.15	1	834.00	2	28.60	2	703.0	2	0.3020	2	0.290	2	0.689
28436	C15H16O2	bisphenol a	80-05-7	430.15	1	633.65	1	849.00	2	29.30	2	677.0	2	0.3372	2	0.281	2	0.946
28495	C15H18	2-pentylnaphthalene	93-22-1	269.16	1	583.16	1	797.48	2	22.74	2	689.5	2	0.2876	2	0.236	2	0.575
28496	C15H18	1,6-dimethyl-4-isopropylnaphthalene	483-78-3	260.16	2	567.15	1	795.40	2	22.74	2	689.5	2	0.2876	2	0.237	2	0.575
28497	C15H18	1-pentylnaphthalene	86-89-5	248.79	1	579.15	1	803.00	2	24.40	2	686.0	2	0.2891	2	0.251	2	0.535
28647	C15H22	1-pentyl-[1,2,3,4-tetrahydronaphthalene]	66359-06-6	277.38	2	562.78	1	767.60	2	20.91	2	716.5	2	0.2824	2	0.235	2	0.554
28648	C15H22	2-pentyl-[1,2,3,4-tetrahydronaphthalene]	66359-07-7	277.38	2	568.15	1	774.92	2	20.91	2	716.5	2	0.2824	2	0.233	2	0.554
28725	C15H24	nonylbenzene	1081-77-2	249.00	1	555.20	1	741.00	1	18.95	1	790.0	1	0.2587	1	0.243	1	0.638
28726	C15H24	1,2,4-triisopropylbenzene	948-32-3	273.13	2	517.15	1	741.00	2	18.95	2	790.0	2	0.2587	2	0.243	2	0.638
28727	C15H24	1,3,5-triisopropylbenzene	717-74-8	265.75	1	511.15	1	741.00	2	18.95	2	790.0	2	0.2587	2	0.243	2	0.638
28728	C15H24	3,5-di-tert-butyltoluene	15181-11-0	304.65	1	517.15	1	741.00	2	18.95	2	790.0	2	0.2587	2	0.243	2	0.638
28756	C15H24O	2,6-di-tert-butyl-p-cresol	128-37-0	342.90	1	541.15	1	724.00	2	21.10	2	757.0	2	0.2911	2	0.265	2	0.679
28757	C15H24O	nonylphenol	25154-52-3	329.76	2	590.76	1	770.00	2	20.70	2	757.0	2	0.2911	2	0.245	2	0.880
28758	C15H24O	2,4-di-tert-butyl-5-methylphenol	497-39-2	335.25	1	555.15	1	738.50	2	20.90	2	757.0	2	0.2911	2	0.258	2	0.793
28759	C15H24O	2,4-di-tert-butyl-6-methylphenol	616-55-7	324.15	1	542.15	1	738.50	2	20.90	2	757.0	2	0.2911	2	0.258	2	0.793
28764	C15H24O	4-nonylphenol	104-40-5	315.65	1	568.15	1	738.50	2	20.90	2	757.0	2	0.2911	2	0.258	2	0.793
28765	C15H24O	4-nonylphenol, isomers	84852-15-3	329.76	2	568.15	1	738.50	2	20.90	2	757.0	2	0.2911	2	0.258	2	0.793
28815	C15H28	1,1-dicyclohexylpropane	54934-91-7	249.75	1	556.71	1	766.86	2	19.79	2	741.5	2	0.2810	2	0.230	2	0.471
28816	C15H28	1,2-dicyclohexylpropane	41851-34-7	251.15	1	557.65	1	766.86	2	19.79	2	741.5	2	0.2810	2	0.230	2	0.471
28817	C15H28	1,3-dicyclohexylpropane	3178-24-3	256.15	1	564.65	1	766.86	2	19.79	2	741.5	2	0.2810	2	0.230	2	0.471
28818	C15H28	2,2-dicyclohexylpropane	54934-90-6	288.75	1	559.15	1	766.86	2	19.79	2	741.5	2	0.2810	2	0.230	2	0.471
28819	C15H28	1-decylcyclopentene	62184-75-2	234.40	2	542.15	1	718.60	2	16.77	2	802.5	2	0.2597	2	0.225	2	0.611
28820	C15H28	1-pentadecyne	765-13-9	283.16	1	541.16	1	711.41	2	15.87	2	837.5	2	0.2488	2	0.225	2	0.628
28821	C15H28	2-pentadecyne	52112-25-1	364.41	2	553.15	1	729.70	2	16.03	2	837.5	2	0.2488	2	0.221	2	0.616
28822	C15H28	3-pentadecyne	61886-61-1	364.41	2	544.15	1	717.83	2	16.03	2	837.5	2	0.2488	2	0.225	2	0.616
28827	C15H28O2	menthol 3-methylbutanoate	16409-46-4	274.45	2	547.08	2	760.00	2	17.00	2	836.4	2	0.2874	2	0.225	2	---
28829	C15H28O2	butyl 10-undecenoate	109-42-2	274.45	2	547.08	2	760.00	2	17.00	2	836.4	2	0.2874	2	0.225	2	---
28837	C15H29Br	cis-1-bromo-1-pentadecene	66374-76-3	313.03	2	582.15	1	750.39	2	15.54	2	917.5	2	0.3153	2	0.228	2	0.764
28838	C15H29Br	trans-1-bromo-1-pentadecene	66374-77-4	313.03	2	582.15	1	750.39	2	15.54	2	917.5	2	0.3153	2	0.228	2	0.764
28839	C15H29Br3	1,1,1-tribromopentadecane	62127-71-3	440.13	2	652.15	1	829.92	2	16.91	2	1050.5	2	0.4275	2	0.257	2	0.927
28840	C15H29Cl	cis-1-chloro-1-pentadecene	66374-78-5	283.15	2	587.15	1	757.95	2	14.32	2	904.5	2	0.2707	2	0.205	2	0.700
28841	C15H29Cl	trans-1-chloro-1-pentadecene	66374-79-6	283.15	2	587.15	1	757.95	2	14.32	2	904.5	2	0.2707	2	0.205	2	0.700
28842	C15H29Cl3	1,1,1-trichloropentadecane	62108-59-2	350.49	2	616.15	1	787.14	2	13.22	2	1011.5	2	0.3122	2	0.204	2	0.729
28843	C15H29F	cis-1-fluoro-1-pentadecene	66291-42-7	285.38	2	546.03	2	704.64	2	14.23	2	873.5	2	0.2615	2	0.212	2	0.699
28844	C15H29F	trans-1-fluoro-1-pentadecene	66291-43-8	285.38	2	546.03	2	704.64	2	14.23	2	873.5	2	0.2615	2	0.212	2	0.699
28845	C15H29F3	1,1,1-trifluoropentadecane	62127-00-8	357.18	2	530.15	1	684.80	2	13.50	2	907.0	2	0.2937	2	0.215	2	0.658
28846	C15H29I	cis-1-iodo-1-pentadecene	66291-44-9	311.29	2	604.15	1	781.44	2	14.48	2	943.5	2	0.3564	2	0.210	2	0.693
28847	C15H29I	trans-1-iodo-1-pentadecene	66291-45-0	311.29	2	604.15	1	781.44	2	14.48	2	943.5	2	0.3564	2	0.210	2	0.693
28848	C15H29I3	1,1,1-triiodopentadecane	---	434.91	2	818.79	2	1051.69	2	13.67	2	1128.5	2	0.5229	2	0.176	2	0.708
28849	C15H29N	pentadecanenitrile	18300-91-9	295.85	1	595.15	1	756.38	2	13.89	2	901.5	2	0.2478	2	0.199	2	0.805
28855	C15H30	decylcyclopentane	1795-21-7	251.02	1	552.54	1	730.64	2	16.29	2	816.5	2	0.2577	2	0.219	2	0.604
28856	C15H30	nonylcyclohexane	2883-02-5	262.96	1	554.66	1	737.79	2	16.62	2	808.5	2	0.2602	2	0.219	2	0.577
28857	C15H30	1-ethyl-1-methyl-2,4-diisopropylcyclohexane, (1R-(1alpha,2beta,4beta))	515-12-8	262.96	2	549.62	2	737.79	2	16.62	2	808.5	2	0.2602	2	0.219	2	0.577
28858	C15H30	cyclopentadecane	295-48-7	337.35	1	559.15	1	791.72	2	20.76	2	737.5	2	0.2853	2	0.233	2	0.357
28859	C15H30	1-pentadecene	13360-61-7	269.42	1	541.61	1	708.00	2	15.70	2	875.0	2	0.2405	2	0.233	2	0.684
28860	C15H30	2-methyl-1-tetradecene	52254-38-3	258.08	1	540.15	1	704.33	2	14.67	2	857.5	2	0.2454	2	0.215	2	0.642
28861	C15H30	7-pentadecene	15430-98-5	263.75	2	549.62	2	706.17	2	15.18	2	866.3	2	0.2429	2	0.224	2	0.663
28862	C15H30	8-pentadecene	15430-98-5	263.75	2	549.62	2	706.17	2	15.18	2	866.3	2	0.2429	2	0.224	2	0.663
28862.1	C15H30	trans-2-pentadecene	74392-36-2	263.00	2	537.00	2	702.00	2	15.70	2	847.0	2	0.2484	2	0.228	2	0.695
28864	C15H30Br2	1,1-dibromopentadecane	62168-32-5	362.91	2	626.15	1	798.14	2	15.85	2	993.5	2	0.3726	2	0.237	2	0.869
28865	C15H30Cl2	1,1-dichloropentadecane	822-15-1	303.15	2	603.15	1	770.83	2	13.48	2	967.5	2	0.2908	2	0.203	2	0.738
28866	C15H30F2	1,1-difluoropentadecane	62127-04-2	307.61	2	539.15	1	699.80	2	13.40	2	893.0	2	0.2782	2	0.206	2	0.619
28867	C15H30I2	1,1-diiodopentadecane	66325-78-8	359.43	2	728.44	2	934.29	2	13.78	2	1045.5	2	0.4440	2	0.185	2	0.725
28873	C15H30O	pentadecanal	2765-11-9	300.15	1	570.15	1	728.48	2	14.98	2	892.5	2	0.2537	2	0.221	2	0.811
28874	C15H30O	2-pentadecanone	2345-28-0	312.20	1	565.15	1	723.72	2	14.85	2	881.5	2	0.2568	2	0.218	2	0.787
28875	C15H30O	8-pentadecanone	818-23-5	316.15	1	564.15	1	723.72	2	14.85	2	881.5	2	0.2568	2	0.218	2	0.787
28877	C15H30O	1-pentadecen-3-ol	99814-65-0	300.65	1	566.48	2	713.00	2	15.00	2	850.3	2	0.2663	2	0.215	2	---
28879	C15H30O2	pentadecanoic acid	1002-84-2	325.68	1	612.05	1	775.00	2	16.00	2	864.0	2	0.2806	2	0.215	2	0.959
28880	C15H30O2	tetradecyl formate	5451-63-8	317.01	2	600.12	2	736.70	2	13.60	2	923.0	2	0.2626	2	0.205	2	1.130
28881	C15H30O2	tridecyl acetate	1072-33-9	281.55	1	555.00	2	732.00	2	13.20	2	925.0	2	0.2621	2	0.201	2	1.194
28882	C15H30O2	dodecyl propanoate	6221-93-8	300.64	2	600.82	2	733.10	2	13.00	2	925.0	2	0.2621	2	0.197	2	1.163
28883	C15H30O2	undecyl butanoate	5461-02-9	300.64	2	600.82	2	732.50	2	13.00	2	925.0	2	0.2621	2	0.197	2	---

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
28884	C15H30O2	octyl heptanoate	5132-75-2	250.65	1	563.15	1	708.00	2	15.80	2	853.1	2	0.2841	2	0.229	2	---
28885	C15H30O2	heptyl octanoate	4265-97-8	262.55	1	563.65	1	708.00	2	15.80	2	849.4	2	0.2854	2	0.228	2	---
28886	C15H30O2	propyl dodecanoate	3681-78-5	268.45	2	588.70	2	708.00	2	15.80	2	845.7	2	0.2866	2	0.227	2	---
28887	C15H30O2	isopropyl dodecanoate	10233-13-3	268.45	2	588.70	2	708.00	2	15.80	2	842.1	2	0.2879	2	0.226	2	---
28888	C15H30O2	methyl tetradecanoate	124-10-7	292.15	1	568.15	1	708.00	2	15.80	2	838.4	2	0.2891	2	0.225	2	---
28889	C15H30O2	ethyl tridecanoate	28267-29-0	268.45	2	588.70	2	708.00	2	15.80	2	834.7	2	0.2904	2	0.224	2	---
28895	C15H30S	thiacyclohexadecane	295-68-1	318.18	2	592.15	1	836.95	2	21.12	2	775.5	2	0.3127	2	0.235	2	0.373
28898	C15H31Br	1-bromopentadecane	629-72-1	292.15	1	595.15	1	762.51	2	14.92	2	937.5	2	0.3107	2	0.221	2	0.786
28899	C15H31Cl	1-chloropentadecane	4862-03-1	287.85	1	585.15	1	750.73	2	13.77	2	924.5	2	0.2670	2	0.204	2	0.722
28900	C15H31F	1-fluoropentadecane	1555-17-5	290.15	1	547.15	1	702.10	2	13.30	2	883.0	2	0.2609	2	0.201	2	0.698
28901	C15H31I	1-iodopentadecane	35599-78-1	297.15	1	617.15	1	771.45	2	15.57	2	894.5	2	0.3782	2	0.217	2	1.040
28903	C15H31NO2	1-nitropentadecane	39220-65-0	401.92	2	611.15	1	772.46	2	14.28	2	957.5	2	0.2688	2	0.213	2	0.872
28904	C15H32	pentadecane	629-62-9	283.07	1	543.83	1	708.00	1	14.80	1	889.0	2	0.2389	2	0.224	1,2	0.686
28905	C15H32	2-methyltetradecane	1560-95-8	264.85	1	538.35	1	698.98	2	14.24	2	869.5	2	0.2443	2	0.213	2	0.654
28906	C15H32	3-methyltetradecane	18435-22-8	241.15	1	539.45	1	700.41	2	14.24	2	869.5	2	0.2443	2	0.213	2	0.654
28907	C15H32	2,2-dimethyltridecane	61869-04-3	260.73	2	530.15	1	694.17	2	14.36	2	864.5	2	0.2457	2	0.215	2	0.601
28908	C15H32	2,3-dimethyltridecane	18435-20-6	228.31	2	538.15	1	701.64	2	14.33	2	863.5	2	0.2460	2	0.212	2	0.629
28909	C15H32	2,4-dimethyltridecane	61868-05-1	228.31	2	524.15	1	683.39	2	14.33	2	863.5	2	0.2460	2	0.218	2	0.629
28912	C15H32O	1-pentadecanol	629-76-5	317.05	1	583.40	1	759.00	2	17.00	2	854.0	2	0.2675	2	0.230	2	0.780
28913	C15H32O	2-pentadecanol	1653-34-5	308.15	1	572.15	1	743.20	2	16.10	2	878.0	2	0.2602	2	0.229	2	0.728
28914	C15H32O	3-pentadecanol	53346-71-7	311.95	1	661.15	1	732.87	2	15.65	2	886.3	2	0.2578	2	0.228	2	0.871
28915	C15H32O	2,8-dimethyl-6-isobutylnonanol-4	10143-20-1	312.38	2	603.77	2	732.87	2	15.65	2	886.3	2	0.2578	2	0.228	2	0.871
28916	C15H32O2	1,2-pentadecanediol	33968-47-7	364.95	2	623.15	2	766.08	2	16.44	2	907.5	2	0.2693	2	0.234	2	1.267
28917	C15H32O2	1,3-pentadecanediol	---	364.95	2	634.15	2	779.60	2	16.44	2	907.5	2	0.2693	2	0.230	2	1.267
28918	C15H32O2	1,4-pentadecanediol	---	364.95	2	655.15	2	805.42	2	16.44	2	907.5	2	0.2693	2	0.223	2	1.267
28919	C15H32O2	1,15-pentadecanediol	14722-40-8	360.15	1	642.15	2	788.66	2	16.34	2	913.5	2	0.2676	2	0.228	2	1.274
28921	C15H32S	1-pentadecanethiol	25276-70-4	290.93	1	593.86	1	764.77	2	14.86	2	929.5	2	0.2630	2	0.217	2	0.737
28922	C15H32S	2-pentadecanethiol	62155-05-9	280.15	1	586.15	1	757.00	2	15.00	2	912.0	2	0.2681	2	0.217	2	0.727
28923	C15H32S	methyl tetradecyl sulfide	7289-45-4	284.16	2	583.00	2	775.15	2	14.34	2	929.5	2	0.2630	2	0.207	2	0.729
28924	C15H32S	ethyl tridecyl sulfide	66271-81-6	284.16	2	583.00	2	775.15	2	14.34	2	929.5	2	0.2630	2	0.207	2	0.729
28925	C15H32S	propyl dodecyl sulfide	66271-82-7	284.16	2	583.00	2	775.15	2	14.34	2	929.5	2	0.2630	2	0.207	2	0.729
28926	C15H32S	butyl undecyl sulfide	66271-83-8	284.16	2	583.00	2	775.15	2	14.34	2	929.5	2	0.2630	2	0.207	2	0.729
28931	C15H33N	pentadecylamine	2570-26-5	309.65	1	586.15	1	746.50	2	13.90	2	895.0	2	0.2541	2	0.200	2	0.787
28932	C15H33N	methyltetradecylamine	29369-63-9	301.15	1	566.15	1	722.70	2	14.40	2	895.0	2	0.2541	2	0.214	2	0.792
28933	C15H33N	ethyltridecylamine	59570-06-8	305.40	2	565.15	1	720.60	2	14.60	2	895.0	2	0.2541	2	0.218	2	0.811
28934	C15H33N	dimethyltridecylamine	17373-29-4	260.00	2	560.15	1	727.40	2	14.00	2	895.0	2	0.2541	2	0.207	2	0.643
28935	C15H33N	diethylundecylamine	54334-64-4	260.00	2	536.15	1	688.97	2	14.57	2	913.5	2	0.2490	2	0.232	2	0.746
28936	C15H33N	tripentylamine	621-77-2	315.63	2	516.15	1	660.00	2	15.00	2	893.0	2	0.2547	2	0.244	2	0.853
28937	C15H33N	triisopentylamine	645-41-0	260.00	2	508.15	1	711.57	2	14.34	2	901.2	2	0.2524	2	0.218	2	0.754
28938	C15H33N	tris(2-methylbutyl)amine	620-43-9	260.00	2	505.15	1	711.57	2	14.34	2	901.2	2	0.2524	2	0.218	2	0.754
28984	C16H10	fluoranthene	206-44-0	383.36	1	655.95	1	905.00	2	26.10	2	655.0	2	0.3088	2	0.227	2	0.588
28985	C16H10	pyrene	129-00-0	423.81	1	667.95	1	936.00	2	26.10	2	660.0	2	0.3064	2	0.221	2	0.507
29024	C16H12	1-phenylnaphthalene	605-02-7	318.15	1	607.15	1	849.00	2	26.30	2	656.0	2	0.3114	2	0.244	2	0.531
29232	C16H16	1,1-diphenyl-1-butene	1726-14-3	---	---	567.85	1	790.85	2	24.15	2	696.5	2	0.2991	2	0.256	2	0.509
29233	C16H16	1,3-diphenyl-1-butene	7614-93-9	320.65	1	584.15	1	790.85	2	24.15	2	696.5	2	0.2991	2	0.256	2	0.509
29234	C16H16	cis-2,3-diphenyl-2-butene	782-05-8	340.65	1	582.82	2	790.85	2	24.15	2	696.5	2	0.2991	2	0.256	2	0.509
29235	C16H16	trans-2,3-diphenyl-2-butene	782-06-9	380.15	1	582.82	2	790.85	2	24.15	2	696.5	2	0.2991	2	0.256	2	0.509
29290.1	C16H16O2	trans-3,5-dimethoxystilbene	21956-56-9	329.55	1	668.00	2	885.00	2	21.60	2	721.0	2	0.3333	2	0.212	2	0.770
29342	C16H18	1,1-diphenylbutane	719-79-9	247.95	1	557.44	1	778.30	2	22.00	2	777.0	2	0.2707	2	0.264	2	0.452
29343	C16H18	1,2-diphenylbutane	5223-59-6	302.63	2	564.15	1	778.30	2	22.00	2	777.0	2	0.2707	2	0.264	2	0.452
29344	C16H18	1,4-diphenylbutane	1083-56-3	325.65	1	590.15	1	778.30	2	22.00	2	777.0	2	0.2707	2	0.264	2	0.452
29346	C16H18	1,3-diphenylbutane, (±)	116783-21-2	302.63	2	566.15	1	778.30	2	22.00	2	777.0	2	0.2707	2	0.264	2	0.452
29347	C16H18	1,3-diphenyl-2-methylpropane	1520-46-3	239.45	1	576.15	1	778.30	2	22.00	2	777.0	2	0.2707	2	0.264	2	0.452
29356	C16H18	DL-2,3-diphenylbutane	2726-21-8	302.63	2	577.20	1	778.30	2	22.00	2	777.0	2	0.2707	2	0.264	2	0.452
29358	C16H18	meso-2,3-diphenylbutane	4613-11-0	397.45	1	570.25	2	778.30	2	22.00	2	777.0	2	0.2707	2	0.264	2	0.452
29359.1	C16H18	4-ethyl-bibenzyl	7439-15-8	292.00	2	565.15	1	771.00	2	21.70	2	704.0	2	0.2987	2	0.238	2	0.578
29440	C16H20	1-hexylnaphthalene	2876-53-1	255.15	1	595.15	1	813.00	2	22.50	2	741.0	2	0.2866	2	0.247	2	0.587
29441	C16H20	2-hexylnaphthalene	2876-46-2	267.65	1	596.15	1	803.49	2	20.79	2	745.5	2	0.2848	2	0.232	2	0.623
29442	C16H20	1-isopropyl-2,4,7-trimethylnaphthalene	6995-30-8	303.85	2	581.25	2	808.25	2	21.65	2	743.3	2	0.2857	2	0.239	2	0.605
29443	C16H20	1,2,5-trimethyl-8-isopropylnaphthalene	6897-76-3	360.15	1	581.25	2	808.25	2	21.65	2	743.3	2	0.2857	2	0.239	2	0.605
29444	C16H20	1,3,8-trimethyl-5-isopropylnaphthalene	6897-88-7	294.65	1	581.25	2	808.25	2	21.65	2	743.3	2	0.2857	2	0.239	2	0.605
29445	C16H20	2,6-diisopropylnaphthalene	24157-81-1	341.65	1	552.45	1	808.25	2	21.65	2	743.3	2	0.2857	2	0.239	2	0.605
29446	C16H20	bis(isopropyl)naphthalene	38640-62-9	303.85	2	581.25	2	808.25	2	21.65	2	743.3	2	0.2857	2	0.239	2	0.605
29518	C16H22O4	dibutyl phthalate	84-74-2	238.15	1	613.15	1	781.00	2	17.50	2	846.0	2	0.3290	2	0.228	2	0.957
29519	C16H22O4	diisobutyl phthalate	84-69-5	223.15	1	593.15	1	762.00	2	17.80	2	891.0	2	0.3124	2	0.250	2	0.916
29559	C16H24	1-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-11-9	288.65	2	578.15	1	779.00	2	18.90	2	771.0	2	0.2806	2	0.225	2	0.589
29560	C16H24	2-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-09-5	288.65	2	583.15	1	784.07	2	19.19	2	772.5	2	0.2801	2	0.227	2	0.594
29561	C16H24	1,2,3,4-tetrahydro-6-ethyl-1,1,4,4-tetramethylnaphthalene	80-81-9	288.65	2	580.65	2	780.71	2	19.19	2	772.5	2	0.2801	2	0.228	2	0.594
29595	C16H26	decylbenzene	104-72-3	258.77	1	571.04	1	753.00	2	17.70	2	813.0	2	0.2686	2	0.230	2	0.680
29596	C16H26	pentaethylbenzene	605-01-6	205.00	1	550.16	1	731.00	2	18.90	2	813.0	2	0.2686	2	0.253	2	0.670
29599	C16H26	(1-methylnonyl)benzene	4537-13-7	272.65	1	562.65	1	738.32	2	16.96	2	852.3	2	0.2566	2	0.235	2	0.659
29608	C16H26O	2,6-di-tert-butyl-4-ethylphenol	4130-42-1	317.15	1	545.15	1	750.00	2	20.00	2	769.3	2	0.3047	2	0.247	2	---
29609	C16H26O	2,4-di-tert-amylphenol	120-95-6	298.15	1	545.15	2	750.00	2	20.00	2	769.3	2	0.3047	2	0.247	2	---
29622	C16H27N	4-decylaniline	37529-30-9	298.15	1	568.00	2	750.00	2	19.00	2	845.4	2	0.2761	2	0.258	2	---
29637	C16H28S	3-dodecylthiophene	104934-52-3	---	---	563.15	1	815.00	2	17.00	2	979.6	2	0.2577	2	0.246	2	---
29640	C16H30	1-hexadecyne	629-74-3	288.16	1	557.16	1	724.26	2	14.72	2	893.5	2	0.2489	2	0.218	2	0.661
29641	C16H30	2-hexadecyne	629-75-4	293.15	1	569.15	1	742.19	2	14.86	2	893.5	2	0.2489	2	0.215	2	0.650
29642	C16H30	3-hexadecyne	61886-62-2	375.68	2	559.15	1	729.15	2	14.86	2	893.5	2	0.2489	2	0.219	2	0.650
29643	C16H30	1,1-dicyclohexylbutane	54890-00-5	262.75	1	566.12	1	768.14	2	18.20	2	797.5	2	0.2789	2	0.227	2	0.512
29644	C16H30	1,4-dicyclohexylbutane	6165-44-2	285.15	1	578.15	1	768.14	2	18.20	2	797.5	2	0.2789	2	0.227	2	0.512

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
29645	C16H30	1,3-dicyclohexyl-2-methylpropane	2883-08-1	273.75	1	568.35	1	768.14	2	18.20	2	797.5	2	0.2789	2	0.227	2	0.512
29646	C16H30	1-undecylcyclopentene	62184-76-3	245.67	2	557.15	1	729.70	2	15.52	2	858.5	2	0.2591	2	0.220	2	0.646
29648	C16H30	1,3-dicyclohexylbutane	41851-35-8	273.88	2	576.34	1	768.14	2	18.20	2	797.5	2	0.2789	2	0.227	2	0.512
29660	C16H30O2	7-hexadecenoic acid	1191-75-9	306.15	1	610.00	2	896.00	2	17.00	2	925.6	2	0.2749	2	0.211	2	---
29661	C16H30O2	9-hexadecenoic acid	2091-29-4	273.65	1	610.00	2	896.00	2	17.00	2	925.6	2	0.2749	2	0.211	2	---
29662	C16H30O2	cis-9-hexadecenoic acid	373-49-9	273.05	1	610.00	2	896.00	2	17.00	2	925.6	2	0.2749	2	0.211	2	---
29663	C16H30O2	lauryl methacrylate	142-90-5	298.15	2	581.15	1	782.00	2	16.00	2	906.4	2	0.2807	2	0.223	2	---
29665	C16H30O2	cis-9-tetradecenyl acetate	16725-53-4	298.15	2	581.15	2	782.00	2	16.00	2	906.4	2	0.2807	2	0.223	2	---
29666	C16H30O2	cis-tetradec-11-en-1-yl acetate	20711-10-8	298.15	1	581.15	2	782.00	2	16.00	2	906.4	2	0.2807	2	0.223	2	---
29667	C16H30O2	trans-tetradec-11-en-1-yl acetate	33189-72-9	298.15	1	581.15	2	782.00	2	16.00	2	906.4	2	0.2807	2	0.223	2	---
29684	C16H31Br	cis-1-bromo-1-hexadecene	66271-67-8	324.30	2	596.15	1	761.27	2	14.42	2	973.5	2	0.3116	2	0.222	2	0.790
29685	C16H31Br	trans-1-bromo-1-hexadecene	66271-68-9	324.30	2	596.15	1	761.27	2	14.42	2	973.5	2	0.3116	2	0.222	2	0.790
29688	C16H31Br3	1,1,1-tribromohexadecane	62127-72-4	451.40	2	664.15	1	838.47	2	15.65	2	1106.5	2	0.4186	2	0.248	2	0.947
29689	C16H31Cl	cis-1-chloro-1-hexadecene	66271-69-0	294.42	2	603.15	1	771.23	2	13.33	2	960.5	2	0.2695	2	0.200	2	0.727
29690	C16H31Cl	trans-1-chloro-1-hexadecene	66271-70-3	294.42	2	603.15	1	771.23	2	13.33	2	960.5	2	0.2695	2	0.200	2	0.727
29692	C16H31Cl3	1,1,1-trichlorohexadecane	62108-60-5	361.76	2	630.15	1	798.28	2	12.35	2	1067.5	2	0.3089	2	0.199	2	0.750
29693	C16H31F	cis-1-fluoro-1-hexadecene	66271-71-4	296.65	2	568.91	2	727.24	2	13.25	2	929.5	2	0.2608	2	0.204	2	0.725
29694	C16H31F	trans-1-fluoro-1-hexadecene	66271-72-5	296.65	2	568.91	2	727.24	2	13.25	2	929.5	2	0.2608	2	0.204	2	0.725
29695	C16H31F3	1,1,1-trifluorohexadecane	62127-01-9	368.45	2	545.15	1	698.20	2	12.70	2	962.0	2	0.2915	2	0.210	2	0.682
29696	C16H31I	cis-1-iodo-1-hexadecene	66271-73-6	322.56	2	618.15	1	791.82	2	13.48	2	999.5	2	0.3505	2	0.205	2	0.720
29697	C16H31I	trans-1-iodo-1-hexadecene	66271-74-7	322.56	2	618.15	1	791.82	2	13.48	2	999.5	2	0.3505	2	0.205	2	0.720
29698	C16H31I3	1,1,1-triiodohexadecane	---	446.18	2	841.67	2	1071.39	2	12.75	2	1184.5	2	0.5100	2	0.169	2	0.732
29699	C16H31N	hexadecanenitrile	629-79-8	304.65	1	609.15	1	768.13	2	12.95	2	957.5	2	0.2480	2	0.194	2	0.823
29704	C16H32	undecylcyclopentane	6785-23-5	263.16	1	568.76	1	743.30	2	15.09	2	872.5	2	0.2572	2	0.213	2	0.638
29705	C16H32	decylcyclohexane	1795-16-0	271.43	1	570.75	1	751.25	2	16.50	2	858.0	2	0.2616	2	0.227	2	0.663
29706	C16H32	cyclohexadecane	295-65-8	335.25	1	573.15	1	804.08	2	19.48	2	785.5	2	0.2857	2	0.229	2	0.371
29707	C16H32	1-hexadecene	629-73-2	277.51	1	558.02	1	722.00	2	14.80	2	933.0	2	0.2405	2	0.230	2	0.724
29708	C16H32	2-methyl-1-pentadecene	29833-69-0	266.58	1	557.15	1	718.92	2	13.65	2	913.5	2	0.2457	2	0.209	2	0.673
29709	C16H32	2-methyl-1-propene, tetramer	15220-85-6	175.15	1	517.15	1	720.46	2	14.22	2	923.3	2	0.2431	2	0.219	2	0.702
29710	C16H32Br2	1,16-dibromohexadecane	45223-18-5	329.15	1	639.15	2	808.08	2	14.70	2	1049.5	2	0.3661	2	0.230	2	0.889
29711	C16H32Br2	1,1-dibromohexadecane	62168-33-6	374.18	2	639.15	1	808.08	2	14.70	2	1049.5	2	0.3661	2	0.230	2	0.889
29712	C16H32Cl2	1,1-dichlorohexadecane	62017-19-0	314.42	2	617.15	1	782.08	2	12.57	2	1023.5	2	0.2886	2	0.198	2	0.760
29713	C16H32F2	1,1-difluorohexadecane	62127-05-3	318.88	2	553.15	1	712.10	2	12.50	2	948.0	2	0.2768	2	0.200	2	0.633
29714	C16H32I2	1,1-diiodohexadecane	66271-75-8	370.70	2	751.32	2	955.15	2	12.85	2	1101.5	2	0.4342	2	0.178	2	0.748
29717	C16H32O	hexadecanal	629-80-1	309.15	1	584.15	1	740.10	2	13.92	2	948.5	2	0.2535	2	0.215	2	0.833
29718	C16H32O	2-hexadecanone	18787-63-8	317.15	1	580.15	1	736.51	2	13.81	2	937.5	2	0.2565	2	0.211	2	0.810
29719	C16H32O	3-hexadecanone	18787-64-9	316.15	1	569.98	2	736.51	2	13.81	2	937.5	2	0.2565	2	0.211	2	0.810
29721	C16H32O2	hexadecanoic acid	57-10-3	335.66	1	624.15	1	785.00	2	15.10	2	917.0	2	0.2796	2	0.212	2	0.983
29722	C16H32O2	2-hexyldecanoic acid	25354-97-6	336.00	2	586.63	2	776.00	2	15.10	2	917.0	2	0.2796	2	0.215	2	1.083
29723	C16H32O2	pentadecyl formate	66271-76-9	286.83	1	623.00	2	747.30	2	12.60	2	981.0	2	0.2614	2	0.199	2	---
29724	C16H32O2	tetradecyl acetate	638-59-5	287.15	1	570.00	2	742.90	2	12.30	2	983.0	2	0.2609	2	0.196	2	---
29725	C16H32O2	tridecyl propanoate	66271-77-0	272.73	1	623.70	2	744.30	2	12.20	2	983.0	2	0.2609	2	0.194	2	---
29726	C16H32O2	dodecyl butanoate	3724-61-6	259.15	1	623.70	2	743.90	2	12.10	2	983.0	2	0.2609	2	0.192	2	---
29727	C16H32O2	octyl octanoate	2306-88-9	255.05	1	579.95	1	721.00	2	15.00	2	891.4	2	0.2877	2	0.223	2	---
29728	C16H32O2	heptyl nonanoate	71605-85-1	257.65	1	586.63	2	721.00	2	15.00	2	887.5	2	0.2889	2	0.222	2	---
29729	C16H32O2	ethyl myristate	124-06-1	285.45	1	568.15	1	721.00	2	15.00	2	883.5	2	0.2902	2	0.221	2	---
29730	C16H32O2	methyl pentadecanoate	7132-64-1	291.65	1	426.65	1	721.00	2	15.00	2	879.6	2	0.2915	2	0.220	2	---
29731	C16H32O2	n-butyl laurate	106-18-3	266.31	1	586.63	2	721.00	2	15.00	2	875.6	2	0.2928	2	0.219	2	---
29732	C16H32O2	2-ethylhexyl-2-ethylhexanoate	7425-14-1	271.22	2	586.63	2	721.00	2	15.00	2	871.7	2	0.2942	2	0.218	2	---
29738	C16H32S	thiacycloheptadecane	296-00-4	325.93	2	603.15	1	844.72	2	19.81	2	823.5	2	0.3115	2	0.232	2	0.387
29739	C16H33Br	1-bromohexadecane	112-82-3	291.05	1	609.15	1	773.66	2	13.87	2	993.5	2	0.3073	2	0.214	2	0.809
29740	C16H33Cl	1-chlorohexadecane	4860-03-1	291.05	1	599.75	1	762.66	2	12.84	2	980.5	2	0.2661	2	0.199	2	0.746
29744	C16H33F	1-fluorohexadecane	408-38-8	291.15	1	562.15	1	714.60	2	12.30	2	938.0	2	0.2606	2	0.194	2	0.719
29746	C16H33I	1-iodohexadecane	544-77-4	297.85	1	630.15	1	783.25	2	14.46	2	950.5	2	0.3707	2	0.211	2	1.042
29750	C16H33NO2	1-nitrohexadecane	66271-50-9	413.19	2	623.15	1	782.00	2	13.30	2	1013.5	2	0.2678	2	0.207	2	0.886
29754	C16H34	hexadecane	544-76-3	291.31	1	560.01	1	723.00	1	14.00	1	969.2	2	0.2336	2	0.226	1,2	0.717
29755	C16H34	2-methylpentadecane	1560-93-6	266.15	1	554.75	1	713.05	2	13.26	2	969.2	2	0.2336	2	0.217	2	0.683
29756	C16H34	3-methylpentadecane	2882-96-4	250.85	1	555.15	1	713.56	2	13.26	2	969.2	2	0.2336	2	0.217	2	0.683
29757	C16H34	2,2-dimethyltetradecane	59222-86-5	272.00	2	547.15	1	708.68	2	13.37	2	969.2	2	0.2336	2	0.220	2	0.632
29758	C16H34	2,3-dimethyltetradecane	18435-23-9	239.58	2	555.15	1	716.26	2	13.34	2	969.2	2	0.2336	2	0.217	2	0.659
29759	C16H34	2,4-dimethyltetradecane	61868-06-2	239.58	2	539.15	1	695.62	2	13.34	2	969.2	2	0.2336	2	0.224	2	0.659
29760	C16H34	2,2,4,4,6,8,8-heptamethylnonane	4390-04-9	259.92	2	519.50	1	692.00	1	15.70	2	969.2	2	0.2336	2	0.264	1,2	0.548
29766	C16H34O	1-hexadecanol	36653-82-4	322.35	1	597.23	1	770.00	2	16.10	2	907.0	2	0.2673	2	0.228	2	0.816
29767	C16H34O	2-hexadecanol	14852-31-4	317.15	1	587.15	1	754.20	2	14.90	2	933.0	2	0.2599	2	0.222	2	0.764
29768	C16H34O	3-hexadecanol	593-03-3	323.15	1	568.53	2	757.60	2	15.00	2	920.0	2	0.2636	2	0.219	2	0.756
29769	C16H34O	2-methyl-1-pentadecanol	25354-98-7	285.65	1	568.53	2	757.60	2	15.00	2	920.0	2	0.2636	2	0.219	2	0.756
29770	C16H34O	6-methyl-6-pentadecanol	108836-86-8	312.08	2	568.53	2	757.60	2	15.00	2	920.0	2	0.2636	2	0.219	2	0.756
29771	C16H34O	dioctyl ether	629-82-3	265.55	1	559.65	1	707.00	2	14.40	2	910.0	2	0.2664	2	0.223	2	0.934
29772	C16H34O	bis(2-ethylhexyl) ether	10143-60-9	265.55	2	542.15	1	707.00	2	14.40	2	910.0	2	0.2664	2	0.223	2	0.934
29773	C16H34O	2-hexyl-1-decanol	2425-77-6	312.08	2	568.53	2	757.60	2	15.00	2	920.0	2	0.2636	2	0.219	2	0.756
29776	C16H34O2	1,2-hexadecanediol	6920-24-7	347.15	1	637.15	2	781.52	2	15.23	2	963.5	2	0.2682	2	0.226	2	1.232
29777	C16H34O2	1,3-hexadecanediol	34014-79-4	376.22	2	648.15	2	795.01	2	15.23	2	963.5	2	0.2682	2	0.222	2	1.232
29778	C16H34O2	1,4-hexadecanediol	---	376.22	2	669.15	2	820.77	2	15.23	2	963.5	2	0.2682	2	0.215	2	1.232
29780	C16H34O2	1,16-hexadecanediol	7735-42-4	365.65	1	651.48	2	804.31	2	15.14	2	969.5	2	0.2666	2	0.220	2	1.235
29789	C16H34S	1-hexadecanethiol	2917-26-2	290.93	1	607.16	1	774.68	2	13.82	2	985.5	2	0.2623	2	0.211	2	0.763
29790	C16H34S	2-hexadecanethiol	66271-53-2	288.15	1	600.15	1	768.00	2	14.00	2	967.0	2	0.2673	2	0.212	2	0.753
29791	C16H34S	dioctyl sulfide	2690-08-6	285.00	2	601.00	2	760.00	2	14.60	2	940.0	2	0.2750	2	0.217	2	0.880
29792	C16H34S	methyl pentadecyl sulfide	62155-10-6	288.16	2	597.00	2	787.27	2	13.35	2	985.5	2	0.2623	2	0.201	2	0.754
29793	C16H34S	ethyl tetradecyl sulfide	66271-54-3	288.16	2	597.00	2	791.68	2	12.88	2	931.5	2	0.2775	2	0.182	2	0.686
29794	C16H34S	propyl tridecyl sulfide	66271-55-4	288.16	2	597.00	2	787.27	2	13.35	2	985.5	2	0.2623	2	0.201	2	0.754

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_c, K	code	P_c, bar	code	V_c, ml/mol	code	rho_c, g/ml	code	Z_c	code	omega
29795	C16H34S	butyl dodecyl sulfide	16900-08-6	288.16	2	597.00	2	787.27	2	13.35	2	985.5	2	0.2623	2	0.201	2	0.754
29797	C16H34S2	dioctyl disulfide	822-27-5	244.16	1	619.16	1	784.46	2	13.52	2	1039.5	2	0.2795	2	0.215	2	0.806
29798	C16H35N	hexadecylamine	143-27-1	319.92	1	601.15	1	757.50	2	12.90	2	950.0	2	0.2542	2	0.195	2	0.826
29799	C16H35N	ethyltetradecylamine	66271-56-5	287.77	2	580.15	1	732.80	2	13.70	2	950.0	2	0.2542	2	0.214	2	0.848
29800	C16H35N	dioctylamine	1120-48-5	287.77	1	580.81	1	734.00	1	12.60	1	1092.6	1	0.2210	1	0.226	1	0.819
29801	C16H35N	methylpentadecylamine	29664-53-7	287.77	2	580.15	1	734.30	2	13.40	2	950.0	2	0.2542	2	0.209	2	0.814
29802	C16H35N	N-(1-methylheptyl)-2-octanamine	5412-92-0	287.77	2	556.15	1	732.83	2	13.54	2	953.6	2	0.2532	2	0.212	2	0.793
29803	C16H35N	dimethyltetradecylamine	112-75-4	270.15	1	575.15	1	739.40	2	13.00	2	950.0	2	0.2542	2	0.201	2	0.669
29804	C16H35N	diethyldodecylamine	4271-27-6	270.15	2	550.15	1	700.59	2	13.56	2	969.5	2	0.2491	2	0.226	2	0.771
29805	C16H35N	bis(2-ethylhexyl)amine	106-20-7	290.00	2	554.25	1	702.00	2	14.70	2	985.0	2	0.2451	2	0.248	2	0.918
29839	C16H48O6Si7	hexadecamethylheptasiloxane	541-01-5	195.15	1	559.94	1	671.80	1	6.77	1	2133.0	1	0.2500	1	0.259	1	0.887
30056	C17H18	1,1-diphenyl-1-pentene	1530-11-6	266.11	2	581.91	1	797.63	2	22.02	2	752.5	2	0.2955	2	0.250	2	0.552
30117	C17H20	1,1-diphenylpentane	1726-12-1	261.13	1	581.04	1	786.40	2	20.40	2	836.0	2	0.2684	2	0.261	2	0.587
30118	C17H20	1,3-diphenylpentane	838-45-9	263.14	2	577.15	1	786.40	2	20.40	2	836.0	2	0.2684	2	0.261	2	0.587
30119	C17H20	1,5-diphenylpentane	1718-50-9	265.15	1	600.15	1	786.40	2	20.40	2	836.0	2	0.2684	2	0.261	2	0.587
30177	C17H22	1-heptylnaphthalene	2876-52-0	265.15	1	610.15	1	811.44	2	19.09	2	801.5	2	0.2824	2	0.227	2	0.662
30178	C17H22	2-heptylnaphthalene	2876-45-1	274.15	1	612.15	1	814.10	2	19.09	2	801.5	2	0.2824	2	0.226	2	0.662
30241	C17H26	1-heptyl-[1,2,3,4-tetrahydronaphthalene]	66563-99-3	299.92	2	594.15	1	788.41	2	17.67	2	828.5	2	0.2781	2	0.223	2	0.633
30242	C17H26	2-heptyl-[1,2,3,4-tetrahydronaphthalene]	26438-24-4	299.92	2	598.15	1	793.72	2	17.67	2	828.5	2	0.2781	2	0.222	2	0.633
30264	C17H28	undecylbenzene	6742-54-7	268.00	1	586.40	1	764.00	1	16.72	1	910.0	1	0.2554	1	0.240	1	0.738
30267	C17H28O	2,6-di-tert-pentyl-4-methylphenol	56103-67-4	351.15	2	556.15	1	760.00	2	18.50	2	809.1	2	0.3070	2	0.237	2	---
30284	C17H32	1-heptadecyne	26186-00-5	295.16	1	572.16	1	736.21	2	13.70	2	949.5	2	0.2490	2	0.213	2	0.690
30285	C17H32	2-heptadecyne	61847-96-9	386.95	2	584.15	1	753.80	2	13.82	2	949.5	2	0.2490	2	0.209	2	0.680
30286	C17H32	3-heptadecyne	61886-63-3	386.95	2	573.15	1	739.60	2	13.82	2	949.5	2	0.2490	2	0.213	2	0.680
30287	C17H32	1,1-dicyclohexylpentane	54833-30-6	288.52	1	580.15	1	776.31	2	16.80	2	853.5	2	0.2770	2	0.222	2	0.551
30288	C17H32	1,3-dicyclohexyl-2-ethylpropane	54833-34-0	274.04	2	579.15	1	776.31	2	16.80	2	853.5	2	0.2770	2	0.222	2	0.551
30289	C17H32	1,5-dicyclohexylpentane	54833-31-7	259.55	1	598.15	1	776.31	2	16.80	2	853.5	2	0.2770	2	0.222	2	0.551
30290	C17H32	1-dodecylcyclopentene	62184-77-4	256.94	2	571.15	1	739.92	2	14.41	2	914.5	2	0.2585	2	0.214	2	0.678
30292	C17H32O2	9-heptadecenoic acid	10136-52-4	285.65	1	620.00	2	916.00	2	16.00	2	1000.7	2	0.2683	2	0.210	2	---
30294	C17H33Br	cis-1-bromo-1-heptadecene	66563-89-1	335.57	2	610.15	1	772.65	2	13.43	2	1029.5	2	0.3083	2	0.215	2	0.812
30295	C17H33Br	trans-1-bromo-1-heptadecene	66563-90-4	335.57	2	610.15	1	772.65	2	13.43	2	1029.5	2	0.3083	2	0.215	2	0.812
30296	C17H33Br3	1,1,1-tribromoheptadecane	62127-73-5	462.67	2	676.15	1	847.65	2	14.52	2	1162.5	2	0.4105	2	0.240	2	0.960
30297	C17H33Cl	cis-1-chloro-1-heptadecene	66563-91-5	305.69	2	617.15	1	782.44	2	12.44	2	1016.5	2	0.2685	2	0.194	2	0.749
30298	C17H33Cl	trans-1-chloro-1-heptadecene	66563-92-6	305.69	2	617.15	1	782.44	2	12.44	2	1016.5	2	0.2685	2	0.194	2	0.749
30300	C17H33Cl3	1,1,1-trichloroheptadecane	62108-61-6	373.03	2	643.15	1	808.70	2	11.55	2	1123.5	2	0.3060	2	0.193	2	0.766
30301	C17H33F	cis-1-fluoro-1-heptadecene	66577-63-7	307.92	2	591.79	2	750.10	2	12.37	2	985.5	2	0.2602	2	0.196	2	0.747
30302	C17H33F	trans-1-fluoro-1-heptadecene	66577-51-3	307.92	2	591.79	2	750.10	2	12.37	2	985.5	2	0.2602	2	0.196	2	0.747
30303	C17H33F3	1,1,1-trifluoroheptadecane	62126-84-5	379.72	2	560.15	1	710.60	2	11.90	2	1017.0	2	0.2895	2	0.205	2	0.713
30304	C17H33I	cis-1-iodo-1-heptadecene	66577-52-4	333.83	2	632.15	1	802.73	2	12.57	2	1055.5	2	0.3452	2	0.199	2	0.743
30305	C17H33I	trans-1-iodo-1-heptadecene	66577-53-5	333.83	2	632.15	1	802.73	2	12.57	2	1055.5	2	0.3452	2	0.199	2	0.743
30306	C17H33I3	1,1,1-triiocloheptadecane	---	457.45	2	864.55	2	1091.73	2	11.92	2	1240.5	2	0.4983	2	0.163	2	0.751
30307	C17H33N	heptadecanenitrile	5399-02-0	306.45	1	622.15	1	779.15	2	12.10	2	1013.5	2	0.2481	2	0.189	2	0.835
30310	C17H34	dodecylcyclopentane	5634-30-0	268.16	1	584.06	1	755.17	2	14.03	2	928.5	2	0.2568	2	0.207	2	0.669
30311	C17H34	undecylcyclohexane	54105-66-7	278.96	1	586.26	1	761.74	2	14.29	2	920.5	2	0.2591	2	0.208	2	0.646
30312	C17H34	cycloheptadecane	295-97-6	338.35	1	586.15	1	815.06	2	18.31	2	833.5	2	0.2861	2	0.225	2	0.385
30313	C17H34	1-heptadecene	6765-39-5	284.40	1	573.48	1	736.00	2	14.10	2	955.0	2	0.2497	2	0.220	2	0.753
30314	C17H34	2-methyl-1-hexadecene	61868-19-7	274.65	1	573.15	1	732.59	2	12.73	2	969.5	2	0.2460	2	0.203	2	0.699
30315	C17H34Br2	1,1-dibromoheptadecane	62168-34-7	385.45	2	652.15	1	818.59	2	13.68	2	1105.5	2	0.3603	2	0.222	2	0.904
30316	C17H34Br2	1,17-dibromoheptadecane	81726-82-1	311.15	1	652.15	2	818.59	2	13.68	2	1105.5	2	0.3603	2	0.222	2	0.904
30317	C17H34Cl2	1,1-dichloroheptadecane	62046-36-0	325.69	2	630.15	1	792.59	2	11.76	2	1079.5	2	0.2866	2	0.193	2	0.776
30318	C17H34F2	1,1-difluoroheptadecane	62127-06-4	330.15	2	566.15	1	723.60	2	11.70	2	1003.0	2	0.2756	2	0.195	2	0.643
30319	C17H34I2	1,1-diiodoheptadecane	66577-55-7	381.97	2	774.20	2	976.52	2	12.01	2	1157.5	2	0.4253	2	0.171	2	0.767
30322	C17H34O	9-heptadecanone	540-08-9	326.15	1	524.65	1	745.97	2	12.87	2	993.5	2	0.2561	2	0.206	2	0.827
30323	C17H34O	2-heptadecanone	2922-51-2	321.15	1	592.15	1	745.97	2	12.87	2	993.5	2	0.2561	2	0.206	2	0.827
30324	C17H34O	heptadecanal	629-90-3	310.15	1	598.15	1	752.20	2	12.98	2	1004.5	2	0.2533	2	0.208	2	0.849
30325	C17H34O2	heptadecanoic acid	506-12-7	334.25	1	635.75	1	793.00	2	14.30	2	969.0	2	0.2791	2	0.210	2	1.028
30326	C17H34O2	hexadecyl formate	4113-08-0	339.55	2	645.88	2	757.10	2	11.70	2	1039.0	2	0.2603	2	0.193	2	---
30327	C17H34O2	pentadecyl acetate	629-58-3	291.65	1	585.00	2	753.00	2	11.50	2	1041.0	2	0.2598	2	0.191	2	---
30328	C17H34O2	tetradecyl propanoate	6221-95-0	323.18	2	646.58	2	754.80	2	11.40	2	1041.0	2	0.2598	2	0.189	2	---
30329	C17H34O2	tridecyl butanoate	56164-20-6	323.18	2	646.58	2	754.50	2	11.40	2	1041.0	2	0.2598	2	0.189	2	---
30330	C17H34O2	isopropyl tetradecanoate	110-27-0	268.15	1	588.00	2	738.00	2	14.00	2	969.0	2	0.2791	2	0.221	2	0.935
30331	C17H34O2	propyl tetradecanoate	14303-70-9	302.20	2	651.92	2	733.00	2	14.20	2	927.7	2	0.2915	2	0.216	2	---
30332	C17H34O2	methyl palmitate	112-39-0	302.20	1	690.15	1	733.00	2	14.20	2	923.4	2	0.2929	2	0.215	2	---
30336	C17H34S	thiacyclooctadecane	296-21-9	333.68	2	614.15	1	852.59	2	18.61	2	871.5	2	0.3104	2	0.229	2	0.401
30337	C17H35Br	1-bromoheptadecane	3508-00-7	302.75	1	622.15	1	784.07	2	12.93	2	1049.5	2	0.3043	2	0.208	2	0.827
30338	C17H35Cl	1-chloroheptadecane	62016-75-5	299.35	1	613.15	1	773.57	2	12.00	2	1036.5	2	0.2652	2	0.193	2	0.764
30339	C17H35F	1-fluoroheptadecane	1545-17-1	302.15	1	576.15	1	726.20	2	11.50	2	993.0	2	0.2603	2	0.189	2	0.742
30340	C17H35I	1-iodoheptadecane	26825-83-2	306.85	1	644.15	1	796.86	2	13.46	2	1006.5	2	0.3640	2	0.204	2	1.036
30343	C17H35NO2	1-nitroheptadecane	39220-66-1	424.46	2	635.15	1	792.11	2	12.42	2	1069.5	2	0.2669	2	0.202	2	0.893
30346	C17H36	heptadecane	629-78-7	295.13	1	575.30	1	736.00	1	13.40	1	1028.9	2	0.2337	2	0.225	1,2	0.770
30347	C17H36	2-methylhexadecane	1560-92-5	277.15	1	570.15	1	726.23	2	12.38	2	1028.9	2	0.2337	2	0.211	2	0.708
30348	C17H36	3-methylhexadecane	6418-43-5	258.15	1	571.15	1	727.50	2	12.38	2	1028.9	2	0.2337	2	0.211	2	0.708
30349	C17H36	2,2-dimethylpentadecane	61869-05-4	283.27	2	563.15	1	722.25	2	12.48	2	1028.9	2	0.2337	2	0.214	2	0.660
30350	C17H36	2,3-dimethylpentadecane	2882-97-5	250.85	2	571.15	1	729.97	2	12.45	2	1028.9	2	0.2337	2	0.211	2	0.685
30351	C17H36	2,4-dimethylpentadecane	61868-07-3	250.85	2	554.15	1	708.24	2	12.45	2	1028.9	2	0.2337	2	0.218	2	0.685
30352	C17H36O	1-heptadecanol	1454-85-9	327.05	1	610.50	1	780.00	2	15.00	2	960.0	2	0.2672	2	0.222	2	0.849
30353	C17H36O	2-heptadecanol	16813-18-6	317.65	1	601.15	1	764.40	2	13.90	2	988.0	2	0.2596	2	0.216	2	0.801
30354	C17H36O	9-heptadecanol	624-08-8	334.15	1	599.15	2	767.20	2	14.10	2	974.0	2	0.2634	2	0.215	2	0.798
30355	C17H36O	heptadecanol (mixed primary isomers)	52783-44-5	327.15	1	599.15	2	767.20	2	14.10	2	974.0	2	0.2634	2	0.215	2	0.798
30356	C17H36O2	1,2-heptadecanediol	34719-63-6	387.49	2	651.15	2	797.59	2	14.15	2	1019.5	2	0.2673	2	0.218	2	1.188

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
30357	C17H36O2	1,3-heptadecanediol	---	387.49	2	662.15	2	811.07	2	14.15	2	1019.5	2	0.2673	2	0.214	2	1.188
30358	C17H36O2	1,4-heptadecanediol	---	387.49	2	683.15	2	836.79	2	14.15	2	1019.5	2	0.2673	2	0.207	2	1.188
30359	C17H36O2	1,17-heptadecanediol	66577-59-1	402.49	2	670.15	2	820.62	2	14.07	2	1025.5	2	0.2657	2	0.211	2	1.187
30362	C17H36S	1-heptadecanethiol	53193-22-9	300.37	1	621.16	1	786.01	2	12.88	2	1041.5	2	0.2617	2	0.205	2	0.783
30363	C17H36S	2-heptadecanethiol	66577-60-4	293.15	1	614.15	1	777.00	2	13.00	2	1022.0	2	0.2667	2	0.206	2	0.797
30364	C17H36S	methyl hexadecyl sulfide	27563-68-4	294.16	2	611.00	2	798.63	2	12.46	2	1041.5	2	0.2617	2	0.195	2	0.774
30365	C17H36S	ethyl pentadecyl sulfide	64919-20-6	294.16	2	611.00	2	798.63	2	12.46	2	1041.5	2	0.2617	2	0.195	2	0.774
30366	C17H36S	propyl tetradecyl sulfide	66577-61-5	294.16	2	611.00	2	798.63	2	12.46	2	1041.5	2	0.2617	2	0.195	2	0.774
30367	C17H36S	butyl tridecyl sulfide	66577-62-6	294.16	2	611.00	2	798.63	2	12.46	2	1041.5	2	0.2617	2	0.195	2	0.774
30369	C17H37N	heptadecylamine	4200-95-7	317.15	1	616.15	1	767.80	2	11.90	2	1005.0	2	0.2542	2	0.187	2	0.869
30370	C17H37N	methylhexadecylamine	13417-08-8	309.15	1	594.15	1	745.00	2	12.40	2	1005.0	2	0.2542	2	0.201	2	0.842
30371	C17H37N	ethylpentadecylamine	56392-13-3	309.15	2	595.15	1	744.20	2	12.80	2	1005.0	2	0.2542	2	0.208	2	0.891
30372	C17H37N	dimethylpentadecylamine	17678-60-3	277.65	2	590.15	1	750.50	2	12.00	2	1005.0	2	0.2542	2	0.193	2	0.699
30373	C17H37N	diethyltridecylamine	66577-48-8	260.35	2	564.15	1	712.65	2	12.65	2	1025.5	2	0.2491	2	0.219	2	0.791
30374	C17H37N	methyldioctylamine	4455-26-9	243.05	1	591.95	2	744.03	2	12.35	2	1009.1	2	0.2532	2	0.201	2	0.818
30406	C18H12	chrysene	218-01-9	531.15	1	714.15	1	979.00	2	23.90	2	749.0	2	0.3048	2	0.220	2	0.603
30407	C18H12	benz[a]anthracene	56-55-3	433.55	1	710.75	1	979.00	2	23.90	2	690.0	2	0.3309	2	0.203	2	0.569
30409	C18H12	naphthacene	92-24-0	630.15	1	716.15	1	987.00	2	23.90	2	690.0	2	0.3309	2	0.201	2	0.565
30456.1	C18H13N3O4	4,4'-dinitrotriphenylamine	1100-1-3	479.65	1	743.00	2	946.00	2	20.00	2	929.0	2	0.3609	2	0.236	2	1.090
30457	C18H14	m-terphenyl	92-06-8	360.00	1	648.15	1	883.00	1	24.80	1	724.0	1	0.3181	1	0.245	1	0.651
30458	C18H14	o-terphenyl	84-15-1	329.35	1	609.15	1	857.00	1	29.90	1	731.0	1	0.3151	1	0.307	1	0.551
30459	C18H14	p-terphenyl	92-94-4	485.00	1	655.15	1	908.00	1	29.90	1	729.0	1	0.3159	1	0.289	1	0.643
30566	C18H15O4P	triphenyl phosphate	115-86-6	322.44	1	686.65	1	1060.00	2	162.00	2	---	---	---	---	---	---	0.775
30567	C18H15P	triphenylphosphine	603-35-0	354.40	1	650.15	1	1008.00	2	78.40	2	554.0	2	0.4734	2	0.518	2	0.452
30588	C18H16N2	N,N'-diphenyl-p-phenylenediamine	74-31-7	425.15	1	772.00	1	1017.00	2	23.10	2	817.0	2	0.3187	2	0.223	2	0.859
30714	C18H20	1,1-diphenyl-1-hexene	1530-19-4	261.01	2	594.95	1	803.60	2	20.16	2	808.5	2	0.2923	2	0.244	2	0.593
30715	C18H20	2,4-diphenyl-4-methyl-1-pentene	6362-80-7	261.01	2	614.00	2	835.00	2	20.00	2	839.0	2	0.2817	2	0.242	2	0.547
30778	C18H22	1,1-diphenylhexane	1530-04-7	261.61	1	594.18	1	794.40	2	19.00	2	892.0	2	0.2672	2	0.257	2	0.625
30779	C18H22	2,3-dimethyl-2,3-diphenylbutane	1889-67-4	392.15	1	589.00	1	805.00	2	19.90	2	781.0	2	0.3052	2	0.232	2	0.521
30806	C18H22O2	dicumyl peroxide	80-43-3	311.15	1	669.00	1	884.00	2	21.80	2	873.0	2	0.3097	2	0.259	2	0.450
30836	C18H24	1-octylnaphthalene	2876-51-9	271.15	1	625.15	1	821.26	2	17.58	2	857.5	2	0.2803	2	0.221	2	0.699
30837	C18H24	2-octylnaphthalene	2876-44-0	285.15	1	628.15	1	825.21	2	17.58	2	857.5	2	0.2803	2	0.220	2	0.699
30838	C18H24	2,6-bis(1,1-dimethylethyl)-naphthalene	3905-64-4	419.05	1	603.05	1	823.23	2	17.58	2	857.5	2	0.2803	2	0.220	2	0.699
30913	C18H28	1-octyl-[1,2,3,4-tetrahydronaphthalene]	29138-91-8	311.19	2	608.15	1	797.31	2	16.32	2	884.5	2	0.2763	2	0.218	2	0.669
30914	C18H28	2-octyl-[1,2,3,4-tetrahydronaphthalene]	66553-10-4	311.19	2	612.15	1	802.56	2	16.32	2	884.5	2	0.2763	2	0.216	2	0.669
30947	C18H30	dodecylbenzene	123-01-3	275.93	1	600.76	1	780.00	2	15.60	2	923.0	2	0.2670	2	0.222	2	0.733
30948	C18H30	hexaethylbenzene	604-88-6	403.15	1	571.16	1	746.00	2	17.30	2	923.0	2	0.2670	2	0.257	2	0.753
30949	C18H30	1,2,4,5-tetraisopropylbenzene	635-11-0	391.55	1	532.15	1	754.52	2	14.81	2	967.8	2	0.2549	2	0.228	2	0.742
30952	C18H30	1,3,5-tri-tert-butylbenzene	1460-02-2	344.65	1	521.25	1	754.52	2	14.81	2	967.8	2	0.2549	2	0.228	2	0.742
30953	C18H30	1,2,4-tri-tert-butylbenzene	1459-11-6	321.15	1	570.29	2	754.52	2	14.81	2	967.8	2	0.2549	2	0.228	2	0.742
30960	C18H30O	2,4,6-tri-tert-butylphenol	732-26-3	404.15	1	551.15	1	770.00	2	17.00	2	854.9	2	0.3070	2	0.227	2	---
30961	C18H30O	4-sec-butyl-2,6-di-tert-butylphenol	17540-75-9	298.15	1	562.15	2	770.00	2	17.00	2	854.9	2	0.3070	2	0.227	2	---
30962	C18H30O	4-dodecylphenol	104-43-8	351.15	2	573.15	1	770.00	2	17.00	2	854.9	2	0.3070	2	0.227	2	---
30963	C18H30O	dodecylphenols	27193-86-8	351.15	2	562.15	2	770.00	2	17.00	2	854.9	2	0.3070	2	0.227	2	---
30964	C18H30O2	linolenic acid	463-40-1	262.05	1	632.00	2	780.00	2	14.40	2	1070.0	2	0.2602	2	0.238	2	1.186
30991	C18H32O2	linoleic acid	60-33-3	268.15	1	628.00	1	775.00	2	14.10	2	990.0	2	0.2833	2	0.217	2	1.180
31013	C18H34	9-octadecyne	35365-59-4	274.65	1	593.12	2	754.15	2	12.85	2	1005.5	2	0.2491	2	0.206	2	0.709
31014	C18H34	1-octadecyne	629-89-0	300.16	1	586.16	1	747.33	2	12.77	2	1005.5	2	0.2491	2	0.207	2	0.715
31015	C18H34	2-octadecyne	61847-97-0	303.15	1	598.15	1	764.58	2	12.88	2	1005.5	2	0.2491	2	0.204	2	0.707
31016	C18H34	3-octadecyne	61886-64-4	275.55	1	587.15	1	750.52	2	12.88	2	1005.5	2	0.2491	2	0.208	2	0.707
31017	C18H34	1,1-dicyclohexylhexane	55030-20-1	282.05	1	593.15	1	783.63	2	15.55	2	909.5	2	0.2754	2	0.217	2	0.589
31018	C18H34	1-tridecylcyclopentene	62184-78-5	268.21	2	584.15	1	749.34	2	13.42	2	970.5	2	0.2581	2	0.209	2	0.706
31030	C18H34O2	oleic acid	112-80-1	286.53	1	633.00	1	781.00	2	13.90	2	1000.0	2	0.2825	2	0.214	2	1.182
31031	C18H34O2	elaidic acid	112-79-8	318.15	1	630.00	2	936.00	2	15.00	2	1085.6	2	0.2602	2	0.209	2	---
31032	C18H34O2	trans-2-octadecenoic acid	2825-79-8	331.65	1	630.00	2	936.00	2	15.00	2	1085.6	2	0.2602	2	0.209	2	---
31033	C18H34O2	trans-11-octadecenoic acid	693-72-1	317.15	1	630.00	2	936.00	2	15.00	2	1085.6	2	0.2602	2	0.209	2	---
31034	C18H34O2	petroselinic acid	593-39-5	302.30	1	630.00	2	966.00	2	15.00	2	1120.3	2	0.2521	2	0.209	2	---
31041	C18H34O4	dibutyl sebacate	109-43-3	263.95	1	622.15	1	768.00	2	13.20	2	1050.0	2	0.2995	2	0.217	2	1.125
31042	C18H34O4	dihexyl adipate	110-33-8	259.35	1	621.15	1	767.00	2	13.20	2	1050.0	2	0.2995	2	0.217	2	1.094
31054	C18H35Br	cis-1-bromo-1-octadecene	66292-44-2	346.84	2	623.15	1	783.30	2	12.53	2	1085.5	2	0.3053	2	0.209	2	0.827
31055	C18H35Br	trans-1-bromo-1-octadecene	66292-45-3	346.84	2	623.15	1	783.30	2	12.53	2	1085.5	2	0.3053	2	0.209	2	0.827
31057	C18H35Br3	1,1,1-tribromooctadecane	62127-74-6	473.94	2	687.15	1	856.21	2	13.52	2	1218.5	2	0.4031	2	0.231	2	0.966
31058	C18H35Cl	cis-1-chloro-1-octadecene	66292-46-4	316.96	2	631.15	1	794.17	2	11.64	2	1072.5	2	0.2675	2	0.189	2	0.765
31059	C18H35Cl	trans-1-chloro-1-octadecene	66292-47-5	316.96	2	631.15	1	794.17	2	11.64	2	1072.5	2	0.2675	2	0.189	2	0.765
31061	C18H35Cl3	1,1,1-trichlorooctadecane	62108-62-7	384.30	2	656.15	1	819.70	2	10.83	2	1179.5	2	0.3034	2	0.188	2	0.775
31062	C18H35F	cis-1-fluoro-1-octadecene	66292-48-6	319.19	2	614.67	2	773.26	2	11.58	2	1041.5	2	0.2597	2	0.188	2	0.763
31063	C18H35F	trans-1-fluoro-1-octadecene	66292-49-7	319.19	2	614.67	2	773.26	2	11.58	2	1041.5	2	0.2597	2	0.188	2	0.763
31064	C18H35F3	1,1,1-trifluorooctadecane	1511-82-6	390.99	2	569.15	1	722.30	2	11.20	2	1072.0	2	0.2878	2	0.200	2	0.668
31065	C18H35I	cis-1-iodo-1-octadecene	66292-50-0	345.10	2	645.15	1	812.93	2	11.76	2	1111.5	2	0.3404	2	0.193	2	0.760
31066	C18H35I	trans-1-iodo-1-octadecene	66292-51-1	345.10	2	645.15	1	812.93	2	11.76	2	1111.5	2	0.3404	2	0.193	2	0.760
31067	C18H35I3	1,1,1-triiodooctadecane	---	468.72	2	887.43	2	1112.75	2	11.16	2	1296.5	2	0.4876	2	0.156	2	0.765
31069	C18H35N	octadecanenitrile	638-65-3	314.65	1	635.15	1	790.72	2	11.33	2	1069.5	2	0.2482	2	0.184	2	0.840
31071	C18H36	1-octadecene	112-88-9	290.76	1	587.97	1	748.00	2	13.40	2	1050.0	2	0.2405	2	0.226	2	0.794
31072	C18H36	9-octadecene	5557-31-3	242.65	1	594.74	2	746.71	2	12.65	2	1037.8	2	0.2434	2	0.211	2	0.755
31073	C18H36	2-methyl-1-heptadecene	42764-74-9	281.65	1	588.15	1	745.42	2	11.90	2	1025.5	2	0.2462	2	0.197	2	0.720
31074	C18H36	tridecylcyclopentane	6006-34-4	278.16	1	598.56	1	766.47	2	13.07	2	984.5	2	0.2565	2	0.202	2	0.697
31075	C18H36	dodecylcyclohexane	1795-17-1	258.80	1	600.86	1	772.83	2	13.31	2	976.5	2	0.2586	2	0.202	2	0.675
31076	C18H36	cyclooctadecane	296-18-4	345.15	1	598.15	1	824.69	2	17.25	2	881.5	2	0.2864	2	0.222	2	0.399
31079	C18H36Br2	1,1-dibromooctadecane	62168-35-8	396.72	2	664.15	1	828.45	2	12.76	2	1161.5	2	0.3550	2	0.215	2	0.911
31080	C18H36Cl2	1,1-dichlorooctadecane	62017-20-3	336.96	2	643.15	1	803.67	2	11.02	2	1135.5	2	0.2848	2	0.187	2	0.786

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
31083	C18H36F2	1,1-difluorooctadecane	62127-07-5	341.42	2	579.15	1	734.40	2	11.00	2	1058.0	2	0.2746	2	0.191	2	0.662
31084	C18H36I2	1,1-diiodooctadecane	66292-27-1	393.24	2	797.08	2	998.46	2	11.25	2	1213.5	2	0.4172	2	0.164	2	0.779
31090	C18H36O	octadecanal	638-66-4	316.15	1	610.15	1	762.31	2	12.12	2	1060.5	2	0.2532	2	0.203	2	0.858
31091	C18H36O	2-octadecanone	7373-13-9	325.15	1	606.15	1	758.47	2	12.03	2	1049.5	2	0.2558	2	0.200	2	0.838
31092	C18H36O	3-octadecanone	18261-92-2	324.15	1	607.48	2	758.47	2	12.03	2	1049.5	2	0.2558	2	0.200	2	0.838
31094	C18H36O	cis-9-octadecen-1-ol	143-28-2	279.65	1	607.48	2	755.00	2	13.50	2	991.3	2	0.2708	2	0.213	2	---
31095	C18H36O	trans-9-octadecen-1-ol	506-42-3	309.65	1	606.15	1	755.00	2	13.50	2	991.3	2	0.2708	2	0.213	2	---
31097	C18H36O2	octadecanoic acid	57-11-4	342.75	1	648.35	1	804.00	2	13.60	2	1020.0	2	0.2789	2	0.208	2	1.036
31098	C18H36O2	2-octyldecanoic acid	619-39-6	311.65	1	665.10	2	799.00	2	13.60	2	1020.0	2	0.2789	2	0.209	2	1.084
31099	C18H36O2	heptadecyl formate	66292-28-2	350.82	2	668.76	2	766.30	2	10.90	2	1097.0	2	0.2593	2	0.188	2	---
31100	C18H36O2	hexadecyl acetate	629-70-9	297.35	1	600.00	2	762.50	2	10.70	2	1099.0	2	0.2589	2	0.185	2	---
31101	C18H36O2	pentadecyl propanoate	66292-29-3	334.45	2	669.46	2	764.50	2	10.70	2	1099.0	2	0.2589	2	0.185	2	---
31102	C18H36O2	tetradecyl butanoate	6221-98-3	334.45	2	669.46	2	764.20	2	10.70	2	1099.0	2	0.2589	2	0.185	2	---
31103	C18H36O2	ethyl palmitate	628-97-7	296.35	1	665.10	2	746.00	2	13.40	2	991.3	2	0.2870	2	0.214	2	---
31104	C18H36O2	methyl heptadecanoate	1731-92-6	303.15	1	665.10	2	746.00	2	13.40	2	986.8	2	0.2883	2	0.213	2	---
31105	C18H36O2	n-butyl myristate	110-36-1	279.95	1	665.10	2	746.00	2	13.40	2	982.2	2	0.2896	2	0.212	2	---
31113	C18H36S	thiacyclononadecane	296-47-9	341.43	2	624.15	1	859.18	2	17.52	2	919.5	2	0.3095	2	0.226	2	0.415
31115	C18H37Br	1-bromooctadecane	112-89-0	301.35	1	635.15	1	795.03	2	12.08	2	1105.5	2	0.3016	2	0.202	2	0.838
31116	C18H37Cl	1-chlorooctadecane	3386-33-2	301.75	1	625.15	1	783.25	2	11.24	2	1092.5	2	0.2645	2	0.189	2	0.777
31118	C18H37F	1-fluorooctadecane	1649-73-6	302.15	1	589.15	1	737.10	2	10.70	2	1048.0	2	0.2600	2	0.183	2	0.753
31119	C18H37I	1-iodooctadecane	629-93-6	307.15	1	656.15	1	808.59	2	12.56	2	1062.5	2	0.3580	2	0.198	2	1.022
31124	C18H37NO2	1-nitrooctadecane	66292-30-6	435.73	2	646.15	1	801.56	2	11.62	2	1125.5	2	0.2661	2	0.196	2	0.893
31131	C18H38	octadecane	593-45-3	301.31	1	589.86	1	747.00	1	12.70	2	1088.6	2	0.2338	2	0.223	1,2	0.811
31132	C18H38	9-methylheptadecane	18869-72-2	277.73	2	582.27	2	737.16	2	11.71	2	1088.6	2	0.2338	2	0.208	2	0.724
31133	C18H38	2-methylheptadecane	1560-89-0	279.15	1	585.15	1	739.33	2	11.59	2	1088.6	2	0.2338	2	0.205	2	0.727
31134	C18H38	3-methylheptadecane	6418-44-6	266.95	1	586.15	1	740.59	2	11.59	2	1088.6	2	0.2338	2	0.205	2	0.727
31135	C18H38	2,2-dimethylhexadecane	19486-08-9	294.54	2	578.15	1	734.97	2	11.67	2	1088.6	2	0.2338	2	0.208	2	0.683
31136	C18H38	2,3-dimethylhexadecane	61868-02-8	262.12	2	586.15	1	742.82	2	11.65	2	1088.6	2	0.2338	2	0.205	2	0.706
31137	C18H38	2,4-dimethylhexadecane	61868-08-4	262.12	2	568.15	1	720.01	2	11.65	2	1088.6	2	0.2338	2	0.212	2	0.706
31140	C18H38O	1-octadecanol	112-92-5	331.05	1	624.00	1	790.00	2	14.40	2	1010.0	2	0.2678	2	0.221	2	0.889
31141	C18H38O	2-octadecanol	593-32-8	325.15	1	614.15	1	773.90	2	13.00	2	1043.0	2	0.2593	2	0.211	2	0.832
31142	C18H38O	3-octadecanol, (±)	111897-18-8	324.15	1	604.43	2	775.45	2	13.30	2	1026.5	2	0.2636	2	0.212	2	0.847
31143	C18H38O	dinonyl ether	2456-27-1	314.35	2	591.00	1	736.00	2	13.00	2	1020.0	2	0.2652	2	0.217	2	1.002
31144	C18H38O2	1,2-octadecanediol	20294-76-2	354.15	1	665.15	2	814.33	2	13.18	2	1075.5	2	0.2664	2	0.209	2	1.135
31145	C18H38O2	1,3-octadecanediol	---	398.76	2	676.15	2	827.80	2	13.18	2	1075.5	2	0.2664	2	0.206	2	1.135
31146	C18H38O2	1,4-octadecanediol	---	398.76	2	697.15	2	853.51	2	13.18	2	1075.5	2	0.2664	2	0.200	2	1.135
31147	C18H38O2	1,18-octadecanediol	3155-43-9	364.15	1	684.15	2	837.63	2	13.11	2	1081.5	2	0.2649	2	0.204	2	1.130
31149	C18H38S	1-octadecanethiol	2885-00-9	300.93	1	633.16	1	795.36	2	12.04	2	1097.5	2	0.2611	2	0.200	2	0.798
31150	C18H38S	2-octadecanethiol	62155-06-0	299.15	1	627.15	1	787.00	2	12.00	2	1077.0	2	0.2661	2	0.198	2	0.811
31151	C18H38S	2-thianonadecane	62155-11-7	298.15	1	646.15	1	790.00	2	11.00	2	1085.0	2	0.2641	2	0.182	2	0.999
31152	C18H38S	dinonyl sulfide	929-98-6	298.16	2	625.00	2	810.53	2	11.66	2	1097.5	2	0.2611	2	0.190	2	0.787
31153	C18H38S	methyl heptadecyl sulfide	---	298.16	2	625.00	2	810.53	2	11.66	2	1097.5	2	0.2611	2	0.190	2	0.787
31154	C18H38S	ethyl hexadecyl sulfide	66292-31-7	298.16	2	625.00	2	810.53	2	11.66	2	1097.5	2	0.2611	2	0.190	2	0.787
31155	C18H38S	propyl pentadecyl sulfide	66292-32-8	298.16	2	625.00	2	810.53	2	11.66	2	1097.5	2	0.2611	2	0.190	2	0.787
31156	C18H38S	butyl tetradecyl sulfide	66292-33-9	298.16	2	625.00	2	810.53	2	11.66	2	1097.5	2	0.2611	2	0.190	2	0.787
31157	C18H38S2	dinonyl disulfide	4485-77-2	252.16	1	642.16	1	802.30	2	11.79	2	1151.5	2	0.2767	2	0.204	2	0.832
31162	C18H39N	octadecylamine	124-30-1	326.23	1	630.15	1	777.40	2	11.00	2	1060.0	2	0.2543	2	0.180	2	0.905
31163	C18H39N	methylheptadecylamine	66292-34-0	298.15	2	607.15	1	755.10	2	11.60	2	1060.0	2	0.2543	2	0.196	2	0.868
31164	C18H39N	ethylhexadecylamine	5877-76-9	298.15	2	608.15	1	754.80	2	11.90	2	1060.0	2	0.2543	2	0.201	2	0.907
31165	C18H39N	dinonylamine	2044-21-5	298.15	1	607.15	1	761.50	2	13.30	2	1062.0	2	0.2538	2	0.223	2	0.891
31166	C18H39N	dimethylhexadecylamine	112-69-6	285.15	1	603.15	1	760.90	2	11.20	2	1060.0	2	0.2543	2	0.188	2	0.716
31167	C18H39N	diethyltetradecylamine	7307-58-6	285.15	2	577.15	1	723.91	2	11.83	2	1081.5	2	0.2492	2	0.212	2	0.804
31168	C18H39N	trihexylamine	102-86-3	285.15	2	537.15	1	673.74	2	11.83	2	1081.5	2	0.2492	2	0.228	2	0.804
31183	C18H54O7Si8	octadecamethyloctasiloxane	556-69-4	210.15	1	583.60	1	688.90	1	6.24	1	2466.0	1	0.2463	1	0.269	1	0.984
31328	C19H16	triphenylmethane	519-73-3	365.30	1	632.15	1	865.00	2	22.00	2	753.0	2	0.3245	2	0.230	2	0.574
31477	C19H22	1,1-diphenyl-1-heptene	1530-20-7	255.91	2	613.15	1	817.04	2	18.53	2	864.5	2	0.2896	2	0.236	2	0.632
31535	C19H24	1,1-diphenylheptane	1530-05-8	286.15	1	607.15	1	802.70	2	17.80	2	954.0	2	0.2646	2	0.254	2	0.662
31568	C19H26	1-nonylnaphthalene	26438-26-6	284.15	1	639.00	1	849.00	2	16.80	2	1000.0	2	0.2544	2	0.238	2	0.617
31569	C19H26	2-nonylnaphthalene	61886-67-7	284.15	1	642.15	1	834.22	2	16.25	2	913.5	2	0.2785	2	0.214	2	0.732
31621	C19H30	1-nonyl-[1,2,3,4-tetrahydronaphthalene]	33425-49-9	322.46	2	621.15	1	805.45	2	15.13	2	940.5	2	0.2748	2	0.212	2	0.702
31622	C19H30	2-nonyl-[1,2,3,4-tetrahydronaphthalene]	26437-45-6	322.46	2	624.15	1	809.34	2	15.13	2	940.5	2	0.2748	2	0.211	2	0.702
31646	C19H32	tridecylbenzene	123-02-4	283.15	1	614.43	1	790.00	2	14.80	2	978.0	2	0.2663	2	0.220	2	0.780
31647	C19H32	(1-hexylheptyl)benzene	2400-01-3	244.95	1	614.43	2	783.00	2	15.00	2	1060.0	2	0.2457	2	0.244	2	0.844
31670	C19H36	1-nonadecyne	26186-01-6	306.16	1	600.16	1	758.94	2	11.94	2	1061.5	2	0.2492	2	0.201	2	0.735
31671	C19H36	2-nonadecyne	61847-98-1	409.49	2	612.15	1	775.87	2	12.04	2	1061.5	2	0.2492	2	0.198	2	0.728
31672	C19H36	3-nonadecyne	61886-65-5	409.49	2	600.15	1	760.66	2	12.04	2	1061.5	2	0.2492	2	0.202	2	0.728
31673	C19H36	1,1-dicyclohexylheptane	2090-15-5	318.15	2	605.15	1	790.20	2	14.44	2	965.5	2	0.2739	2	0.212	2	0.623
31674	C19H36	1-tetradecylcyclopentene	62184-79-6	279.48	2	596.15	1	757.98	2	12.52	2	1026.5	2	0.2577	2	0.204	2	0.730
31675	C19H36O2	methyl oleate	112-62-9	293.05	1	617.00	1	764.00	2	12.80	2	1060.0	2	0.2797	2	0.214	2	1.049
31678	C19H37Br	cis-1-bromo-1-nonadecene	66359-51-1	358.11	2	636.15	1	794.49	2	11.72	2	1141.5	2	0.3026	2	0.203	2	0.836
31679	C19H37Br	trans-1-bromo-1-nonadecene	66359-52-2	358.11	2	636.15	1	794.49	2	11.72	2	1141.5	2	0.3026	2	0.203	2	0.836
31680	C19H37Br3	1,1,1-tribromononadecane	62127-75-7	485.21	2	697.15	1	864.19	2	12.61	2	1274.5	2	0.3964	2	0.224	2	0.964
31681	C19H37Cl	cis-1-chloro-1-nonadecene	66359-53-3	328.23	2	644.15	1	805.20	2	10.91	2	1128.5	2	0.2667	2	0.184	2	0.775
31682	C19H37Cl	trans-1-chloro-1-nonadecene	66359-54-4	328.23	2	644.15	1	805.20	2	10.91	2	1128.5	2	0.2667	2	0.184	2	0.775
31683	C19H37Cl3	1,1,1-trichlorononadecane	62108-63-8	395.57	2	668.15	1	830.05	2	10.18	2	1235.5	2	0.3010	2	0.182	2	0.778
31684	C19H37F	cis-1-fluoro-1-nonadecene	66359-55-5	330.46	2	637.55	2	796.80	2	10.86	2	1097.5	2	0.2592	2	0.180	2	0.773
31685	C19H37F	trans-1-fluoro-1-nonadecene	66359-56-6	330.46	2	637.55	2	796.80	2	10.86	2	1097.5	2	0.2592	2	0.180	2	0.773
31686	C19H37F3	1,1,1-trifluorononadecane	62126-85-6	402.26	2	585.15	1	733.20	2	10.60	2	1127.0	2	0.2862	2	0.196	2	0.733
31687	C19H37I	cis-1-iodo-1-nonadecene	66359-57-7	356.37	2	657.15	1	822.45	2	11.02	2	1167.5	2	0.3361	2	0.188	2	0.772
31688	C19H37I	trans-1-iodo-1-nonadecene	66359-58-8	356.37	2	657.15	1	822.45	2	11.02	2	1167.5	2	0.3361	2	0.188	2	0.772

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
31689	C19H37I3	1,1,1-triiododononadecane	---	479.99	2	910.31	2	1134.48	2	10.48	2	1352.5	2	0.4778	2	0.150	2	0.772
31690	C19H37N	nonadecanenitrile	28623-46-3	315.85	1	647.15	1	801.62	2	10.63	2	1125.5	2	0.2483	2	0.180	2	0.839
31695	C19H38	tetradecylcyclopentane	1795-22-8	282.00	1	612.16	1	772.00	1	11.20	1	1040.5	2	0.2561	2	0.182	1,2	0.789
31696	C19H38	tridecylcyclohexane	6006-33-3	291.66	1	614.66	1	783.38	2	12.42	2	1032.5	2	0.2581	2	0.197	2	0.700
31697	C19H38	cyclononadecane	296-44-6	269.25	2	610.15	1	834.39	2	16.27	2	929.5	2	0.2867	2	0.218	2	0.412
31698	C19H38	1-nonadecene	18435-45-5	296.55	1	602.17	1	760.00	2	12.80	2	1100.0	2	0.2423	2	0.223	2	0.841
31699	C19H38	2-methyl-1-octadecene	61868-20-0	287.15	1	602.15	1	757.46	2	11.15	2	1081.5	2	0.2464	2	0.191	2	0.736
31700	C19H38Br2	1,1-dibromononadecane	62168-36-9	407.99	2	675.15	1	837.69	2	11.92	2	1217.5	2	0.3502	2	0.208	2	0.912
31701	C19H38Cl2	1,1-dichlorononadecane	62017-21-4	348.23	2	655.15	1	814.08	2	10.35	2	1191.5	2	0.2832	2	0.182	2	0.789
31702	C19H38F2	1,1-difluorononadecane	62127-08-6	352.69	2	591.15	1	744.50	2	10.30	2	1113.0	2	0.2736	2	0.185	2	0.670
31703	C19H38I2	1,1-diiodononadecane	66359-60-2	404.51	2	819.96	2	1021.00	2	10.56	2	1269.5	2	0.4099	2	0.158	2	0.785
31704	C19H38O	nonadecanal	17352-32-8	317.15	1	623.15	1	774.21	2	11.35	2	1116.5	2	0.2530	2	0.197	2	0.861
31705	C19H38O	2-nonadecanone	629-66-3	329.15	1	616.15	1	766.51	2	11.27	2	1105.5	2	0.2555	2	0.195	2	0.843
31706	C19H38O	10-nonadecanone	504-57-4	338.65	1	619.65	2	766.51	2	11.27	2	1105.5	2	0.2555	2	0.195	2	0.843
31708	C19H38O2	nonadecanoic acid	646-30-0	341.23	1	659.15	1	812.00	2	13.00	2	1070.0	2	0.2790	2	0.206	2	1.063
31709	C19H38O2	14-methyloctadecanoic acid	94434-64-7	310.65	1	690.66	2	810.00	2	13.00	2	1080.0	2	0.2764	2	0.208	2	1.070
31710	C19H38O2	17-methyloctadecanoic acid	2724-59-6	340.65	1	690.66	2	810.00	2	13.00	2	1080.0	2	0.2764	2	0.208	2	1.070
31711	C19H38O2	9-methyloctadecanoic acid	86073-38-3	313.15	1	690.66	2	810.00	2	13.00	2	1080.0	2	0.2764	2	0.208	2	1.070
31712	C19H38O2	octadecyl formate	5451-75-2	362.09	2	691.64	2	774.90	2	10.10	2	1155.0	2	0.2584	2	0.181	2	---
31713	C19H38O2	heptadecyl acetate	822-20-8	303.39	1	615.00	2	771.30	2	10.00	2	1157.0	2	0.2580	2	0.180	2	---
31714	C19H38O2	hexadecyl propanoate	6221-96-1	345.72	2	692.34	2	773.50	2	10.00	2	1157.0	2	0.2580	2	0.180	2	---
31715	C19H38O2	pentadecyl butanoate	125164-51-4	345.72	2	692.34	2	773.30	2	10.10	2	1157.0	2	0.2580	2	0.182	2	---
31716	C19H38O2	ethyl heptadecanoate	14010-23-2	301.15	1	690.66	2	759.00	2	12.80	2	1041.3	2	0.2867	2	0.211	2	---
31717	C19H38O2	isopropyl palmitate	142-91-6	286.65	1	690.66	2	759.00	2	12.80	2	1036.4	2	0.2880	2	0.210	2	---
31718	C19H38O2	propyl palmitate	2239-78-3	293.55	1	690.66	2	759.00	2	12.80	2	1031.6	2	0.2894	2	0.209	2	---
31719	C19H38O2	methyl stearate	112-61-8	310.93	1	716.15	1	759.00	2	12.80	2	1026.7	2	0.2907	2	0.208	2	---
31726	C19H38S	thiacycloeicosane	66359-61-3	349.18	2	634.15	1	865.90	2	16.52	2	967.5	2	0.3086	2	0.222	2	0.428
31727	C19H39Br	1-bromononadecane	4434-66-6	311.65	1	647.15	1	805.31	2	11.31	2	1161.5	2	0.2991	2	0.196	2	0.843
31728	C19H39Cl	1-chlorononadecane	62016-76-6	308.85	1	636.15	1	792.26	2	10.55	2	1148.5	2	0.2638	2	0.184	2	0.783
31729	C19H39F	1-fluorononadecane	1480-63-3	312.15	1	602.15	1	747.30	2	10.00	2	1103.0	2	0.2598	2	0.178	2	0.773
31730	C19H39I	1-iodononadecane	62127-51-9	315.15	1	668.15	1	820.94	2	11.74	2	1118.5	2	0.3526	2	0.192	2	1.000
31732	C19H39NO2	1-nitrononadecane	66359-36-2	447.00	2	656.15	1	810.40	2	10.89	2	1181.5	2	0.2654	2	0.191	2	0.886
31733	C19H40	7-hexyltridecane	7225-66-3	244.85	1	592.14	2	748.87	2	10.95	2	1148.3	2	0.2338	2	0.202	2	0.741
31734	C19H40	2,6,10,14-tetramethylpentadecane	1921-70-6	280.65	2	569.15	1	748.87	2	10.95	2	1148.3	2	0.2338	2	0.202	2	0.741
31735	C19H40	nonadecane	629-92-5	305.04	1	603.05	1	758.00	2	12.10	2	1148.3	2	0.2338	2	0.220	2	0.852
31736	C19H40	2-methyloctadecane	1560-88-9	288.15	1	599.15	1	751.64	2	10.86	2	1148.3	2	0.2338	2	0.200	2	0.741
31737	C19H40	3-methyloctadecane	6561-44-0	273.65	1	600.15	1	752.90	2	10.86	2	1148.3	2	0.2338	2	0.199	2	0.741
31738	C19H40	2,2-dimethylheptadecane	53594-82-4	305.81	2	592.15	1	746.87	2	10.94	2	1148.3	2	0.2338	2	0.202	2	0.701
31739	C19H40	2,3-dimethylheptadecane	61868-03-9	273.39	2	600.15	1	754.89	2	10.92	2	1148.3	2	0.2338	2	0.200	2	0.722
31740	C19H40	2,4-dimethylheptadecane	61868-09-5	273.39	2	581.15	1	730.99	2	10.92	2	1148.3	2	0.2338	2	0.206	2	0.722
31742	C19H40O	1-nonadecanol	1454-84-8	334.85	1	634.60	1	799.00	2	13.80	2	1070.0	2	0.2659	2	0.222	2	0.908
31743	C19H40O	2-nonadecanol	26533-36-8	325.15	1	627.15	1	782.80	2	12.20	2	1098.0	2	0.2591	2	0.206	2	0.872
31744	C19H40O2	1,2-nonadecanediol	39516-65-9	410.03	2	679.15	2	831.78	2	12.31	2	1131.5	2	0.2656	2	0.201	2	1.074
31745	C19H40O2	1,3-nonadecanediol	66359-38-4	348.15	1	690.15	2	845.25	2	12.31	2	1131.5	2	0.2656	2	0.198	2	1.074
31746	C19H40O2	1,4-nonadecanediol	---	410.03	2	711.15	2	870.97	2	12.31	2	1131.5	2	0.2656	2	0.192	2	1.074
31747	C19H40O2	1,19-nonanecanediol	---	425.03	2	698.15	2	855.38	2	12.24	2	1137.5	2	0.2642	2	0.196	2	1.065
31750	C19H40S	1-nonadecanethiol	62155-07-1	307.04	1	645.16	1	805.29	2	11.28	2	1153.5	2	0.2606	2	0.194	2	0.807
31751	C19H40S	2-nonadecanethiol	---	304.15	1	639.15	1	795.00	2	11.00	2	1132.0	2	0.2655	2	0.188	2	0.826
31752	C19H40S	methyl octadecyl sulfide	40289-98-3	303.16	2	635.00	2	821.75	2	10.93	2	1153.5	2	0.2606	2	0.185	2	0.794
31753	C19H40S	ethyl heptadecyl sulfide	66359-40-8	303.16	2	635.00	2	821.75	2	10.93	2	1153.5	2	0.2606	2	0.185	2	0.794
31754	C19H40S	propyl hexadecyl sulfide	66359-41-9	303.16	2	635.00	2	821.75	2	10.93	2	1153.5	2	0.2606	2	0.185	2	0.794
31755	C19H40S	butyl pentadecyl sulfide	66359-42-0	303.16	2	635.00	2	821.75	2	10.93	2	1153.5	2	0.2606	2	0.185	2	0.794
31756	C19H41N	nonadecylamine	14130-05-3	325.15	1	643.15	1	786.30	2	10.20	2	1115.0	2	0.2543	2	0.174	2	0.937
31757	C19H41N	methyloctadecylamine	2439-55-6	315.15	1	620.15	1	764.50	2	10.80	2	1115.0	2	0.2543	2	0.189	2	0.898
31758	C19H41N	ethylheptadecylamine	66359-43-1	315.15	2	621.15	1	764.70	2	11.20	2	1115.0	2	0.2543	2	0.196	2	0.941
31759	C19H41N	dimethylheptadecylamine	3002-57-1	290.00	2	617.15	1	770.60	2	10.40	2	1115.0	2	0.2543	2	0.181	2	0.749
31760	C19H41N	diethylpentadecylamine	36555-73-4	290.00	2	590.15	1	735.67	2	11.08	2	1137.5	2	0.2493	2	0.206	2	0.811
31976	C20H16	triphenylethylene	58-72-0	342.15	1	669.00	1	908.00	2	21.00	2	860.0	2	0.2981	2	0.239	2	0.600
32061	C20H18	1,1',1"-(1-ethanyl-2-ylidene)trisbenzene	1520-42-9	327.75	1	622.00	2	840.00	2	20.40	2	808.0	2	0.3198	2	0.236	2	0.612
32214	C20H24	1,1-diphenyl-1-octene	1530-21-8	250.81	2	629.15	1	828.02	2	17.09	2	920.5	2	0.2872	2	0.229	2	0.669
32259	C20H26	1,1-diphenyloctane	1530-06-9	269.15	1	619.15	1	810.00	2	16.70	2	1014.0	2	0.2627	2	0.251	2	0.698
32260	C20H26	2,5-dimethyl-2,5-diphenylhexane	17648-05-4	334.95	1	619.15	2	810.00	2	16.70	2	1014.0	2	0.2627	2	0.251	2	0.698
32262	C20H26	3,4-dimethyl-3,4-diphenylhexane	10192-93-5	302.05	2	619.15	2	810.00	2	16.70	2	1014.0	2	0.2627	2	0.251	2	0.698
32302	C20H28	1-decylnaphthalene	26438-27-7	288.15	1	652.00	1	859.00	2	15.80	2	1070.0	2	0.2509	2	0.237	2	0.642
32303	C20H28	2-decylnaphthalene	14188-79-5	296.15	1	656.15	1	843.81	2	15.06	2	969.5	2	0.2769	2	0.208	2	0.762
32346	C20H30O2	abietic acid	514-10-3	446.65	1	649.70	1	832.00	2	16.80	2	998.0	2	0.3031	2	0.242	2	1.129
32349	C20H30O2	palustric acid	1945-53-5	441.65	1	616.00	2	789.00	2	17.20	2	993.0	2	0.3046	2	0.260	2	0.917
32350	C20H30O2	pimaric acid	127-27-5	491.65	1	623.10	2	807.10	2	16.48	2	998.0	2	0.3031	2	0.245	2	0.792
32358	C20H30O2	neoabietic acid	471-77-2	446.40	1	631.00	2	812.00	2	16.70	2	998.0	2	0.3031	2	0.247	2	0.860
32358.1	C20H30O2	isopimaric acid	5835-26-7	435.65	1	623.10	2	807.10	2	16.48	2	998.0	2	0.3031	2	0.245	2	0.791
32359	C20H30O4	dihexyl phthalate	84-75-3	233.15	1	640.00	2	793.00	2	14.00	2	1060.0	2	0.3155	2	0.225	2	1.125
32367	C20H31N	dehydroabietylamine	1446-61-3	317.65	1	660.00	1	863.00	2	17.00	2	1020.0	2	0.2799	2	0.242	2	0.742
32376	C20H32	1-decyl-[1,2,3,4-tetrahydronaphthalene]	55255-57-7	333.73	2	634.15	1	814.16	2	14.06	2	996.5	2	0.2734	2	0.207	2	0.730
32377	C20H32	2-decyl-[1,2,3,4-tetrahydronaphthalene]	66455-67-2	333.73	2	636.15	1	816.73	2	14.06	2	996.5	2	0.2734	2	0.206	2	0.730
32391.1	C20H32O2	isoagatholal	17990-11-3	325.00	2	628.00	2	790.00	2	16.70	2	1030.0	2	0.2956	2	0.262	2	1.083
32399	C20H34	1-phenyltetradecane	1459-10-5	289.15	1	627.15	1	800.00	2	14.00	2	1030.0	2	0.2665	2	0.217	2	0.813
32407.1	C20H34O2	agathadiol	1857-24-5	379.55	2	640.00	2	790.00	2	16.10	2	1030.0	2	0.2976	2	0.252	2	1.281
32436	C20H38	1-eicosyne	765-27-5	309.16	1	613.16	1	769.79	2	11.19	2	1117.5	2	0.2492	2	0.195	2	0.750
32437	C20H38	2-eicosyne	61847-99-2	420.76	2	625.15	1	786.42	2	11.28	2	1117.5	2	0.2492	2	0.193	2	0.744
32438	C20H38	3-eicosyne	61886-66-6	420.76	2	603.15	1	758.74	2	11.28	2	1117.5	2	0.2492	2	0.200	2	0.744

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
32439	C20H38	1,1-dicyclohexyloctane	62016-87-9	329.42	2	617.15	1	797.35	2	13.44	2	1021.5	2	0.2727	2	0.207	2	0.653
32440	C20H38	1-pentadecylcyclopentene	62184-80-9	290.75	2	608.15	1	767.17	2	11.71	2	1082.5	2	0.2573	2	0.199	2	0.748
32445	C20H38O2	cis-9-eicosenoic acid	29204-02-2	297.65	1	650.00	2	966.00	2	14.00	2	1194.7	2	0.2599	2	0.208	2	---
32446	C20H38O2	9-eicosenoic acid	506-31-0	296.15	1	650.00	2	966.00	2	14.00	2	1194.7	2	0.2599	2	0.208	2	---
32447	C20H38O2	11-eicosenoic acid	2462-94-4	297.15	1	650.00	2	966.00	2	14.00	2	1194.7	2	0.2599	2	0.208	2	---
32450	C20H38O2	cis-11-eicosenoic acid	5561-99-9	296.65	1	650.00	2	966.00	2	14.00	2	1194.7	2	0.2599	2	0.208	2	---
32450.1	C20H38O2	cetyl methacrylate	2495-27-4	288.15	1	641.00	2	793.00	2	12.30	2	1260.0	2	0.2464	2	0.235	2	0.976
32457	C20H39Br	cis-1-bromo-1-eicosene	66455-60-5	369.38	2	648.15	1	805.01	2	10.99	2	1197.5	2	0.3002	2	0.197	2	0.839
32458	C20H39Br	trans-1-bromo-1-eicosene	66455-61-6	369.38	2	648.15	1	805.01	2	10.99	2	1197.5	2	0.3002	2	0.197	2	0.839
32459	C20H39Br3	1,1,1-tribromoeicosane	62127-76-8	496.48	2	708.15	1	874.10	2	11.79	2	1330.5	2	0.3903	2	0.216	2	0.955
32460	C20H39Cl	cis-1-chloro-1-eicosene	66455-62-7	339.50	2	656.15	1	815.57	2	10.25	2	1184.5	2	0.2659	2	0.179	2	0.779
32461	C20H39Cl	trans-1-chloro-1-eicosene	66455-41-2	339.50	2	656.15	1	815.57	2	10.25	2	1184.5	2	0.2659	2	0.179	2	0.779
32462	C20H39Cl3	1,1,1-trichloroeicosane	62108-64-9	406.84	2	680.15	1	841.03	2	9.59	2	1291.5	2	0.2988	2	0.177	2	0.774
32463	C20H39F	cis-1-fluoro-1-eicosene	66455-42-3	341.73	2	660.43	2	820.75	2	10.20	2	1153.5	2	0.2588	2	0.172	2	0.776
32464	C20H39F	trans-1-fluoro-1-eicosene	66455-43-4	341.73	2	660.43	2	820.75	2	10.20	2	1153.5	2	0.2588	2	0.172	2	0.776
32465	C20H39F3	1,1,1-trifluoroeicosane	62126-86-7	413.53	2	597.15	1	743.40	2	10.00	2	1182.0	2	0.2847	2	0.191	2	0.746
32466	C20H39I	cis-1-iodo-1-eicosene	66455-45-6	367.64	2	669.15	1	832.59	2	10.35	2	1223.5	2	0.3322	2	0.183	2	0.777
32467	C20H39I	trans-1-iodo-1-eicosene	66455-44-5	367.64	2	669.15	1	832.59	2	10.35	2	1223.5	2	0.3322	2	0.183	2	0.777
32468	C20H39I3	1,1,1-triiodoeicosane	---	491.26	2	933.19	2	1156.96	2	9.86	2	1408.5	2	0.4688	2	0.144	2	0.772
32469	C20H39N	eicosanenitrile	4616-73-3	323.75	1	659.15	1	813.13	2	10.00	2	1181.5	2	0.2484	2	0.175	2	0.829
32473	C20H40	pentadecylcyclopentane	4669-01-6	290.00	1	625.00	1	780.00	1	10.20	1	1096.5	1	0.2558	1	0.172	1	0.833
32474	C20H40	tetradecylcyclohexane	1795-18-2	297.16	1	627.16	1	792.82	2	11.62	2	1088.5	2	0.2577	2	0.192	2	0.719
32475	C20H40	cycloeicosane	296-56-0	277.00	2	621.15	1	842.81	2	15.38	2	977.5	2	0.2870	2	0.215	2	0.424
32476	C20H40	1-eicosene	3452-07-1	301.76	1	615.54	1	771.00	2	12.20	2	1160.0	2	0.2418	2	0.221	2	0.880
32476.1	C20H40	trans-2-eicosene	42448-85-1	285.00	2	592.00	2	745.00	2	12.00	2	1110.0	2	0.2527	2	0.215	2	0.822
32477	C20H40	2-methyl-1-nonadecene	52254-50-9	292.65	1	615.15	1	768.75	2	10.47	2	1137.5	2	0.2466	2	0.186	2	0.746
32479	C20H40Br2	1,1-dibromoeicosane	62168-37-0	419.26	2	686.15	1	847.57	2	11.17	2	1273.5	2	0.3458	2	0.202	2	0.905
32480	C20H40Cl2	1,1-dichloroeicosane	62017-22-5	359.50	2	667.15	1	825.11	2	9.74	2	1247.5	2	0.2817	2	0.177	2	0.785
32481	C20H40F2	1,1-difluoroeicosane	62127-09-7	363.96	2	603.15	1	754.00	2	9.70	2	1168.0	2	0.2727	2	0.181	2	0.687
32482	C20H40I2	1,1-diiodoeicosane	66455-47-8	415.78	2	842.84	2	1044.20	2	9.93	2	1325.5	2	0.4031	2	0.152	2	0.784
32486	C20H40O	eicosanal	2400-66-0	324.15	1	634.15	1	784.21	2	10.65	2	1172.5	2	0.2529	2	0.192	2	0.856
32487	C20H40O	2-eicosanone	29703-52-4	332.15	1	625.00	2	773.72	2	10.58	2	1161.5	2	0.2553	2	0.191	2	0.840
32489	C20H40O	3,7,11,15-tetramethyl-1-hexadecen-3-ol	505-32-8	---	---	629.58	2	783.00	2	12.50	2	1079.5	2	0.2747	2	0.207	2	---
32491	C20H40O2	eicosanoic acid	506-30-9	348.23	1	670.15	1	821.00	2	12.40	2	1130.0	2	0.2766	2	0.205	2	1.087
32492	C20H40O2	3,7,11,15-tetramethylhexadecanoic acid	14721-66-5	208.15	1	706.07	2	822.00	2	10.76	2	1179.5	2	0.2650	2	0.186	2	0.935
32493	C20H40O2	nonadecyl formate	66455-49-0	373.36	2	714.52	2	782.90	2	9.40	2	1213.0	2	0.2577	2	0.175	2	---
32494	C20H40O2	octadecyl acetate	822-23-1	305.99	1	630.00	2	779.60	2	9.40	2	1215.0	2	0.2572	2	0.176	2	---
32495	C20H40O2	heptadecyl propanoate	---	356.99	2	715.22	2	782.00	2	9.40	2	1215.0	2	0.2572	2	0.176	2	---
32496	C20H40O2	hexadecyl butanoate	6221-99-4	356.99	2	715.22	2	781.80	2	9.50	2	1215.0	2	0.2572	2	0.178	2	---
32497	C20H40O2	decyl decanoate	1654-86-0	282.85	1	706.07	2	772.00	2	12.20	2	1090.5	2	0.2866	2	0.207	2	---
32498	C20H40O2	butyl palmitate	111-06-8	290.05	1	706.07	2	772.00	2	12.20	2	1085.3	2	0.2880	2	0.206	2	---
32499	C20H40O2	ethyl stearate	111-61-5	306.15	1	706.07	2	772.00	2	12.20	2	1080.1	2	0.2894	2	0.205	2	---
32500	C20H40O2	methyl nonadecanoate	1731-94-8	314.45	1	706.07	2	772.00	2	12.20	2	1074.9	2	0.2908	2	0.204	2	---
32504	C20H40S	thiacycloheneicosane	42425-07-0	356.93	2	644.15	1	872.75	2	15.61	2	1015.5	2	0.3078	2	0.218	2	0.440
32505	C20H41Br	1-bromoeicosane	4276-49-7	310.05	1	659.15	1	816.19	2	10.62	2	1217.5	2	0.2969	2	0.190	2	0.841
32506	C20H41Cl	1-chloroeicosane	42217-02-7	310.75	1	646.15	1	800.64	2	9.92	2	1204.5	2	0.2632	2	0.180	2	0.782
32507	C20H41F	1-fluoroeicosane	676-44-8	311.15	1	614.15	1	756.80	2	9.30	2	1158.0	2	0.2595	2	0.171	2	0.782
32508	C20H41I	1-iodoeicosane	34994-81-5	315.05	1	680.15	1	833.96	2	11.01	2	1174.5	2	0.3478	2	0.186	2	0.969
32511	C20H41NO2	1-nitroeicosane	66455-50-3	458.27	2	667.15	1	821.10	2	10.23	2	1237.5	2	0.2647	2	0.186	2	0.871
32515	C20H42	eicosane	112-95-8	309.58	1	616.93	1	768.00	2	11.60	2	1208.0	2	0.2339	2	0.219	2	0.907
32516	C20H42	2-methylnonadecane	1560-86-7	291.45	1	612.15	1	763.21	2	10.21	2	1208.0	2	0.2339	2	0.194	2	0.748
32517	C20H42	3-methylnonadecane	6418-45-7	281.15	1	613.15	1	764.46	2	10.21	2	1208.0	2	0.2339	2	0.194	2	0.748
32518	C20H42	2,2-dimethyloctadecane	61869-06-5	317.08	2	606.15	1	759.27	2	10.28	2	1208.0	2	0.2339	2	0.197	2	0.713
32519	C20H42	2,3-dimethyloctadecane	61868-04-0	284.66	2	614.15	1	767.45	2	10.26	2	1208.0	2	0.2339	2	0.194	2	0.732
32520	C20H42	2,4-dimethyloctadecane	61868-10-8	284.66	2	594.15	1	742.46	2	10.26	2	1208.0	2	0.2339	2	0.201	2	0.732
32522	C20H42O	1-eicosanol	629-96-9	338.55	1	645.50	1	809.00	2	13.00	2	1120.0	2	0.2666	2	0.216	2	0.918
32523	C20H42O	2-eicosanol	4340-76-5	333.15	1	639.15	1	791.20	2	11.40	2	1153.0	2	0.2589	2	0.200	2	0.899
32524	C20H42O	didecyl ether	2456-28-2	257.15	1	590.00	2	730.80	2	10.05	2	1173.5	2	0.2544	2	0.194	2	0.795
32525	C20H42O	2-octyl-1-dodecanol	5333-42-6	273.20	1	619.43	2	791.60	2	11.90	2	1136.5	2	0.2628	2	0.205	2	0.918
32526	C20H42O2	1,2-eicosanediol	39825-93-9	358.15	1	693.15	2	849.99	2	11.52	2	1187.5	2	0.2649	2	0.194	2	1.006
32527	C20H42O2	1,3-eicosanediol	---	421.30	2	704.15	2	863.48	2	11.52	2	1187.5	2	0.2649	2	0.191	2	1.006
32528	C20H42O2	1,4-eicosanediol	---	421.30	2	725.15	2	889.23	2	11.52	2	1187.5	2	0.2649	2	0.185	2	1.006
32529	C20H42O2	1,20-eicosanediol	---	436.30	2	712.15	2	873.91	2	11.46	2	1193.5	2	0.2636	2	0.188	2	0.993
32537	C20H42S	1-eicosanethiol	13373-97-2	310.37	1	656.16	1	814.57	2	10.58	2	1209.5	2	0.2601	2	0.189	2	0.809
32538	C20H42S	2-eicosanethiol	62155-08-2	308.15	1	651.15	1	803.00	2	10.00	2	1187.0	2	0.2651	2	0.178	2	0.833
32539	C20H42S	didecyl sulfide	693-83-4	308.16	2	645.00	2	832.33	2	10.27	2	1209.5	2	0.2601	2	0.180	2	0.795
32540	C20H42S	methyl nonadecyl sulfide	62155-12-8	308.16	2	645.00	2	832.33	2	10.27	2	1209.5	2	0.2601	2	0.180	2	0.795
32541	C20H42S	ethyl octadecyl sulfide	41947-84-6	308.16	2	645.00	2	832.33	2	10.27	2	1209.5	2	0.2601	2	0.180	2	0.795
32542	C20H42S	propyl heptadecyl sulfide	66455-35-4	308.16	2	645.00	2	832.33	2	10.27	2	1209.5	2	0.2601	2	0.180	2	0.795
32543	C20H42S	butyl hexadecyl sulfide	18437-89-3	308.16	2	645.00	2	832.33	2	10.27	2	1209.5	2	0.2601	2	0.180	2	0.795
32544	C20H42S2	didecyl disulfide	10496-18-1	259.16	1	663.16	1	820.08	2	10.38	2	1263.5	2	0.2744	2	0.192	2	0.830
32546	C20H43N	eicosylamine	10525-37-8	332.15	1	656.15	1	794.60	2	9.50	2	1170.0	2	0.2543	2	0.168	2	0.980
32547	C20H43N	methylnonadecylamine	66455-36-5	311.15	2	632.15	1	773.40	2	10.00	2	1170.0	2	0.2543	2	0.182	2	0.913
32548	C20H43N	ethyloctadecylamine	7317-85-3	309.15	2	634.15	1	773.90	2	10.50	2	1170.0	2	0.2543	2	0.191	2	0.981
32549	C20H43N	didecylamine	1120-49-6	307.15	1	632.15	1	782.30	2	12.10	2	1172.0	2	0.2539	2	0.218	2	0.949
32550	C20H43N	dimethyloctadecylamine	124-28-7	296.04	1	629.15	1	779.70	2	9.70	2	1170.0	2	0.2543	2	0.175	2	0.763
32551	C20H43N	diethylhexadecylamine	30951-88-3	280.15	1	602.15	1	746.71	2	10.41	2	1193.5	2	0.2493	2	0.200	2	0.812
32787	C21H21O4P	tri-o-cresyl phosphate	78-30-8	245.65	1	683.15	1	1060.00	2	449.00	2	---	---	---	---	---	---	1.117
32860	C21H26	1,1-diphenyl-1-nonene	1530-26-3	245.71	2	642.15	1	835.60	2	15.81	2	976.5	2	0.2851	2	0.222	2	0.703
32914	C21H28	1,1-diphenylnonane	1726-13-2	288.15	1	630.15	1	816.50	2	15.70	2	1077.0	2	0.2604	2	0.249	2	0.731

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
32944	C21H30	1-undecylnaphthalene	7225-71-0	296.15	1	664.15	1	846.34	2	14.00	2	1025.5	2	0.2754	2	0.204	2	0.787
32945	C21H30	2-undecylnaphthalene	61886-68-8	293.15	1	669.15	1	852.71	2	14.00	2	1025.5	2	0.2754	2	0.202	2	0.787
32953	C21H30O2	dehydroabietic acid	1740-19-8	445.65	1	645.00	2	828.00	2	17.50	2	980.0	2	0.3209	2	0.249	2	0.915
32998	C21H36	pentadecylbenzene	2131-18-2	295.15	1	639.15	1	809.00	2	13.30	2	1090.0	2	0.2647	2	0.216	2	0.857
33021	C21H40	1,1-dicyclohexylnonane	62155-19-5	340.69	2	629.15	1	805.09	2	12.54	2	1077.5	2	0.2715	2	0.202	2	0.680
33022	C21H40	1-hexadecylcyclopentene	62184-81-0	302.02	2	619.15	1	775.66	2	10.98	2	1138.5	2	0.2570	2	0.194	2	0.760
33023	C21H40	1-heneicosyne	61847-81-2	314.15	1	627.15	1	782.42	2	10.50	2	1173.5	2	0.2493	2	0.189	2	0.764
33029	C21H40O4	glycerol 1-monooleate	111-03-5	309.15	1	714.00	2	885.00	2	12.40	2	1210.0	2	0.2947	2	0.204	2	0.992
33032	C21H41N	heneicosanenitrile	66326-13-4	324.15	1	670.15	1	824.05	2	9.42	2	1237.5	2	0.2485	2	0.170	2	0.812
33036	C21H42	hexadecylcyclopentane	6812-39-1	294.16	1	637.16	1	797.25	2	10.72	2	1152.5	2	0.2556	2	0.186	2	0.748
33037	C21H42	pentadecylcyclohexane	6006-95-7	302.16	1	640.16	1	803.46	2	10.90	2	1144.5	2	0.2574	2	0.187	2	0.733
33038	C21H42	1-heneicosene	1599-68-4	306.45	1	628.15	1	779.35	2	9.81	2	1192.5	2	0.2470	2	0.181	2	0.762
33039	C21H42Br2	1,1-dibromoheneicosane	62168-38-1	430.53	2	697.15	1	858.13	2	10.49	2	1329.5	2	0.3418	2	0.195	2	0.889
33040	C21H42Cl2	1,1-dichloroheneicosane	62017-23-6	370.77	2	678.15	1	835.53	2	9.18	2	1303.5	2	0.2804	2	0.172	2	0.773
33041	C21H42F2	1,1-difluoroheneicosane	62127-10-0	375.23	2	614.15	1	756.52	2	9.09	2	1241.5	2	0.2679	2	0.180	2	0.768
33042	C21H42I2	1,1-diiodoheneicosane	66326-14-5	427.05	2	865.72	2	1068.11	2	9.35	2	1381.5	2	0.3969	2	0.145	2	0.775
33043	C21H42O2	eicosyl formate	66326-15-6	384.63	2	737.40	2	790.50	2	8.80	2	1271.0	2	0.2569	2	0.170	2	---
33044	C21H42O2	nonadecyl acetate	53939-51-8	310.75	1	645.00	2	787.40	2	8.80	2	1273.0	2	0.2565	2	0.171	2	---
33045	C21H42O2	octadecyl propanoate	52663-48-6	303.95	1	738.10	2	789.90	2	8.90	2	1273.0	2	0.2565	2	0.173	2	---
33046	C21H42O2	heptadecyl butanoate	84869-41-0	368.26	2	738.10	2	789.70	2	9.00	2	1273.0	2	0.2565	2	0.175	2	---
33047	C21H42O2	isopropyl stearate	112-10-7	301.15	1	737.93	2	785.00	2	11.60	2	1144.0	2	0.2855	2	0.203	2	---
33048	C21H42O2	propyl stearate	3634-92-2	302.05	1	737.93	2	785.00	2	11.60	2	1138.4	2	0.2869	2	0.202	2	---
33049	C21H42O2	methyl eicosanoate	1120-28-1	318.56	1	737.93	2	785.00	2	11.60	2	1132.9	2	0.2883	2	0.201	2	---
33050	C21H42O2	heneicosanoic acid	2363-71-5	348.15	1	737.93	2	834.00	2	10.30	2	1219.0	2	0.2679	2	0.181	2	---
33051	C21H42O2	isopropyl isostearate	68171-33-5	307.25	2	737.93	2	785.00	2	11.60	2	1127.3	2	0.2897	2	0.200	2	---
33055	C21H43Br	1-bromoheneicosane	4276-50-0	319.25	1	670.15	1	826.47	2	9.98	2	1273.5	2	0.2948	2	0.185	2	0.831
33056	C21H43Cl	1-chloroheneicosane	66326-16-7	317.15	1	657.15	1	810.87	2	9.35	2	1260.5	2	0.2626	2	0.175	2	0.774
33057	C21H43F	1-fluoroheneicosane	62126-78-7	320.15	1	626.15	1	772.53	2	9.30	2	1229.5	2	0.2559	2	0.178	2	0.771
33058	C21H43I	1-iodoheneicosane	62127-52-0	322.25	1	691.15	1	846.44	2	10.34	2	1230.5	2	0.3433	2	0.181	2	0.930
33059	C21H44	heneicosane	629-94-7	313.35	1	629.65	1	778.00	2	11.10	2	1267.7	2	0.2340	2	0.218	2	0.942
33062	C21H44O	henicosanol	15594-90-8	342.65	1	642.00	2	801.60	2	11.40	2	1173.7	2	0.2663	2	0.201	2	---
33065	C21H45N	heneicosylamine	14130-15-5	331.15	1	668.15	1	822.40	2	9.91	2	1240.5	2	0.2512	2	0.180	2	0.844
33066	C21H45N	methyleicosylamine	66326-20-3	319.15	1	643.15	1	791.58	2	9.64	2	1246.5	2	0.2500	2	0.183	2	0.822
33067	C21H45N	ethylnonadecylamine	66326-79-0	319.15	2	646.15	1	795.27	2	9.64	2	1246.5	2	0.2500	2	0.182	2	0.822
33068	C21H45N	isopropyloctadecylamine	13329-71-0	319.15	2	635.98	2	783.99	2	9.76	2	1247.0	2	0.2499	2	0.187	2	0.817
33069	C21H45N	dimethylnonadecylamine	49859-87-2	300.00	2	641.15	1	791.64	2	9.79	2	1249.5	2	0.2494	2	0.186	2	0.804
33070	C21H45N	diethylheptadecylamine	66326-18-9	300.00	2	614.15	1	758.30	2	9.79	2	1249.5	2	0.2494	2	0.194	2	0.804
33071	C21H45N	triheptylamine	2411-36-1	300.00	2	603.15	1	744.72	2	9.79	2	1249.5	2	0.2494	2	0.198	2	0.804
33313	C22H28	1,1-diphenyl-1-decene	1530-27-4	240.61	2	655.15	1	843.78	2	14.67	2	1032.5	2	0.2833	2	0.216	2	0.733
33343	C22H30	1,1-diphenyldecane	1530-07-0	276.15	1	634.15	1	822.00	2	14.90	2	1146.0	2	0.2570	2	0.250	2	0.695
33361	C22H32	1-dodecylnaphthalene	26438-28-8	301.15	1	676.15	1	854.65	2	13.04	2	1081.5	2	0.2742	2	0.199	2	0.807
33362	C22H32	2-dodecylnaphthalene	60899-39-0	305.15	1	682.15	1	862.23	2	13.04	2	1081.5	2	0.2742	2	0.197	2	0.807
33384	C22H34O4	diheptyl phthalate	3648-21-3	240.00	2	663.00	1	815.00	2	12.70	2	1160.0	2	0.3125	2	0.217	2	1.105
33401	C22H38	1-phenylhexadecane	1459-09-2	300.15	1	651.15	1	818.00	2	12.70	2	1140.0	2	0.2654	2	0.213	2	0.900
33425	C22H42	1,1-dicyclohexyldecane	62155-20-8	351.96	2	640.15	1	812.16	2	11.73	2	1133.5	2	0.2705	2	0.197	2	0.702
33426	C22H42	1-docosyne	61847-82-3	318.15	1	639.15	1	793.12	2	9.88	2	1229.5	2	0.2493	2	0.184	2	0.765
33431	C22H42O2	cis-13-docosenoic acid	112-86-7	307.85	1	665.00	2	996.00	2	13.00	2	1314.0	2	0.2577	2	0.206	2	---
33432	C22H42O2	trans-13-docosenoic acid	506-33-2	335.05	1	665.00	2	996.00	2	13.00	2	1314.0	2	0.2577	2	0.206	2	---
33433	C22H42O2	13-docosenoic acid	1072-39-5	307.85	1	665.00	2	996.00	2	13.00	2	1314.0	2	0.2577	2	0.206	2	---
33437	C22H42O4	bis(2-ethylhexyl) adipate	103-23-1	161.50	1	690.15	1	845.00	2	11.20	2	1260.0	2	0.2941	2	0.201	2	1.060
33440	C22H42O4	di-n-octyl adipate	123-79-5	280.65	1	678.00	1	830.00	2	11.30	2	1260.0	2	0.2941	2	0.206	2	1.048
33454	C22H44	heptadecylcyclopentane	62016-52-8	300.15	1	650.15	1	808.79	2	10.08	2	1208.5	2	0.2554	2	0.181	2	0.758
33455	C22H44	hexadecylcyclohexane	6812-38-0	306.76	1	652.16	1	813.42	2	10.24	2	1200.5	2	0.2571	2	0.182	2	0.741
33456	C22H44	1-docosene	1599-67-3	310.95	1	640.15	1	790.73	2	9.25	2	1248.5	2	0.2472	2	0.176	2	0.756
33457	C22H44Br2	1,1-dibromodocosane	62168-39-2	441.80	2	707.15	1	868.14	2	9.86	2	1385.5	2	0.3381	2	0.189	2	0.866
33458	C22H44Cl2	1,1-dichlorodocosane	62017-24-7	382.04	2	689.15	1	846.62	2	8.67	2	1359.5	2	0.2791	2	0.167	2	0.754
33459	C22H44F2	1,1-difluorodocosane	62127-11-1	386.50	2	624.15	1	766.65	2	8.59	2	1297.5	2	0.2671	2	0.175	2	0.748
33460	C22H44I2	1,1-diiododocosane	66326-05-4	438.32	2	888.60	2	1092.78	2	8.83	2	1437.5	2	0.3912	2	0.140	2	0.759
33462	C22H44O	cis-13-docosen-1-ol	629-98-1	308.15	1	652.58	2	811.00	2	11.00	2	1246.3	2	0.2604	2	0.203	2	---
33463	C22H44O2	eicosyl acetate	822-24-2	313.15	1	650.00	2	794.70	2	8.30	2	1331.0	2	0.2559	2	0.167	2	---
33464	C22H44O2	nonadecyl propanoate	66326-06-5	379.53	2	760.98	2	797.30	2	8.40	2	1331.0	2	0.2559	2	0.169	2	---
33465	C22H44O2	octadecyl butanoate	13373-83-6	379.53	2	760.98	2	797.20	2	8.50	2	1331.0	2	0.2559	2	0.171	2	---
33466	C22H44O2	butyl stearate	123-95-5	299.45	1	623.15	1	764.00	2	11.10	2	1230.0	2	0.2769	2	0.215	2	1.025
33467	C22H44O2	isobutyl stearate	646-13-9	302.05	1	726.52	2	764.00	2	11.10	2	1135.3	2	0.3000	2	0.198	2	---
33468	C22H44O2	docosanoic acid	112-85-6	354.65	1	726.52	2	846.00	2	9.90	2	1272.4	2	0.2677	2	0.179	2	---
33469	C22H44O2	ethyl eicosanoate	18281-05-5	323.15	1	726.52	2	764.00	2	11.10	2	1129.6	2	0.3015	2	0.197	2	---
33470	C22H44O2	methyl heneicosanoate	6064-90-0	322.15	1	726.52	2	764.00	2	11.10	2	1124.0	2	0.3030	2	0.196	2	---
33473	C22H45Br	1-bromodocosane	6938-66-5	317.45	1	681.15	1	837.39	2	9.40	2	1329.5	2	0.2930	2	0.180	2	0.814
33474	C22H45Cl	1-chlorodocosane	42217-03-8	318.15	1	668.15	1	821.75	2	8.82	2	1316.5	2	0.2621	2	0.170	2	0.758
33475	C22H45F	1-fluorodocosane	62126-79-8	319.15	1	637.15	1	783.55	2	8.78	2	1285.5	2	0.2556	2	0.173	2	0.755
33476	C22H45I	1-iododocosane	62127-53-1	321.95	1	701.15	1	858.41	2	9.73	2	1286.5	2	0.3393	2	0.175	2	0.883
33477	C22H46	docosane	629-97-0	317.15	1	641.75	1	787.00	2	10.60	2	1327.4	2	0.2340	2	0.215	2	0.972
33479	C22H46O	1-docosanol	661-19-8	345.65	1	653.00	2	811.60	2	10.90	2	1230.6	2	0.2654	2	0.199	2	---
33483	C22H47N	docosylamine	14130-06-4	336.15	1	680.15	1	834.97	2	9.33	2	1296.5	2	0.2512	2	0.174	2	0.821
33484	C22H47N	methylheneicosylamine	66326-08-7	321.15	1	654.15	1	803.02	2	9.09	2	1302.5	2	0.2500	2	0.177	2	0.800
33485	C22H47N	ethyleicosylamine	66326-07-6	318.15	2	657.15	1	806.70	2	9.09	2	1302.5	2	0.2500	2	0.177	2	0.800
33486	C22H47N	diundecylamine	16165-33-6	315.15	1	655.15	1	804.24	2	9.09	2	1302.5	2	0.2500	2	0.177	2	0.800
33487	C22H47N	dimethyleicosylamine	45275-74-9	306.15	1	652.15	1	802.46	2	9.23	2	1305.5	2	0.2494	2	0.181	2	0.790
33488	C22H47N	diethyloctadecylamine	30427-51-1	306.15	2	625.15	1	769.24	2	9.23	2	1305.5	2	0.2494	2	0.188	2	0.790
33607	C23H30	1,1-diphenyl-1-undecene	1530-28-5	235.51	2	666.15	1	850.03	2	13.65	2	1088.5	2	0.2816	2	0.210	2	0.759

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
33633	C23H32	1,1-diphenylundecane	1530-08-1	294.15	1	650.15	1	827.90	2	14.10	2	1210.0	2	0.2550	2	0.248	2	0.798
33674	C23H40	heptadecylbenzene	14752-75-1	305.15	1	662.15	1	826.00	2	12.10	2	1200.0	2	0.2638	2	0.211	2	0.920
33677	C23H44	1,1-dicyclohexylundecane	62155-21-9	363.23	2	650.15	1	818.57	2	10.99	2	1189.5	2	0.2695	2	0.192	2	0.719
33678	C23H44	1-tricosyne	61847-83-4	322.15	1	651.15	1	804.42	2	9.31	2	1285.5	2	0.2494	2	0.179	2	0.759
33684	C23H46	octadecylcyclopentane	62016-53-9	303.15	1	662.15	1	819.70	2	9.49	2	1264.5	2	0.2551	2	0.176	2	0.756
33685	C23H46	heptadecylcyclohexane	19781-73-8	310.95	1	664.15	1	823.97	2	9.64	2	1256.5	2	0.2568	2	0.177	2	0.748
33686	C23H46	1-tricosene	18835-32-0	314.75	1	652.15	1	802.72	2	8.73	2	1304.5	2	0.2473	2	0.171	2	0.742
33687	C23H46	cis-9-tricosene	27519-02-4	273.15	1	612.15	1	802.72	2	8.73	2	1304.5	2	0.2473	2	0.171	2	0.742
33688	C23H46Br2	1,1-dibromotricosane	62168-40-5	453.07	2	717.15	1	878.87	2	9.30	2	1441.5	2	0.3347	2	0.183	2	0.835
33689	C23H46Cl2	1,1-dichlorotricosane	62017-25-8	393.31	2	699.15	1	857.18	2	8.20	2	1415.5	2	0.2780	2	0.163	2	0.728
33690	C23H46F2	1,1-difluorotricosane	62127-12-2	397.77	2	635.15	1	778.63	2	8.13	2	1353.5	2	0.2664	2	0.170	2	0.721
33691	C23H46I2	1,1-diiodotricosane	66325-82-4	449.59	2	911.48	2	1118.27	2	8.34	2	1493.5	2	0.3860	2	0.134	2	0.735
33694	C23H46O	12-tricosanone	540-09-0	343.35	1	673.00	2	794.72	2	9.10	2	1225.2	2	0.2764	2	0.169	2	---
33695	C23H46O2	eicosyl propanoate	65591-14-2	390.80	2	783.86	2	804.30	2	7.90	2	1389.0	2	0.2553	2	0.164	2	---
33696	C23H46O2	nonadecyl butanoate	84869-42-1	390.80	2	783.86	2	804.20	2	8.00	2	1389.0	2	0.2553	2	0.166	2	---
33697	C23H46O2	isopentyl stearate	627-88-3	298.65	1	783.86	2	798.00	2	10.60	2	1223.2	2	0.2899	2	0.195	2	---
33698	C23H46O2	pentyl stearate	6382-13-4	303.15	1	783.86	2	798.00	2	10.60	2	1217.0	2	0.2914	2	0.194	2	---
33699	C23H46O2	methyl docosanoate	929-77-1	327.15	1	783.86	2	798.00	2	10.60	2	1210.8	2	0.2929	2	0.193	2	---
33700	C23H46O2	tricosanoic acid	2433-96-7	352.65	1	783.86	2	858.00	2	9.50	2	1330.0	2	0.2666	2	0.177	2	---
33701	C23H46O2	isostearyl neopentanoate	58958-60-4	309.65	2	783.86	2	798.00	2	10.60	2	1204.7	2	0.2944	2	0.192	2	---
33702	C23H47Br	1-bromotricosane	62108-44-5	325.85	1	691.15	1	847.76	2	8.87	2	1385.5	2	0.2913	2	0.174	2	0.788
33703	C23H47Cl	1-chlorotricosane	62016-77-7	324.15	1	678.15	1	832.05	2	8.34	2	1372.5	2	0.2616	2	0.165	2	0.734
33704	C23H47F	1-fluorotricosane	62126-80-1	327.15	1	648.15	1	795.19	2	8.30	2	1341.5	2	0.2554	2	0.168	2	0.731
33705	C23H47I	1-iodotricosane	62127-54-2	328.35	1	712.15	1	872.37	2	9.17	2	1342.5	2	0.3356	2	0.170	2	0.828
33706	C23H48	tricosane	638-67-5	320.65	1	653.35	1	796.00	2	10.20	2	1387.1	2	0.2340	2	0.214	2	1.026
33707	C23H48	9-hexylheptadecane	55124-79-3	253.75	1	653.35	2	803.12	2	8.52	2	1387.1	2	0.2340	2	0.177	2	0.734
33708	C23H48O	1-tricosanol	3133-01-5	348.15	1	458.15	1	821.60	2	10.40	2	1292.7	2	0.2635	2	0.197	2	---
33710	C23H49N	tricosylamine	14130-07-5	337.15	1	691.15	1	846.99	2	8.81	2	1352.5	2	0.2511	2	0.169	2	0.791
33711	C23H49N	methyldocosylamine	66375-05-1	324.15	1	665.15	1	815.11	2	8.58	2	1358.5	2	0.2500	2	0.172	2	0.770
33712	C23H49N	ethylheneicosylamine	66375-04-0	324.15	2	668.15	1	818.78	2	8.58	2	1358.5	2	0.2500	2	0.171	2	0.770
33713	C23H49N	dimethylheneicosylamine	66375-03-9	311.00	2	663.15	1	813.93	2	8.71	2	1361.5	2	0.2495	2	0.175	2	0.767
33714	C23H49N	diethylnonadecylamine	66375-02-8	311.00	2	636.15	1	780.79	2	8.71	2	1361.5	2	0.2495	2	0.183	2	0.767
33887	C24H32	1,1-diphenyl-1-dodecene	1530-29-6	230.41	2	677.15	1	856.93	2	12.73	2	1144.5	2	0.2801	2	0.204	2	0.780
33906	C24H34	1,1-diphenyldodecane	1603-53-8	283.15	1	659.15	1	832.80	2	13.40	2	1275.0	2	0.2530	2	0.247	2	0.830
33924	C24H38O4	diisooctyl phthalate	27554-26-3	---	---	694.00	1	851.00	2	11.80	2	1420.0	2	0.2750	2	0.237	2	1.088
33925	C24H38O4	dioctyl phthalate	117-84-0	223.15	1	657.15	1	806.00	2	11.80	2	1270.0	2	0.3075	2	0.224	2	1.142
33926	C24H38O4	bis(2-ethylhexyl) phthalate	117-81-7	223.15	1	657.15	1	806.00	2	11.80	2	1270.0	2	0.3075	2	0.224	2	1.142
33930	C24H38O4	bis(2-ethylhexyl) terephthalate	4654-26-6	---	---	698.00	2	855.00	2	11.60	2	1440.0	2	0.2712	2	0.235	2	1.090
33931.1	C24H38O4	heptyl nonyl phthalate	19295-81-9	240.00	2	687.00	2	841.00	2	11.60	2	1270.0	2	0.3075	2	0.211	2	1.094
33959	C24H42	octadecylbenzene	4445-07-2	309.00	1	673.15	1	834.00	2	11.60	2	1250.0	2	0.2645	2	0.209	2	0.951
33960	C24H42O	dinonylphenol	1323-65-5	---	---	735.00	1	902.00	2	12.40	2	1230.0	2	0.2818	2	0.203	2	1.125
33967	C24H46	1,1-dicyclohexyldodecane	18254-57-4	300.58	2	660.15	1	825.63	2	10.33	2	1245.5	2	0.2687	2	0.187	2	0.729
33968	C24H46	1-tetracosyne	61847-84-5	325.15	1	662.15	1	815.11	2	8.78	2	1341.5	2	0.2494	2	0.174	2	0.746
33970	C24H46O2	cis-15-tetracosenoic acid	506-37-6	316.15	1	680.00	2	996.00	2	12.00	2	1409.9	2	0.2600	2	0.204	2	---
33971	C24H46O2	trans-15-tetracosenoic acid	14490-79-0	334.15	1	680.00	2	996.00	2	12.00	2	1409.9	2	0.2600	2	0.204	2	---
33983	C24H48	nonadecylcyclopentane	62016-54-0	308.15	1	673.15	1	829.99	2	8.95	2	1320.5	2	0.2549	2	0.171	2	0.746
33984	C24H48	octadecylcyclohexane	4445-06-1	313.65	1	675.15	1	833.93	2	9.09	2	1312.5	2	0.2565	2	0.172	2	0.742
33985	C24H48	1-tetracosene	10192-32-2	318.45	1	663.15	1	814.11	2	8.26	2	1360.5	2	0.2474	2	0.166	2	0.721
33986	C24H48Br2	1,1-dibromotetracosane	62168-03-0	464.34	2	726.15	1	889.11	2	8.77	2	1497.5	2	0.3315	2	0.178	2	0.796
33987	C24H48Cl2	1,1-dichlorotetracosane	62017-26-9	404.58	2	709.15	1	868.44	2	7.77	2	1471.5	2	0.2770	2	0.158	2	---
33988	C24H48F2	1,1-difluorotetracosane	62127-13-3	409.04	2	644.15	1	788.81	2	7.70	2	1409.5	2	0.2658	2	0.165	2	---
33989	C24H48I2	1,1-diiodotetracosane	66374-96-7	460.86	2	934.36	2	1144.63	2	7.90	2	1549.5	2	0.3811	2	0.129	2	0.704
33990	C24H48O2	eicosyl butanoate	41927-66-6	402.07	2	806.74	2	810.70	2	7.60	2	1447.0	2	0.2548	2	0.163	2	---
33991	C24H48O2	ethyl docosanoate	5908-87-2	323.15	1	806.74	2	815.00	2	10.10	2	1284.6	2	0.2870	2	0.191	2	---
33992	C24H48O2	tetracosanoic acid	557-59-5	360.65	1	806.74	2	870.00	2	9.10	2	1392.2	2	0.2648	2	0.175	2	---
33993	C24H48O2	hexadecyl 2-ethylhexanoate	59130-69-7	323.15	2	806.74	2	815.00	2	10.10	2	1278.0	2	0.2885	2	0.190	2	---
33994	C24H48O2	octyl palmitate	29806-73-3	323.15	2	806.74	2	815.00	2	10.10	2	1271.4	2	0.2900	2	0.190	2	---
33998	C24H49Br	1-bromotetracosane	6946-24-3	323.85	1	701.15	1	858.84	2	8.39	2	1441.5	2	0.2897	2	0.169	2	0.755
33999	C24H49Cl	1-chlorotetracosane	6422-18-0	325.15	1	688.15	1	843.04	2	7.89	2	1428.5	2	0.2612	2	0.161	2	0.703
34000	C24H49F	1-fluorotetracosane	62126-81-2	326.15	1	658.15	1	806.26	2	7.86	2	1397.5	2	0.2552	2	0.164	2	---
34001	C24H49I	1-iodotetracosane	62127-55-3	327.85	1	722.15	1	885.88	2	8.66	2	1398.5	2	0.3322	2	0.164	2	0.767
34002	C24H50	tetracosane	646-31-1	323.75	1	664.45	1	804.00	2	9.80	2	1446.8	2	0.2341	2	0.212	2	1.071
34003	C24H50	2-methyltricosane	1928-30-9	310.75	1	664.45	2	814.95	2	8.06	2	1446.8	2	0.2341	2	0.172	2	0.710
34004	C24H50O	2-decyl-1-tetradecanol	58670-89-6	291.65	1	675.00	2	831.60	2	9.90	2	1360.8	2	0.2606	2	0.195	2	---
34005	C24H50O	tetracosanol	506-51-4	349.15	1	675.00	1	841.60	2	9.40	2	1435.7	2	0.2470	2	0.193	2	---
34008	C24H50S	dodecyl sulfide	2469-45-6	312.65	1	680.00	2	876.33	2	8.90	2	1414.0	2	0.2622	2	0.173	2	---
34012	C24H51N	tetracosylamine	14130-08-6	340.15	1	702.15	1	859.72	2	8.33	2	1408.5	2	0.2511	2	0.164	2	0.753
34013	C24H51N	methyltricosylamine	66374-99-0	326.15	1	675.15	1	826.65	2	8.12	2	1414.5	2	0.2500	2	0.167	2	0.732
34014	C24H51N	ethyldocosylamine	66374-98-9	325.15	2	678.15	1	830.33	2	8.12	2	1414.5	2	0.2500	2	0.166	2	0.732
34015	C24H51N	didodecylamine	3007-31-6	324.15	1	676.15	1	827.88	2	8.12	2	1414.5	2	0.2500	2	0.167	2	0.732
34016	C24H51N	dimethyldocosylamine	21542-96-1	317.15	1	673.15	1	824.83	2	8.24	2	1417.5	2	0.2495	2	0.170	2	0.737
34017	C24H51N	diethyleicosylamine	66374-97-8	277.85	2	646.15	1	791.74	2	8.24	2	1417.5	2	0.2495	2	0.177	2	0.737
34018	C24H51N	trioctylamine	1116-76-3	238.55	1	639.15	1	782.00	2	10.10	2	1370.0	2	0.2582	2	0.213	2	0.969
34019	C24H51N	triisooctylamine	2757-28-0	277.85	2	668.72	2	819.04	2	8.20	2	1414.9	2	0.2500	2	0.170	2	0.737
34061	C25H20	tetraphenylmethane	630-76-2	561.15	1	743.00	1	983.00	2	17.90	2	966.0	2	0.3317	2	0.212	2	0.679
34140	C25H34	1,1-diphenyl-1-tridecene	62155-37-7	225.31	2	687.15	1	863.24	2	11.90	2	1200.5	2	0.2787	2	0.199	2	0.795
34150	C25H36	1,1-diphenyltridecane	62155-14-0	300.15	1	668.15	1	838.00	2	12.80	2	1344.0	2	0.2504	2	0.247	2	0.863
34171	C25H44	nonadecylbenzene	29136-19-4	313.15	1	683.15	1	841.84	2	9.26	2	1327.5	2	0.2596	2	0.176	2	0.778
34172	C25H44	(3-octylundecyl)benzene	5637-96-7	246.45	1	683.15	2	841.84	2	9.26	2	1327.5	2	0.2596	2	0.176	2	0.778
34173	C25H44	9-(4-tolyl)octadecane	4445-08-3	233.15	1	683.15	2	841.84	2	9.26	2	1327.5	2	0.2596	2	0.176	2	0.778

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
34178	C25H48	1,1-dicyclohexyltridecane	62155-22-0	385.77	2	670.15	1	833.34	2	9.72	2	1301.5	2	0.2679	2	0.183	2	0.734
34179	C25H48	1-pentacosyne	61847-85-6	328.15	1	672.15	1	825.22	2	8.31	2	1397.5	2	0.2495	2	0.169	2	0.725
34182	C25H50	eicosylcyclopentane	22331-38-0	311.15	1	683.15	1	839.72	2	8.46	2	1376.5	2	0.2548	2	0.167	2	0.729
34183	C25H50	nonadecylcyclohexane	22349-03-7	318.35	1	685.15	1	843.31	2	8.58	2	1368.5	2	0.2562	2	0.168	2	0.729
34184	C26H52	heneicosylcyclopentane	6703-82-8	315.15	1	693.15	1	850.13	2	8.01	2	1432.5	2	0.2546	2	0.162	2	0.705
34185	C25H50	1-pentacosene	16980-85-1	321.85	1	674.15	1	826.16	2	7.82	2	1416.5	2	0.2476	2	0.161	2	---
34186	C25H50	9-octyl-8-heptadecene	24306-18-1	233.15	1	674.15	2	826.16	2	7.82	2	1416.5	2	0.2476	2	0.161	2	---
34187	C25H50Br2	1,1-dibromopentacosane	62168-04-1	475.61	2	736.15	1	901.35	2	8.30	2	1553.5	2	0.3286	2	0.172	2	0.750
34188	C25H50Cl2	1,1-dichloropentacosane	62017-27-0	415.85	2	719.15	1	880.46	2	7.37	2	1527.5	2	0.2760	2	0.154	2	---
34189	C25H50F2	1,1-difluoropentacosane	62127-14-4	420.31	2	654.15	1	800.89	2	7.30	2	1465.5	2	0.2652	2	0.161	2	---
34190	C25H50I2	1,1-diiodopentacosane	66359-84-0	472.13	2	957.24	2	1171.95	2	7.49	2	1605.5	2	0.3765	2	0.123	2	---
34192	C25H50O2	methyl tetracosanoate	2442-49-1	334.15	1	817.00	2	830.00	2	9.60	2	1355.1	2	0.2824	2	0.189	2	---
34193	C25H51Br	1-bromopentacosane	62108-45-6	331.45	1	710.15	1	869.43	2	7.94	2	1497.5	2	0.2882	2	0.164	2	0.714
34194	C25H51Cl	1-chloropentacosane	62016-78-8	330.15	1	698.15	1	854.75	2	7.49	2	1484.5	2	0.2608	2	0.156	2	---
34195	C25H51F	1-fluoropentacosane	62126-82-3	333.15	1	668.15	1	818.02	2	7.45	2	1453.5	2	0.2550	2	0.159	2	---
34196	C25H51I	1-iodopentacosane	62127-56-4	333.75	1	731.15	1	899.00	2	8.19	2	1454.5	2	0.3290	2	0.159	2	0.700
34197	C25H52	pentacosane	629-99-2	326.65	1	675.05	1	812.00	2	9.50	2	1506.5	2	0.2341	2	0.212	2	1.105
34198	C25H52	9-octylheptadecane	7225-64-1	259.35	1	675.05	2	826.84	2	7.64	2	1506.5	2	0.2341	2	0.167	2	---
34199	C25H53N	pentacosylamine	14130-09-7	341.15	1	712.15	1	871.97	2	7.89	2	1464.5	2	0.2511	2	0.159	2	0.708
34200	C25H53N	methyltetracosylamine	66359-78-2	327.15	1	684.15	1	837.69	2	7.69	2	1470.5	2	0.2501	2	0.162	2	0.708
34201	C25H53N	ethyltricosylamine	66359-77-1	327.15	2	688.15	1	842.59	2	7.69	2	1470.5	2	0.2501	2	0.162	2	0.708
34202	C25H53N	dimethyltricosylamine	66359-76-0	320.00	2	683.15	1	836.42	2	7.80	2	1473.5	2	0.2495	2	0.165	2	0.708
34203	C25H53N	diethylheneicosylamine	66359-75-9	320.00	2	656.15	1	803.37	2	7.80	2	1473.5	2	0.2495	2	0.172	2	0.708
34221	C26H20	tetraphenylethylene	632-51-9	496.15	1	760.00	1	996.00	2	17.10	2	1020.0	2	0.3259	2	0.211	2	0.729
34234	C26H22	1,1,2,2-tetraphenylethane	632-50-8	485.15	1	633.15	1	827.00	2	16.70	2	1022.0	2	0.3273	2	0.248	2	0.732
34296	C26H36	1,1-diphenyl-1-tetradecene	62155-38-8	220.21	2	696.15	1	868.99	2	11.15	2	1256.5	2	0.2774	2	0.194	2	0.804
34302	C26H38	1,1-diphenyltetradecane	55268-63-8	291.15	1	676.15	1	842.20	2	12.20	2	1414.0	2	0.2479	2	0.246	2	0.892
34316	C26H42O4	diisononyl phthalate	28553-12-0	320.00	1	682.00	1	835.00	2	10.80	2	1370.0	2	0.3056	2	0.213	2	1.031
34317	C26H42O4	dinonyl phthalate	84-76-4	240.00	1	707.00	1	866.00	2	10.70	2	1370.0	2	0.3056	2	0.204	2	0.996
34319.1	C26H42O4	heptyl undecyl phthalate	65185-88-8	240.00	2	717.00	2	878.00	2	10.70	2	1370.0	2	0.3056	2	0.201	2	1.021
34326	C26H46	eicosylbenzene	2398-68-7	317.15	1	693.15	1	851.65	2	8.74	2	1383.5	2	0.2592	2	0.171	2	0.759
34327	C26H46	(1-butylhexadecyl)benzene	2400-04-6	303.35	1	693.15	2	851.65	2	8.74	2	1383.5	2	0.2592	2	0.171	2	0.759
34328	C26H46	(1-ethyloctadecyl)benzene	2400-02-4	302.45	1	693.15	2	851.65	2	8.74	2	1383.5	2	0.2592	2	0.171	2	0.759
34329	C26H46	(1-methylnonadecyl)benzene	2398-66-5	302.15	1	693.15	2	851.65	2	8.74	2	1383.5	2	0.2592	2	0.171	2	0.759
34330	C26H46	(1-octyldodecyl)benzene	2398-65-4	291.05	1	693.15	2	851.65	2	8.74	2	1383.5	2	0.2592	2	0.171	2	0.759
34331	C26H46	(1-propylheptadecyl)benzene	2400-03-5	304.55	1	693.15	2	851.65	2	8.74	2	1383.5	2	0.2592	2	0.171	2	0.759
34338	C26H50	1,1-dicyclohexyltetradecane	55334-08-2	310.75	1	679.15	1	840.47	2	9.16	2	1357.5	2	0.2672	2	0.178	2	0.731
34339	C26H50	1-hexacosyne	61847-86-7	330.15	1	682.15	1	836.00	2	7.86	2	1453.5	2	0.2495	2	0.164	2	---
34348	C26H52	eicosylcyclohexane	4443-55-4	321.65	1	695.15	1	853.38	2	8.12	2	1424.5	2	0.2560	2	0.163	2	0.708
34349	C26H52	1-hexacosene	18835-33-1	324.95	1	684.15	1	837.68	2	7.42	2	1472.5	2	0.2477	2	0.157	2	---
34350	C26H52	3-cyclohexyleicosane	4443-57-6	295.88	1	689.65	2	853.38	2	8.12	2	1424.5	2	0.2560	2	0.163	2	0.708
34351	C26H52	9-cyclohexyleicosane	4443-61-2	314.00	1	689.65	2	853.38	2	8.12	2	1424.5	2	0.2560	2	0.163	2	0.708
34352	C26H52Br2	1,1-dibromohexacosane	62168-05-2	486.88	2	744.15	1	911.94	2	7.86	2	1609.5	2	0.3259	2	0.167	2	---
34353	C26H52Cl2	1,1-dichlorohexacosane	62017-28-1	427.12	2	728.15	1	892.02	2	7.00	2	1583.5	2	0.2751	2	0.149	2	---
34354	C26H52F2	1,1-difluorohexacosane	62127-15-5	431.58	2	663.15	1	812.45	2	6.94	2	1521.5	2	0.2647	2	0.156	2	---
34355	C26H52I2	1,1-diiodohexacosane	66291-94-9	483.40	2	980.12	2	1200.28	2	7.11	2	1661.5	2	0.3723	2	0.118	2	---
34356	C26H52O2	hexacosanoic acid	506-46-7	361.65	1	832.74	2	894.00	2	8.70	2	1479.5	2	0.2681	2	0.173	2	---
34357	C26H52O2	hexadecyl neodecanoate	67749-11-5	323.15	2	827.00	2	845.00	2	9.10	2	1447.8	2	0.2740	2	0.188	2	---
34358	C26H52O2	octyl stearate	22047-49-0	323.15	2	827.00	2	845.00	2	9.10	2	1440.2	2	0.2755	2	0.187	2	---
34360	C26H53Br	1-bromohexacosane	4276-51-1	329.55	1	720.15	1	881.99	2	7.53	2	1553.5	2	0.2868	2	0.159	2	---
34361	C26H53Cl	1-chlorohexacosane	56134-53-3	331.15	1	707.15	1	865.98	2	7.11	2	1540.5	2	0.2604	2	0.152	2	---
34362	C26H53F	1-fluorohexacosane	62126-83-4	332.15	1	677.15	1	829.26	2	7.08	2	1509.5	2	0.2549	2	0.155	2	---
34363	C26H53I	1-iodohexacosane	52644-81-2	333.05	1	740.15	1	912.99	2	7.76	2	1510.5	2	0.3261	2	0.154	2	---
34364	C26H54	hexacosane	630-01-3	329.55	1	685.35	1	819.00	2	9.10	2	1566.2	2	0.2341	2	0.209	2	1.154
34365	C26H54	5-butyldocosane	55282-16-1	481.15	1	685.35	2	839.06	2	7.25	2	1566.2	2	0.2341	2	0.163	2	---
34366	C26H54	7-butyldocosane	55282-15-0	274.75	1	685.35	2	839.06	2	7.25	2	1566.2	2	0.2341	2	0.163	2	---
34367	C26H54	9-butyldocosane	55282-14-9	273.85	1	685.35	2	839.06	2	7.25	2	1566.2	2	0.2341	2	0.163	2	---
34368	C26H54	11-butyldocosane	13475-76-8	299.23	2	685.35	2	839.06	2	7.25	2	1566.2	2	0.2341	2	0.163	2	---
34369	C26H54	11-(2,2-dimethylpropyl)heneicosane	55282-10-5	252.15	1	685.35	2	839.06	2	7.25	2	1566.2	2	0.2341	2	0.163	2	---
34370	C26H54	6,11-dipentylhexadecane	15874-03-0	256.95	1	685.35	2	839.06	2	7.25	2	1566.2	2	0.2341	2	0.163	2	---
34371	C26H54	3-ethyl-5-(2-ethylbutyl)octadecane	55282-12-7	222.15	1	685.35	2	839.06	2	7.25	2	1566.2	2	0.2341	2	0.163	2	---
34372	C26H54	3-ethyltetracosane	55282-17-2	303.25	1	685.35	2	839.06	2	7.25	2	1566.2	2	0.2341	2	0.163	2	---
34373	C26H54O	1-hexacosanol	506-52-5	353.15	1	697.00	2	851.60	2	8.90	2	1518.6	2	0.2520	2	0.191	2	---
34377	C26H55N	hexacosylamine	14130-10-0	344.15	1	722.15	1	884.99	2	7.48	2	1520.5	2	0.2511	2	0.155	2	---
34378	C26H55N	methylpentacosylamine	66291-92-7	329.15	1	694.15	1	850.70	2	7.30	2	1526.5	2	0.2501	2	0.158	2	---
34379	C26H55N	ethyltetracosylamine	66291-91-6	329.15	2	698.15	1	855.60	2	7.30	2	1526.5	2	0.2501	2	0.157	2	---
34380	C26H55N	ditridecylamine	5910-75-8	329.65	1	695.15	1	851.92	2	7.30	2	1526.5	2	0.2501	2	0.157	2	---
34381	C26H55N	dimethyltetracosylamine	66291-90-5	322.15	1	693.15	1	848.75	2	7.40	2	1529.5	2	0.2496	2	0.160	2	---
34382	C26H55N	diethyldocosylamine	66291-89-2	325.90	2	665.15	1	814.46	2	7.40	2	1529.5	2	0.2496	2	0.167	2	---
34464	C27H38	1,1-diphenyl-1-pentadecene	62155-39-9	215.11	2	705.15	1	875.43	2	10.47	2	1312.5	2	0.2763	2	0.189	2	0.805
34475	C27H40	1,1-diphenylpentadecane	62155-15-1	306.15	1	684.15	1	846.70	2	11.70	2	1487.0	2	0.2452	2	0.247	2	0.922
34528	C27H46O	cholesterol	57-88-5	421.65	1	771.00	dec	959.00	2	12.50	2	1350.0	2	0.2864	2	0.212	2	0.948
34536	C27H48	heneicosylbenzene	40775-09-5	321.15	1	702.15	1	860.93	2	8.26	2	1439.5	2	0.2589	2	0.166	2	0.733
34537	C27H48	11-phenylheneicosane	6703-80-6	294.30	1	702.15	2	860.93	2	8.26	2	1439.5	2	0.2589	2	0.166	2	0.733
34547	C27H52	1,1-dicyclohexylpentadecane	62155-23-1	408.31	2	688.15	1	848.27	2	8.65	2	1413.5	2	0.2665	2	0.173	2	0.721
34548	C27H52	1-heptacosyne	61847-87-8	333.15	1	692.15	1	847.49	2	7.46	2	1509.5	2	0.2496	2	0.160	2	---
34549	C27H54	docosylcyclopentane	62016-55-1	318.15	1	703.15	1	861.25	2	7.59	2	1488.5	2	0.2544	2	0.158	2	---
34550	C27H54	heneicosylcyclohexane	26718-82-1	324.65	1	705.15	1	864.14	2	7.69	2	1480.5	2	0.2558	2	0.159	2	---
34551	C27H54	(1-decylundecyl)cyclohexane	6703-99-7	272.60	1	700.82	2	864.14	2	7.69	2	1480.5	2	0.2558	2	0.159	2	---
34552	C27H54	1-heptacosene	15306-27-1	327.85	1	694.15	1	849.93	2	7.04	2	1528.5	2	0.2478	2	0.152	2	---

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
34553	C27H54Br2	1,1-dibromoheptacosane	62168-06-3	498.15	2	753.15	1	924.58	2	7.45	2	1665.5	2	0.3233	2	0.161	2	---
34554	C27H54Cl2	1,1-dichloroheptacosane	62017-29-2	438.39	2	737.15	1	904.39	2	6.66	2	1639.5	2	0.2742	2	0.145	2	---
34555	C27H54F2	1,1-difluoroheptacosane	62127-16-6	442.85	2	672.15	1	824.74	2	6.60	2	1577.5	2	0.2642	2	0.152	2	---
34556	C27H54I2	1,1-diiodoheptacosane	66291-84-7	494.67	2	1003.00	2	1229.70	2	6.76	2	1717.5	2	0.3683	2	0.114	2	---
34557	C27H54O	14-heptacosanone	542-50-7	350.65	1	733.00	2	822.72	2	8.00	2	1273.9	2	0.3098	2	0.149	2	---
34558	C27H54O2	methyl hexacosanoate	5802-82-4	336.95	1	837.00	2	860.00	2	8.70	2	1525.0	2	0.2693	2	0.186	2	---
34559	C27H55Br	1-bromoheptacosane	62108-46-7	336.55	1	729.15	1	894.13	2	7.15	2	1609.5	2	0.2856	2	0.155	2	---
34560	C27H55Cl	1-chloroheptacosane	62016-79-9	335.15	1	716.15	1	877.97	2	6.76	2	1596.5	2	0.2601	2	0.148	2	---
34561	C27H55F	1-fluoroheptacosane	62108-81-0	338.15	1	686.15	1	841.24	2	6.73	2	1565.5	2	0.2547	2	0.151	2	---
34562	C27H55I	1-iodoheptacosane	62127-57-5	338.45	1	743.15	1	920.45	2	7.36	2	1566.5	2	0.3234	2	0.151	2	---
34563	C27H56	heptacosane	593-49-7	332.15	1	695.25	1	826.00	2	8.83	2	1625.9	2	0.2342	2	0.209	2	1.214
34566	C27H57N	heptacosylamine	14130-11-1	345.15	1	732.15	1	898.82	2	7.10	2	1576.5	2	0.2510	2	0.150	2	---
34567	C27H57N	methylhexacosylamine	66291-81-4	331.15	1	703.15	1	863.26	2	6.94	2	1582.5	2	0.2501	2	0.153	2	---
34568	C27H57N	ethylpentacosylamine	66291-80-3	331.15	2	707.15	1	868.17	2	6.94	2	1582.5	2	0.2501	2	0.152	2	---
34569	C27H57N	dimethylpentacosylamine	66291-79-0	325.00	2	702.15	1	860.60	2	7.03	2	1585.5	2	0.2496	2	0.156	2	---
34570	C27H57N	diethyltricosylamine	66291-86-9	325.00	2	674.15	1	826.28	2	7.03	2	1585.5	2	0.2496	2	0.162	2	---
34571	C27H57N	trinonylamine	2044-22-6	325.00	2	655.15	1	802.99	2	7.03	2	1585.5	2	0.2496	2	0.167	2	---
34663	C28H40	1,1-diphenyl-1-hexadecene	13456-25-2	210.01	2	713.15	1	881.36	2	9.85	2	1368.5	2	0.2752	2	0.184	2	0.800
34677	C28H42	1,1-diphenylhexadecane	13456-23-0	299.15	1	691.15	1	850.10	2	11.30	2	1556.0	2	0.2433	2	0.249	2	0.958
34691	C28H46O4	diisodecyl phthalate	26761-40-0	227.59	1	740.00	1	908.00	2	10.00	2	1730.0	2	0.2582	2	0.229	2	1.140
34692	C28H46O4	didecyl phthalate	84-77-5	220.15	1	736.00	2	905.00	2	9.95	2	1480.0	2	0.3018	2	0.196	2	0.891
34704	C28H50	docosylbenzene	5634-22-0	324.15	1	711.15	1	870.93	2	7.82	2	1495.5	2	0.2586	2	0.162	2	---
34712	C28H54	1,1-dicyclohexylhexadecane	13287-09-7	419.58	2	697.15	1	856.76	2	8.18	2	1469.5	2	0.2659	2	0.169	2	0.704
34713	C28H54	1-octacosyne	61847-88-9	335.15	1	701.15	1	858.49	2	7.08	2	1565.5	2	0.2496	2	0.155	2	---
34716	C28H56	tricosylcyclopentane	62016-56-2	322.15	1	712.15	1	871.87	2	7.20	2	1544.5	2	0.2543	2	0.153	2	---
34717	C28H56	docosylcyclohexane	61828-07-7	327.55	1	714.15	1	874.41	2	7.30	2	1536.5	2	0.2556	2	0.154	2	---
34718	C28H56	1-octacosene	18835-34-2	330.65	1	703.15	1	861.70	2	6.70	2	1584.5	2	0.2479	2	0.148	2	---
34719	C28H56Br2	1,1-dibromooctacosane	62168-07-4	509.42	2	761.15	1	936.86	2	7.07	2	1721.5	2	0.3210	2	0.156	2	---
34720	C28H56Cl2	1,1-dichlorooctacosane	62017-30-5	449.66	2	746.15	1	917.60	2	6.34	2	1695.5	2	0.2735	2	0.141	2	---
34721	C28H56F2	1,1-difluorooctacosane	62127-17-7	454.12	2	680.15	1	836.58	2	6.29	2	1633.5	2	0.2637	2	0.148	2	---
34722	C28H56I2	1,1-diiodooctacosane	66291-74-5	505.94	2	1025.88	2	1260.30	2	6.44	2	1773.5	2	0.3646	2	0.109	2	---
34723	C28H56O2	octacosanoic acid	506-48-9	364.05	1	858.74	2	918.00	2	8.30	2	1574.3	2	0.2698	2	0.171	2	---
34728	C28H57Br	1-bromooctacosane	16331-21-8	334.55	1	737.15	1	905.86	2	6.79	2	1665.5	2	0.2844	2	0.150	2	---
34729	C28H57Cl	1-chlorooctacosane	62016-80-2	336.15	1	725.15	1	890.78	2	6.43	2	1652.5	2	0.2597	2	0.144	2	---
34730	C28H57F	1-fluorooctacosane	62108-82-1	337.15	1	695.15	1	854.00	2	6.41	2	1621.5	2	0.2546	2	0.146	2	---
34731	C28H57I	1-iodooctacosane	62154-80-7	337.75	1	758.15	1	943.74	2	6.99	2	1622.5	2	0.3209	2	0.145	2	---
34732	C28H58	octacosane	630-02-4	334.35	1	704.75	1	832.00	2	8.50	2	1685.6	2	0.2342	2	0.207	2	1.238
34733	C28H58	2,2,4,10,12,12-hexamethyl-7-(3,5,5-trimethylhexyl)tridecane	3035-75-4	301.25	2	704.75	2	864.27	2	6.55	2	1685.6	2	0.2342	2	0.154	2	---
34734	C28H58	7-hexyldocosane	55373-86-9	292.45	1	704.75	2	864.27	2	6.55	2	1685.6	2	0.2342	2	0.154	2	---
34735	C28H58	9-octyleicosane	13475-77-9	273.65	1	704.75	2	864.27	2	6.55	2	1685.6	2	0.2342	2	0.154	2	---
34737	C28H58O	1-octacosanol	557-61-9	356.55	1	719.00	2	861.60	2	8.40	2	1611.1	2	0.2550	2	0.189	2	---
34738	C28H59N	octacosylamine	14130-12-2	348.15	1	741.15	1	912.27	2	6.75	2	1632.5	2	0.2510	2	0.145	2	---
34739	C28H59N	methylheptacosylamine	66291-78-9	332.15	1	711.15	1	875.40	2	6.60	2	1638.5	2	0.2501	2	0.149	2	---
34740	C28H59N	ethylhexacosylamine	66291-77-8	332.96	2	716.15	1	881.56	2	6.60	2	1638.5	2	0.2501	2	0.148	2	---
34741	C28H59N	ditetradecylamine	17361-44-3	333.77	1	713.15	1	877.86	2	6.60	2	1638.5	2	0.2501	2	0.148	2	---
34742	C28H59N	dimethylhexacosylamine	66291-76-7	328.15	1	711.15	1	873.23	2	6.68	2	1641.5	2	0.2496	2	0.151	2	---
34743	C28H59N	diethyltetracosylamine	66291-75-6	328.15	2	683.15	1	838.85	2	6.68	2	1641.5	2	0.2496	2	0.157	2	---
34808	C29H50O	stigmast-5-en-3-ol, (3beta)	83-46-5	413.15	1	778.00	2	953.00	2	11.20	2	1460.0	2	0.2841	2	0.206	2	1.054
34812	C29H52	tricosylbenzene	61828-04-4	327.15	1	719.15	1	880.45	2	7.42	2	1551.5	2	0.2583	2	0.157	2	---
34814	C29H56	1-nonacosyne	61847-89-0	338.15	1	710.15	1	870.24	2	6.73	2	1621.5	2	0.2496	2	0.151	2	---
34815	C29H58	tetracosylcyclopentane	62016-57-3	324.15	1	720.15	1	882.04	2	6.85	2	1600.5	2	0.2542	2	0.149	2	---
34816	C29H58	tricosylcyclohexane	61828-08-8	330.15	1	722.15	1	884.21	2	6.94	2	1592.5	2	0.2554	2	0.150	2	---
34817	C29H58	1-nonacosene	18835-35-3	323.15	1	713.15	1	875.48	2	6.38	2	1640.5	2	0.2480	2	0.144	2	---
34818	C29H58Br2	1,1-dibromononacosane	62168-08-5	520.69	2	769.15	1	950.04	2	6.73	2	1777.5	2	0.3188	2	0.151	2	---
34819	C29H58Cl2	1,1-dichlorononacosane	62017-31-6	460.93	2	754.15	1	930.45	2	6.04	2	1751.5	2	0.2727	2	0.137	2	---
34820	C29H58F2	1,1-difluorononacosane	62127-18-8	465.39	2	688.15	1	849.23	2	6.00	2	1689.5	2	0.2633	2	0.143	2	---
34821	C29H58I2	1,1-diiodononacosane	66213-91-0	517.21	2	1048.76	2	1292.15	2	6.13	2	1829.5	2	0.3611	2	0.104	2	---
34823	C29H59Br	1-bromononacosane	62108-47-8	340.95	1	746.15	1	919.68	2	6.46	2	1721.5	2	0.2833	2	0.146	2	---
34824	C29H59Cl	1-chlorononacosane	62016-81-3	340.15	1	733.15	1	903.20	2	6.13	2	1708.5	2	0.2594	2	0.139	2	---
34825	C29H59F	1-fluorononacosane	62108-83-2	343.15	1	703.15	1	866.34	2	6.11	2	1677.5	2	0.2544	2	0.142	2	---
34826	C29H59I	1-iodononacosane	62154-81-8	342.65	1	766.15	1	959.36	2	6.65	2	1678.5	2	0.3186	2	0.140	2	---
34827	C29H60	nonacosane	630-03-5	336.85	1	713.95	1	838.00	2	8.26	2	1745.3	2	0.2342	2	0.207	2	1.265
34828	C29H60O	1-nonacosanol	6624-76-6	357.65	1	730.00	2	871.60	2	7.90	2	1714.8	2	0.2477	2	0.187	2	---
34829	C29H61N	nonacosylamine	66213-93-2	349.15	1	750.15	1	926.61	2	6.43	2	1688.5	2	0.2510	2	0.141	2	---
34830	C29H61N	methyloctacosylamine	66213-97-6	334.15	1	720.15	1	889.63	2	6.28	2	1694.5	2	0.2501	2	0.144	2	---
34831	C29H61N	ethylheptacosylamine	66213-96-5	334.15	2	725.15	1	895.80	2	6.28	2	1694.5	2	0.2501	2	0.143	2	---
34832	C29H61N	dimethylheptacosylamine	66213-95-4	330.00	2	719.15	1	885.47	2	6.36	2	1697.5	2	0.2497	2	0.147	2	---
34833	C29H61N	diethylpentacosylamine	66213-94-3	330.00	2	691.15	1	850.99	2	6.36	2	1697.5	2	0.2497	2	0.153	2	---
34922.1	C30H48O6	tri-n-heptyl trimellitate	1528-48-9	339.00	2	815.00	2	1020.00	2	9.24	2	1610.0	2	0.3135	2	0.175	2	0.602
34932	C30H50O4	diundecyl phthalate	3648-20-2	275.15	1	783.00	1	970.00	2	9.28	2	1580.0	2	0.3005	2	0.182	2	0.747
34936	C30H54	tetracosylbenzene	61828-05-5	330.15	1	727.15	1	890.74	2	7.05	2	1607.5	2	0.2580	2	0.153	2	---
34940	C30H58	1-triacontyne	61847-90-3	340.15	1	719.15	1	882.79	2	6.41	2	1677.5	2	0.2497	2	0.146	2	---
34946	C30H60	pentacosylcyclopentane	62016-74-4	327.15	1	729.15	1	894.22	2	6.51	2	1656.5	2	0.2540	2	0.145	2	---
34947	C30H60	tetracosylcyclohexane	61828-09-9	332.65	1	731.15	1	896.02	2	6.60	2	1648.5	2	0.2553	2	0.146	2	---
34948	C30H60	1-triacontene	18435-53-5	335.55	1	721.15	1	857.00	2	8.47	2	1710.0	2	0.2461	2	0.203	2	1.180
34949	C30H60Br2	1,1-dibromotriacontane	62168-09-6	531.96	2	777.15	1	964.17	2	6.40	2	1833.5	2	0.3167	2	0.146	2	---
34950	C30H60Cl2	1,1-dichlorotriacontane	62017-32-7	472.20	2	762.15	1	944.23	2	5.77	2	1807.5	2	0.2720	2	0.133	2	---
34951	C30H60F2	1,1-difluorotriacontane	62127-19-9	476.66	2	696.15	1	862.72	2	5.72	2	1745.5	2	0.2628	2	0.139	2	---
34952	C30H60I2	1,1-diiodotriacontane	66213-98-7	528.48	2	1071.64	2	1325.37	2	5.85	2	1885.5	2	0.3578	2	0.100	2	---
34954	C30H60O2	triacontanoic acid	506-50-3	366.75	1	884.74	2	942.00	2	7.90	2	1677.7	2	0.2699	2	0.169	2	---

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
34957	C30H61Br	1-bromotriacontane	4209-22-7	338.95	1	754.15	1	933.17	2	6.16	2	1777.5	2	0.2823	2	0.141	2	---
34958	C30H61Cl	1-chlorotriacontane	62016-82-4	340.15	1	741.15	1	916.50	2	5.85	2	1764.5	2	0.2591	2	0.135	2	---
34959	C30H61F	1-fluorotriacontane	62108-84-3	342.15	1	711.15	1	879.52	2	5.83	2	1733.5	2	0.2543	2	0.138	2	---
34960	C30H61I	1-iodotriacontane	62154-82-9	281.85	1	774.15	1	976.04	2	6.33	2	1734.5	2	0.3164	2	0.135	2	---
34961	C30H62	triacontane	638-68-6	338.65	1	722.85	1	844.00	2	8.00	2	1805.0	2	0.2343	2	0.206	2	1.307
34962	C30H62	2,6,10,15,19,23-hexamethyltetracosane	111-01-3	235.15	1	720.00	2	863.00	2	8.68	2	1805.0	2	0.2343	2	0.218	2	0.915
34963	C30H62	9-octyldocosane	55319-83-0	281.75	1	673.00	2	891.09	2	5.95	2	1805.0	2	0.2343	2	0.145	2	---
34964	C30H62O	1-triacontanol	593-50-0	361.15	1	741.00	2	881.60	2	7.40	2	1832.2	2	0.2395	2	0.185	2	---
34965	C30H63N	triacontylamine	66214-00-4	351.15	1	759.15	1	941.88	2	6.12	2	1744.5	2	0.2510	2	0.136	2	---
34966	C30H63N	methylnonacosylamine	66214-04-8	335.15	1	728.15	1	903.52	2	5.99	2	1750.5	2	0.2501	2	0.140	2	---
34967	C30H63N	ethyloctacosylamine	66214-03-7	335.80	2	733.15	1	909.72	2	5.99	2	1750.5	2	0.2501	2	0.139	2	---
34968	C30H63N	dipentadecylamine	35551-81-6	336.45	1	730.15	1	906.00	2	5.99	2	1750.5	2	0.2501	2	0.139	2	---
34969	C30H63N	dimethyloctacosylamine	66214-02-6	333.15	1	727.15	1	898.56	2	6.07	2	1753.5	2	0.2497	2	0.142	2	---
34970	C30H63N	diethylhexacosylamine	66214-01-5	302.65	2	700.15	1	865.20	2	6.07	2	1753.5	2	0.2497	2	0.148	2	---
34971	C30H63N	tri-N-decylamine	1070-01-5	272.15	1	679.15	1	839.25	2	6.07	2	1753.5	2	0.2497	2	0.152	2	---
35019	C31H56	pentacosylbenzene	61828-06-6	332.15	1	735.15	1	901.84	2	6.70	2	1663.5	2	0.2578	2	0.149	2	---
35020	C31H56	13-phenylpentacosane	6006-90-2	304.85	1	735.15	2	901.84	2	6.70	2	1663.5	2	0.2578	2	0.149	2	---
35023	C31H60	1-hentriacontyne	61847-91-4	342.15	1	728.15	1	896.17	2	6.11	2	1733.5	2	0.2497	2	0.142	2	---
35025	C31H62	hexacosylcyclopentane	62016-58-4	329.15	1	737.15	1	905.99	2	6.21	2	1712.5	2	0.2539	2	0.141	2	---
35026	C31H62	pentacosylcyclohexane	61828-10-2	335.05	1	739.15	1	907.42	2	6.28	2	1704.5	2	0.2551	2	0.142	2	---
35027	C31H62	1-hentriacontene	18435-54-6	327.75	1	730.15	1	901.89	2	5.80	2	1752.5	2	0.2481	2	0.136	2	---
35028	C31H62	13-cyclohexylpentacosane	6697-15-0	270.20	1	735.48	2	905.99	2	6.21	2	1712.5	2	0.2539	2	0.141	2	---
35029	C31H62Br2	1,1-dibromohentriacontane	62168-10-9	543.23	2	785.15	1	979.29	2	6.10	2	1889.5	2	0.3147	2	0.142	2	---
35030	C31H62Cl2	1,1-dichlorohentriacontane	62017-33-8	483.47	2	770.15	1	958.98	2	5.51	2	1863.5	2	0.2714	2	0.129	2	---
35031	C31H62F2	1,1-difluorohentriacontane	62127-20-2	487.93	2	704.15	1	877.11	2	5.47	2	1801.5	2	0.2625	2	0.135	2	---
35032	C31H62I2	1,1-diiodohentriacontane	66214-07-1	539.75	2	1094.52	2	1360.04	2	5.59	2	1941.5	2	0.3547	2	0.096	2	---
35033	C31H62O	16-hentriacontanone	502-73-8	356.95	1	813.00	2	860.00	2	6.00	2	1540.3	2	0.2927	2	0.129	2	---
35034	C31H63Br	1-bromohentriacontane	62108-48-9	344.85	1	761.15	1	946.37	2	5.88	2	1833.5	2	0.2813	2	0.137	2	---
35035	C31H63Cl	1-chlorohentriacontane	62016-83-5	344.15	1	749.15	1	930.73	2	5.59	2	1820.5	2	0.2589	2	0.131	2	---
35036	C31H63F	1-fluorohentriacontane	62108-85-4	347.15	1	719.15	1	893.61	2	5.57	2	1789.5	2	0.2542	2	0.134	2	---
35037	C31H63I	1-iodohentriacontane	57094-91-4	346.45	1	782.15	1	993.86	2	6.04	2	1790.5	2	0.3143	2	0.131	2	---
35039	C31H64	hentriacontane	630-04-6	341.05	1	731.15	1	904.88	2	5.69	2	1864.7	2	0.2343	2	0.141	2	---
35040	C31H64	11-decylheneicosane	55320-06-4	282.34	1	731.15	2	904.88	2	5.69	2	1864.7	2	0.2343	2	0.141	2	---
35041	C31H65N	hentriacontylamine	66214-08-2	352.15	1	768.15	1	958.15	2	5.84	2	1800.5	2	0.2510	2	0.132	2	---
35042	C31H65N	methyltriacontylamine	66214-12-8	336.15	1	736.15	1	918.35	2	5.72	2	1806.5	2	0.2501	2	0.135	2	---
35043	C31H65N	ethylnonacosylamine	66214-11-7	336.15	2	741.15	1	924.58	2	5.72	2	1806.5	2	0.2501	2	0.134	2	---
35044	C31H65N	dimethylnonacosylamine	66214-10-6	335.00	2	735.15	1	912.56	2	5.79	2	1809.5	2	0.2497	2	0.138	2	---
35045	C31H65N	diethylheptacosylamine	66214-09-3	335.00	2	707.15	1	877.80	2	5.79	2	1809.5	2	0.2497	2	0.144	2	---
35105	C32H58	hexacosylbenzene	13024-80-1	335.15	1	743.15	1	913.77	2	6.38	2	1719.5	2	0.2575	2	0.144	2	---
35108	C32H62	1-dotriacontyne	61847-92-5	344.15	1	736.15	1	909.18	2	5.83	2	1789.5	2	0.2497	2	0.138	2	---
35111	C32H64	heptacosylcyclopentane	61827-90-5	332.15	1	745.15	1	918.63	2	5.92	2	1768.5	2	0.2538	2	0.137	2	---
35112	C32H64	hexacosylcyclohexane	61828-11-3	337.15	1	747.15	1	919.67	2	5.99	2	1760.5	2	0.2550	2	0.138	2	---
35113	C32H64	1-dotriacontene	18435-55-7	329.85	1	738.15	1	915.81	2	5.54	2	1808.5	2	0.2482	2	0.132	2	---
35114	C32H64Br2	1,1-dibromodotriacontane	62168-11-0	554.50	2	792.15	1	994.22	2	5.82	2	1945.5	2	0.3129	2	0.137	2	---
35115	C32H64Cl2	1,1-dichlorodotriacontane	62017-34-9	494.74	2	778.15	1	974.75	2	5.27	2	1919.5	2	0.2708	2	0.125	2	---
35116	C32H64F2	1,1-difluorodotriacontane	62127-21-3	499.20	2	711.15	1	891.19	2	5.23	2	1857.5	2	0.2621	2	0.131	2	---
35117	C32H64I2	1,1-diiododotriacontane	66214-13-9	551.02	2	1117.40	2	1396.28	2	5.34	2	1997.5	2	0.3518	2	0.092	2	---
35118	C32H64O2	hexadecyl hexadecanoate	540-10-3	327.15	1	---	---	875.00	2	7.00	2	1918.2	2	0.2507	2	0.185	2	---
35119	C32H64O2	tetradecyl stearate	17661-50-6	327.15	2	---	---	875.00	2	7.00	2	1907.9	2	0.2520	2	0.184	2	---
35122	C32H65Br	1-bromodotriacontane	7596-92-1	342.85	1	769.15	1	961.80	2	5.61	2	1889.5	2	0.2804	2	0.133	2	---
35123	C32H65Cl	1-chlorodotriacontane	62016-84-6	344.15	1	757.15	1	945.94	2	5.34	2	1876.5	2	0.2586	2	0.127	2	---
35124	C32H65F	1-fluorodotriacontane	62108-86-5	346.15	1	727.15	1	908.63	2	5.32	2	1845.5	2	0.2541	2	0.130	2	---
35125	C32H65I	1-iododotriacontane	62154-83-0	345.55	1	789.15	1	1011.61	2	5.76	2	1846.5	2	0.3124	2	0.126	2	---
35126	C32H66	dotriacontane	544-85-4	342.35	1	738.85	1	855.00	2	7.50	2	1924.4	2	0.2343	2	0.203	2	1.377
35127	C32H66	3-methylhentriacontane	4981-99-1	342.85	2	740.15	2	920.46	2	5.43	2	1924.4	2	0.2343	2	0.137	2	---
35129	C32H67N	dotriacontylamine	66214-14-0	354.15	1	776.15	1	974.21	2	5.58	2	1856.5	2	0.2510	2	0.128	2	---
35130	C32H67N	methylhentriacontylamine	66214-18-4	338.15	1	743.15	1	932.92	2	5.47	2	1862.5	2	0.2501	2	0.131	2	---
35131	C32H67N	ethyltriacontylamine	66214-17-3	339.17	2	749.15	1	940.45	2	5.47	2	1862.5	2	0.2501	2	0.130	2	---
35132	C32H67N	dihexadecylamine	16724-63-3	340.18	1	746.15	1	936.69	2	5.47	2	1862.5	2	0.2501	2	0.131	2	---
35133	C32H67N	dimethyltriacontylamine	66214-16-2	338.15	1	743.15	1	927.51	2	5.53	2	1865.5	2	0.2497	2	0.134	2	---
35134	C32H67N	diethyloctacosylamine	66214-15-1	338.15	2	714.15	1	891.32	2	5.53	2	1865.5	2	0.2497	2	0.139	2	---
35178	C33H60	heptacosylbenzene	61828-25-9	337.15	1	750.15	1	925.34	2	6.08	2	1775.5	2	0.2573	2	0.140	2	---
35179	C33H64	1-tritriacontyne	61847-93-6	346.15	1	744.15	1	923.11	2	5.57	2	1845.5	2	0.2497	2	0.134	2	---
35180	C33H66	octacosylcyclopentane	61827-91-6	334.15	1	753.15	1	932.17	2	5.65	2	1824.5	2	0.2537	2	0.133	2	---
35181	C33H66	heptacosylcyclohexane	61828-12-4	339.25	1	754.15	1	931.57	2	5.72	2	1816.5	2	0.2548	2	0.134	2	---
35182	C33H66	1-tritriacontene	61868-11-9	331.85	1	746.15	1	930.68	2	5.30	2	1864.5	2	0.2483	2	0.128	2	---
35183	C33H66Br2	1,1-dibromotritriacontane	62168-12-1	565.77	2	799.15	1	1010.24	2	5.56	2	2001.5	2	0.3111	2	0.133	2	---
35184	C33H66Cl2	1,1-dichlorotritriacontane	62017-35-0	506.01	2	785.15	1	990.34	2	5.05	2	1975.5	2	0.2702	2	0.121	2	---
35185	C33H66F2	1,1-difluorotritriacontane	62127-22-4	510.47	2	718.15	1	906.25	2	5.01	2	1913.5	2	0.2618	2	0.127	2	---
35186	C33H66I2	1,1-diiodotritriacontane	66214-19-5	562.29	2	1140.28	2	1434.22	2	5.11	2	2053.5	2	0.3490	2	0.088	2	---
35187	C33H67Br	1-bromotritriacontane	62108-49-0	348.45	1	776.15	1	977.03	2	5.37	2	1945.5	2	0.2795	2	0.129	2	---
35188	C33H67Cl	1-chlorotritriacontane	62016-85-7	348.15	1	764.15	1	960.92	2	5.11	2	1932.5	2	0.2584	2	0.124	2	---
35189	C33H67F	1-fluorotritriacontane	62108-87-6	350.15	1	734.15	1	923.40	2	5.09	2	1901.5	2	0.2540	2	0.126	2	---
35190	C33H67I	1-iodotritriacontane	62154-84-1	349.85	1	797.15	1	1031.91	2	5.51	2	1902.5	2	0.3105	2	0.122	2	---
35191	C33H68	tritriacontane	630-05-7	344.20	1	748.15	1	935.79	2	5.20	2	1984.1	2	0.2343	2	0.133	2	---
35192	C33H69N	tritriacontylamine	---	355.15	1	784.15	1	991.36	2	5.34	2	1912.5	2	0.2509	2	0.124	2	---
35193	C33H69N	methyldotriacontylamine	66214-25-3	339.15	1	751.15	1	949.80	2	5.23	2	1918.5	2	0.2502	2	0.127	2	---
35194	C33H69N	ethylhentriacontylamine	66214-24-2	339.15	2	756.15	1	956.12	2	5.23	2	1918.5	2	0.2502	2	0.126	2	---
35195	C33H69N	dimethylhentriacontylamine	66214-23-1	340.00	2	750.15	1	942.21	2	5.29	2	1921.5	2	0.2498	2	0.130	2	---
35196	C33H69N	diethylnonacosylamine	66214-22-0	340.00	2	722.15	1	907.05	2	5.29	2	1921.5	2	0.2498	2	0.135	2	---

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
35197	C33H69N	triundecylamine	42910-16-7	340.00	2	701.15	1	880.67	2	5.29	2	1921.5	2	0.2498	2	0.139	2	---
35257	C34H62	octacosylbenzene	61828-26-0	339.15	1	757.15	1	937.81	2	5.80	2	1831.5	2	0.2571	2	0.136	2	---
35260	C34H66	1-tetratriacontyne	26185-83-1	347.15	1	751.15	1	936.74	2	5.32	2	1901.5	2	0.2497	2	0.130	2	---
35263	C34H67I	1-iodotetratriacontane	62154-85-2	348.95	1	804.15	1	1052.30	2	5.42	2	1958.5	2	0.3078	2	0.121	2	---
35265	C34H68	nonacosylcyclopentane	61827-92-7	336.15	1	760.15	1	945.42	2	5.40	2	1880.5	2	0.2536	2	0.129	2	---
35266	C34H68	octacosylcyclohexane	61828-13-5	341.15	1	761.15	1	944.39	2	5.47	2	1872.5	2	0.2547	2	0.130	2	---
35267	C34H68	1-tetratriacontene	61868-12-0	343.65	1	754.15	1	946.56	2	5.07	2	1920.5	2	0.2483	2	0.124	2	---
35268	C34H68Br2	1,1-dibromotetratriacontane	62168-13-2	577.04	2	806.15	1	1027.44	2	5.32	2	2057.5	2	0.3095	2	0.128	2	---
35269	C34H68Cl2	1,1-dichlorotetratriacontane	62017-36-1	517.28	2	792.15	1	1007.06	2	4.83	2	2031.5	2	0.2697	2	0.117	2	---
35270	C34H68F2	1,1-difluorotetratriacontane	62127-23-5	521.74	2	725.15	1	922.37	2	4.80	2	1969.5	2	0.2614	2	0.123	2	---
35271	C34H68I2	1,1-diiodotetratriacontane	66214-26-4	573.56	2	1163.16	2	1474.00	2	4.90	2	2109.5	2	0.3464	2	0.084	2	---
35272	C34H68O2	hexadecyl stearate	1190-63-2	330.15	1	---	---	890.00	2	6.50	2	2078.6	2	0.2448	2	0.183	2	---
35273	C34H68O2	isocetyl stearate	25339-09-7	330.15	2	---	---	890.00	2	6.50	2	2067.4	2	0.2462	2	0.182	2	---
35274	C34H69Br	1-bromotetratriacontane	62108-50-3	346.45	1	783.15	1	993.37	2	5.13	2	2001.5	2	0.2787	2	0.124	2	---
35275	C34H69Cl	1-chlorotetratriacontane	62016-86-8	348.15	1	771.15	1	976.98	2	4.90	2	1988.5	2	0.2582	2	0.120	2	---
35276	C34H69F	1-fluorotetratriacontane	62108-88-7	349.15	1	741.15	1	939.21	2	4.88	2	1957.5	2	0.2539	2	0.122	2	---
35277	C34H70	tetratriacontane	14167-59-0	343.25	1	755.15	1	950.88	2	4.98	2	2043.8	2	0.2343	2	0.129	2	---
35278	C34H70	11-decyltetracosane	55429-84-0	283.95	1	755.15	2	950.88	2	4.98	2	2043.8	2	0.2343	2	0.129	2	---
35280	C34H71N	tetratriacontylamine	66214-29-7	357.15	1	791.15	1	1008.41	2	5.11	2	1968.5	2	0.2509	2	0.120	2	---
35281	C34H71N	methyltritriacontylamine	66214-33-3	340.15	1	758.15	1	966.53	2	5.01	2	1974.5	2	0.2502	2	0.123	2	---
35282	C34H71N	ethyldotriacontylamine	66214-32-2	342.15	2	764.15	1	974.18	2	5.01	2	1974.5	2	0.2502	2	0.122	2	---
35283	C34H71N	diheptadecylamine	16130-73-7	344.15	1	760.15	1	969.08	2	5.01	2	1974.5	2	0.2502	2	0.123	2	---
35284	C34H71N	dimethyldotriacontylamine	66214-31-1	342.15	1	758.15	1	959.24	2	5.06	2	1977.5	2	0.2498	2	0.126	2	---
35285	C34H71N	diethyltriacontylamine	66214-30-0	342.15	2	730.15	1	923.81	2	5.06	2	1977.5	2	0.2498	2	0.130	2	---
35312	C35H64	nonacosylbenzene	61828-27-1	341.15	1	764.15	1	951.23	2	5.54	2	1887.5	2	0.2569	2	0.132	2	---
35313	C35H68	1-pentatriacontyne	61847-94-7	349.15	1	759.15	1	952.63	2	5.10	2	1957.5	2	0.2498	2	0.126	2	---
35314	C35H70	triacontylcyclopentane	61827-93-8	338.15	1	767.15	1	959.65	2	5.17	2	1936.5	2	0.2535	2	0.125	2	---
35315	C35H70	nonacosylcyclohexane	61828-14-6	343.05	1	768.15	1	958.18	2	5.23	2	1928.5	2	0.2546	2	0.127	2	---
35316	C35H70	1-pentatriacontene	61868-13-1	345.45	1	762.15	1	963.51	2	4.86	2	1976.5	2	0.2484	2	0.120	2	---
35317	C35H70Br2	1,1-dibromopentatriacontane	---	588.31	2	813.15	1	1045.87	2	5.09	2	2113.5	2	0.3079	2	0.124	2	---
35318	C35H70Cl2	1,1-dichloropentatriacontane	62017-37-2	528.55	2	799.15	1	1024.98	2	4.64	2	2087.5	2	0.2691	2	0.114	2	---
35319	C35H70F2	1,1-difluoropentatriacontane	62127-24-6	533.01	2	732.15	1	939.61	2	4.60	2	2025.5	2	0.2611	2	0.119	2	---
35320	C35H70I2	1,1-diiodopentatriacontane	66576-85-0	584.83	2	1186.04	2	1515.76	2	4.70	2	2165.5	2	0.3439	2	0.081	2	---
35321	C35H70O	18-pentatriacontanone	504-53-0	362.15	1	893.00	2	900.00	2	5.00	2	1638.9	2	0.3093	2	0.110	2	---
35322	C35H71Br	1-bromopentatriacontane	62108-51-4	351.65	1	790.15	1	1010.87	2	4.92	2	2057.5	2	0.2779	2	0.120	2	---
35323	C35H71Cl	1-chloropentatriacontane	---	351.15	1	778.15	1	994.20	2	4.70	2	2044.5	2	0.2580	2	0.116	2	---
35324	C35H71F	1-fluoropentatriacontane	62108-89-8	354.15	1	748.15	1	956.14	2	4.68	2	2013.5	2	0.2538	2	0.119	2	---
35325	C35H71I	1-iodopentatriacontane	62154-86-3	352.85	1	811.15	1	1074.15	2	5.04	2	2014.5	2	0.3072	2	0.114	2	---
35326	C35H72	pentatriacontane	630-07-9	347.85	1	763.15	1	968.33	2	4.77	2	2103.5	2	0.2344	2	0.125	2	---
35327	C35H73N	pentatriacontylamine	66576-87-2	358.15	1	799.15	1	1027.97	2	4.89	2	2024.5	2	0.2509	2	0.116	2	---
35328	C35H73N	methyltetratriacontylamine	66576-91-8	341.15	1	765.15	1	984.44	2	4.80	2	2030.5	2	0.2502	2	0.119	2	---
35329	C35H73N	ethyltritriacontylamine	66576-90-7	341.15	2	771.15	1	992.16	2	4.80	2	2030.5	2	0.2502	2	0.118	2	---
35330	C35H73N	dimethyltritriacontylamine	66576-89-4	342.00	2	765.15	1	976.13	2	4.85	2	2033.5	2	0.2498	2	0.122	2	---
35331	C35H73N	diethylhentriacontylamine	66576-88-3	342.00	2	737.15	1	940.41	2	4.85	2	2033.5	2	0.2498	2	0.126	2	---
35400	C36H66	triacontylbenzene	50715-02-1	343.15	1	771.15	1	965.65	2	5.30	2	1943.5	2	0.2567	2	0.128	2	---
35408	C36H70	1-hexatriacontyne	61847-95-8	350.15	1	766.15	1	968.33	2	4.88	2	2013.5	2	0.2498	2	0.122	2	---
35418	C36H72	hentriacontylcyclopentane	61827-94-9	340.15	1	774.15	1	974.92	2	4.95	2	1992.5	2	0.2534	2	0.122	2	---
35419	C36H72	triacontylcyclohexane	61828-15-7	344.75	1	775.15	1	972.99	2	5.01	2	1984.5	2	0.2545	2	0.123	2	---
35420	C36H72	1-hexatriacontene	61868-14-2	347.05	1	769.15	1	980.33	2	4.66	2	2032.5	2	0.2484	2	0.116	2	---
35421	C36H72Br2	1,1-dibromohexatriacontane	62168-15-4	599.58	2	819.15	1	1064.34	2	4.88	2	2169.5	2	0.3064	2	0.120	2	---
35422	C36H72Cl2	1,1-dichlorohexatriacontane	62017-38-3	539.82	2	806.15	1	1044.19	2	4.45	2	2143.5	2	0.2687	2	0.110	2	---
35424	C36H72F2	1,1-difluorohexatriacontane	62127-25-7	544.28	2	739.15	1	958.04	2	4.42	2	2081.5	2	0.2609	2	0.116	2	---
35425	C36H72I2	1,1-diiodohexatriacontane	66576-72-5	596.10	2	1208.92	2	1559.68	2	4.51	2	2221.5	2	0.3416	2	0.077	2	---
35430	C36H73Br	1-bromohexatriacontane	7461-19-0	349.65	1	797.15	1	1029.64	2	4.72	2	2113.5	2	0.2772	2	0.116	2	---
35431	C36H73Cl	1-chlorohexatriacontane	62016-88-0	351.15	1	785.15	1	1012.64	2	4.51	2	2100.5	2	0.2578	2	0.112	2	---
35432	C36H73F	1-fluorohexatriacontane	62108-90-1	353.15	1	755.15	1	974.25	2	4.49	2	2069.5	2	0.2537	2	0.115	2	---
35433	C36H73I	1-iodohexatriacontane	62154-87-4	351.95	1	817.15	1	1096.24	2	4.83	2	2070.5	2	0.3057	2	0.110	2	---
35434	C36H74	hexatriacontane	630-06-8	349.05	1	770.15	1	986.42	2	6.80	2	2163.2	2	0.2344	2	0.179	2	1.526
35435	C36H74	13-undecylpentacosane	55517-89-0	282.85	1	770.15	2	986.42	2	4.58	2	2163.2	2	0.2344	2	0.121	2	---
35437	C36H75N	hexatriacontylamine	45313-33-5	359.15	1	806.15	1	1047.57	2	4.69	2	2080.5	2	0.2509	2	0.112	2	---
35438	C36H75N	methylpentatriacontylamine	66577-27-3	342.15	1	771.15	1	1002.31	2	4.60	2	2086.5	2	0.2502	2	0.115	2	---
35439	C36H75N	ethyltetratriacontylamine	66577-26-2	345.45	2	778.15	1	1011.41	2	4.60	2	2086.5	2	0.2502	2	0.114	2	---
35440	C36H75N	dioctadecylamine	112-99-2	345.45	1	774.15	1	1006.21	2	4.60	2	2086.5	2	0.2502	2	0.115	2	---
35441	C36H75N	dimethyltetratriacontylamine	66577-25-1	346.15	1	771.15	1	992.92	2	4.65	2	2089.5	2	0.2498	2	0.118	2	---
35442	C36H75N	diethyldotriacontylamine	66577-24-0	325.72	2	743.15	1	956.87	2	4.65	2	2089.5	2	0.2498	2	0.122	2	---
35443	C36H75N	tridodecylamine	102-87-4	288.85	1	721.15	1	928.54	2	4.65	2	2089.5	2	0.2498	2	0.126	2	---
35476	C37H68	hentriacontylbenzene	61828-28-2	345.15	1	777.15	1	979.86	2	5.07	2	1999.5	2	0.2565	2	0.125	2	---
35477	C37H72	1-heptatriacontyne	---	352.15	1	773.15	1	985.15	2	4.68	2	2069.5	2	0.2498	2	0.118	2	---
35478	C37H74	dotriacontylcyclopentane	---	342.15	1	780.15	1	990.03	2	4.75	2	2048.5	2	0.2534	2	0.118	2	---
35479	C37H74	hentriacontylcyclohexane	61828-16-8	346.45	1	781.15	1	987.61	2	4.80	2	2040.5	2	0.2543	2	0.119	2	---
35480	C37H74	1-heptatriacontene	61868-15-3	348.65	1	776.15	1	998.34	2	4.47	2	2088.5	2	0.2485	2	0.113	2	---
35481	C37H74Br2	1,1-dibromoheptatriacontane	62168-16-5	610.85	2	826.15	1	1085.52	2	4.68	2	2225.5	2	0.3050	2	0.115	2	---
35482	C37H74Cl2	1,1-dichloroheptatriacontane	62017-39-4	551.09	2	813.15	1	1064.78	2	4.28	2	2199.5	2	0.2682	2	0.106	2	---
35483	C37H74F2	1,1-difluoroheptatriacontane	62127-26-8	555.55	2	745.15	1	976.45	2	4.25	2	2137.5	2	0.2606	2	0.112	2	---
35484	C37H74I2	1,1-diiodoheptatriacontane	66577-05-7	607.37	2	1231.80	2	1605.93	2	4.33	2	2277.5	2	0.3393	2	0.074	2	---
35486	C37H75Br	1-bromoheptatriacontane	62108-52-5	354.55	1	804.15	1	1049.74	2	4.53	2	2169.5	2	0.2765	2	0.112	2	---
35487	C37H75Cl	1-chloroheptatriacontane	62016-89-1	354.15	1	792.15	1	1032.39	2	4.33	2	2156.5	2	0.2576	2	0.109	2	---
35488	C37H75F	1-fluoroheptatriacontane	62108-91-2	357.15	1	762.15	1	993.63	2	4.31	2	2125.5	2	0.2536	2	0.111	2	---
35489	C37H75I	1-iodoheptatriacontane	62154-88-5	355.65	1	824.15	1	1121.36	2	4.63	2	2126.5	2	0.3042	2	0.106	2	---
35490	C37H76	heptatriacontane	7194-84-5	350.85	1	777.15	1	993.92	2	4.40	2	2222.9	2	0.2344	2	0.118	2	---

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
35491	C37H77N	heptatriacontylamine	66577-08-0	360.15	1	813.15	1	1068.57	2	4.50	2	2136.5	2	0.2509	2	0.108	2	---
35492	C37H77N	methylhexatriacontylamine	66577-12-6	343.15	1	779.15	1	1024.15	2	4.42	2	2142.5	2	0.2502	2	0.111	2	---
35493	C37H77N	ethylpentatriacontylamine	66577-11-5	343.15	2	784.15	1	1030.72	2	4.42	2	2142.5	2	0.2502	2	0.110	2	---
35494	C37H77N	dimethylpentatriacontylamine	66577-10-4	317.65	2	778.15	1	1012.28	2	4.47	2	2145.5	2	0.2498	2	0.114	2	---
35495	C37H77N	diethyltritriacontylamine	66577-09-1	317.65	2	750.15	1	975.85	2	4.47	2	2145.5	2	0.2498	2	0.118	2	---
35496	C37H77N	N-methyldioctadecylamine	4088-22-6	317.65	1	780.95	2	1022.31	2	4.45	2	2142.5	2	0.2502	2	0.112	2	---
35513	C38H70	dotriacontylbenzene	61828-29-3	347.15	1	783.15	1	995.18	2	4.86	2	2055.5	2	0.2564	2	0.121	2	---
35514	C38H74	1-octatriacontyne	---	353.15	1	780.15	1	1003.17	2	4.49	2	2125.5	2	0.2498	2	0.114	2	---
35518	C38H76	tritriacontylcyclopentane	---	343.15	1	787.15	1	1007.57	2	4.55	2	2104.5	2	0.2533	2	0.114	2	---
35519	C38H76	dotriacontylcyclohexane	61828-17-9	347.95	1	788.15	1	1004.63	2	4.60	2	2096.5	2	0.2542	2	0.116	2	---
35520	C38H76	1-octatriacontene	61868-16-4	350.15	1	783.15	1	1017.62	2	4.30	2	2144.5	2	0.2486	2	0.109	2	---
35521	C38H76Br2	1,1-dibromooctatriacontane	62168-17-6	622.12	2	832.15	1	1106.90	2	4.49	2	2281.5	2	0.3037	2	0.111	2	---
35522	C38H76Cl2	1,1-dichlorooctatriacontane	62017-40-7	562.36	2	819.15	1	1085.53	2	4.11	2	2255.5	2	0.2678	2	0.103	2	---
35523	C38H76F2	1,1-difluorooctatriacontane	62126-87-8	566.82	2	751.15	1	996.21	2	4.08	2	2193.5	2	0.2603	2	0.108	2	---
35524	C38H76I2	1,1-diiodooctatriacontane	66577-13-7	618.64	2	1254.68	2	1654.72	2	4.16	2	2333.5	2	0.3372	2	0.071	2	---
35526	C38H77Br	1-bromooctatriacontane	62108-53-6	352.55	1	810.15	1	1069.97	2	4.35	2	2225.5	2	0.2759	2	0.109	2	---
35527	C38H77Cl	1-chlorooctatriacontane	62016-90-4	354.15	1	798.15	1	1052.23	2	4.16	2	2212.5	2	0.2574	2	0.105	2	---
35528	C38H77F	1-fluorooctatriacontane	62108-92-3	355.15	1	768.15	1	1013.07	2	4.15	2	2181.5	2	0.2535	2	0.107	2	---
35529	C38H77I	1-iodooctatriacontane	62154-89-6	354.75	1	830.15	1	1146.96	2	4.45	2	2182.5	2	0.3028	2	0.102	2	---
35530	C38H78	octatriacontane	7194-85-6	352.15	1	784.15	1	1001.41	2	4.22	2	2282.6	2	0.2344	2	0.116	2	---
35531	C38H78	13-dodecylhexacosane	55517-73-2	286.85	1	784.15	2	1001.41	2	4.22	2	2282.6	2	0.2344	2	0.116	2	---
35532	C38H79N	octatriacontylamine	66576-94-1	361.15	1	820.15	1	1091.09	2	4.32	2	2192.5	2	0.2509	2	0.105	2	---
35533	C38H79N	methylheptatriacontylamine	66576-99-6	344.15	1	784.15	1	1043.48	2	4.25	2	2198.5	2	0.2502	2	0.108	2	---
35534	C38H79N	ethylhexatriacontylamine	66576-98-5	348.15	2	791.15	1	1052.80	2	4.25	2	2198.5	2	0.2502	2	0.107	2	---
35535	C38H79N	dinonadecylamine	66576-97-4	351.15	1	787.15	1	1047.47	2	4.25	2	2198.5	2	0.2502	2	0.107	2	---
35536	C38H79N	dimethylhexatriacontylamine	66576-96-3	349.15	1	784.15	1	1031.69	2	4.29	2	2201.5	2	0.2499	2	0.110	2	---
35537	C38H79N	diethyltetratriacontylamine	66576-95-2	337.00	2	756.15	1	994.85	2	4.29	2	2201.5	2	0.2499	2	0.114	2	---
35553	C39H72	tritriacontylbenzene	61828-30-6	348.15	1	789.15	1	1011.66	2	4.66	2	2111.5	2	0.2562	2	0.117	2	---
35553.1	C39H72O5	glycerol dioleate	2465-32-9	294.65	1	920.00	2	1025.00	2	7.92	2	2150.0	2	0.2888	2	0.200	2	2.581
35555	C39H76	1-nonatriacontyne	---	355.15	1	786.15	1	1021.18	2	4.32	2	2181.5	2	0.2498	2	0.111	2	---
35556	C39H78	tetratriacontylcyclopentane	---	345.15	1	793.15	1	1025.07	2	4.37	2	2160.5	2	0.2532	2	0.111	2	---
35557	C39H78	tritriacontylcyclohexane	55517-75-4	349.45	1	794.15	1	1021.59	2	4.42	2	2152.5	2	0.2541	2	0.112	2	---
35558	C39H78	1-nonatriacontene	61868-17-5	351.55	1	790.15	1	1038.28	2	4.13	2	2200.5	2	0.2486	2	0.105	2	---
35559	C39H78Br2	1,1-dibrombnonatriacontane	62168-18-7	633.39	2	838.15	1	1129.91	2	4.31	2	2337.5	2	0.3024	2	0.107	2	---
35560	C39H78Cl2	1,1-dichlorononatriacontane	62017-41-8	573.63	2	825.15	1	1107.85	2	3.96	2	2311.5	2	0.2673	2	0.099	2	---
35561	C39H78F2	1,1-difluorononatriacontane	62126-88-9	578.09	2	758.15	1	1018.78	2	3.93	2	2249.5	2	0.2601	2	0.104	2	---
35562	C39H78I2	1,1-diiodononatriacontane	66576-58-7	629.91	2	1277.56	2	1706.29	2	4.00	2	2389.5	2	0.3352	2	0.067	2	---
35563	C39H79Br	1-bromononatriacontane	62108-54-7	357.25	1	816.15	1	1091.72	2	4.18	2	2281.5	2	0.2752	2	0.105	2	---
35564	C39H79Cl	1-chlorononatriacontane	62016-91-5	357.15	1	804.15	1	1073.56	2	4.00	2	2268.5	2	0.2572	2	0.102	2	---
35565	C39H79F	1-fluorononatriacontane	62108-93-4	359.15	1	775.15	1	1035.28	2	3.99	2	2237.5	2	0.2534	2	0.104	2	---
35566	C39H79I	1-iodononatriacontane	62154-90-9	358.15	1	836.15	1	1174.54	2	4.27	2	2238.5	2	0.3015	2	0.098	2	---
35567	C39H80	nonatriacontane	7194-86-7	353.45	1	791.15	1	1008.89	2	4.06	2	2342.3	2	0.2344	2	0.113	2	---
35568	C39H81N	nonatriacontylamine	66576-42-9	362.15	1	827.15	1	1115.25	2	4.16	2	2248.5	2	0.2509	2	0.101	2	---
35569	C39H81N	methyloctatriacontylamine	66576-46-3	345.15	1	790.15	1	1065.67	2	4.08	2	2254.5	2	0.2502	2	0.104	2	---
35570	C39H81N	ethylheptatriacontylamine	66576-45-2	345.15	2	797.15	1	1075.11	2	4.08	2	2254.5	2	0.2502	2	0.103	2	---
35571	C39H81N	dimethylheptatriacontylamine	66576-44-1	347.00	2	791.15	1	1053.87	2	4.12	2	2257.5	2	0.2499	2	0.106	2	---
35572	C39H81N	diethylpentatriacontylamine	66576-43-0	347.00	2	763.15	1	1016.58	2	4.12	2	2257.5	2	0.2499	2	0.110	2	---
35573	C39H81N	tritridecylamine	5910-77-0	347.00	2	740.15	1	985.94	2	4.12	2	2257.5	2	0.2499	2	0.114	2	---
35615	C40H74	tetratriacontylbenzene	61828-31-7	350.15	1	795.15	1	1029.38	2	4.48	2	2167.5	2	0.2561	2	0.113	2	---
35616	C40H78	1-tetracontyne	---	356.15	1	793.15	1	1041.84	2	4.15	2	2237.5	2	0.2499	2	0.107	2	---
35617	C40H80	pentatriacontylcyclopentane	61827-98-3	347.15	1	799.15	1	1043.89	2	4.20	2	2216.5	2	0.2531	2	0.107	2	---
35618	C40H80	tetratriacontylcyclohexane	61828-19-1	350.85	1	800.15	1	1039.83	2	4.25	2	2208.5	2	0.2541	2	0.108	2	---
35619	C40H80	1-tetracontene	61868-18-6	352.95	1	796.15	1	1059.09	2	3.97	2	2256.5	2	0.2486	2	0.102	2	---
35620	C40H80Br2	1,1-dibromotetracontane	62168-19-8	644.66	2	844.15	1	1154.67	2	4.14	2	2393.5	2	0.3012	2	0.103	2	---
35621	C40H80Cl2	1,1-dichlorotetracontane	62017-42-9	584.90	2	831.15	1	1131.86	2	3.81	2	2367.5	2	0.2669	2	0.096	2	---
35622	C40H80F2	1,1-difluorotetracontane	62126-89-0	589.36	2	763.15	1	1040.24	2	3.79	2	2305.5	2	0.2598	2	0.101	2	---
35623	C40H80I2	1,1-diiodotetracontane	66576-47-4	641.18	2	1300.44	2	1760.88	2	3.85	2	2445.5	2	0.3332	2	0.064	2	---
35626	C40H81Br	1-bromotetracontane	62108-55-8	355.25	1	822.15	1	1115.11	2	4.02	2	2337.5	2	0.2746	2	0.101	2	---
35627	C40H81Cl	1-chlorotetracontane	62016-92-6	357.15	1	810.15	1	1096.50	2	3.85	2	2324.5	2	0.2571	2	0.098	2	---
35628	C40H81F	1-fluorotetracontane	62108-94-5	358.15	1	781.15	1	1057.73	2	3.84	2	2293.5	2	0.2534	2	0.100	2	---
35629	C40H81I	1-iodotetracontane	62154-91-0	357.25	1	842.15	1	1204.29	2	4.11	2	2294.5	2	0.3003	2	0.094	2	---
35630	C40H82	tetracontane	4181-95-7	354.65	1	798.15	1	1016.35	2	3.91	2	2402.0	2	0.2344	2	0.111	2	---
35631	C40H83N	tetracontylamine	66576-50-9	363.15	1	833.15	1	1139.81	2	4.00	2	2304.5	2	0.2509	2	0.097	2	---
35632	C40H83N	methylnonatriacontylamine	66576-36-1	346.15	1	796.15	1	1089.54	2	3.93	2	2310.5	2	0.2502	2	0.100	2	---
35633	C40H83N	ethyloctatriacontylamine	66576-53-2	349.65	2	803.15	1	1099.12	2	3.93	2	2310.5	2	0.2502	2	0.099	2	---
35634	C40H83N	dieicosylamine	3071-00-9	353.15	1	799.15	1	1093.64	2	3.93	2	2310.5	2	0.2502	2	0.100	2	---
35635	C40H83N	dimethyloctatriacontylamine	66576-52-1	352.15	1	797.15	1	1076.31	2	3.97	2	2313.5	2	0.2499	2	0.103	2	---
35636	C40H83N	diethylhexatriacontylamine	66576-51-0	352.15	2	769.15	1	1038.51	2	3.97	2	2313.5	2	0.2499	2	0.106	2	---
35656	C41H76	pentatriacontylbenzene	61828-32-8	352.15	1	801.15	1	1048.44	2	4.30	2	2223.5	2	0.2559	2	0.110	2	---
35658	C41H82	hexatriacontylcyclopentane	61827-99-4	348.15	1	805.15	1	1064.12	2	4.04	2	2272.5	2	0.2531	2	0.104	2	---
35659	C41H82	pentatriacontylcyclohexane	61828-20-4	352.25	1	807.15	1	1060.75	2	4.08	2	2264.5	2	0.2540	2	0.105	2	---
35660	C41H84	n-hentetracontane	7194-87-8	353.90	1	804.15	1	1022.74	2	3.87	2	2461.7	2	0.2344	2	0.112	2	---
35703	C42H78	hexatriacontylbenzene	61828-33-9	353.15	1	806.15	1	1067.60	2	4.13	2	2279.5	2	0.2558	2	0.106	2	---
35705	C42H84	hexatriacontylcyclohexane	61828-21-5	353.55	1	811.15	1	1079.19	2	3.93	2	2320.5	2	0.2539	2	0.102	2	---
35708	C42H86	n-dotetracontane	7098-20-6	356.10	1	810.15	1	1029.13	2	3.83	2	2521.4	2	0.2345	2	0.113	2	---
35709	C42H87N	tritetradecylamine	27911-72-4	306.15	1	757.15	1	1054.03	2	3.68	2	2425.5	2	0.2499	2	0.102	2	---
35735	C43H88	tritetracontane	7098-21-7	358.65	1	815.65	1	1034.97	2	3.79	2	2581.1	2	0.2345	2	0.114	2	---
35763	C44H90	n-tetratetracontane	7098-22-8	359.15	1	821.15	1	1040.81	2	3.75	2	2640.8	2	0.2345	2	0.114	2	---
35774	C45H92	n-pentatetracontane	7098-23-9	360.00	2	827.15	1	1047.17	2	3.71	2	2700.5	2	0.2345	2	0.115	2	---
35775	C45H93N	tripentadecylamine	66576-66-7	310.00	2	773.15	1	1076.51	2	3.57	2	2470.9	2	0.2624	2	0.099	2	---

Table 1 Critical Properties and Acentric Factor - Organic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
35788	C46H94	n-hexatetracontane	7098-24-0	361.00	1	832.15	1	1052.47	2	3.67	2	2760.2	2	0.2345	2	0.116	2	---
35798	C47H96	n-heptatetracontane	7098-25-1	361.20	2	837.15	1	1057.76	2	3.63	2	2819.9	2	0.2345	2	0.116	2	---
35816	C48H98	n-octatetracontane	7098-26-2	361.40	1	843.15	1	1064.10	2	3.59	2	2879.6	2	0.2345	2	0.117	2	---
35817	C48H99N	trihexadecylamine	28947-77-5	316.15	1	789.15	1	1133.51	2	3.46	2	2630.6	2	0.2624	2	0.097	2	---
35823	C49H100	n-nonatetracontane	7098-27-3	363.00	2	847.15	1	1068.32	2	3.55	2	2939.3	2	0.2345	2	0.117	2	---
35831	C50H102	n-pentacontane	6596-40-3	365.30	1	852.15	1	1073.60	2	3.51	2	2999.0	2	0.2345	2	0.118	2	---
35838	C51H104	n-henpentacontane	7667-76-7	366.00	2	857.15	1	1078.87	2	3.47	2	3058.7	2	0.2345	2	0.118	2	---
35839	C51H105N	triheptadecylamine	66575-83-5	325.00	2	803.15	1	1171.51	2	3.35	2	2750.7	2	0.2663	2	0.095	2	---
35847	C52H106	n-dopentacontane	7719-79-1	367.00	1	861.15	1	1083.08	2	3.43	2	3118.4	2	0.2345	2	0.119	2	---
35849	C53H108	n-tripentacontane	'7719-80-4	367.50	2	866.15	1	1088.34	2	3.39	2	3178.1	2	0.2346	2	0.119	2	---
35869	C54H110	n-tetrapentacontane	5856-66-6	368.00	1	870.15	1	1092.55	2	3.35	2	3237.8	2	0.2346	2	0.119	2	---
35871	C54H111N	trioctadecylamine	102-88-5	327.15	1	816.15	1	1229.51	2	3.24	2	2922.6	2	0.2650	2	0.093	2	---
35880	C55H112	n-pentapentacontane	5846-40-2	368.50	2	874.15	1	1096.75	2	3.31	2	3297.5	2	0.2346	2	0.120	2	---
35891	C56H114	n-hexapentacontane	7719-82-6	369.00	2	878.15	1	1100.95	2	3.27	2	3357.2	2	0.2346	2	0.120	2	---
35898	C57H104O6	glycerol trioleate	122-32-7	278.15	1	1200.00	2	1640.00	2	4.70	2	3090.0	2	0.2866	2	0.107	2	---
35900	C57H116	n-heptapentacontane	5856-67-7	369.70	1	882.15	1	1105.14	2	3.23	2	3416.9	2	0.2346	2	0.120	2	---
35901	C57H117N	trinonadecylamine	66575-72-2	330.00	2	829.15	1	1286.51	2	3.13	2	3098.1	2	0.2636	2	0.091	2	---
35904	C58H118	n-octapentacontane	7667-78-9	370.00	1	886.15	1	1109.34	2	3.19	2	3476.6	2	0.2346	2	0.120	2	---
35908	C59H120	n-nonapentacontane	7667-79-0	371.00	2	890.15	1	1113.53	2	3.15	2	3536.3	2	0.2346	2	0.120	2	---
35922	C60H122	n-hexacontane	7667-80-3	372.10	1	893.15	1	1116.67	2	3.11	2	3596.0	2	0.2346	2	0.120	2	---
35923	C60H123N	trieicosylamine	45324-58-1	335.15	1	841.15	1	1343.51	2	3.02	2	3280.2	2	0.2618	2	0.089	2	---
35925	C61H124	n-henhexacontane	7667-81-4	373.00	2	897.15	1	1120.85	2	3.07	2	3655.7	2	0.2346	2	0.120	2	---
35932	C62H126	n-dohexacontane	7719-83-7	375.00	1	901.15	1	1125.03	2	3.03	2	3715.4	2	0.2346	2	0.120	2	---
35940	C63H128	n-trihexacontane	7719-84-8	375.10	2	904.15	1	1128.17	2	2.99	2	3775.1	2	0.2346	2	0.120	2	---
35943	C64H130	n-tetrahexacontane	7719-87-1	375.20	1	907.15	1	1131.30	2	2.95	2	3834.8	2	0.2346	2	0.120	2	---
35944	C65H132	n-pentahexacontane	7719-88-2	376.00	2	910.15	1	1134.43	2	2.91	2	3894.5	2	0.2346	2	0.120	2	---
35949	C66H134	n-hexahexacontane	7719-89-3	376.80	1	914.15	1	1138.60	2	2.87	2	3954.2	2	0.2346	2	0.120	2	---
35952	C67H136	n-heptahexacontane	7719-90-6	377.30	1	917.15	1	1141.73	2	2.83	2	4013.9	2	0.2346	2	0.120	2	---
35956	C68H138	n-octahexacontane	7719-91-7	377.70	2	920.15	1	1144.85	2	2.79	2	4073.6	2	0.2346	2	0.119	2	---
35958	C69H140	n-nonahexacontane	7719-92-8	378.10	2	923.15	1	1147.98	2	2.75	2	4133.3	2	0.2346	2	0.119	2	---
35960	C70H142	n-heptacontane	7719-93-9	378.40	2	926.15	1	1151.10	2	2.71	2	4193.0	2	0.2347	2	0.119	2	---
35961	C71H144	n-henheptacontane	7667-82-5	373.80	2	928.15	1	1153.18	2	2.67	2	4252.7	2	0.2347	2	0.118	2	---
35968	C72H146	n-doheptacontane	7667-83-6	374.60	2	931.15	1	1156.30	2	2.63	2	4312.4	2	0.2347	2	0.118	2	---
35970	C73H148	n-triheptacontane	7667-84-7	375.40	2	934.15	1	1159.41	2	2.59	2	4372.1	2	0.2347	2	0.117	2	---
35972	C74H150	n-tetraheptacontane	7667-85-8	376.20	2	936.15	1	1161.49	2	2.55	2	4431.8	2	0.2347	2	0.117	2	---
35975	C75H152	n-pentaheptacontane	7667-86-9	377.00	2	939.15	1	1164.61	2	2.51	2	4491.5	2	0.2347	2	0.116	2	---
35977	C76H154	n-hexaheptacontane	7667-87-0	377.80	2	941.15	1	1166.68	2	2.47	2	4551.2	2	0.2347	2	0.116	2	---
35979	C77H156	n-heptaheptacontane	7719-94-0	378.60	2	944.15	1	1169.79	2	2.43	2	4610.9	2	0.2347	2	0.115	2	---
35980	C78H158	n-octaheptacontane	7719-85-9	379.40	2	946.15	1	1171.87	2	2.39	2	4670.6	2	0.2347	2	0.115	2	---
35982	C79H160	n-nonaheptacontane	7719-86-0	380.20	2	949.15	1	1174.98	2	2.35	2	4730.3	2	0.2347	2	0.114	2	---
35984	C80H162	n-octacontane	7667-88-1	381.00	2	951.15	1	1177.05	2	2.31	2	4790.0	2	0.2347	2	0.113	2	---
35985	C81H164	n-henoctacontane	7667-89-2	382.00	2	953.15	1	1179.12	2	2.27	2	4849.7	2	0.2347	2	0.112	2	---
35986	C82H166	n-dooctacontane	7719-95-1	383.50	1	955.15	1	1181.19	2	2.23	2	4909.4	2	0.2347	2	0.111	2	---
35987	C83H168	n-trioctacontane	7667-90-5	383.80	2	957.15	1	1183.26	2	2.19	2	4969.1	2	0.2347	2	0.111	2	---
35990	C84H170	n-tetraoctacontane	7667-91-6	384.10	2	959.15	1	1185.33	2	2.15	2	5028.8	2	0.2347	2	0.110	2	---
35991	C85H172	n-pentaoctacontane	7719-96-2	384.40	2	961.15	1	1187.40	2	2.11	2	5088.5	2	0.2347	2	0.109	2	---
35992	C86H174	n-hexaoctacontane	7667-92-7	384.70	2	963.15	1	1189.47	2	2.07	2	5148.2	2	0.2347	2	0.108	2	---
35993	C87H176	n-heptaoctacontane	7667-93-8	385.00	2	965.15	1	1191.53	2	2.03	2	5207.9	2	0.2347	2	0.107	2	---
35998	C88H178	n-octaoctacontane	7667-94-9	385.30	2	967.15	1	1193.60	2	1.99	2	5267.6	2	0.2347	2	0.106	2	---
36000	C89H180	n-nonaoctacontane	7719-76-8	385.60	2	969.15	1	1195.66	2	1.95	2	5327.3	2	0.2347	2	0.104	2	---
36002	C90H182	n-nonacontane	7667-51-8	385.90	2	971.15	1	1197.73	2	1.91	2	5387.0	2	0.2347	2	0.103	2	---
36003	C91H184	n-hennonacontane	7719-97-3	386.20	2	973.15	1	1199.79	2	1.87	2	5446.7	2	0.2347	2	0.102	2	---
36004	C92H186	n-dononacontane	7667-95-0	386.50	2	975.15	1	1201.86	2	1.83	2	5506.4	2	0.2347	2	0.101	2	---
36005	C93H188	n-trinonacontane	7667-96-1	386.80	2	977.15	1	1203.92	2	1.79	2	5566.1	2	0.2347	2	0.099	2	---
36006	C94H190	n-tetranonacontane	1574-32-9	387.40	1	978.15	1	1204.95	2	1.75	2	5625.8	2	0.2347	2	0.098	2	---
36008	C95H192	n-pentanonacontane	7667-97-2	387.50	2	980.15	1	1207.01	2	1.71	2	5685.5	2	0.2347	2	0.097	2	---
36010	C96H194	n-hexanonacontane	7763-13-5	387.60	2	982.15	1	1209.07	2	1.67	2	5745.2	2	0.2347	2	0.095	2	---
36011	C97H196	n-heptanonacontane	7670-25-9	387.70	2	983.15	1	1210.10	2	1.63	2	5804.9	2	0.2347	2	0.094	2	---
36012	C98H198	n-octanonacontane	7670-26-0	387.80	2	985.15	1	1212.16	2	1.59	2	5864.6	2	0.2347	2	0.092	2	---
36013	C99H200	n-nonanonacontane	7670-27-1	387.90	2	986.15	1	1213.19	2	1.55	2	5924.3	2	0.2347	2	0.091	2	---
36014	C100H202	n-hectane	6703-98-6	388.40	1	988.15	1	1215.25	2	1.51	2	5984.0	2	0.2347	2	0.089	2	---

Code: 1 - data, 2 - estimate

T_F - freezing point critical temperature, K

T_B - boiling point critical temperature, K

T_C - critical temperature, K

P_C - critical pressure, bar

V_C - critical volume, ml/mol

rho_C - critical density, g/ml

Z_C - critical compressibility factor

omega - acentric factor

Chapter 2

CRITICAL PROPERTIES AND ACENTRIC FACTOR – INORGANIC COMPOUNDS

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Tabulation Results

The tabulation is arranged by alphabetical order (Ag, Al, Ar, ……, Zr) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for freezing point, boiling point, critical temperature, pressure, volume, density, and compressibility factor are given in the adjacent columns. The code for each property is also given. The last column provides the acentric factor.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-38). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (1-2), Daubert and Danner (3), Dechema (15), Vargaftik (20), and Yaws (21-38) were used extensively for critical properties. Estimates of critical properties were primarily based on the methods of Gambill (9), Guldberg-Guye (8), Gates-Thodos (8), Grosse (8), Wilson-Jasperson (11), extension of vapor pressure curve, Benson (8), and Tyn-Calus (9). Critical density was determined from dividing molecular weight by critical volume. Critical compressibility factor was ascertained from application of the gas law at the critical point. Estimates for acentric factor were primarily made by using the Antoine equation for vapor pressure (12-13).

A comparison of calculated and data values for critical temperature is shown in Figure 2 for the elements. The graph shows favorable agreement of equation and data.

Example

In an engineering analysis, the critical properties and acentric factor are needed for ammonia (NH3). Determine the critical properties and acentric factor for ammonia.

Inspection of the tabulation for critical properties and acentric factor yields:

Tc = 405.65 K

Pc = 112.80 bar

Vc = 72.47 ml/mol

rhoc = 0.2350 g/ml

Zc = 0.242

omega = 0.2526

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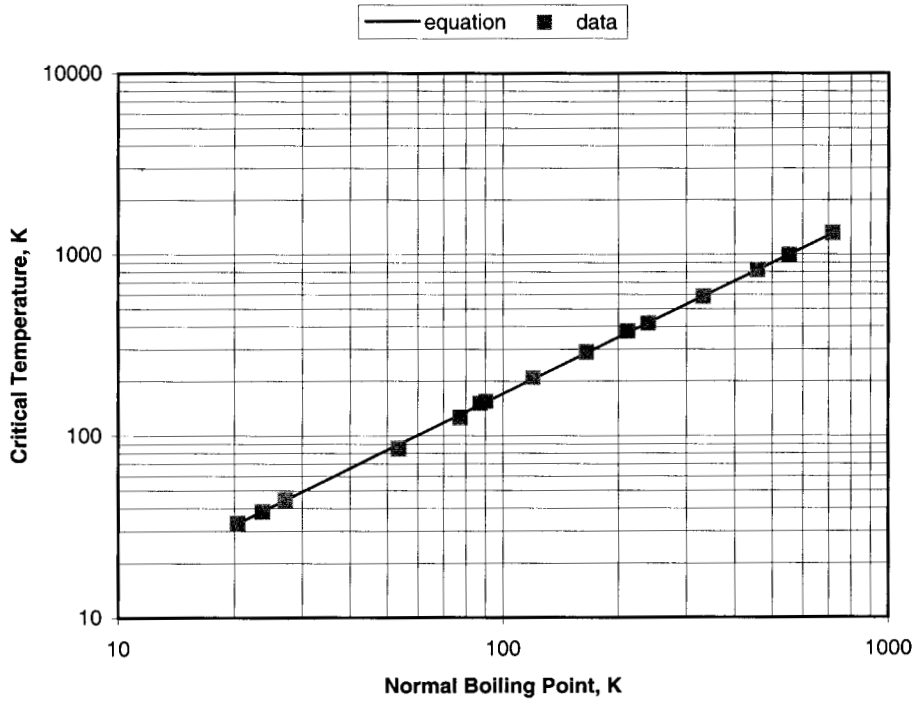


Figure 2 Critical Temperature of the Elements

Table 2 Critical Properties and Acentric Factor - Inorganic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
1	Ac	actinium	7440-34-8	1324.15	1	3471.15	1	11010.67	2	---	---	---	---	---	---	---	---	---
13	Ag	silver	7440-22-4	1234.00	1	2485.00	1	6410.00	2	4810.00	2	339.00	2	0.3182	2	3.060	2	0.1499
35	AgCl	silver (i) chloride	7783-90-6	728.15	1	1820.15	1	2992.10	2	100.28	2	744.26	2	0.1926	2	0.300	2	0.3600
45	AgI	silver (i) iodide	7783-96-2	831.15	1	1779.15	1	2897.64	2	97.12	2	744.26	2	0.3154	2	0.300	2	0.3510
77	Al	aluminum	7429-90-5	933.45	1	2790.81	1	9300.00	2	5700.00	2	39.00	2	0.6918	2	0.288	2	-0.3054
80	AlB3H12	aluminum borohydride	16962-07-5	208.65	1	317.65	1	513.77	2	112.46	2	113.96	2	0.6275	2	0.300	2	0.4360
82	AlBr3	aluminum bromide	7727-15-3	370.65	1	528.15	1	763.00	1	28.90	1	310.00	1	0.8603	1	0.141	1	0.3990
86	AlC2H6Cl	aluminum, dimethyl chloride	1184-58-3	---	---	---	---	619.00	2	36.20	2	320.00	2	0.2891	2	0.225	2	0.1834
88	AlC3H9	aluminum, trimethyl	75-24-1	---	---	---	---	620.00	2	40.00	2	271.00	2	0.2660	2	0.210	2	0.2179
96	AlC6H15	aluminum, triethyl	97-93-8	---	---	---	---	678.15	1	89.30	2	230.00	2	0.4964	2	0.364	1,2	0.8418
127	AlCl3	aluminum chloride	7446-70-0	465.70	1	453.15	1	629.00	1	26.30	1	261.00	1	0.5109	1	0.131	1	0.3555
134	AlF3	aluminum fluoride	7784-18-1	1563.15	1	1549.15	1	2948.13	2	98.81	2	744.26	2	0.1128	2	0.300	2	0.3560
146	AlI3	aluminum iodide	7784-23-8	461.43	1	655.15	1	983.00	1	35.95	2	408.00	1	0.9993	1	0.179	1,2	0.3490
155	Al2C6H15Cl3	aluminum, ethyl sesquichloride	12075-68-2	---	---	---	---	791.00	2	---	---	---	---	---	---	---	---	---
167	Al2O3	aluminum oxide	1344-28-1	2325.00	1	3253.15	1	5335.00	2	1953.20	2	68.13	2	1.4966	2	0.300	2	1.2000
183	Am	americium	7440-35-9	1449.15	1	2284.15	1	6514.79	2	---	---	---	---	---	---	---	---	---
200	Ar	argon	7440-37-1	83.80	1	87.28	1	150.86	1	48.98	1	74.59	1	0.5356	1	0.291	1	0.0000
202	As	arsenic	7440-38-3	1090.00	1	888.00	1	1673.00	1	223.00	1	35.00	1	2.1406	1	0.056	1	-0.3680
203	AsBr3	arsenic (iii) bromide	7784-33-0	304.25	1	494.15	1	789.01	2	66.40	2	270.69	2	1.1623	2	0.274	2	0.2980
228	AsCl3	arsenic trichloride	7784-34-1	257.15	1	403.15	1	654.00	1	59.12	2	252.00	1	0.7194	1	0.274	1,2	0.2200
230	AsF3	arsenic trifluoride	7784-35-2	267.25	1	330.95	1	530.21	2	87.81	2	137.55	2	0.9590	2	0.274	2	0.3630
231	AsF5	arsenic pentafluoride	7784-36-3	193.35	1	220.35	1	357.73	2	41.13	2	198.14	2	0.8575	2	0.274	2	0.1060
234	AsH3	arsine	7784-42-1	156.28	1	210.67	1	373.00	1	65.50	2	97.80	2	0.7970	2	0.207	1,2	0.0105
238	AsI3	arsenic triiodide	7784-45-4	414.05	1	697.15	1	1101.22	2	99.06	2	277.31	2	1.6431	2	0.300	2	0.3570
245	As2O3	arsenic trioxide	1327-53-3	551.00	1	740.30	1	1200.00	2	40.00	2	183.19	2	1.0800	2	0.073	2	0.0611
248	As2S3	arsenic (iii) sulfide	1303-33-9	583.15	1	980.15	1	1608.24	2	68.38	2	265.93	2	0.9252	2	0.136	2	---
254	As4S4	arsenic sulfide	12279-90-2	593.15	1	838.15	1	1314.59	2	28.47	2	522.03	2	0.8198	2	0.136	2	---
255	At	astatine	7440-68-8	575.15	1	607.00	1	1096.37	2	1236.30	2	22.12	2	9.4937	2	0.300	2	0.6410
256	Au	gold	7440-57-5	1337.33	1	3129.15	1	4398.00	2	6354.40	2	50.30	2	3.9158	2	0.874	2	---
283	B	boron	7440-42-8	2348.15	1	4273.15	1	7934.59	2	8417.50	2	23.51	2	0.4598	2	0.300	2	0.8260
285	BBr3	boron tribromide	10294-33-4	228.15	1	364.15	1	581.00	1	48.66	2	272.00	1	0.9210	1	0.274	1,2	0.2160
361	BCl3	boron trichloride	10294-34-5	166.15	1	285.65	1	451.95	1	38.71	1	148.30	1	0.7901	1	0.153	1	0.1505
363	BF3	boron trifluoride	7637-07-2	146.05	1	173.35	1	260.90	1	49.90	1	115.00	1	0.5896	1	0.265	1,2	0.4337
368	BH2CO	borine carbonyl	---	---	---	---	---	340.03	2	55.03	2	140.74	2	0.2902	2	0.274	2	0.1880
369	BH3CO	borane carbonyl	13205-44-2	136.15	1	209.15	1	328.56	2	47.19	2	90.29	2	0.4634	2	0.156	2	---
370	BH3O3	boric acid	10043-35-3	444.10	1	---	---	289.80	1	40.53	1	173.11	1	0.3572	1	0.291	1	0.1254
372	BI3	boron triiodide	13517-10-7	316.15	1	483.15	1	773.00	1	60.59	2	356.00	1	1.0998	1	0.156	2	---
390	B2Cl4	diborane, tetrachloro	13701-67-2	180.55	1	338.15	1	507.85	2	32.94	2	373.00	2	0.4382	2	0.291	2	---
391	B2D6	diborane, deutero	20396-66-1	---	---	180.65	1	293.74	2	32.17	2	208.01	2	0.1620	2	0.274	2	0.0170
392	B2F4	diborane, tetrafluoro	13965-73-6	217.15	1	239.15	1	364.54	2	42.25	2	208.77	2	0.4676	2	0.291	2	---
393	B2H5Br	diborane hydrobromide	---	168.95	1	289.45	1	466.98	2	43.61	2	243.93	2	0.4369	2	0.274	2	0.1420
394	B2H6	diborane	19287-45-7	107.65	1	180.65	1	289.80	1	40.53	1	173.10	1	0.1598	1	0.291	1	0.1250
401	B3N3H6	borazine	6569-51-3	215.76	1	326.15	1	521.20	2	36.34	2	326.72	2	0.2464	2	0.274	2	0.0920
404	B4H10	tetraborane	18283-93-7	152.15	1	291.15	1	466.66	2	38.84	2	273.67	2	0.1948	2	0.274	2	0.1070
405	B5H9	pentaborane	19624-22-7	226.55	1	333.15	1	568.45	2	46.41	2	285.10	2	0.2214	2	0.280	2	---
406	B5H11	pentaborane	18433-84-6	150.15	1	336.15	1	547.13	2	41.29	2	301.82	2	0.2158	2	0.274	2	0.1340
413	B10H14	decaborane	---	372.75	1	486.15	1	791.78	2	59.02	2	334.63	2	0.3652	2	0.300	2	0.2030
416	Ba	barium	7440-39-3	1000.15	1	2170.15	1	3572.13	2	381.40	2	233.62	2	0.5878	2	0.300	2	0.2640
530	Be	beryllium	7440-41-7	1556.00	1	2757.00	1	5205.00	2	392.00	2	311.50	2	0.0289	2	0.282	2	0.2274
533	BeB2H8	beryllium borohydride	17440-85-6	dec	1	dec	1	591.45	2	48.77	2	302.50	2	0.1279	2	0.300	2	0.1470
534	BeBr2	beryllium bromide	7787-46-4	781.15	1	793.15	1	1216.86	2	100.34	2	302.50	2	0.5581	2	0.300	2	0.3610
541	BeCl2	beryllium chloride	7787-47-5	688.15	1	755.15	1	1238.03	2	102.09	2	302.50	2	0.2642	2	0.300	2	0.3660
550	BeI2	beryllium iodide	7787-53-3	743.15	1	760.15	1	1238.03	2	102.09	2	302.50	2	0.8688	2	0.300	2	0.3660
562	Bi	bismuth	7440-69-9	544.54	1	1837.15	1	4620.00	2	770.00	2	104.00	2	2.0094	2	0.208	2	-0.2366
564	BiBr3	bismuth tribromide	7787-58-8	491.15	1	726.15	1	1220.00	1	98.60	2	301.00	1	1.4907	1	0.293	1,2	0.2880
576	BiCl3	bismuth trichloride	7787-60-2	503.15	1	720.15	1	1179.00	1	120.00	1	261.00	1	1.2082	1	0.320	1	0.3040
578	BiF3	bismuth fluoride	7787-61-3	998.15	1	1173.15	1	1971.01	2	385.21	2	111.46	2	2.3864	2	0.262	2	---
579	BiF5	bismuth pentafluoride	7787-62-4	427.15	1	503.15	1	470.00	2	57.16	2	187.31	2	1.6228	2	0.274	2	0.5040
584	BiI3	bismuth triiodide	7787-64-6	681.75	1	815.15	1	1404.00	2	112.55	2	271.73	2	2.1702	2	0.262	2	---
599	Bi2O3	bismuth oxide	1304-76-3	1090.15	1	2163.15	1	3367.96	2	448.26	2	163.66	2	2.8471	2	0.262	2	---
626	BrF3	bromine trifluoride	7787-71-5	281.92	1	398.95	1	649.89	2	112.47	2	125.87	2	1.0877	2	0.262	2	---
628	BrF5	bromine pentafluoride	7789-30-2	---	---	313.65	1	492.46	2	66.97	2	160.17	2	1.0919	2	0.262	2	---
633	Br2	bromine	7726-95-6	265.90	1	331.90	1	584.15	1	103.35	1	135.00	1	1.1838	1	0.287	1	0.1189
637	C	carbon (amphorous)	7440-44-0	4300.00	1	---	---	6810.00	2	2230.00	2	18.80	2	0.6389	2	0.074	2	0.3268
638	C	diamond	7782-40-3	4713.15	1	---	---	6810.00	2	2230.00	2	18.80	2	0.6389	2	0.074	2	0.3268
639	C	graphite	7782-42-5	4762.15	1	4098.15	1	6810.00	2	2230.00	2	18.80	2	0.6389	2	0.074	2	0.3268
640	CBr2O	carbonyl bromide	593-95-3	---	---	337.65	1	532.92	2	62.27	2	186.43	2	1.0074	2	0.262	2	---
641	CCl2O	carbonyl chloride	75-44-5	145.37	1	280.71	1	455.00	2	56.74	2	190.22	2	0.5200	2	0.285	2	0.2010
642	CF2O	carbonyl fluoride	353-50-4	159.15	1	190.05	1	297.00	2	57.60	2	141.00	2	0.4681	2	0.329	2	0.2830
644	CH4N2O	urea	57-13-6	405.85	1	465.00	1	705.00	2	90.50	2	218.00	2	0.2755	2	0.337	2	0.6200
645	CH4N2S	thiourea	62-56-6	452.20	1	---	---	854.00	2	82.30	2	248.00	2	0.3069	2	0.287	2	0.3586
646	CNBr	cyanogen bromide	506-68-3	325.15	1	334.65	1	545.03	2	70.08	2	193.99	2	0.5460	2	0.300	2	0.2540
647	CNCl	cyanogen chloride	506-77-4	266.65	1	286.00	1	449.00	2	59.90	2	163.00	2	0.3771	2	0.262	2	0.3200
648	CNF	cyanogen fluoride	1495-50-7	191.15	1	227.15	1	368.51	2	79.00	2	106.26	2	0.4236	2	0.274	2	0.3030
651	CN4O8	tetranitromethane	509-14-8	285.65	1	398.85	1	540.00	2	26.80	2	439.00	2	0.4465	2	0.262	2	0.7051
652	CO	carbon monoxide	630-08-0	68.15	1	81.70	1	132.92	1	34.99	1	93.10	1	1.4649	1	0.295	1	0.0663
653	COS	carbonyl sulfide	463-58-1	134.31	1	223.00	1	378.80	1	63.49	1	135.10	1	0.4447	1	0.272	1	0.0970
654	COSe	carbon oxyselenide	1603-84-5	148.75	1	---	---	406.58	2	86.30	2	107.32	2	0.9967	2	0.274	2	0.3380
655	CO2	carbon dioxide	124-38-9	216.58	1	194.70	1	304.19	1	73.82	1	94.00	1	0.4682	1	0.274	1	0.2276
656	CS2	carbon disulfide	75-15-0	161.05	1	319.15	1	552.00	1	79.00	1	160.00	1	0.4759	1	0.275	1	0.1107

Table 2 Critical Properties and Acentric Factor - Inorganic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
661	C2N2	cyanogen	460-19-5	245.32	1	252.05	1	399.90	2	63.03	2	144.52	2	0.3601	2	0.274	2	0.3120
663	C3O2	carbon suboxide	504-64-3	161.85	1	279.95	1	431.80	2	51.19	2	183.75	2	0.3702	2	0.262	2	---
675	Ca	calcium	7440-70-2	1115.00	1	1757.00	1	3267.00	2	153.00	2	517.10	2	0.0775	2	0.291	2	0.1167
713	CaCl2	calcium chloride	10043-52-4	1045.00	1	2208.60	1	3620.00	2	---	---	---	---	---	---	---	---	---
728	CaF2	calcium fluoride	7789-75-5	1691.00	1	2806.50	1	4570.85	2	376.91	2	302.50	2	0.2581	2	0.300	2	0.7520
752	CaO	calcium oxide	1305-78-8	3173.20	1	3670.00	1	6020.00	2	---	---	---	---	---	---	---	---	---
776	Cd	cadmium	7440-43-9	594.22	1	1040.15	1	2291.00	2	861.70	2	37.90	2	2.9660	2	0.171	2	0.0500
791	CdCl2	cadmium chloride	10108-64-2	837.15	1	1233.15	1	2019.79	2	166.55	2	302.50	2	0.6060	2	0.300	2	0.5110
798	CdF2	cadmium fluoride	7790-79-6	1383.15	1	2021.15	1	3296.66	2	271.84	2	302.50	2	0.4972	2	0.300	2	0.6560
804	CdI2	cadmium iodide	7790-80-9	660.15	1	1015.15	1	1741.29	2	143.59	2	302.50	2	1.2106	2	0.300	2	0.4670
809	CdO	cadmium oxide	1306-19-0	---	---	1832.15	1	2983.96	2	246.06	2	302.50	2	0.4245	2	0.300	2	0.6260
830	Ce	cerium	7440-45-1	1071.15	1	3716.15	1	11993.80	2	---	---	---	---	---	---	---	---	---
891	ClF	chlorine monofluoride	7790-89-8	117.55	1	172.05	1	282.32	2	79.01	2	81.39	2	0.6690	2	0.274	2	0.2760
892	ClFO3	perchloryl fluoride	7616-94-6	125.41	1	226.49	1	368.40	1	53.70	1	161.00	1	0.6363	1	0.282	1	0.1726
893	ClF3	chlorine trifluoride	7790-91-2	196.81	1	284.90	1	368.40	2	53.70	2	161.00	2	0.5742	2	0.282	2	0.1730
894	ClF5	chlorine pentafluoride	13637-63-3	170.15	1	260.05	1	416.00	1	52.70	1	233.00	1	0.5598	1	0.355	1,2	0.3160
896	ClNO2	nitryl chloride	13444-90-1	128.15	1	258.15	1	394.96	2	60.07	2	143.22	2	0.5688	2	0.262	2	---
898	ClO2	chlorine dioxide	10049-04-4	213.55	1	284.05	1	465.00	1	86.13	1	97.83	2	0.6895	2	0.218	2	0.3564
899	Cl2	chlorine	7782-50-5	172.12	1	239.12	1	417.15	1	77.11	1	123.75	1	0.5730	1	0.275	1	0.0690
900	Cl2O	chlorine monoxide	7791-21-1	152.55	1	275.35	1	444.68	2	74.94	2	135.16	2	0.6430	2	0.274	2	0.3030
903	Cl2O5S2	pyrosulfuryl chloride	7791-27-7	---	---	419.15	1	586.25	2	34.94	2	365.45	2	0.5884	2	0.262	2	---
905	Cl2O7	chlorine heptoxide	10294-48-1	181.65	1	355.15	1	565.78	2	50.90	2	253.23	2	0.7223	2	0.274	2	0.2000
916	Co	cobalt	7440-48-4	1768.15	1	3200.15	1	7398.48	2	5148.70	2	35.84	2	1.6443	2	0.300	2	---
968	CoCl2	cobalt chloride	7646-79-9	1013.15	1	1322.15	1	2154.97	2	177.70	2	302.50	2	0.4292	2	0.300	2	0.5300
1002	CoNC3O4	cobalt nitrosyl tricarbonyl	14096-82-3	262.15	1	320.00	1	567.68	2	47.43	2	298.56	2	0.5793	2	0.300	2	0.1780
1035	Cr	chromium	7440-47-3	2180.15	1	2944.15	1	8560.93	2	5784.10	2	36.92	2	1.4083	2	0.300	2	---
1049	CrC6O6	chromium carbonyl	13007-92-6	427.65	1	dec	1	690.80	2	56.96	2	302.50	2	0.7275	2	0.300	2	0.1930
1099	CrO2Cl2	chromium oxychloride	14977-61-8	176.65	1	390.15	1	626.33	2	59.99	2	237.81	2	0.6514	2	0.274	2	0.2560
1124	Cs	cesium	7440-46-2	301.65	1	944.15	1	1938.00	1	94.00	1	341.00	1	0.3898	1	0.199	1	---
1128	CsBr	cesium bromide	7787-69-1	909.15	1	1573.15	1	2562.13	2	211.27	2	302.50	2	0.7035	2	0.300	2	0.5810
1137	CsCl	cesium chloride	7647-17-8	918.15	1	1570.15	1	2562.13	2	211.27	2	302.50	2	0.5566	2	0.300	2	0.5810
1140	CsF	cesium fluoride	13400-13-0	956.15	1	1524.15	1	2482.33	2	204.69	2	302.50	2	0.5022	2	0.300	2	0.5720
1144	CsI	cesium iodide	7789-17-5	894.15	1	1553.15	1	2529.56	2	208.59	2	302.50	2	0.8589	2	0.300	2	0.5770
1169	Cu	copper	7440-50-8	1357.77	1	2835.15	1	5123.00	2	6415.50	2	61.00	2	1.0417	2	0.919	2	---
1173	CuBr	cuprous bromide	7787-70-4	770.15	1	1618.15	1	2651.71	2	218.66	2	302.50	2	0.4742	2	0.300	2	0.5910
1229	CuCl	cuprous chloride	7758-89-6	703.00	1	1763.15	1	2435.00	2	236.79	2	256.51	2	0.3859	2	0.300	2	1.6640
1230	CuCl2	cupric chloride	7447-39-4	906.15	1	1266.15	1	2010.00	2	170.04	2	294.85	2	0.4560	2	0.300	2	0.6230
1255	CuI	copper iodide	7681-65-4	879.15	1	1609.15	1	2620.77	2	216.11	2	302.50	2	0.6296	2	0.300	2	0.5880
1298	DCN	deuterium cyanide	3017-23-0	---	---	---	---	482.63	2	113.56	2	96.81	2	0.2896	2	0.274	2	0.4350
1302	D2	deuterium	7782-39-0	18.73	1	23.65	1	38.35	1	16.64	1	60.26	1	0.0668	1	0.314	1	-0.1449
1303	D2O	deuterium oxide	7789-20-0	276.96	1	374.55	1	643.89	1	219.41	1	56.30	1	0.3557	1	0.231	1	0.3677
1307	Dy	dysprosium	7429-91-6	1685.15	1	2840.15	1	8561.50	2	---	---	---	---	---	---	---	---	---
1332	Er	erbium	7440-52-0	1802.15	1	3141.15	1	9714.25	2	---	---	---	---	---	---	---	---	---
1369	Eu	europium	7440-53-1	1095.15	1	1802.15	1	5150.00	2	3547.90	2	36.21	2	4.1967	2	0.300	2	---
1404	FHO3S	fluorosulfonic acid	7789-21-1	184.17	1	436.00	1	715.00	2	84.17	2	180.00	2	0.5559	2	0.262	2	---
1406	FNO	nitrosyl fluoride	7789-25-5	140.65	1	213.25	1	352.67	2	112.78	2	71.24	2	0.6879	2	0.274	2	0.4050
1407	FNO2	nitryl fluoride	10022-50-1	107.15	1	200.75	1	349.50	1	61.16	2	109.82	2	0.5919	2	0.262	2	---
1408	FNO3	fluorine nitrate	7789-26-6	98.15	1	227.15	1	337.90	2	55.74	2	132.06	2	0.6134	2	0.262	2	---
1409	F2	fluorine	7782-41-4	53.54	1	84.95	1	144.12	1	51.72	1	66.54	1	0.5710	1	0.287	1	0.0530
1412	F2O	fluorine oxide	7783-41-7	49.35	1	128.40	1	215.00	1	49.50	2	97.60	2	0.5532	2	0.270	1,2	0.0750
1413	F2O2	difluorine dioxide	7783-44-0	119.15	1	216.15	1	338.24	2	71.00	2	103.77	2	0.6745	2	0.262	2	---
1420	Fe	iron	7439-89-6	1811.00	1	3133.35	1	9340.00	2	10150.00	2	28.00	2	1.9945	2	0.366	2	-0.0106
1434	FeC5O5	iron pentacarbonyl	13463-40-6	253.15	1	376.15	1	607.20	2	35.24	2	392.52	2	0.4991	2	0.274	2	0.0910
1502	FeCl2	ferrous chloride	7758-94-3	950.00	1	1297.00	1	2010.00	2	87.20	2	302.50	2	0.4190	2	0.158	2	0.5271
1505	FeCl3	ferric chloride	7705-08-0	577.00	1	592.15	1	948.15	2	43.00	2	302.50	2	0.5362	2	0.165	2	0.1741
1574	Fr	francium	7440-73-5	300.15	1	946.15	1	1606.46	2	1790.20	2	22.38	2	9.9643	2	0.300	2	0.6820
1575	Ga	gallium	7440-55-3	302.91	1	2477.15	1	7620.00	2	5126.30	2	75.30	2	0.9259	2	0.609	2	---
1577	GaBr3	gallium (iii) bromide	13450-88-9	394.65	1	552.15	1	806.70	1	---	---	303.00	1	1.0212	1	---	---	---
1578	GaC3H9	gallium, trimethyl	1445-79-0	---	---	---	---	510.00	2	40.40	2	211.00	2	0.5442	2	0.201	2	0.2077
1584	GaCl2	gallium (ii) chloride	24597-12-4	445.55	1	808.15	1	1216.16	2	---	---	---	---	---	---	---	---	---
1585	GaCl3	gallium trichloride	13450-90-3	350.90	1	474.15	1	694.00	1	38.20	2	263.00	1	0.6695	1	0.174	1,2	0.4577
1593	GaI3	gallium (iii) iodide	13450-91-4	485.15	1	613.15	1	951.00	1	---	---	395.00	1	1.1403	1	---	---	---
1610	Gd	gadolinium	7440-54-2	1586.15	1	3546.15	1	11309.81	2	---	---	---	---	---	---	---	---	---
1637	Ge	germanium	7440-56-4	1210.40	1	3100.00	1	9803.00	2	6511.00	2	45.00	2	1.6136	2	0.359	2	-0.0715
1639	GeBr4	germanium bromide	13450-92-5	299.25	1	459.50	1	718.00	1	44.17	2	392.00	1	1.0006	1	0.290	1,2	0.1690
1640	GeCH6	germane, methyl	1449-65-6	115.15	1	250.15	1	392.94	2	48.68	2	175.84	2	0.5156	2	0.262	2	---
1660	GeCl3F	germane, trichlorofluoro	24422-20-6	223.35	1	310.65	1	473.51	2	37.62	2	274.16	2	0.7221	2	0.262	2	---
1661	GeCl4	germanium chloride	10038-98-9	221.65	1	359.70	1	553.20	1	38.61	1	330.00	1	0.6498	1	0.277	1	0.1230
1663	GeF2Cl2	germane, dichlorodifluoro	24422-21-7	221.35	1	270.35	1	413.69	2	37.97	2	237.32	2	0.7648	2	0.262	2	---
1664	GeF3Cl	germane, chlorotrifluoro	14188-40-0	206.95	1	252.85	1	388.45	2	42.00	2	201.45	2	0.8193	2	0.262	2	---
1665	GeF4	germanium (iv) fluoride	7783-58-6	258.15	1	236.65	1	365.04	2	47.75	2	166.52	2	0.8924	2	0.262	2	---
1668	GeHCl3	germane, trichloro	1184-65-2	202.15	1	348.45	1	559.78	2	46.21	2	275.96	2	0.6522	2	0.274	2	0.1700
1669	GeH2Br2	germane, dibromo	13769-36-3	258.15	1	362.15	1	563.33	2	57.28	2	214.24	2	1.0943	2	0.262	2	---
1670	GeH2Cl2	germane, dichloro	15230-48-5	205.15	1	342.65	1	535.61	2	54.30	2	214.85	2	0.6774	2	0.262	2	---
1671	GeH3Br	germane, bromo	13569-43-2	241.15	1	325.15	1	515.20	2	66.61	2	168.47	2	0.9232	2	0.262	2	---
1672	GeH3Cl	germane, chloro	13637-65-5	221.15	1	301.15	1	478.44	2	61.75	2	168.77	2	0.6582	2	0.262	2	---
1675	GeH4	germane	7782-65-2	107.26	1	185.00	1	312.20	1	49.50	1	147.00	1	0.5214	1	0.280	1	0.1506
1677	GeI4	germanium (iv) iodide	13450-95-8	417.15	1	650.15	1	973.00	1	56.59	2	500.00	1	1.1605	1	0.262	2	---
1686	Ge2H6	digermane	13818-89-8	164.15	1	303.95	1	491.01	2	46.67	2	239.68	2	0.6311	2	0.274	2	0.1650
1687	Ge3H8	trigermane	14691-44-2	167.55	1	383.65	1	616.37	2	47.05	2	298.44	2	0.7569	2	0.274	2	0.1800

Table 2 Critical Properties and Acentric Factor - Inorganic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
1691	HBr	hydrogen bromide	10035-10-6	186.34	1	206.45	1	363.15	1	85.52	1	100.26	2	0.8070	2	0.284	1,2	0.0693
1694	HCN	hydrogen cyanide	74-90-8	259.86	1	299.15	1	456.65	1	53.91	1	138.59	1	0.1950	1	0.197	2	0.4100
1695	HCl	hydrogen chloride	7647-01-0	158.97	1	188.15	1	324.65	1	83.10	1	81.00	1	0.4501	1	0.249	1	0.1315
1696	HClO3S	chlorosulfonic acid	7790-94-5	193.15	1	427.00	1	700.00	2	85.00	2	195.00	2	0.5976	2	0.285	2	0.3010
1697	HClO4	perchloric acid	7601-90-3	171.95	1	385.00	1	631.00	2	38.60	2	168.00	2	0.5980	2	0.124	2	0.0498
1698	HF	hydrogen fluoride	7664-39-3	189.79	1	292.67	1	461.15	1	64.80	1	69.00	1	0.2899	1	0.117	1	0.3822
1699	HI	hydrogen iodide	10034-85-2	222.38	1	237.55	1	423.85	1	83.10	1	121.90	1	1.0493	1	0.287	1	0.0381
1702	HNO3	nitric acid	7697-37-2	231.55	1	356.15	1	520.00	2	68.90	2	145.00	2	0.4346	2	0.231	2	0.7144
1709	H2	hydrogen	1333-74-0	13.95	1	20.39	1	33.18	1	13.13	1	64.15	1	0.0314	1	0.305	1	-0.2150
1712	H2O	water	7732-18-5	273.15	1	373.15	1	647.13	1	220.55	1	55.95	1	0.3220	1	0.229	1	0.3449
1713	H2O2	hydrogen peroxide	7722-84-1	272.73	1	423.35	1	730.15	1	217.00	1	77.70	1	0.4378	1	0.278	1	0.3582
1714	H2S	hydrogen sulfide	7783-06-4	187.68	1	212.80	1	373.53	1	89.63	1	98.50	1	0.3460	1	0.284	1	0.0942
1716	H2SO4	sulfuric acid	7664-93-9	283.46	1	610.00	1	924.00	1	64.00	2	177.70	1	0.5519	1	0.148	1,2	0.4940
1718	H2S2	hydrogen disulfide	13465-07-1	183.45	1	343.85	1	542.39	2	88.36	2	139.83	2	0.4731	2	0.274	2	0.3660
1719	H2Se	hydrogen selenide	7783-07-5	207.45	1	231.15	1	411.15	1	89.20	1	120.00	2	0.6748	2	0.313	1,2	0.0542
1721	H2Te	hydrogen telluride	7783-09-7	224.15	1	271.15	1	438.04	2	71.93	2	138.73	2	0.9343	2	0.274	2	0.2890
1722	H3NO	hydroxylamine	7803-49-8	306.25	1	383.00	1	574.00	2	137.00	2	74.64	2	0.4425	2	0.214	2	0.6940
1723	H3PO2	hypophosphorous acid	6303-21-5	299.65	1	403.15	1	627.65	2	89.73	2	152.37	2	0.4331	2	0.262	2	---
1724	H3PO3	phosphorous acid	13598-36-2	347.55	1	473.15	1	711.92	2	88.43	2	175.37	2	0.4676	2	0.262	2	---
1725	H3PO4	phosphoric acid	7664-38-2	315.51	1	680.00	1	1030.00	2	50.70	2	340.00	2	0.2882	2	0.201	2	---
1727	H3SNO3	sulfamic acid	5329-14-6	478.00	1	---	---	---	---	---	---	225.00	2	0.4315	2	---	---	---
1738	He	helium-3	14762-55-1	1.01	1	3.20	1	3.31	1	1.17	1	72.50	1	0.0416	1	0.308	1	-0.4715
1739	He	helium-4	7440-59-7	1.76	1	4.22	1	5.20	1	2.28	1	57.30	1	0.0699	1	0.302	1	-0.3900
1740	Hf	hafnium	7440-58-6	2506.15	1	4876.15	1	16861.98	2	---	---	---	---	---	---	---	---	---
1742	HfBr4	hafnium (iv) bromide	13777-22-5	697.15	1	596.15	1	746.00	1	56.31	2	415.00	1	1.2003	1	0.262	2	---
1755	HfCl4	hafnium (iv) chloride	13499-05-3	705.15	1	590.15	1	725.70	1	54.20	1	314.00	1	1.0201	1	0.262	2	---
1756	HfF4	hafnium fluoride	13709-52-9	---	---	1243.15	1	1578.98	2	232.31	2	148.05	2	1.7189	2	0.262	2	---
1759	HfI4	hafnium (iv) iodide	13777-23-6	722.15	1	667.15	1	916.00	1	49.92	2	528.00	1	1.2994	1	0.262	2	---
1771	Hg	mercury	7439-97-6	234.29	1	629.84	1	1735.00	1	1608.00	1	35.00	2	5.7311	2	0.390	1,2	-0.1644
1773	HgBr2	mercuric bromide	7789-47-1	509.15	1	595.15	1	1012.00	1	79.53	2	302.50	2	1.1914	2	0.286	1,2	0.2920
1774	HgCH3Cl	methylmercury chloride	115-09-3	---	---	443.15	1	741.32	2	125.76	2	128.40	2	1.9554	2	0.262	2	---
1800	HgCl2	mercuric chloride	7487-94-7	549.15	1	577.15	1	973.00	1	77.51	2	302.50	2	0.8975	2	0.290	2	0.2840
1813	HgI2	mercuric iodide	7774-29-0	532.15	1	627.15	1	1072.00	1	100.00	2	268.92	2	1.6897	2	0.302	1,2	0.1890
1829	Hg2Cl2	mercury (i) chloride	10112-91-1	798.15	1	656.15	1	1115.00	2	206.73	2	117.49	2	4.0183	2	0.262	2	---
1841	Ho	holmium	7440-60-0	1747.15	1	2973.15	1	9067.21	2	---	---	---	---	---	---	---	---	---
1868	IF5	iodine pentafluoride	7783-66-6	282.58	1	373.65	1	594.33	2	72.52	2	178.52	2	1.2430	2	0.262	2	---
1869	IF7	iodine heptafluoride	16921-96-3	279.65	1	277.95	1	447.53	2	41.26	2	247.10	2	1.0518	2	0.274	2	0.1220
1873	I2	iodine	7553-56-2	386.75	1	457.56	1	819.15	1	116.54	1	155.00	1	1.6375	1	0.265	1	0.1115
1877	In	indium	7440-74-6	429.75	1	2345.15	1	6730.00	2	2432.00	2	82.60	2	1.3900	2	0.359	2	---
1917	Ir	iridium	7439-88-5	2719.15	1	4701.15	1	15035.00	2	72356.00	2	5.18	2	37.1075	2	0.300	2	---
1960	K	potassium	7440-09-7	336.35	1	1031.00	1	2223.00	1	160.00	1	209.00	1	0.1871	1	0.181	1	-0.2028
1972	KBr	potassium bromide	7758-02-3	1007.00	1	1653.15	1	3520.00	2	115.52	2	314.00	2	0.3790	2	0.124	2	0.5960
2009	KCl	potassium chloride	7447-40-7	1044.00	1	1689.00	1	3470.00	2	180.00	2	625.00	2	0.1193	2	0.390	2	-0.1212
2018	KF	potassium fluoride	7789-23-3	1131.15	1	1775.15	1	2891.12	2	238.40	2	302.50	2	0.1921	2	0.300	2	0.6170
2035	KI	potassium iodide	7681-11-0	954.00	1	1618.00	1	3610.00	2	97.30	2	660.00	2	0.2515	2	0.214	2	-0.4198
2047	KOH	potassium hydroxide	1310-58-3	679.00	1	1600.00	1	2624.00	2	214.88	2	302.50	2	0.1855	2	0.298	2	0.5860
2162	Kr	krypton	7439-90-9	115.78	1	119.80	1	209.35	1	55.02	1	91.20	1	0.9189	1	0.288	1	---
2168	La	lanthanum	7439-91-0	1191.15	1	3737.15	1	9511.00	2	5460.00	2	36.50	2	3.8056	2	0.252	2	---
2203	Li	lithium	7439-93-2	453.69	1	1615.00	1	2966.00	2	217.87	2	329.70	2	0.0211	2	0.291	2	-0.0556
2213	LiBr	lithium bromide	7550-35-8	820.15	1	1583.15	1	2578.42	2	212.62	2	302.50	2	0.2871	2	0.300	2	0.5830
2253	LiCl	lithium chloride	7447-41-8	883.15	1	1656.15	1	2695.68	2	222.29	2	302.50	2	0.1401	2	0.300	2	0.5960
2261	LiF	lithium fluoride	7789-24-4	1121.35	1	1946.15	1	3182.65	2	262.44	2	302.50	2	0.0858	2	0.300	2	0.6450
2270	LiI	lithium iodide	10377-51-2	742.00	1	1447.00	1	2370.00	2	170.00	2	302.50	2	0.4425	2	0.261	2	0.4570
2316	Lu	lutetium	7439-94-3	1936.15	1	3675.15	1	4128.66	2	5162.90	2	19.95	2	8.7703	2	0.300	2	---
2335	Mg	magnesium	7439-95-4	923.15	1	1363.15	1	2241.04	2	2802.40	2	19.95	2	1.2183	2	0.300	2	---
2392	MgCl2	magnesium chloride	7786-30-3	987.15	1	1685.15	1	2754.32	2	227.12	2	302.50	2	0.3147	2	0.300	2	0.6020
2427	MgN2O6	magnesium nitrate	10377-60-3	363.05	1	603.15	1	989.00	2	---	---	---	---	---	---	---	---	---
2429	MgO	magnesium oxide	1309-48-4	3105.00	1	3873.20	1	5950.00	2	33.91	2	209.50	2	0.1924	2	0.014	2	0.2137
2464	Mn	manganese	7439-96-5	1519.15	1	2334.15	1	6902.82	2	4871.70	2	35.34	2	1.5546	2	0.300	2	---
2495	MnCl2	manganese (ii) chloride	7773-01-5	923.15	1	1463.15	1	2382.98	2	196.50	2	302.50	2	0.4160	2	0.300	2	0.5600
2548	Mo	molybdenum	7439-98-7	2896.15	1	4912.15	1	9620.00	2	10349.00	2	38.30	2	2.5050	2	0.496	2	0.9240
2555	MoC6O6	molybdenum hexacarbonyl	13939-06-5	dec	1	974.15	1	1308.72	2	54.43	2	523.74	2	0.5041	2	0.262	2	---
2567	MoCl5	molybdenum (v) chloride	10241-05-1	467.15	1	541.15	1	850.00	1	47.20	2	369.00	1	0.7404	1	0.262	2	---
2572	MoF5	molybdenum (v) fluoride	13819-84-6	340.15	1	486.75	1	772.50	2	84.67	2	198.74	2	0.9607	2	0.262	2	---
2573	MoF6	molybdenum fluoride	7783-77-9	290.65	1	307.15	1	473.00	1	47.50	1	226.00	1	0.9289	1	0.273	1	0.1890
2582	MoOF4	molybdenum (vi) oxytetrafluoride	14459-59-7	371.15	1	459.15	1	712.86	2	75.94	2	204.47	2	0.9191	2	0.262	2	---
2585	MoO3	molybdenum oxide	1313-27-5	1074.15	1	1428.15	1	2319.46	2	191.26	2	302.50	2	0.4758	2	0.300	2	0.5520
2607	NClO	nitrosyl chloride	2696-92-6	213.55	1	267.77	1	440.65	2	91.20	1	139.00	1	0.4709	1	0.346	1,2	0.3005
2608	NCl3	nitrogen trichloride	10025-85-1	246.15	1	344.15	1	564.00	2	104.00	2	206.90	2	0.5818	2	0.459	2	0.1990
2610	ND3	heavy ammonia	---	197.15	1	240.15	1	388.40	2	125.71	2	70.38	2	0.2849	2	0.274	2	0.4470
2613	NF3	nitrogen trifluoride	7783-54-2	66.46	1	144.09	1	234.00	1	44.61	1	118.75	1	0.5979	1	0.272	1	0.1200
2616	NHF2	difluoramine	10405-27-3	---	---	250.15	1	403.00	1	99.51	2	89.06	2	0.5952	2	0.262	2	---
2619	NH3	ammonia	7664-41-7	195.41	1	239.72	1	405.65	1	112.80	1	72.47	1	0.2350	1	0.242	1	0.2526
2625	NH4Br	ammonium bromide	12124-97-9	dec	1	669.15	1	1089.82	2	17.94	2	1515.30	2	0.0646	2	0.300	2	---
2627	NH4Cl	ammonium chloride	12125-02-9	793.20	1	612.00	1	882.00	1	16.40	1	1341.50	2	0.0399	2	0.300	2	3.9200
2634	NH4I	ammonium iodide	12027-06-4	dec	1	678.15	1	1104.32	2	18.18	2	1515.30	2	0.0957	2	0.300	2	---
2645	NH5S	ammonium hydrogensulfide	12124-99-1	391.15	1	---	---	499.10	2	8.22	2	1515.30	2	0.0337	2	0.300	2	---
2674	NO	nitric oxide	10102-43-9	112.15	1	121.38	1	180.15	1	64.80	1	58.00	1	0.5173	1	0.251	1	0.5829
2675	NOF3	trifluoramine oxide	13847-65-9	112.15	1	185.65	1	303.00	1	64.30	1	147.00	1	0.5918	1	0.262	2	---
2676	NO2	nitrogen dioxide	10102-44-0	261.90	1	294.15	1	431.15	1	101.33	1	82.49	1	0.5577	1	0.233	1	0.8511

Table 2 Critical Properties and Acentric Factor - Inorganic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
2678	N2	nitrogen	7727-37-9	63.15	1	77.34	1	126.20	1	34.60	1	89.21	1	0.3140	1	0.294	1	0.0377
2682	N2F2	cis-difluorodiazine	13812-43-6	---	---	167.40	1	272.00	1	70.90	1	105.23	2	0.6273	2	0.262	2	---
2683	N2F2	trans-difluorodiazine	13776-62-0	101.15	1	161.70	1	260.00	1	55.70	1	105.23	2	0.6273	2	0.262	2	---
2684	N2F4	tetrafluorohydrazine	10036-47-2	111.65	1	198.95	1	309.35	1	37.10	1	213.00	2	0.4883	2	0.307	1,2	0.2233
2685	N2H4	hydrazine	302-01-2	274.69	1	386.65	1	653.15	1	147.00	1	158.00	2	0.2028	2	0.428	1,2	0.3142
2686	N2H4C	ammonium cyanide	12211-52-8	309.15	1	304.85	1	491.32	2	109.47	2	102.24	2	0.4309	2	0.274	2	0.4250
2699	N2H6CO2	ammonium carbamate	1111-78-0	---	---	---	---	539.82	2	44.51	2	302.50	2	0.2581	2	0.300	2	0.1200
2701	N2H6O	hydrazine hydrate	7803-57-8	221.45	1	392.15	1	595.60	2	97.79	2	132.67	2	0.3773	2	0.262	2	---
2747	N2O	nitrous oxide	10024-97-2	182.33	1	184.67	1	309.57	1	72.45	1	97.40	1	0.4519	1	0.274	1	0.1408
2748	N2O3	nitrogen trioxide	10544-73-7	170.00	1	275.15	1	425.00	2	69.90	2	195.00	2	0.3898	2	0.386	2	0.4312
2749	N2O4	nitrogen tetraoxide	10544-72-6	261.90	1	294.31	1	431.15	1	101.33	1	82.49	2	1.1154	2	0.233	1,2	0.8533
2750	N2O5	nitrogen pentoxide	10102-03-1	314.15	1	306.15	1	515.51	2	64.33	2	182.56	2	0.5916	2	0.274	2	0.2660
2781	Na	sodium	7440-23-5	370.95	1	1156.00	1	2573.00	1	354.64	1	116.00	1	0.1982	1	0.192	1	-0.1055
2800	NaBr	sodium bromide	7647-15-6	1020.00	1	1663.82	1	4287.00	2	192.52	2	398.00	2	0.2585	2	0.215	2	-0.7998
2810	NaCN	sodium cyanide	143-33-9	836.85	1	1769.15	1	2900.00	2	237.60	2	304.46	2	0.1610	2	0.300	2	0.5890
2855	NaCl	sodium chloride	7647-14-5	1074.00	1	1738.20	1	3400.00	2	355.00	2	266.00	2	0.2197	2	0.334	2	0.1894
2856	NaClH2O5	sodium perchlorate monohydrate	7791-07-3	dec	1	---	---	3400.00	2	355.00	2	266.00	2	0.5280	2	0.334	2	0.1340
2864	NaF	sodium fluoride	7681-49-4	1269.00	1	1982.72	1	5530.00	2	531.96	2	185.00	2	0.2270	2	0.214	2	-1.1147
2888	NaI	sodium iodide	7681-82-5	933.00	1	1577.00	1	3950.00	2	139.00	2	505.00	2	0.2968	2	0.214	2	-0.5750
2894	NaNO3	sodium nitrate	7631-99-4	580.15	1	653.15	1	1321.00	2	---	---	---	---	---	---	---	---	---
2897	NaOH	sodium hydroxide	1310-73-2	596.00	1	1830.00	1	2820.00	2	250.00	2	200.00	2	0.2000	2	0.213	2	0.4770
2909	Na2B4H20O17	sodium tetraborate decahydrate	1303-96-4	334.15	1	1848.15	1	3030.00	2	---	---	---	---	---	---	---	---	---
3019	Nb	niobium	7440-03-1	2750.15	1	5017.15	1	17904.10	2	10418.00	2	42.87	2	2.1672	2	0.300	2	---
3024	NbBr5	niobium (v) bromide	13478-45-0	527.15	1	633.15	1	954.75	2	46.15	2	450.62	2	1.0928	2	0.262	2	---
3025	NbC	niobium carbide	12069-94-2	3881.15	1	4573.15	1	7689.49	2	818.86	2	204.55	2	0.5129	2	0.262	2	---
3034	NbCl5	niobium (v) chloride	10026-12-7	477.85	1	527.15	1	803.50	1	48.80	1	397.00	1	0.6805	1	0.262	2	---
3037	NbF5	niobium (v) fluoride	7783-68-8	353.15	1	502.15	1	737.00	1	62.80	1	155.00	1	1.2122	1	0.159	2	0.2410
3057	Nd	neodymium	7440-00-8	1294.15	1	3347.15	1	10665.10	2	6892.10	2	38.60	2	3.7368	2	0.300	2	---
3091	Ne	neon	7440-01-9	24.55	1	27.09	1	44.40	1	26.53	1	41.70	1	0.4839	1	0.300	1	-0.0395
3092	Ni	nickel	7440-02-0	1728.15	1	3186.15	1	6986.15	2	4918.50	2	35.43	2	1.6566	2	0.300	2	---
3105	NiC4O4	nickel carbonyl	13463-39-3	253.85	1	315.65	1	508.40	2	32.39	2	357.53	2	0.4775	2	0.274	2	0.0560
3139	NiF2	nickel fluoride	10028-18-9	1723.15	1	---	---	3278.75	2	270.37	2	302.50	2	0.3196	2	0.300	2	0.6540
3198	O2	oxygen	7782-44-7	54.36	1	90.19	1	154.58	1	50.43	1	73.40	1	0.4360	1	0.288	1	0.0222
3199	O3	ozone	10028-15-6	80.15	1	161.85	1	261.00	1	55.70	1	89.00	1	0.5393	1	0.228	1	0.2119
3200	Os	osmium	7440-04-2	3306.15	1	5285.15	1	16878.70	2	9938.90	2	42.36	2	4.4908	2	0.300	2	---
3210	OsCl4	osmium (iv) chloride	10026-01-4	---	---	723.15	1	1357.65	2	---	---	---	---	---	---	---	---	---
3213	OsF5	osmium (v) fluoride	31576-40-6	343.15	1	499.05	1	939.36	2	---	---	---	---	---	---	---	---	---
3214	OsF6	osmium (vi) fluoride	13768-38-2	306.35	1	320.65	1	581.16	2	---	---	---	---	---	---	---	---	---
3222	OsO4	osmium tetroxide	20816-12-0	314.15	1	408.15	1	678.00	1	54.14	2	302.50	2	0.8404	2	0.291	1,2	0.1780
3223	OsOF5	osmium oxide pentafluoride	---	---	---	---	---	608.55	2	50.18	2	302.50	2	0.9958	2	0.300	2	0.1550
3234	P	phosphorus (white)	7723-14-0	317.30	1	553.65	1	994.00	1	83.29	1	297.62	1	0.1041	1	0.300	1,2	0.0320
3235	P	phosphorus (red)	7723-14-0	870.15	1	704.15	1	994.00	1	83.29	1	297.62	1	0.1041	1	0.300	1,2	0.0320
3236	P	phosphorus (black)	7723-14-0	883.15	1	---	---	994.00	1	83.29	1	297.62	1	0.1041	1	0.300	1,2	0.0320
3238	PBr3	phosphorus tribromide	7789-60-8	233.15	1	446.10	1	711.00	1	53.99	2	300.00	1	0.9023	1	0.274	1,2	0.2640
3252	PC3H9O4	phosphate, trimethyl	512-56-1	---	---	---	---	729.00	2	83.70	2	277.00	2	0.5057	2	0.383	2	0.4892
3280	PC6H15O4	phosphate, triethyl	78-40-0	---	---	---	---	757.00	2	68.40	2	586.00	2	0.3108	2	0.637	2	0.4144
3378	PClF2	phosphorus (iii) chloride difluoride	14335-40-1	---	---	225.90	1	362.40	1	45.20	1	172.90	2	0.6039	2	0.262	2	---
3379	PCl2F	phosphorus (iii) dichloride fluoride	15597-63-4	---	---	287.15	1	463.00	1	49.60	1	208.00	2	0.5811	2	0.262	2	---
3380	PCl2F3	phosphorus (v) dichloride trifluoride	13454-99-4	148.15	1	280.25	1	457.02	2	40.48	2	257.17	2	0.6178	2	0.274	2	0.1180
3381	PCl3	phosphorus (iii) chloride	7719-12-2	181.15	1	349.25	1	563.15	1	56.70	2	260.00	1	0.5282	1	0.315	1,2	0.2344
3382	PCl5	phosphorus pentachloride	10026-13-8	433.15	1	433.00	1	646.15	1	58.15	2	277.16	2	0.7513	2	0.300	1,2	0.5310
3384	PF3	phosphorus (iii) fluoride	7783-55-3	121.65	1	171.65	1	271.20	1	43.30	1	138.73	2	0.6341	2	0.262	2	---
3387	PF5	phosphorus (v) fluoride	7647-19-0	179.35	1	188.55	1	296.31	2	37.23	2	173.38	2	0.7265	2	0.262	2	---
3389	PH3	phosphine	7803-51-2	139.37	1	185.41	1	324.75	1	65.40	1	155.95	1	0.2180	1	0.378	1	0.0452
3390	PH4Br	phosphonium bromide	---	---	---	---	---	501.76	2	62.26	2	183.57	2	0.6260	2	0.274	2	0.2540
3391	PH4Cl	phosphonium chloride	24567-53-1	---	---	---	---	322.30	1	73.70	1	149.42	2	0.4715	2	0.411	1,2	---
3392	PH4I	phosphonium iodide	12125-09-6	291.65	1	335.65	1	539.70	2	77.61	2	158.40	2	1.0222	2	0.274	2	0.3260
3395	POBr3	phosphorus (v) oxybromide	7789-59-5	329.15	1	464.85	1	712.70	2	57.99	2	267.73	2	1.0708	2	0.262	2	---
3396	POCl3	phosphorus oxychloride	10025-87-3	274.33	1	378.65	1	602.15	1	34.40	2	201.00	2	0.7628	2	0.138	1,2	0.0832
3397	PSBr3	phosphorus thiobromide	3931-89-3	---	---	---	---	729.89	2	60.19	2	302.50	2	1.0008	2	0.300	2	0.2090
3398	PSCl3	phosphorus thiochloride	3982-91-0	236.95	1	398.15	1	638.82	2	48.57	2	299.58	2	0.5655	2	0.274	2	0.1920
3399	PSClF2	phosphorus (v) sulfide chloride difluoride	2524-02-9	118.15	1	279.45	1	439.20	1	41.40	1	230.05	2	0.5933	2	0.262	2	---
3400	PSF3	phosphorus (v) sulfide trifluoride	2404-52-6	124.35	1	220.90	1	346.00	1	38.20	1	194.38	2	0.6175	2	0.262	2	---
3443	P2Cl4	phosphorous chloride	13497-91-1	245.15	1	453.15	1	696.14	2	40.59	2	373.56	2	0.5454	2	0.262	2	---
3444	P2F4	phosphorous difluoride	13824-74-3	186.65	1	266.95	1	417.00	2	40.94	2	221.89	2	0.6217	2	0.262	2	---
3448	P2O3	phosphorus trioxide	1314-24-5	296.95	1	446.15	1	667.60	2	65.77	2	221.12	2	0.4972	2	0.262	2	---
3449	P2O5	phosphorus pentoxide	1314-56-3	693.15	1	878.15	1	1245.86	2	100.51	2	270.02	2	0.5257	2	0.262	2	---
3450	P2S3	phosphorus (iii) sulfide	12165-69-4	563.15	1	763.15	1	1224.35	2	81.55	2	327.02	2	0.4836	2	0.262	2	---
3451	P2S5	phosphorus (v) sulfide	1314-80-3	561.15	1	787.15	1	1291.00	2	232.00	2	138.81	2	1.6013	2	0.300	2	0.5936
3461	P4O6	phosphorous (iii) oxide	12440-00-5	296.95	1	446.15	1	714.86	2	52.08	2	312.69	2	0.7032	2	0.274	2	0.2180
3462	P4S3	phosphorus sesquisulfide	1314-85-8	445.15	1	680.95	1	1043.94	2	47.34	2	480.31	2	0.4582	2	0.262	2	---
3465	P4S6	tetraphosphorus hexasulfide	131105-01-6	563.15	1	763.15	1	1130.96	2	35.11	2	701.64	2	0.4508	2	0.262	2	---
3466	P4S7	phosphorus heptasulfide	12037-82-0	581.15	1	796.15	1	1167.97	2	32.53	2	781.99	2	0.4455	2	0.262	2	---
3468	P4Se3	phosphorous triselinide	1314-86-9	518.15	1	653.15	1	986.59	2	42.07	2	510.87	2	0.7062	2	0.262	2	---
3483	Pb	lead	7439-92-1	600.61	1	2022.15	1	5400.00	2	861.30	2	93.20	2	2.2232	2	0.179	2	---
3487	PbBr2	lead bromide	10031-22-8	644.15	1	1165.15	1	1933.47	2	159.43	2	302.50	2	1.2132	2	0.300	2	0.4980
3504	PbC8H20	tetraethyl lead	78-00-2	---	---	---	---	655.00	2	21.25	2	636.10	2	0.5085	2	0.248	2	0.4783
3514	PbCl2	lead chloride	7758-95-4	774.15	1	1224.15	1	1998.62	2	164.81	2	302.50	2	0.9194	2	0.300	2	0.5070
3521	PbF2	lead fluoride	7783-46-2	1103.15	1	1566.15	1	2550.73	2	210.33	2	302.50	2	0.8106	2	0.300	2	0.5800
3530	PbI2	lead iodide	10101-63-0	675.15	1	dec	1	1865.07	2	153.79	2	302.50	2	1.5240	2	0.300	2	0.4870

Table 2 Critical Properties and Acentric Factor - Inorganic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_c, K	code	P_c, bar	code	V_c, ml/mol	code	rho_c, g/ml	code	Z_c	code	omega
3537	PbO	lead oxide	1317-36-8	1161.15	1	1747.15	1	2842.26	2	234.37	2	302.50	2	0.7378	2	0.300	2	0.6120
3545	PbS	lead sulfide	1314-87-0	1387.15	1	1554.15	1	2531.19	2	208.72	2	302.50	2	0.7910	2	0.300	2	0.5770
3571	Pd	palladium	7440-05-3	1828.05	1	3236.15	1	10669.10	2	6894.10	2	38.60	2	2.7570	2	0.300	2	---
3637	Pm	promethium	7440-12-2	1315.15	1	3273.15	1	10228.86	2	---	---	---	---	---	---	---	---	---
3641	Po	polonium	7440-08-6	527.15	1	1235.15	1	3013.08	2	2515.30	2	29.88	2	6.9941	2	0.300	2	0.0110
3650	Pr	praseodymium	7440-10-0	1204.15	1	3793.15	1	12306.26	2	---	---	---	---	---	---	---	---	---
3691	Pt	platinum	7440-06-4	2041.55	1	4098.15	1	6983.00	2	8105.90	2	759.10	2	0.2570	2	10.599	2	---
3756	Pu	plutonium	7440-07-5	913.15	1	3501.15	1	11130.13	2	---	---	---	---	---	---	---	---	---
3773	Ra	radium	7440-14-4	973.15	1	1799.15	1	4862.82	2	3684.30	2	32.92	2	6.8651	2	0.300	2	---
3781	Rb	rubidium	7440-17-7	312.45	1	961.15	1	2093.00	2	160.00	2	247.00	2	0.3460	2	0.227	2	---
3786	RbBr	rubidium bromide	7789-39-1	955.15	1	1613.15	1	2646.82	2	218.26	2	302.50	2	0.5467	2	0.300	2	0.5910
3791	RbCl	rubidium chloride	7791-11-9	988.15	1	1663.15	1	2694.06	2	222.15	2	302.50	2	0.3997	2	0.300	2	0.5960
3795	RbF	rubidium fluoride	13446-74-7	1106.15	1	1683.15	1	2738.03	2	225.78	2	302.50	2	0.3453	2	0.300	2	0.6010
3801	RbI	rubidium iodide	7790-29-6	915.15	1	1573.15	1	2568.65	2	211.81	2	302.50	2	0.7021	2	0.300	2	0.5820
3828	Re	rhenium	7440-15-5	3459.15	1	5869.15	1	21482.80	2	12047.00	2	32.10	2	5.8008	2	0.217	2	---
3830	ReBr3	rhenium (iii) bromide	13569-49-8	---	---	773.15	1	1226.09	2	---	---	---	---	---	---	---	---	---
3850	ReF5	rhenium (v) fluoride	30937-52-1	321.15	1	494.45	1	774.10	2	---	---	---	---	---	---	---	---	---
3852	ReF6	rhenium (vi) fluoride	10049-17-9	291.65	1	306.95	1	472.97	2	---	---	---	---	---	---	---	---	---
3853	ReF7	rhenium (vii) fluoride	17029-21-9	321.45	1	346.85	1	526.62	2	---	---	---	---	---	---	---	---	---
3857	ReOCl4	rhenium (vi) oxytetrachloride	13814-76-1	302.45	1	496.15	1	781.00	1	---	---	362.00	1	0.9503	1	---	---	---
3858	ReOF4	rhenium (vi) oxytetrafluoride	17026-29-8	381.15	1	444.85	1	682.25	2	---	---	---	---	---	---	---	---	---
3859	ReOF5	rhenium (vii) oxypentafluoride	23377-53-9	316.95	1	346.15	1	523.28	2	---	---	---	---	---	---	---	---	---
3861	ReO2F3	rhenium (vii) dioxytrifluoride	57246-89-6	363.15	1	458.55	1	690.26	2	---	---	---	---	---	---	---	---	---
3863	ReO3Cl	rhenium (vii) trioxychloride	7791-09-5	277.65	1	401.15	1	599.24	2	---	---	---	---	---	---	---	---	---
3864	ReO3F	rhenium (vii) trioxyfluoride	42246-24-2	420.15	1	437.15	1	655.31	2	---	---	---	---	---	---	---	---	---
3875	Re2O7	rhenium heptoxide	1314-68-7	570.15	1	633.15	1	942.00	1	85.35	2	334.00	1	1.4503	1	0.364	1,2	0.3130
3880	Rh	rhodium	7440-16-6	2237.15	1	3968.15	1	12906.60	2	8024.40	2	40.12	2	2.5649	2	0.300	2	---
3940	Rn	radon	10043-92-2	202.15	1	211.45	1	377.00	1	62.80	1	140.00	2	1.5857	2	0.281	1,2	---
3941	Ru	ruthenium	7440-18-8	2607.15	1	4423.15	1	15247.10	2	9165.00	2	41.50	2	2.4354	2	0.300	2	---
3974	RuF5	ruthenium (v) fluoride	14521-18-7	359.65	1	500.15	1	977.44	2	80.60	2	302.50	2	0.6481	2	0.300	2	0.2960
3991	S	sulfur	7704-34-9	388.36	1	717.82	1	1314.00	1	117.55	1	158.00	2	0.2029	2	0.170	2	0.2463
3994	SCl2	sulfur dichloride	10545-99-0	151.15	1	332.75	1	542.00	2	66.80	2	183.00	2	0.5627	2	0.271	2	0.2561
3996	SCl2O	thionyl chloride	7719-09-7	168.65	1	348.75	1	567.00	2	44.30	2	208.00	2	0.5720	2	0.195	2	0.0946
3998	SF4	sulfur tetrafluoride	7783-60-0	148.15	1	232.70	1	364.00	1	52.22	2	158.77	2	0.6806	2	0.274	1,2	0.3070
3999	SF5Br	sulfur bromide pentafluoride	15607-89-3	194.15	1	276.25	1	427.96	2	43.01	2	216.76	2	0.9548	2	0.262	2	---
4000	SF5Cl	sulfur chloride pentafluoride	13780-57-9	209.15	1	254.10	1	390.90	1	39.60	2	217.07	2	0.7486	2	0.262	2	---
4001	SF6	sulfur hexafluoride	2551-62-4	222.45	1	209.25	1	318.69	1	37.60	1	198.52	1	0.7357	1	0.282	1	0.2151
4002	SF6O	sulfur fluoride hypofluorite	15179-32-5	187.15	1	238.05	1	358.69	2	38.07	2	205.26	2	0.7895	2	0.262	2	---
4004	SOBr2	thionyl bromide	507-16-4	223.15	1	413.15	1	661.75	2	64.89	2	232.32	2	0.8948	2	0.274	2	0.2830
4005	SOCl2	thionyl chloride	7719-09-7	172.15	1	348.75	1	567.00	2	63.63	2	203.00	2	0.5861	2	0.274	2	0.2310
4006	SOF2	thionyl fluoride	7783-42-8	143.65	1	229.35	1	371.25	2	59.28	2	142.65	2	0.6033	2	0.274	2	0.2180
4007	SO2	sulfur dioxide	7446-09-5	200.00	1	263.13	1	430.75	1	78.84	1	122.00	1	0.5251	1	0.269	1	0.2453
4008	SO2Cl2	sulfuryl chloride	7791-25-5	219.00	1	342.55	1	545.00	2	46.10	2	234.00	2	0.5768	2	0.238	2	0.1764
4009	SO2F2	sulfuryl fluoride	2699-79-8	137.35	1	217.75	1	336.28	2	46.39	2	157.89	2	0.6464	2	0.262	2	---
4010	SO3	sulfur trioxide	7446-11-9	289.95	1	317.90	1	490.85	1	82.10	1	127.00	1	0.6304	1	0.255	1	0.4240
4013	S2Cl2	sulfur monochloride	10025-67-9	196.15	1	410.15	1	659.37	2	62.75	2	239.38	2	0.5641	2	0.274	2	0.2720
4014	S2F2	1,1 difluorodisulfane	101947-30-2	108.55	1	262.55	1	434.64	2	56.55	2	167.42	2	0.6100	2	0.262	2	---
4015	S2F2	difluorodisulfane	13709-35-8	140.15	1	288.15	1	477.01	2	62.06	2	167.42	2	0.6100	2	0.262	2	---
4020	S3Cl2	trisulfur dichloride	31703-09-0	227.15	1	304.15	1	489.74	2	35.76	2	298.29	2	0.5602	2	0.262	2	---
4022	S4N4	sulfur (iii) nitiride	28950-34-7	453.15	1	458.15	1	665.98	2	41.32	2	351.07	2	0.5249	2	0.262	2	---
4023	Sb	antimony	7440-36-0	903.78	1	1860.15	1	5070.00	2	3865.60	2	32.72	2	3.7213	2	0.300	2	---
4025	SbBr3	antimony tribromide	7789-61-9	369.75	1	553.15	1	904.00	1	73.62	2	300.00	1	1.2049	1	0.294	1,2	0.2690
4042	SbCl3	antimony trichloride	10025-91-9	346.55	1	493.40	1	794.00	1	48.20	2	272.00	1	0.8387	1	0.199	1,2	0.1710
4044	SbCl5	antimony pentachloride	7647-18-9	275.95	1	449.15	1	662.54	2	39.42	2	382.86	2	0.7810	2	0.274	2	0.1290
4046	SbF5	antimony (v) fluoride	7783-70-2	281.45	1	414.15	1	653.38	2	---	---	---	---	---	---	---	---	---
4047	SbH3	stibine	7803-52-3	185.15	1	255.15	1	440.35	2	73.06	2	157.20	2	0.7938	2	0.314	2	0.0970
4049	SbI3	antimony triiodide	7790-44-5	440.15	1	674.15	1	1102.00	1	90.54	2	302.50	2	1.6611	2	0.299	1,2	0.3300
4050	SbI5	antimony (v) iodide	---	352.15	1	674.15	1	1096.70	2	---	---	---	---	---	---	---	---	---
4056	Sb2O3	antimony (iii) oxide	1309-64-4	928.15	1	1698.15	1	2765.72	2	228.06	2	302.50	2	0.9637	2	0.300	2	0.6040
4065	Sc	scandium	7440-20-2	1814.15	1	3109.15	1	8035.08	2	5499.00	2	36.45	2	1.2334	2	0.300	2	---
4083	Se	selenium (gray)	7782-49-2	493.65	1	958.15	1	1766.00	1	272.00	1	62.30	2	1.2674	2	0.115	1,2	0.2270
4084	Se	selenium (a form)	7782-49-2	494.15	1	958.15	1	1766.00	1	272.00	1	62.30	2	1.2674	2	0.115	1,2	0.2270
4085	Se	selenium (vitreous)	7782-49-2	453.15	1	958.15	1	1766.00	1	272.00	1	62.30	2	1.2674	2	0.115	1,2	0.2270
4089	SeCS	selenosulfide, carbon	5951-19-9	197.95	1	358.75	1	576.53	2	74.12	2	177.18	2	0.6944	2	0.274	2	0.3160
4107	SeCl4	selenium tetrachloride	10026-03-6	578.15	1	464.55	1	743.95	2	61.05	2	277.61	2	0.7953	2	0.274	2	0.2690
4109	SeF4	selenium tetrafluoride	13465-66-2	263.15	1	379.15	1	608.64	2	85.60	2	154.88	2	1.0005	2	0.262	2	---
4110	SeF6	selenium hexafluoride	7783-79-1	238.45	1	227.35	1	345.50	1	44.75	1	187.74	1	1.0278	1	0.292	1,2	0.1330
4115	SeOCl2	selenium oxychloride	7791-23-3	281.65	1	450.15	1	730.00	1	70.90	1	235.00	1	0.7058	1	0.275	1	0.3400
4116	SeOF2	selenium oxyfluoride	7783-43-9	288.15	1	398.15	1	635.50	2	96.70	2	143.15	2	0.9288	2	0.262	2	---
4117	SeO2	selenium dioxide	7446-08-4	613.15	1	588.15	1	961.16	2	79.26	2	302.50	2	0.3668	2	0.300	2	0.2910
4118	SeO2F2	selenium dioxydifluoride	14984-81-7	173.65	1	264.75	1	406.72	2	53.38	2	165.98	2	0.8974	2	0.262	2	---
4123	Se2C	diselenide, carbon	506-80-9	229.45	1	398.65	1	665.03	2	77.18	2	187.70	2	0.9053	2	0.262	2	---
4140	Si	silicon	7440-21-3	1685.00	1	3490.00	1	5159.00	2	537.00	2	232.60	2	0.1207	2	0.291	2	1.5140
4143	SiBrCl2F	silane, bromodichlorofluoro	---	160.85	1	308.55	1	497.17	2	38.27	2	295.93	2	0.6687	2	0.274	2	0.1060
4144	SiBr2ClF	silane, dibromochlorofluoro	---	173.85	1	332.65	1	535.27	2	39.32	2	310.14	2	0.7814	2	0.274	2	0.1180
4145	SiBr3Cl	silane, tribromochloro	13465-76-4	252.35	1	400.15	1	614.74	2	43.72	2	306.27	2	0.9901	2	0.262	2	---
4146	SiBr4	tetrabromosilane	7789-66-4	278.54	1	427.15	1	663.00	1	46.62	2	382.00	1	0.9102	1	0.262	2	---
4149	SiCH3Cl3	silane, methyltrichloro	75-79-6	---	---	---	---	517.00	1	35.30	1	340.00	1	0.4396	1	0.279	1	0.2634
4150	SiCH4Cl2	silane, methyldichloro	75-54-7	---	---	---	---	483.00	2	39.50	2	289.00	2	0.3980	2	0.284	2	0.2758
4152	SiC2H5Cl3	silane, ethyltrichloro	115-21-9	---	---	---	---	559.95	1	33.30	1	414.00	2	0.3949	2	0.296	1,2	0.2691

Table 2 Critical Properties and Acentric Factor - Inorganic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
4153	SiC2H6Cl2	silane, dimethyldichloro	75-78-5	---	---	---	---	520.35	1	34.90	1	358.00	1	0.3605	1	0.289	1	0.2675
4157	SiC3H10	silane, trimethyl	933-07-7	---	---	---	---	432.00	2	31.90	2	311.00	2	0.2386	2	0.276	2	0.1751
4187	SiC7H8Cl2	silane, methylphenyldichloro	149-74-6	---	---	---	---	689.00	2	28.70	2	508.00	2	0.3762	2	0.255	2	0.4022
4196	SiC8H20	silane, tetraethyl	631-36-7	---	---	---	---	606.00	1	24.00	2	587.00	1	0.2459	1	0.280	1,2	0.4002
4238	SiClC3H9	chlorotrimethylsilane	75-77-4	---	---	---	---	497.75	1	32.00	1	366.00	1	0.2968	1	0.283	1	0.2701
4240	SiClF3	silane, chlorotrifluoro	14049-36-6	135.15	1	203.15	1	307.70	1	34.60	1	213.61	2	0.5643	2	0.289	1,2	0.0530
4241	SiCl2F2	silane, dichlorodifluoro	18356-71-3	229.15	1	241.15	1	369.00	1	35.00	1	247.69	2	0.5531	2	0.283	1,2	0.0720
4242	SiCl3Br	silane, bromotrichloro	13465-74-2	211.15	1	353.45	1	545.50	2	38.71	2	306.93	2	0.6984	2	0.262	2	---
4243	SiCl3F	silane, trichlorofluoro	14965-52-7	152.35	1	285.40	1	438.60	1	35.80	1	281.72	2	0.5447	2	0.277	1,2	0.0930
4244	SiCl4	silicon tetrachloride	10026-04-7	204.30	1	330.00	1	507.00	1	35.90	1	326.00	1	0.5212	1	0.278	1	0.2318
4245	SiF4	silicon tetrafluoride	7783-61-1	186.35	1	187.15	1	259.00	1	37.20	1	202.00	2	0.5152	2	0.349	1,2	0.3858
4246	SiHBr3	silane, tribromo	7789-57-3	200.15	1	382.15	1	610.00	1	47.02	2	305.00	1	0.8813	1	0.283	1,2	0.2220
4247	SiHCl3	silane, trichloro	10025-78-2	144.95	1	305.00	1	479.00	1	41.70	2	268.00	1	0.5054	1	0.281	1,2	0.2030
4248	SiHF3	silane, trifluoro	13465-71-9	141.75	1	178.15	1	291.02	2	39.95	2	165.93	2	0.5188	2	0.274	2	0.0790
4250	SiH2Br2	silane, dibromo	13768-94-0	203.05	1	339.15	1	550.00	2	53.00	2	246.00	2	0.7720	2	0.285	2	0.2270
4251	SiH2Cl2	silane, dichloro	4109-96-0	151.15	1	281.45	1	459.00	2	45.90	2	237.00	2	0.4262	2	0.285	2	0.0985
4252	SiH2F2	silane, difluoro	13824-36-7	151.15	1	195.35	1	318.21	2	47.59	2	152.31	2	0.4471	2	0.274	2	0.1390
4253	SiH2I2	silane, diiodo	13760-02-6	272.15	1	423.15	1	660.00	2	66.88	2	232.00	2	1.2238	2	0.283	2	0.3890
4257	SiH3Br	silane, monobromo	13465-73-1	179.25	1	275.55	1	454.00	2	56.44	2	177.00	2	0.6272	2	0.265	2	0.1550
4258	SiH3Cl	silane, monochloro	13465-78-6	155.05	1	242.75	1	396.65	2	48.43	2	174.00	2	0.3825	2	0.256	2	0.1360
4259	SiH3F	silane, monofluoro	13537-33-2	---	---	175.15	1	286.28	2	46.88	2	139.12	2	0.3602	2	0.274	2	0.1250
4260	SiH3I	silane, iodo	13598-42-0	216.15	1	318.55	1	515.00	2	69.41	2	160.00	2	0.9876	2	0.259	2	0.2760
4261	SiH4	silane	7803-62-5	88.48	1	161.00	1	269.70	1	48.40	1	132.70	2	0.2420	2	0.286	1,2	0.0938
4263	SiI4	silane, tetraiodo	13465-84-4	393.65	1	560.50	1	944.00	1	50.54	2	558.00	1	0.9600	1	0.262	2	---
4265	SiO2	silicon dioxide (alpha quartz)	14808-60-7	1696.00	1	2503.20	1	3780.00	2	31.60	2	163.00	2	0.3686	2	0.016	2	0.7190
4266	SiO2	silicon dioxide (tridymite)	15468-32-3	1743.15	1	3223.15	1	5021.49	2	788.13	2	138.79	2	0.4329	2	0.262	2	---
4267	SiO2	silicon dioxide (cristobalite)	14464-46-1	1995.15	1	3223.15	1	5021.49	2	788.13	2	138.79	2	0.4329	2	0.262	2	---
4268	SiO2	silicon dioxide (vitreous)	60676-86-0	1986.15	1	3223.15	1	5021.49	2	788.13	2	138.79	2	0.4329	2	0.262	2	---
4270	SiS	silicon monosulfide	12504-41-5	---	---	1213.15	1	2033.65	2	298.95	2	148.18	2	0.4059	2	0.262	2	---
4274	Si2C6H18O	disiloxane, hexamethyl	107-46-0	---	---	---	---	518.70	1	19.14	1	601.00	2	0.2702	2	0.267	1,2	0.4152
4275	Si2C6H19N	disilazane, hexamethyl	999-97-3	---	---	---	---	544.00	2	19.20	2	613.00	2	0.2633	2	0.260	2	0.5101
4286	Si2Cl6	disilane, hexachloro	13465-77-5	271.95	1	418.15	1	660.96	2	29.11	2	517.27	2	0.5198	2	0.274	2	0.0350
4287	Si2Cl6O	disiloxane, hexachloro	14986-21-1	---	---	---	---	655.58	2	27.90	2	535.21	2	0.5323	2	0.274	2	0.0220
4288	Si2F6	disilane, hexafluoro	---	254.55	1	254.25	1	411.33	2	30.16	2	310.64	2	0.5478	2	0.274	2	0.0220
4289	Si2H6	disilane	1590-87-0	140.65	1	259.00	1	432.00	2	51.30	2	223.00	2	0.2790	2	0.319	2	0.0939
4290	Si2H6O	disiloxane	13597-73-4	129.15	1	257.95	1	416.86	2	36.19	2	262.41	2	0.2981	2	0.274	2	0.0780
4291	Si2OCl3F3	disiloxane, trichlorotrifluoro	---	---	---	315.89	1	508.78	2	26.77	2	433.00	2	0.5439	2	0.274	2	---
4295	Si3Cl8	octachlorotrisilane	---	---	---	484.55	1	775.41	2	24.70	2	714.99	2	0.5145	2	0.274	2	---
4296	Si3H8	trisilane	7783-26-8	155.75	1	326.05	1	525.15	2	33.70	2	354.94	2	0.2601	2	0.274	2	0.0700
4297	Si3H9N	trisilazane	---	167.45	1	321.85	1	518.20	2	31.65	2	372.91	2	0.2878	2	0.274	2	0.0500
4300	Si4H10	tetrasilane	7783-29-1	188.85	1	380.55	1	599.30	2	29.68	2	460.01	2	0.2661	2	0.274	2	0.0370
4303	Sm	samarium	7440-19-9	1347.15	1	2067.15	1	5082.92	2	3816.70	2	33.22	2	4.5262	2	0.300	2	---
4332	Sn	tin (white)	7440-31-5	505.08	1	2875.15	1	7400.00	2	6099.80	2	115.10	2	1.0314	2	1.141	2	0.1010
4333	Sn	tin (gray)	7440-31-5	505.08	1	2875.15	1	4918.28	2	853.80	2	125.48	2	0.9461	2	0.262	2	---
4334	SnBr2	tin (ii) bromide	10031-24-0	488.15	1	912.15	1	1466.09	2	139.11	2	229.58	2	1.2132	2	0.262	2	---
4335	SnBr4	stannic bromide	7789-67-5	302.25	1	478.15	1	744.00	1	43.43	2	417.00	1	1.0511	1	0.293	1,2	0.1650
4337	SnCH6	methylstannane	1631-78-3	---	---	273.15	1	438.71	2	46.72	2	204.53	2	0.6687	2	0.262	2	---
4422	SnCl2	stannous chloride	7772-99-8	520.25	1	896.15	1	1459.53	2	120.35	2	302.50	2	0.6268	2	0.300	2	0.4140
4424	SnCl4	stannic chloride	7646-78-8	239.08	1	387.30	1	591.90	1	37.50	1	351.00	1	0.7422	1	0.267	1	0.1400
4428	SnF2	tin (ii) fluoride	7783-47-3	486.15	1	1123.15	1	1835.05	2	250.18	2	159.77	2	0.9808	2	0.262	2	---
4429	SnF4	tin (iv) fluoride	7783-62-2	---	---	978.15	1	1539.60	2	171.98	2	195.00	2	0.9985	2	0.262	2	---
4431	SnH4	stannane	2406-52-2	127.15	1	221.35	1	358.52	2	53.42	2	152.88	2	0.8029	2	0.274	2	0.1840
4432	SnI2	tin (ii) iodide	10294-70-9	593.15	1	987.15	1	1635.64	2	132.69	2	268.52	2	1.3873	2	0.262	2	---
4433	SnI4	stannic iodide	7790-47-8	416.15	1	637.50	1	968.00	1	83.42	2	531.00	1	1.1795	1	0.550	2	0.3060
4438	SnS	tin (ii) sulfide	1314-95-0	1153.15	1	1483.15	1	2486.26	2	299.96	2	180.55	2	0.8351	2	0.262	2	---
4461	Sr	strontium	7440-24-6	1050.15	1	1655.15	1	4267.20	2	3319.80	2	32.06	2	2.7330	2	0.300	2	---
4515	T2	tritium	10028-17-8	20.62	1	25.04	1	44.91	2	23.80	2	41.11	2	0.1467	2	0.262	2	---
4517	Ta	tantalum	7440-25-7	3290.15	1	5731.15	1	19900.90	2	11334.00	2	43.80	2	4.1312	2	0.300	2	---
4523	TaBr5	tantalum (v) bromide	13451-11-1	538.15	1	622.15	1	974.00	1	---	---	461.00	1	1.2591	1	---	---	---
4524	TaC	tantalum carbide	12070-06-3	4153.15	1	5053.15	1	8605.72	2	---	---	---	---	---	---	---	---	---
4531	TaCl5	tantalum (v) chloride	7721-01-9	489.15	1	512.50	1	767.00	1	---	---	402.00	1	0.8911	1	---	---	---
4533	TaF5	tantalum (v) fluoride	7783-71-3	368.25	1	502.35	1	787.96	2	---	---	---	---	---	---	---	---	---
4536	TaI5	tantalum (v) iodide	14693-81-3	769.15	1	816.15	1	1318.80	2	---	---	---	---	---	---	---	---	---
4550	Tb	terbium	7440-27-9	1629.15	1	3503.15	1	11138.10	2	---	---	---	---	---	---	---	---	---
4570	Tc	technetium	7440-26-8	2430.15	1	4538.15	1	17400.80	2	10183.00	2	42.62	2	2.2994	2	0.300	2	---
4583	Te	tellurium	13494-80-9	722.66	1	1261.15	1	4840.00	2	2617.10	2	46.13	2	2.7661	2	0.300	2	---
4584	TeBr2	tellurium dibromide	7789-54-0	483.15	1	612.15	1	1032.59	2	179.77	2	125.12	2	2.2971	2	0.262	2	---
4587	TeCl2	tellurium dichloride	10025-71-5	481.15	1	601.15	1	1021.54	2	177.03	2	125.69	2	1.5793	2	0.262	2	---
4588	TeCl4	tellurium tetrachloride	10026-07-0	497.15	1	660.15	1	1002.00	1	85.60	1	310.00	1	0.8691	1	0.319	1,2	0.3260
4590	TeF6	tellurium hexafluoride	7783-80-4	235.55	1	234.25	1	356.00	1	34.47	2	251.23	2	0.9616	2	0.293	1,2	0.0570
4596	TeO2	tellurium dioxide	7446-07-3	1006.15	1	1518.15	1	2463.10	2	756.05	2	70.96	2	2.2490	2	0.262	2	---
4609	Th	thorium	7440-29-1	2023.15	1	5061.15	1	17668.05	2	---	---	---	---	---	---	---	---	---
4639	Ti	titanium	7440-32-6	1941.15	1	3560.15	1	6400.00	2	7010.20	2	22.77	2	2.1022	2	0.300	2	0.9150
4643	TiBr4	titanium (iv) bromide	7789-68-6	312.15	1	503.15	1	795.70	1	57.13	2	391.00	1	0.9399	1	0.262	2	---
4676	TiCl2	titanium (ii) chloride	10049-06-6	1308.15	1	1773.15	1	2906.02	2	335.86	2	188.47	2	0.6302	2	0.262	2	---
4677	TiCl3	titanium (iii) chloride	7705-07-9	713.15	1	1233.15	1	1971.57	2	177.20	2	242.36	2	0.6363	2	0.262	2	---
4678	TiCl4	titanium tetrachloride	7550-45-0	249.05	1	409.00	1	638.00	1	46.61	1	340.00	1	0.5579	1	0.299	1	0.2837
4680	TiF3	titanium (iii) fluoride	13470-08-1	1473.15	1	1673.15	1	2716.12	2	431.33	2	137.17	2	0.7645	2	0.262	2	---
4686	TiI4	titanium (iv) iodide	7720-83-4	423.15	1	650.15	1	1040.00	1	60.88	2	505.00	1	1.1000	1	0.262	2	---
4690	TiO2	rutile	1317-80-2	2130.00	1	3023.00	1	4763.33	2	792.00	2	131.01	2	0.6096	2	0.262	2	---

Table 2 Critical Properties and Acentric Factor - Inorganic Compounds

				freeze point		boiling point		critical temp		critical pres		critical volume		critical den		crit com fac		acent fac
ID	FORMULA	NAME	CAS No	T_F, K	code	T_B, K	code	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code	omega
4703	Tl	thallium	7440-28-0	577.15	1	1746.15	1	4648.06	2	3554.00	2	32.62	2	6.2656	2	0.300	2	---
4704	TlBr	thallous bromide	7789-40-4	733.15	1	1092.15	1	1778.75	2	146.68	2	302.50	2	0.9398	2	0.300	2	0.4730
4728	TlI	thallium iodide	7790-30-9	714.85	1	1097.15	1	1785.26	2	147.21	2	302.50	2	1.0952	2	0.300	2	0.4740
4747	Tm	thulium	7440-30-4	1818.15	1	2223.15	1	6283.16	2	4519.70	2	34.68	2	4.8712	2	0.300	2	---
4766	U	uranium	7440-61-1	1408.15	1	4404.15	1	13712.60	2	8421.60	2	40.62	2	5.8599	2	0.300	2	---
4774	UC2	uranium carbide	12071-33-9	2623.15	1	4643.15	1	7688.33	2	805.83	2	207.83	2	1.2609	2	0.262	2	---
4780	UCl4	uranium (iv) chloride	10026-10-5	863.15	1	1064.15	1	1661.19	2	103.65	2	349.11	2	1.0880	2	0.262	2	---
4784	UF4	uranium (iv) fluoride	10049-14-6	1309.15	1	1690.15	1	2686.76	2	292.77	2	199.90	2	1.5709	2	0.262	2	---
4787	UF6	uranium fluoride	7783-81-5	337.15	1	329.65	1	505.80	1	46.60	1	250.00	1	1.4081	1	0.277	1	0.3180
4799	UN2O8	uranyl nitrate	10102-06-4	333.35	1	391.15	1	510.39	2	29.49	2	377.05	2	1.0451	2	0.262	2	---
4836	V	vanadium	7440-62-2	2190.00	1	3653.15	1	11325.00	2	10314.00	2	32.80	2	1.5531	2	0.359	2	-0.2408
4839	VBr2	vanadium (ii) bromide	14890-41-6	---	---	1073.15	1	1730.09	2	---	---	---	---	---	---	---	---	---
4858	VCl2	vanadium (ii) chloride	10580-52-6	---	---	1183.15	1	1918.64	2	---	---	---	---	---	---	---	---	---
4860	VCl4	vanadium tetrachloride	7632-51-1	247.45	1	425.00	1	697.00	2	60.30	2	268.00	2	0.7192	2	0.279	2	0.1858
4865	VF5	vanadium (v) fluoride	7783-72-4	292.65	1	321.45	1	499.01	2	---	---	---	---	---	---	---	---	---
4878	VOCl	vanadyl chloride	13520-87-1	---	---	400.15	1	636.00	1	---	---	171.00	1	0.5988	1	---	---	---
4880	VOCl3	vanadium oxytrichloride	7727-18-6	193.65	1	400.00	1	636.00	1	37.40	2	290.00	1	0.5976	1	0.205	1,2	0.1305
4881	VOF3	vanadyl trifluoride	13709-31-4	573.15	1	753.15	1	1163.52	2	---	---	---	---	---	---	---	---	---
4899	W	tungsten	7440-33-7	3695.15	1	5828.15	1	14756.00	2	11497.00	2	33.90	2	5.4230	2	0.318	2	0.0770
4904	WBr5	tungsten (v) bromide	13470-11-6	559.15	1	606.15	1	923.75	2	57.75	2	348.45	2	1.6742	2	0.262	2	---
4913	WCl5	tungsten (v) chloride	13470-14-9	515.15	1	559.15	1	861.73	2	53.61	2	350.15	2	1.0313	2	0.262	2	---
4914	WCl6	tungsten (vi) chloride	13283-01-7	548.15	1	619.90	1	923.00	1	49.75	2	422.00	1	0.9397	1	0.262	2	---
4917	WF6	tungsten fluoride	7783-82-6	275.45	1	290.25	1	444.00	1	43.40	1	233.00	1	1.2782	1	0.274	1	0.1630
4924	WOBr4	tungsten (vi) oxytetrabromide	13520-77-9	550.15	1	600.15	1	903.22	2	62.22	2	316.20	2	1.6428	2	0.262	2	---
4926	WOCl4	tungsten (vi) oxytetrachloride	13520-78-0	484.15	1	500.70	1	782.00	1	52.13	2	338.00	1	1.0108	1	0.262	2	---
4927	WOF4	tungsten (vi) oxytetrafluoride	13520-79-1	379.15	1	459.05	1	707.67	2	89.88	2	171.51	2	1.6083	2	0.262	2	---
4945	Xe	xenon	7440-63-3	161.36	1	165.03	1	289.74	1	58.40	1	118.00	1	1.1126	1	0.286	1	0.0000
4947	XeF2	xenon difluoride	13709-36-9	402.18	1	387.50	1	631.00	1	93.20	1	148.00	1	1.1438	1	0.262	2	---
4949	XeF4	xenon tetrafluoride	13709-61-0	390.25	1	388.90	1	612.00	1	70.40	1	188.00	1	1.1026	1	0.262	2	---
4950	XeF6	xenon hexafluoride	13693-09-9	322.65	1	348.75	1	534.62	2	54.14	2	215.11	2	1.1403	2	0.262	2	---
4960	Y	yttrium	7440-65-5	1795.15	1	3618.15	1	9381.32	2	6222.00	2	37.61	2	2.3639	2	0.300	2	---
4995	Yb	ytterbium	7440-64-4	1092.15	1	1469.15	1	4365.92	2	3380.90	2	32.21	2	5.3722	2	0.300	2	---
5021	Zn	zinc	7440-66-6	692.68	1	1180.15	1	3170.00	2	2904.00	2	33.00	2	1.9815	2	0.364	2	0.0459
5062	ZnCl2	zinc chloride	7646-85-7	563.15	1	1005.15	1	1637.05	2	134.99	2	302.50	2	0.4506	2	0.300	2	0.4480
5069	ZnF2	zinc fluoride	7783-49-5	1145.15	1	1773.15	1	2882.98	2	237.73	2	302.50	2	0.3418	2	0.300	2	0.6160
5113	Zr	zirconium	7440-67-7	2128.15	1	4682.15	1	8802.00	2	9364.60	2	23.45	2	3.8901	2	0.300	2	0.8590
5117	ZrBr4	zirconium bromide	13777-25-8	723.15	1	633.15	1	805.00	1	84.63	2	424.00	2	0.9690	2	0.536	2	0.3100
5138	ZrCl2	zirconium dichloride	13762-26-0	1000.15	1	1565.15	1	2072.62	2	245.16	2	184.16	2	0.8804	2	0.262	2	---
5142	ZrCl4	zirconium chloride	10026-11-6	710.15	1	604.15	1	778.00	1	57.70	1	319.00	1	0.7305	1	0.285	1	0.2980
5143	ZrF4	zirconium (iv) fluoride	7783-64-4	1205.15	1	1185.15	1	1553.38	2	225.35	2	150.15	2	1.1137	2	0.262	2	---
5152	ZrI4	zirconium iodide	13986-26-0	772.15	1	704.15	1	960.00	1	94.57	2	530.00	1	1.1299	1	0.628	2	0.3430
5163	ZrTe2	zirconium telluride	32321-65-6	692.73	1	1180.20	1	1592.90	2	418.15	2	82.98	2	4.1749	2	0.262	2	---

Code: 1 - data, 2 - estimate

T_F - freezing point critical temperature, K

T_B - boiling point critical temperature, K

T_C - critical temperature, K

P_C - critical pressure, bar

V_C - critical volume, ml/mol

rho_C - critical density, g/ml

Z_C - critical compressibility factor

omega - acentric factor

Chapter 3

DENSITY OF LIQUID – ORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 3. For the tabulation, the following equation was selected for correlation of liquid density as a function of temperature:

$$\text{density} = A\, B^{-(1-T/C)^{\wedge}n} \qquad (3)$$

where density = saturated liquid density, g/ml
A, B, C, and n = regression coefficients for chemical compound
T = temperature, K

The tabulation is arranged by carbon number (C, C2, C3, ...) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for regression coefficients are given in the adjacent columns. The temperature range for use is given in the next columns (TMIN and TMAX). The equation should not be used for temperatures outside this range. The next column provides the code for the tabulation. The last two columns provide a representative temperature and value for liquid density at the representative temperature.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-34). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (1-2), Daubert and Danner (3), TRC (11-12), and Yaws (15-33) were used extensively for liquid density. Estimates of liquid density were primarily based on Schroeder correlation (9, group contribution), Le Bas method (9, group contribution), and Tyn-Calus equation (9, critical volume).

A comparison of calculated and data values is shown in Figure 3 for a representative compound. The graph shows favorable agreement of equation and data.

Example

In an engineering analysis, the liquid density is needed for methyl chloride (CH3Cl) at 343.15 K. Determine the liquid density of methyl chloride at this temperature.

Substitution of the coefficients from the tabulation and temperature into the above equation yields:

$$\text{density} = 0.36320 * 0.26631^{-(1-343.15/416.25)^{\wedge}.28690}$$

density = 0.811 g/ml

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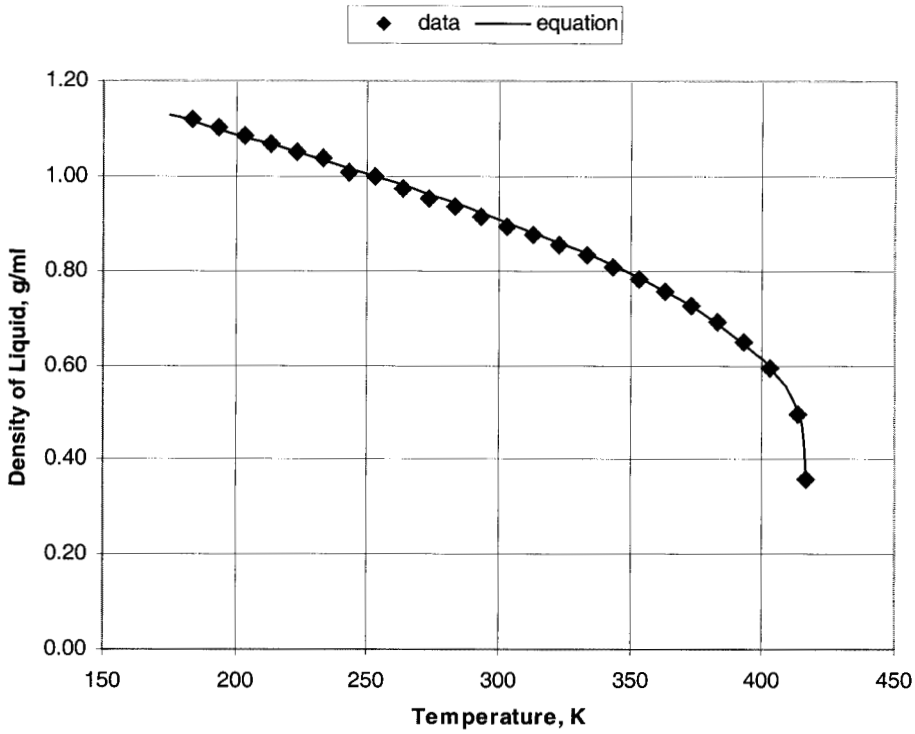


Figure 3 Liquid Density of Methyl Chloride

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$							(density - g/ml, T - K)		
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
13	CBrClF2	bromochlorodifluoromethane	353-59-3	0.67220	0.25631	426.15	0.26440	113.65	426.15	1,2	298.15	1.8100
16	CBrCl3	bromotrichloromethane	75-62-7	0.69810	0.27982	606.00	0.28570	252.15	606.00	1,2	298.15	1.9940
17	CBrF3	bromotrifluoromethane	75-63-8	0.74460	0.27232	340.15	0.28006	105.15	340.15	1,2	298.15	1.5360
23	CBr2F2	dibromodifluoromethane	75-61-6	0.84260	0.27712	478.00	0.26256	163.05	478.00	1,2	298.15	2.2740
29	CBr4	carbon tetrabromide	558-13-4	1.00952	0.26636	724.91	0.28571	364.15	724.91	1,2	462.65	2.7152
34	CClF3	chlorotrifluoromethane	75-72-9	0.57940	0.26493	301.96	0.29070	92.15	301.96	1,2	298.15	0.8410
39	CClN	cyanogen chloride	506-77-4	0.37710	0.22969	449.00	0.23860	266.65	449.00	1,2	298.15	1.1720
42	CCl2F2	dichlorodifluoromethane	75-71-8	0.55720	0.26555	384.95	0.29650	115.15	384.95	1,2	298.15	1.3070
44	CCl2O	phosgene	75-44-5	0.52000	0.27599	455.00	0.27201	145.37	455.00	1,2	298.15	1.3630
47	CCl3F	trichlorofluoromethane	75-69-4	0.55390	0.27096	471.20	0.28571	162.04	471.20	1,2	298.15	1.4770
50	CCl4	carbon tetrachloride	56-23-5	0.55730	0.27137	556.35	0.29000	250.33	556.35	1,2	298.15	1.5830
68	CF2O	carbonyl fluoride	353-50-4	0.49810	0.34444	287.85	0.28570	159.15	287.85	1,2	190.15	1.0896
74	CF4	carbon tetrafluoride	75-73-0	0.62860	0.28304	227.50	0.29095	89.56	227.50	1,2	145.09	1.6081
96	CHBr3	bromoform	75-25-2	0.88370	0.24757	696.00	0.30060	281.20	696.00	1,2	298.15	2.8760
97	CHClF2	chlorodifluoromethane	75-45-6	0.52090	0.26799	369.30	0.28123	115.73	369.30	1,2	298.15	1.1930
101	CHCl2F	dichlorofluoromethane	75-43-4	0.52510	0.27186	451.58	0.28571	138.15	451.58	1,2	298.15	1.3670
104	CHCl3	chloroform	67-66-3	0.49950	0.25365	536.40	0.28766	209.63	536.40	1,2	298.15	1.4800
113	CHF3	fluoroform	75-46-7	0.52520	0.25798	298.89	0.28910	117.97	298.89	1,2	298.15	0.6670
117	CHI3	iodoform	75-47-8	1.12660	0.23419	794.55	0.28571	396.16	794.55	1,2	491.16	3.3931
122	CHN	hydrogen cyanide	74-90-8	0.19500	0.18572	456.65	0.28206	259.91	456.65	1,2	298.15	0.6800
140	CH2BrCl	bromochloromethane	74-97-5	0.68820	0.27776	557.00	0.28570	185.20	557.00	1,2	298.15	1.9260
144	CH2Br2	dibromomethane	74-95-3	0.77950	0.24832	611.00	0.27583	220.60	611.00	1,2	298.15	2.4820
145	CH2ClF	chlorofluoromethane	593-70-4	0.43200	0.22139	424.91	0.28571	140.16	424.91	1,2	298.15	1.2560
149	CH2Cl2	dichloromethane	75-09-2	0.45910	0.25644	510.00	0.29020	178.01	510.00	1,2	298.15	1.3180
158	CH2F2	difluoromethane	75-10-5	0.43000	0.25711	351.60	0.28100	137.00	351.60	1,2	298.15	0.9570
161	CH2I2	diiodomethane	75-11-6	0.98470	0.24995	747.00	0.26540	279.25	747.00	1,2	298.15	3.3060
175	CH2O	formaldehyde	50-00-0	0.28600	0.25280	408.00	0.28570	181.15	408.00	1,2	298.15	0.7360
176	CH2O2	formic acid	64-18-6	0.36820	0.24287	580.00	0.23663	281.55	580.00	1,2	298.15	1.2140
191	CH3Br	methyl bromide	74-83-9	0.60860	0.26287	467.00	0.28030	179.55	467.00	1,2	298.15	1.6620
196	CH3Cl	methyl chloride	74-87-3	0.36320	0.26631	416.25	0.28690	175.45	416.25	1,2	298.15	0.9130
210	CH3Cl3Si	methyl trichlorosilane	75-79-6	0.43960	0.26102	517.00	0.27788	195.35	517.00	1,2	298.15	1.2660
214	CH3F	methyl fluoride	593-53-3	0.30120	0.24711	317.70	0.28540	131.35	317.70	1,2	298.15	0.5660
222	CH3I	methyl iodide	74-88-4	0.76720	0.25852	528.00	0.26790	206.70	528.00	1,2	298.15	2.2650
232	CH3NO	formamide	75-12-7	0.27630	0.20352	771.00	0.25178	275.70	771.00	1,2	298.15	1.1290
235	CH3NO2	nitromethane	75-52-5	0.35200	0.23907	588.15	0.29030	244.60	588.15	1,2	298.15	1.1290
251	CH4	methane	74-82-8	0.16160	0.29357	190.58	0.27700	90.67	190.58	1,2	111.66	0.4221
254	CH4Cl2Si	methyl dichlorosilane	75-54-7	0.39800	0.28207	483.00	0.22529	182.55	483.00	1,2	298.15	1.1030
272	CH4O	methyl alcohol	67-56-1	0.27200	0.27206	512.58	0.23310	175.47	512.58	1,2	298.15	0.7870
278	CH4S	methyl mercaptan	74-93-1	0.33180	0.28023	469.95	0.28523	150.18	469.95	1,2	298.15	0.8620
284	CH5ClSi	methyl chlorosilane	993-00-0	0.32760	0.26247	442.00	0.26569	139.05	442.00	1,2	298.15	0.8840
286	CH5N	methylamine	74-89-5	0.20170	0.21412	430.05	0.22750	179.69	430.05	1,2	298.15	0.6550
322	CH6Si	methyl silane	992-94-9	0.22510	0.26749	352.50	0.28799	116.34	352.50	1,2	298.15	0.4860
337	CI4	carbon tetraiodide	507-25-5	1.20145	0.24744	961.09	0.28571	444.15	961.09	1,2	591.61	3.4775
363	CN4O8	tetranitromethane	509-14-8	0.41890	0.18157	540.00	0.28570	287.05	540.00	1,2	298.15	1.6260
372	CO	carbon monoxide	630-08-0	0.29818	0.27655	132.92	0.29053	68.15	132.92	1,2	81.70	0.7900
373	COS	carbonyl sulfide	463-58-1	0.44470	0.28918	378.80	0.27140	134.35	378.80	1,2	298.15	1.0050
375	CO2	carbon dioxide	124-38-9	0.46820	0.26925	304.19	0.29030	216.58	304.19	1,2	298.15	0.7130
382	CS2	carbon disulfide	75-15-0	0.47590	0.28740	552.00	0.32260	161.58	552.00	1,2	298.15	1.2560
404	C2BrF3	bromotrifluoroethylene	598-73-2	0.67330	0.24146	432.00	0.30000	170.00	432.00	1,2	298.15	1.8300
413	C2Br2F4	1,2-dibromotetrafluoroethane	124-73-2	0.76190	0.26177	487.80	0.26547	162.65	487.80	1,2	298.15	2.1620
423	C2ClF3	chlorotrifluoroethylene	79-38-9	0.54940	0.25846	379.15	0.30740	115.00	379.15	1,2	298.15	1.2750
427	C2ClF5	chloropentafluoroethane	76-15-3	0.61300	0.28343	353.15	0.28530	173.71	353.15	1,2	298.15	1.2870
441	C2Cl2F4	1,2-dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.58200	0.27546	418.85	0.27450	179.15	418.85	1,2	298.15	1.4550
442	C2Cl2F4	1,1-dichloro-1,2,2,2-tetrafluoroethane	374-07-2	0.58136	0.26618	418.70	0.28571	216.58	418.70	1,2	298.15	1.4696
449	C2Cl3F3	1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	0.57600	0.27185	487.25	0.28040	238.15	487.25	1,2	298.15	1.5640
450	C2Cl3F3	1,1,1-trichloro-2,2,2-trifluoroethane	354-58-5	0.57301	0.26800	487.70	0.28571	287.14	487.70	1,2	298.15	1.5657
455	C2Cl4	tetrachloroethylene	127-18-4	0.66870	0.32883	620.00	0.35630	250.80	620.00	1,2	298.15	1.6130
456	C2Cl4F2	1,1,2,2-tetrachloro-1,2-difluoroethane	76-12-0	0.58070	0.27229	551.00	0.28570	299.15	551.00	1,2	366.00	1.5051
457	C2Cl4F2	1,1,1,2-tetrachloro-2,2-difluoroethane	76-11-9	0.56935	0.26687	560.50	0.28571	313.75	560.50	1,2	364.65	1.5143
459	C2Cl4O	trichloroacetyl chloride	76-02-8	0.54770	0.26694	590.00	0.28570	350.00	590.00	1,2	391.15	1.4419
462	C2Cl5F	pentachlorofluoroethane	354-56-3	0.56628	0.25973	630.10	0.28571	373.15	630.10	1,2	411.05	1.5345
463	C2Cl6	hexachloroethane	67-72-1	0.57460	0.22108	698.00	0.28571	459.95	698.00	1,2	460.00	1.7432
488	C2F4	tetrafluoroethylene	116-14-3	0.58150	0.27626	306.45	0.28571	142.00	306.45	1,2	298.15	0.9200
494	C2F6	hexafluoroethane	76-16-4	0.61610	0.26847	292.80	0.29794	172.45	292.80	1,2	194.95	1.5909
511	C2HBrClF3	halothane	151-67-7	0.66680	0.26882	521.00	0.28571	200.00	521.00	1,2	298.15	1.8690
525	C2HClF2	2-chloro-1,1-difluoroethylene	359-10-4	0.49990	0.26762	400.55	0.28820	134.65	400.55	1,2	298.15	1.2170
528	C2HClF4	1-chloro-1,1,2,2-tetrafluoroethane	354-25-6	0.54157	0.26399	400.00	0.28571	156.15	400.00	2	298.15	1.3333
529	C2HClF4	2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0	0.56002	0.27423	395.85	0.28571	257.74	395.85	2	298.15	1.3333
534	C2HCl2F3	1,1-dichloro-1,2,2-trifluoroethane	812-04-4	0.54135	0.26519	481.32	0.28571	255.51	481.32	2	298.15	1.4821
535	C2HCl2F3	1,2-dichloro-1,1,2-trifluoroethane	354-23-4	0.54039	0.25191	458.30	0.28571	195.15	458.30	1,2	298.15	1.5000
536	C2HCl2F3	2,2-dichloro-1,1,1-trifluoroethane	306-83-2	0.55611	0.26992	456.80	0.28571	166.15	456.80	1,2	298.15	1.4642
539	C2HCl3	trichloroethylene	79-01-6	0.51320	0.27543	571.00	0.28571	188.40	571.00	1,2	298.15	1.4580
540	C2HCl3F2	1,1,1-trichloro-2,2-difluoroethane	354-12-1	0.53944	0.26248	530.70	0.28571	253.28	530.70	2	298.15	1.5519
541	C2HCl3F2	1,1,2-trichloro-1,2-difluoroethane	354-15-4	0.53944	0.26085	530.00	0.28571	253.28	530.00	1,2	298.15	1.5587
542	C2HCl3F2	1,2,2-trichloro-1,1-difluoroethane	354-21-2	0.53944	0.26354	529.00	0.28571	253.28	529.00	1,2	298.15	1.5450
543	C2HCl3O	dichloroacetyl chloride	79-36-7	0.51180	0.26246	579.00	0.28570	230.00	579.00	1,2	298.15	1.5190
544	C2HCl3O	trichloroacetaldehyde	75-87-6	0.51180	0.26602	565.00	0.27840	216.00	565.00	1,2	298.15	1.4990
549	C2HCl4F	1,1,1,2-tetrachloro-2-fluoroethane	354-11-0	0.53866	0.26069	598.60	0.28571	177.80	598.60	2	298.15	1.6249
550	C2HCl4F	1,1,2,2-tetrachloro-1-fluoroethane	354-14-3	0.53866	0.27874	598.00	0.28571	190.55	598.00	1,2	298.15	1.5375
551	C2HCl5	pentachloroethane	76-01-7	0.54820	0.26628	665.00	0.28491	244.15	665.00	1,2	298.15	1.6750

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
554	C2HF3	trifluoroethene	359-11-5	0.44950	0.28627	347.22	0.28571	94.53	347.22	1,2	298.15	0.9190
556	C2HF3O2	trifluoroacetic acid	76-05-1	0.55890	0.27468	491.25	0.30290	257.90	491.25	1,2	298.15	1.4800
558	C2HF5	pentafluoroethane	354-33-6	0.55570	0.26053	342.00	0.28571	170.15	342.00	1,2	298.15	1.1740
571	C2H2	acetylene	74-86-2	0.23050	0.27143	308.32	0.28571	192.40	308.32	1,2	298.15	0.3770
592	C2H2Br4	1,1,2,2-tetrabromoethane	79-27-6	0.86200	0.26033	824.00	0.21400	273.15	824.00	1,2	298.15	2.9270
593	C2H2Br4	1,1,1,2-tetrabromoethane	630-16-0	0.89897	0.26598	800.13	0.28571	273.15	800.13	1,2	298.15	2.8653
604	C2H2ClF3	1-chloro-1,1,2-trifluoroethane	421-04-5	0.49472	0.24156	428.95	0.28571	240.59	428.95	2	298.15	1.3608
605	C2H2ClF3	1-chloro-1,2,2-trifluoroethane	431-07-2	0.49680	0.24284	428.68	0.28571	208.17	428.68	2	298.15	1.3608
606	C2H2ClF3	2-chloro-1,1,1-trifluoroethane	75-88-7	0.49369	0.25247	432.17	0.28571	167.65	432.17	1,2	298.15	1.3221
615	C2H2Cl2	1,1-dichloroethylene	75-35-4	0.43280	0.28688	482.00	0.28571	150.65	482.00	1,2	298.15	1.1170
616	C2H2Cl2	cis-1,2-dichloroethylene	156-59-2	0.43280	0.25636	527.00	0.28570	193.15	527.00	1,2	298.15	1.2650
617	C2H2Cl2	trans-1,2-dichloroethylene	156-60-5	0.43280	0.25687	508.00	0.28570	223.35	508.00	1,2	298.15	1.2440
618	C2H2Cl2	dichloroethylene	25323-30-2	0.43280	0.24596	505.67	0.28571	192.75	505.67	1,2	298.15	1.2840
619	C2H2Cl2	1,2-dichloroethylene, cis and trans	540-59-0	0.43280	0.24997	505.67	0.28571	216.15	505.67	1,2	298.15	1.2680
620	C2H2Cl2F2	1,1-dichloro-1,2-difluoroethane	1842-05-3	0.49885	0.25769	488.39	0.28571	238.36	488.39	2	298.15	1.4054
621	C2H2Cl2F2	1,1-dichloro-2,2-difluoroethane	471-43-2	0.49793	0.26481	515.98	0.28571	205.94	515.98	2	298.15	1.4068
622	C2H2Cl2F2	1,2-dichloro-1,1-difluoroethane	1649-08-7	0.49793	0.25910	495.15	0.28571	171.35	495.15	1,2	298.15	1.4058
623	C2H2Cl2F2	1,2-dichloro-1,2-difluoroethane	431-06-1	0.50070	0.25868	487.57	0.28571	171.95	487.57	1,2	298.15	1.4054
625	C2H2Cl2O	chloroacetyl chloride	79-04-9	0.46100	0.24810	581.00	0.28570	251.15	581.00	1,2	298.15	1.4340
626	C2H2Cl2O	dichloroacetaldehyde	79-02-7	0.46100	0.24332	555.00	0.28571	223.00	555.00	1,2	298.15	1.4330
627	C2H2Cl2O2	dichloroacetic acid	79-43-6	0.48660	0.24729	686.00	0.32550	286.55	686.00	1,2	298.15	1.5530
630	C2H2Cl3F	1,1,1-trichloro-2-fluoroethane	2366-36-1	0.51490	0.25026	565.00	0.28571	236.13	565.00	1,2	298.15	1.5750
631	C2H2Cl3F	1,1,2-trichloro-1-fluoroethane	811-95-0	0.50130	0.24544	559.78	0.28571	168.45	559.78	2	298.15	1.5524
632	C2H2Cl3F	1,1,2-trichloro-2-fluoroethane	359-28-4	0.50381	0.25009	552.93	0.28571	203.71	552.93	1,2	298.15	1.5298
635	C2H2Cl4	1,1,1,2-tetrachloroethane	630-20-6	0.51650	0.26945	624.00	0.28570	202.94	624.00	1,2	298.15	1.5350
636	C2H2Cl4	1,1,2,2-tetrachloroethane	79-34-5	0.51650	0.25957	645.00	0.29593	229.35	645.00	1,2	298.15	1.5870
642	C2H2F2	1,1-difluoroethylene	75-38-7	0.41580	0.25777	302.80	0.30940	129.15	302.80	1,2	298.15	0.6034
643	C2H2F2	cis-1,2-difluoroethene	1630-77-9	0.39170	0.23799	394.67	0.28571	107.90	394.67	1,2	298.15	1.0230
644	C2H2F2	trans-1,2-difluoroethene	1630-78-0	0.39170	0.23799	394.67	0.28571	107.90	394.67	1,2	298.15	1.0230
650	C2H2F4	1,1,1,2-tetrafluoroethane	811-97-2	0.50260	0.24478	380.00	0.31372	172.15	380.00	1,2	298.15	1.1990
651	C2H2F4	1,1,2,2-tetrafluoroethane	359-35-3	0.42961	0.20450	381.00	0.28571	184.15	381.00	2	298.15	1.1990
660	C2H2I4	1,1,1,2-tetraiodoethane	---	1.09244	0.27838	972.04	0.28571	346.46	972.04	2	614.49	2.8558
661	C2H2I4	1,1,2,2-tetraiodoethane	---	1.03122	0.26072	963.61	0.28571	311.30	963.61	2	619.12	2.8087
681	C2H2O	ketene	463-51-4	0.29190	0.27170	370.00	0.28571	122.00	370.00	1,2	298.15	0.6600
684	C2H2O4	oxalic acid	144-62-7	0.43920	0.18929	804.00	0.28571	462.65	804.00	1,2	569.00	1.4169
688	C2H3Br	vinyl bromide	593-60-2	0.53480	0.25307	473.00	0.28900	135.35	473.00	1,2	298.15	1.4990
697	C2H3Br3	1,1,1-tribromoethane	2311-14-0	0.82716	0.27087	698.32	0.28571	293.62	698.32	1,2	298.15	2.5200
698	C2H3Br3	1,1,2-tribromoethane	78-74-0	0.81453	0.25650	709.90	0.28571	243.85	709.90	1,2	298.15	2.6101
701	C2H3Cl	vinyl chloride	75-01-4	0.34920	0.27088	432.00	0.27160	119.36	432.00	1,2	298.15	0.9030
702	C2H3ClF2	1-chloro-1,1-difluoroethane	75-68-3	0.43500	0.25282	410.20	0.29800	142.35	410.20	1,2	298.15	1.1070
703	C2H3ClF2	1-chloro-1,2-difluoroethane	338-64-7	0.44369	0.24203	435.18	0.28571	191.02	435.18	2	298.15	1.2302
704	C2H3ClF2	2-chloro-1,1-difluoroethane	338-65-8	0.44271	0.25889	477.91	0.28571	191.02	477.91	2	298.15	1.2302
707	C2H3ClO	acetyl chloride	75-36-5	0.40050	0.27171	508.00	0.28570	160.30	508.00	1,2	298.15	1.1020
708	C2H3ClO	chloroacetaldehyde	107-20-0	0.39050	0.24682	555.00	0.28571	250.00	555.00	1,2	298.15	1.2000
710	C2H3ClO2	chloroacetic acid	79-11-8	0.42760	0.24283	686.00	0.28571	333.15	686.00	1,2	462.50	1.1946
711	C2H3ClO2	methyl chloroformate	79-22-1	0.42760	0.26800	525.00	0.27814	250.00	525.00	1,2	298.15	1.2130
714	C2H3Cl2F	1,1-dichloro-1-fluoroethane	1717-00-6	0.46043	0.27490	477.35	0.28571	169.65	477.35	1,2	298.15	1.2220
715	C2H3Cl2F	1,1-dichloro-2-fluoroethane	430-53-5	0.45417	0.24886	473.24	0.28571	188.79	473.24	2	298.15	1.2939
716	C2H3Cl2F	1,2-dichloro-1-fluoroethane	430-57-9	0.45329	0.24781	538.33	0.28571	213.15	538.33	1,2	298.15	1.3724
720	C2H3Cl3	1,1,1-trichloroethane	71-55-6	0.47470	0.27262	545.00	0.29333	242.75	545.00	1,2	298.15	1.3300
721	C2H3Cl3	1,1,2-trichloroethane	79-00-5	0.47470	0.25477	602.00	0.31000	236.50	602.00	1,2	298.15	1.4350
728	C2H3F	vinyl fluoride	75-02-5	0.31980	0.26838	327.80	0.28571	112.65	327.80	1,2	298.15	0.6200
735	C2H3F3	1,1,1-trifluoroethane	420-46-2	0.43320	0.26616	346.25	0.26250	161.85	346.25	1,2	298.15	0.9530
736	C2H3F3	1,1,2-trifluoroethane	430-66-0	0.42988	0.25854	430.91	0.28571	189.15	430.91	2	298.15	1.1298
743	C2H3I	vinyl iodide	593-66-8	0.71109	0.26654	536.99	0.28571	168.10	536.99	1,2	298.15	2.0300
746	C2H3I3	1,1,1-triiodoethane	594-21-8	1.01813	0.28012	838.10	0.28571	366.15	838.10	2	521.35	2.6688
747	C2H3I3	1,1,2-triiodoethane	---	1.00557	0.27538	825.88	0.28571	270.98	825.88	2	298.15	3.1276
753	C2H3N	acetonitrile	75-05-8	0.23730	0.22654	545.50	0.28128	229.32	545.50	1,2	298.15	0.7790
754	C2H3N	methyl isocyanide	593-75-9	0.23662	0.23204	517.86	0.28571	228.15	517.86	1,2	298.15	0.7424
755	C2H3NO	methyl isocyanate	624-83-9	0.30030	0.23382	505.00	0.28571	256.15	505.00	1,2	298.15	0.9260
787	C2H4	ethylene	74-85-1	0.21740	0.28751	282.36	0.28571	104.01	282.36	1,2	169.47	0.5674
798	C2H4Br2	1,1-dibromoethane	557-91-5	0.68070	0.26370	628.00	0.29825	210.15	628.00	1,2	298.15	2.0450
799	C2H4Br2	1,2-dibromoethane	106-93-4	0.71820	0.26792	650.15	0.28571	282.94	650.15	1,2	298.15	2.1690
801	C2H4ClF	1-chloro-1-fluoroethane	1615-75-4	0.39476	0.25644	458.07	0.28571	158.87	458.07	2	298.15	1.0811
802	C2H4ClF	1-chloro-2-fluoroethane	762-50-5	0.38374	0.23994	511.00	0.28571	197.15	511.00	1,2	298.15	1.1660
812	C2H4Cl2	1,1-dichloroethane	75-34-3	0.41230	0.26534	523.00	0.28700	176.19	523.00	1,2	298.15	1.1680
813	C2H4Cl2	1,2-dichloroethane	107-06-2	0.44980	0.27548	561.00	0.31041	237.49	561.00	1,2	298.15	1.2460
814	C2H4Cl2	dichloroethane	1300-21-6	0.43105	0.27428	542.00	0.28571	206.84	542.00	2	298.15	1.2070
816	C2H4Cl2O	bis(chloromethyl) ether	542-88-1	0.44560	0.26505	579.00	0.28570	231.65	579.00	1,2	298.15	1.3120
834	C2H4F2	1,1-difluoroethane	75-37-6	0.36490	0.25655	386.60	0.27970	156.15	386.60	1,2	298.15	0.8980
835	C2H4F2	1,2-difluoroethane	624-72-6	0.32700	0.22271	476.00	0.28570	176.10	476.00	1,2	298.15	1.0160
844	C2H4I2	1,1-diiodoethane	594-02-5	0.88776	0.26712	723.89	0.28571	212.92	723.89	1,2	298.15	2.7600
845	C2H4I2	1,2-diiodoethane	624-73-7	0.87130	0.21373	749.91	0.28571	356.16	749.91	1,2	473.16	2.7811
884	C2H4O	acetaldehyde	75-07-0	0.28060	0.25809	461.00	0.27760	150.15	461.00	1,2	298.15	0.7740
885	C2H4O	ethylene oxide	75-21-8	0.31400	0.26104	469.15	0.28253	161.45	469.15	1,2	298.15	0.8620
888	C2H4OS	thioacetic-acid	507-09-5	0.34680	0.25313	577.34	0.28571	150.16	577.34	1,2	298.15	1.0590
889	C2H4O2	acetic acid	64-19-7	0.35120	0.26895	592.71	0.26843	289.81	592.71	1,2	298.15	1.0430
890	C2H4O2	methyl formate	107-31-3	0.34910	0.26605	487.20	0.27680	174.15	487.20	1,2	298.15	0.9670
901	C2H4S	ethylene sulfide	420-12-2	0.39680	0.31329	555.00	0.28571	165.37	555.00	1,2	298.15	1.0070
910	C2H5Br	bromoethane	74-96-4	0.50700	0.25919	503.80	0.27980	154.55	503.80	1,2	298.15	1.4500

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$									(density - g/ml, T - K)
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
914	C2H5Cl	ethyl chloride	75-00-3	0.32260	0.27476	460.35	0.23140	136.75	460.35	1,2	298.15	0.8900
917	C2H5ClO	2-chloroethanol	107-07-3	0.37980	0.26164	585.00	0.21893	205.65	585.00	1,2	298.15	1.1960
939	C2H5F	ethyl fluoride	353-36-6	0.29300	0.27075	375.31	0.24420	129.95	375.31	1,2	298.15	0.7120
948	C2H5I	ethyl iodide	75-03-6	0.65530	0.25975	561.00	0.29853	162.05	561.00	1,2	298.15	1.9200
954	C2H5N	ethyleneimine	151-56-4	0.24890	0.23300	537.00	0.23357	195.20	537.00	1,2	298.15	0.8310
956	C2H5NO	acetamide	60-35-5	0.27470	0.21270	761.00	0.28570	354.15	761.00	1,2	494.30	0.8651
957	C2H5NO	N-methylformamide	123-39-7	0.27470	0.22427	721.00	0.27470	269.35	721.00	1,2	298.15	0.9990
958	C2H5NO2	nitroethane	79-24-3	0.31810	0.23643	593.00	0.27800	183.63	593.00	1,2	298.15	1.0430
985	C2H6	ethane	74-84-0	0.20330	0.28292	305.42	0.28330	90.35	305.42	1,2	298.15	0.3150
986	C2H6AlCl	dimethylaluminum chloride	1184-58-3	0.28770	0.22569	619.00	0.28571	252.15	619.00	1,2	298.15	0.9880
1065	C2H6O	ethyl alcohol	64-17-5	0.27600	0.27668	516.25	0.23670	159.05	516.25	1,2	298.15	0.7870
1066	C2H6O	dimethyl ether	115-10-6	0.27100	0.27384	400.10	0.28060	131.66	400.10	1,2	298.15	0.6550
1067	C2H6OS	dimethyl sulfoxide	67-68-5	0.34420	0.25358	726.00	0.32197	291.67	726.00	1,2	298.15	1.0950
1072	C2H6O2	ethylene glycol	107-21-1	0.32500	0.25497	645.00	0.17200	260.15	645.00	1,2	298.15	1.1100
1083	C2H6O4S	dimethyl sulfate	77-78-1	0.43050	0.25924	758.00	0.37020	241.35	758.00	1,2	298.15	1.3220
1084	C2H6O4S	ethyl sulfate	540-82-9	0.43050	0.26512	758.00	0.28571	241.35	758.00	1,2	298.15	1.3608
1092	C2H6S	ethyl mercaptan	75-08-1	0.30020	0.26847	499.15	0.27866	125.26	499.15	1,2	298.15	0.8330
1093	C2H6S	dimethyl sulfide	75-18-3	0.30930	0.27072	503.04	0.28571	174.88	503.04	1,2	298.15	0.8500
1094	C2H6S2	dimethyl disulfide	624-92-0	0.37380	0.27705	606.00	0.31143	188.44	606.00	1,2	298.15	1.0570
1115	C2H7N	ethylamine	75-04-7	0.24770	0.25629	456.15	0.28589	192.15	456.15	1,2	298.15	0.6770
1116	C2H7N	dimethylamine	124-40-3	0.24110	0.26797	437.65	0.24800	180.96	437.65	1,2	298.15	0.6500
1117	C2H7NO	monoethanolamine	141-43-5	0.27150	0.22402	638.00	0.20150	283.65	638.00	1,2	298.15	1.0140
1118	C2H7NO	1-aminoethanol	75-39-8	0.27150	0.22091	638.00	0.28571	370.15	638.00	2	444.15	0.7950
1159	C2H8N2	ethylenediamine	107-15-3	0.22760	0.20723	593.00	0.20173	284.29	593.00	1,2	298.15	0.8930
1168	C2H8Si	dimethyl silane	1111-74-6	0.23320	0.26355	402.00	0.28421	122.93	402.00	1,2	298.15	0.5780
1210	C2N2	cyanogen	460-19-5	0.26690	0.21002	400.15	0.20635	245.25	400.15	1,2	298.15	0.8660
1284	C3F6	hexafluoropropylene	116-15-4	0.55980	0.24208	368.00	0.31130	116.65	368.00	1,2	298.15	1.3040
1287	C3F6O	hexafluoroacetone	684-16-2	0.50460	0.23373	357.14	0.22900	151.15	357.14	1,2	298.15	1.3210
1299	C3F8	octafluoropropane	76-19-7	0.62880	0.27332	345.05	0.28170	125.46	345.05	1,2	298.15	1.3170
1368	C3H2F6	1,1,1,2,2,3-hexafluoropropane	677-56-5	0.44006	0.17740	401.21	0.28571	190.00	401.21	2	298.15	1.4219
1369	C3H2F6	1,1,1,2,3,3-hexafluoropropane	431-63-0	0.52700	0.23555	407.33	0.28571	190.00	407.33	2	298.15	1.4219
1370	C3H2F6	1,1,1,3,3,3-hexafluoropropane	690-39-1	0.52518	0.23405	406.85	0.28571	179.53	406.85	2	298.15	1.4219
1371	C3H2F6	1,1,2,2,3,3-hexafluoropropane	680-00-2	0.47736	0.20971	417.09	0.28571	190.00	417.09	2	298.15	1.4219
1377	C3H2N2	malononitrile	109-77-3	0.26640	0.17932	715.00	0.26090	304.90	715.00	1,2	491.50	0.9475
1402	C3H3Cl	propargyl chloride	624-65-7	0.35310	0.25454	541.00	0.31320	200.00	541.00	1,2	298.15	1.0240
1449	C3H3F5	1,1,1,2,2-pentafluoropropane	1814-88-6	0.49374	0.22221	385.19	0.28571	190.00	385.19	2	298.15	1.3200
1450	C3H3F5	1,1,1,2,3-pentafluoropropane	431-31-2	0.48481	0.23013	403.84	0.28571	190.00	403.84	2	298.15	1.3200
1451	C3H3F5	1,1,1,3,3-pentafluoropropane	460-73-1	0.48481	0.23013	403.84	0.28571	190.00	403.84	2	298.15	1.3200
1452	C3H3F5	1,1,2,2,3-pentafluoropropane	679-86-7	0.48481	0.25395	447.44	0.28571	190.00	447.44	2	298.15	1.3200
1453	C3H3F5	1,1,2,3,3-pentafluoropropane	24270-66-4	0.41825	0.20490	441.38	0.28571	190.00	441.38	2	298.15	1.3200
1462	C3H3N	acrylonitrile	107-13-1	0.25030	0.22934	535.00	0.28939	189.63	535.00	1,2	298.15	0.8010
1463	C3H3NO	oxazole	288-42-6	0.29140	0.20221	554.00	0.28571	200.00	554.00	1,2	298.15	1.0500
1492	C3H4	methylacetylene	74-99-7	0.24430	0.26535	402.39	0.27900	170.45	402.39	1,2	298.15	0.6070
1493	C3H4	allene	463-49-0	0.24730	0.27030	393.15	0.30300	136.87	393.15	1,2	298.15	0.5790
1514	C3H4Br4	1,1,1,2-tetrabromopropane	62127-49-5	0.82780	0.26156	788.99	0.28571	349.69	788.99	1,2	523.15	2.2119
1515	C3H4Br4	1,1,1,3-tetrabromopropane	62127-50-8	0.81653	0.25666	797.25	0.28571	364.69	797.25	2	533.15	2.2016
1516	C3H4Br4	1,1,2,2-tetrabromopropane	34570-59-7	0.82780	0.25891	766.37	0.28571	349.69	766.37	1,2	508.15	2.2285
1517	C3H4Br4	1,1,2,3-tetrabromopropane	34581-76-5	0.81839	0.25739	798.18	0.28571	332.27	798.18	2	538.15	2.1916
1518	C3H4Br4	1,1,3,3-tetrabromopropane	51525-97-4	0.81839	0.25719	813.01	0.28571	332.27	813.01	1,2	548.15	2.1929
1519	C3H4Br4	1,2,2,3-tetrabromopropane	54268-02-9	0.81653	0.25476	782.30	0.28571	283.85	782.30	1,2	298.15	2.6900
1533	C3H4Cl2	2,3-dichloropropene	78-88-6	0.40060	0.25363	577.00	0.30630	191.50	577.00	1,2	298.15	1.2010
1534	C3H4Cl2	1,1-dichloropropene	563-58-6	0.40060	0.26278	577.00	0.28571	191.50	577.00	1,2	298.15	1.1864
1535	C3H4Cl2	cis-1,2-dichloropropene	6923-20-2	0.40060	0.26036	577.00	0.28571	191.50	577.00	2	298.15	1.1954
1536	C3H4Cl2	trans-1,2-dichloropropene	7069-38-7	0.40060	0.26583	577.00	0.28571	191.50	577.00	1,2	298.15	1.1753
1537	C3H4Cl2	cis-1,3-dichloropropene	10061-01-5	0.40060	0.25465	577.00	0.28571	191.50	577.00	1,2	298.15	1.2171
1538	C3H4Cl2	trans-1,3-dichloropropene	10061-02-6	0.40060	0.25644	577.00	0.28571	191.50	577.00	1,2	298.15	1.2102
1539	C3H4Cl2	3,3-dichloropropene	563-57-5	0.40060	0.26771	577.00	0.28571	191.50	577.00	1,2	298.15	1.1686
1540	C3H4Cl2	1,3-dichloropropene; (cis+trans)	542-75-6	0.40060	0.25675	577.00	0.28571	191.50	577.00	1,2	298.15	1.2090
1541	C3H4Cl2	1,2-dichloropropene	563-54-2	0.40060	0.26036	577.00	0.28571	191.50	577.00	2	298.15	1.1954
1542	C3H4Cl2	dichloropropylene	26952-23-8	0.40060	0.26036	577.00	0.28571	191.50	577.00	2	298.15	1.1954
1565	C3H4Cl4	1,1,1,2-tetrachloropropane	812-03-3	0.47549	0.26118	646.86	0.28571	208.15	646.86	1,2	298.15	1.4650
1566	C3H4Cl4	1,1,1,3-tetrachloropropane	1070-78-6	0.46815	0.25012	654.78	0.28571	245.17	654.78	1,2	298.15	1.5008
1567	C3H4Cl4	1,1,2,2-tetrachloropropane	13116-60-4	0.47549	0.25492	654.51	0.28571	230.17	654.51	1,2	298.15	1.5000
1568	C3H4Cl4	1,1,2,3-tetrachloropropane	18495-30-2	0.46935	0.25350	677.77	0.28571	212.75	677.77	1,2	298.15	1.5016
1569	C3H4Cl4	1,1,3,3-tetrachloropropane	1653-17-4	0.46935	0.25182	661.02	0.28571	212.75	661.02	1,2	298.15	1.5000
1570	C3H4Cl4	1,2,2,3-tetrachloropropane	13116-53-5	0.46815	0.25401	662.36	0.28571	245.17	662.36	1,2	298.15	1.4861
1578	C3H4F4	1,1,1,2-tetrafluoropropane	421-48-7	0.44897	0.24155	414.81	0.28571	239.09	414.81	2	298.15	1.2068
1579	C3H4F4	1,1,1,3-tetrafluoropropane	460-36-6	0.43879	0.24057	457.10	0.28571	254.09	457.10	1,2	298.15	1.2584
1580	C3H4F4	1,1,2,2-tetrafluoropropane	40723-63-5	0.44897	0.26268	457.26	0.28571	239.09	457.26	2	298.15	1.2068
1581	C3H4F4	1,1,2,3-tetrafluoropropane	---	0.44045	0.25266	449.44	0.28571	221.67	449.44	2	298.15	1.2068
1582	C3H4F4	1,1,3,3-tetrafluoropropane	---	0.44045	0.25266	449.44	0.28571	221.67	449.44	2	298.15	1.2068
1583	C3H4F4	1,2,2,3-tetrafluoropropane	813-75-2	0.43879	0.25299	453.25	0.28571	254.09	453.25	2	298.15	1.2068
1585	C3H4I4	1,1,1,2-tetraiodopropane	66794-31-8	1.01705	0.28039	992.10	0.28571	342.73	992.10	2	636.93	2.6250
1586	C3H4I4	1,1,1,3-tetraiodopropane	66794-32-9	1.00585	0.27659	983.52	0.28571	357.73	983.52	2	637.37	2.6104
1587	C3H4I4	1,1,2,2-tetraiodopropane	66794-33-0	1.01705	0.28039	992.10	0.28571	342.73	992.10	2	636.93	2.6250
1588	C3H4I4	1,1,2,3-tetraiodopropane	66794-21-6	1.00770	0.27691	978.29	0.28571	325.31	978.29	2	639.72	2.6010
1589	C3H4I4	1,1,3,3-tetraiodopropane	66794-34-1	1.00770	0.27691	978.29	0.28571	325.31	978.29	2	639.72	2.6010
1590	C3H4I4	1,2,2,3-tetraiodopropane	66794-20-5	1.00585	0.27659	983.52	0.28571	357.73	983.52	2	637.37	2.6104
1621	C3H4O	acrolein	107-02-8	0.28130	0.25763	506.00	0.24890	185.45	506.00	1,2	298.15	0.8340
1622	C3H4O	propargyl alcohol	107-19-7	0.31850	0.26274	580.00	0.28570	221.35	580.00	1,2	298.15	0.9450

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
1626	C3H4O2	acrylic acid	79-10-7	0.34650	0.25812	615.00	0.30701	286.65	615.00	1,2	298.15	1.0460
1627	C3H4O2	beta-propiolactone	57-57-8	0.36960	0.23567	686.00	0.28571	239.75	686.00	1,2	298.15	1.2620
1628	C3H4O2	vinyl formate	692-45-5	0.33210	0.25137	498.00	0.29455	200.00	498.00	1,2	298.15	0.9540
1633	C3H4O3	ethylene carbonate	96-49-1	0.45630	0.29296	790.00	0.28600	309.55	790.00	1,2	511.15	1.1353
1634	C3H4O3	pyruvic acid	127-17-3	0.36850	0.23910	634.52	0.23400	286.75	634.52	1,2	298.15	1.2650
1642	C3H5Br	cis-1-bromo-1-propene	590-13-6	0.49278	0.26014	523.23	0.28571	160.15	523.23	1,2	298.15	1.4197
1643	C3H5Br	trans-1-bromo-1-propene	590-15-8	0.49278	0.26546	531.77	0.28571	196.65	531.77	1,2	298.15	1.4061
1644	C3H5Br	2-bromo-1-propene	557-93-7	0.48879	0.26343	510.32	0.28571	147.15	510.32	1,2	298.15	1.3803
1645	C3H5Br	3-bromo-1-propene	106-95-6	0.49080	0.27023	540.20	0.28571	153.76	540.20	1,2	298.15	1.3890
1647	C3H5Br	1-bromo-1-propene; (cis+trans)	590-14-7	0.49129	0.26150	526.38	0.28571	157.25	526.38	1,2	298.15	1.4130
1663	C3H5Br3	1,1,1-tribromopropane	62127-61-1	0.74184	0.26005	710.72	0.28571	304.89	710.72	1,2	465.15	2.0048
1664	C3H5Br3	1,1,2-tribromopropane	14602-62-1	0.74380	0.26224	718.16	0.28571	272.47	718.16	1,2	298.15	2.3451
1665	C3H5Br3	1,1,3-tribromopropane	23511-78-6	0.73216	0.25682	718.00	0.28571	287.47	718.00	1,2	298.15	2.3500
1666	C3H5Br3	1,2,2-tribromopropane	14476-30-3	0.74184	0.26794	709.19	0.28571	304.89	709.19	1,2	464.15	1.9611
1667	C3H5Br3	1,2,3-tribromopropane	96-11-7	0.73216	0.25167	743.76	0.28571	289.34	743.76	1,2	298.15	2.4110
1668	C3H5Cl	cis-1-chloro-1-propene	16136-84-8	0.32914	0.25684	485.56	0.28571	138.35	485.56	1,2	298.15	0.9271
1669	C3H5Cl	trans-1-chloro-1-propene	16136-85-9	0.32914	0.25921	492.86	0.28571	174.15	492.86	1,2	298.15	0.9270
1670	C3H5Cl	2-chloro-1-propene	557-98-2	0.32700	0.26415	478.00	0.28571	135.75	478.00	1,2	298.15	0.8950
1671	C3H5Cl	3-chloro-1-propene	107-05-1	0.32700	0.26172	514.15	0.28570	138.65	514.15	1,2	298.15	0.9310
1672	C3H5Cl	1-chloro-1-propene	590-21-6	0.32807	0.26097	492.64	0.28571	135.85	492.64	1,2	298.15	0.9190
1676	C3H5ClO	alpha-epichlorohydrin	106-89-8	0.39710	0.26490	610.00	0.30308	215.95	610.00	1,2	298.15	1.1740
1688	C3H5ClO2	methyl chloroacetate	96-34-4	0.40190	0.25093	600.00	0.30950	241.03	600.00	1,2	298.15	1.2290
1689	C3H5ClO2	ethyl chloroformate	541-41-3	0.39610	0.26113	508.15	0.28300	192.00	508.15	1,2	298.15	1.1270
1703	C3H5Cl3	1,1,1-trichloropropane	7789-89-1	0.43426	0.26497	585.43	0.28571	215.25	585.43	1,2	298.15	1.2835
1704	C3H5Cl3	1,1,2-trichloropropane	598-77-6	0.43554	0.25061	619.96	0.28571	182.83	619.96	1,2	298.15	1.3720
1705	C3H5Cl3	1,1,3-trichloropropane	20395-25-9	0.42795	0.25136	635.01	0.28571	214.17	635.01	1,2	298.15	1.3544
1706	C3H5Cl3	1,2,2-trichloropropane	3175-23-3	0.43426	0.26085	611.68	0.28571	215.25	611.68	1,2	298.15	1.3180
1707	C3H5Cl3	1,2,3-trichloropropane	96-18-4	0.44140	0.25645	652.00	0.28570	258.45	652.00	1,2	298.15	1.3840
1711	C3H5F	cis-1-fluoro-1-propene	19184-10-2	0.29812	0.25535	430.49	0.28571	150.14	430.49	1,2	298.15	0.7900
1712	C3H5F	trans-1-fluoro-1-propene	20327-65-5	0.29812	0.25535	430.49	0.28571	150.14	430.49	1,2	298.15	0.7900
1713	C3H5F	2-fluoro-1-propene	1184-60-7	0.29519	0.23091	396.62	0.28571	139.50	396.62	1,2	298.15	0.7900
1714	C3H5F	3-fluoro-1-propene	818-92-8	0.29665	0.23118	394.72	0.28571	190.00	394.72	1,2	298.15	0.7900
1721	C3H5F3	1,1,1-trifluoropropane	421-07-8	0.39385	0.23204	392.00	0.28571	124.35	392.00	1,2	298.15	1.0400
1722	C3H5F3	1,1,2-trifluoropropane	---	0.39946	0.24625	404.56	0.28571	189.52	404.56	2	298.15	1.0400
1723	C3H5F3	1,1,3-trifluoropropane	24270-67-5	0.38993	0.23571	401.66	0.28571	204.52	401.66	2	298.15	1.0400
1724	C3H5F3	1,2,2-trifluoropropane	811-94-9	0.39784	0.24481	404.58	0.28571	221.94	404.58	2	298.15	1.0400
1725	C3H5F3	1,2,3-trifluoropropane	66794-36-3	0.38993	0.23571	401.66	0.28571	204.52	401.66	2	298.15	1.0400
1734	C3H5I	cis-1-iodo-1-propene	7796-36-3	0.61870	0.27339	582.79	0.28571	176.05	582.79	1,2	298.15	1.7800
1735	C3H5I	trans-1-iodo-1-propene	7796-54-5	0.61870	0.27339	582.79	0.28571	176.05	582.79	1,2	298.15	1.7800
1736	C3H5I	2-iodo-1-propene	4375-96-6	0.61418	0.27249	597.58	0.28571	165.41	597.58	1,2	298.15	1.7856
1737	C3H5I	3-iodo-1-propene	556-56-9	0.61640	0.26374	595.81	0.28571	173.86	595.81	1,2	298.15	1.8390
1742	C3H5I3	1,1,1-triiodopropane	---	0.92396	0.27718	852.51	0.28571	299.67	852.51	2	544.23	2.4118
1743	C3H5I3	1,1,2-triiodopropane	---	0.92599	0.27759	848.18	0.28571	267.25	848.18	2	298.15	2.8735
1744	C3H5I3	1,1,3-triiodopropane	---	0.91395	0.27304	841.02	0.28571	282.25	841.02	2	298.15	2.8735
1745	C3H5I3	1,2,2-triiodopropane	---	0.92396	0.27718	852.51	0.28571	299.67	852.51	2	544.23	2.4118
1746	C3H5I3	1,2,3-triiodopropane	---	0.91395	0.27304	841.02	0.28571	282.25	841.02	2	298.15	2.8735
1752	C3H5N	propionitrile	107-12-0	0.24050	0.23510	564.40	0.28040	180.26	564.40	1,2	298.15	0.7770
1753	C3H5N	ethyl isocyanide	624-79-3	0.24000	0.24241	535.33	0.28571	193.16	535.33	1,2	298.15	0.7378
1755	C3H5NO	acrylamide	79-06-1	0.27340	0.23020	710.00	0.28571	357.65	710.00	2	465.75	0.8074
1756	C3H5NO	hydracrylonitrile	109-78-4	0.29250	0.23685	690.00	0.22451	227.15	690.00	1,2	298.15	1.0400
1757	C3H5NO	lactonitrile	78-97-7	0.29250	0.24614	643.00	0.23340	233.00	643.00	1,2	298.15	0.9830
1760	C3H5NO	ethyl isocyanate	109-90-0	0.29200	0.24049	526.00	0.28571	250.00	526.00	1,2	298.15	0.8968
1796	C3H5N3O9	nitroglycerine	55-63-0	0.54200	0.27898	680.00	0.29995	286.15	680.00	1,2	298.15	1.5860
1809	C3H6	cyclopropane	75-19-4	0.25850	0.27348	397.91	0.28571	145.73	397.91	1,2	298.15	0.6190
1810	C3H6	propylene	115-07-1	0.23250	0.27418	364.76	0.30246	87.90	364.76	1,2	298.15	0.5040
1824	C3H6Br2	1,1-dibromopropane	598-17-4	0.62796	0.25170	624.11	0.28571	227.67	624.11	1,2	298.15	1.9750
1825	C3H6Br2	1,2-dibromopropane	78-75-1	0.62800	0.26105	634.11	0.28571	217.96	634.11	1,2	298.15	1.9250
1826	C3H6Br2	1,3-dibromopropane	109-64-8	0.61645	0.25272	669.94	0.28571	238.95	669.94	1,2	298.15	1.9713
1827	C3H6Br2	2,2-dibromopropane	594-16-1	0.63788	0.28036	607.05	0.28571	245.09	607.05	1,2	298.15	1.8200
1844	C3H6Cl2	1,1-dichloropropane	78-99-9	0.38830	0.26636	560.00	0.28571	167.91	560.00	1,2	298.15	1.1260
1845	C3H6Cl2	1,2-dichloropropane	78-87-5	0.38830	0.26183	572.00	0.28571	172.71	572.00	1,2	298.15	1.1500
1846	C3H6Cl2	1,3-dichloropropane	142-28-9	0.38830	0.26232	603.00	0.27100	173.65	603.00	1,2	298.15	1.1810
1847	C3H6Cl2	2,2-dichloropropane	594-20-7	0.38890	0.26840	539.46	0.28571	239.36	539.46	1,2	298.15	1.1060
1848	C3H6Cl2	1,2-dichloropropane, (±)	26198-63-0	0.38845	0.26146	568.62	0.28571	172.62	568.62	1,2	298.15	1.1494
1849	C3H6Cl2	dichloropropane	26638-19-7	0.38845	0.26343	568.62	0.28571	172.65	568.62	2	298.15	1.1425
1865	C3H6F2	1,1-difluoropropane	430-61-5	0.33931	0.24704	430.00	0.28571	172.37	430.00	1,2	298.15	0.9200
1866	C3H6F2	1,2-difluoropropane	62126-90-3	0.32224	0.22273	443.30	0.28571	171.00	443.30	1,2	298.15	0.9600
1867	C3H6F2	1,3-difluoropropane	462-39-5	0.33435	0.23412	480.87	0.28571	187.37	480.87	1,2	298.15	1.0057
1868	C3H6F2	2,2-difluoropropane	420-45-1	0.35045	0.26071	428.96	0.28571	168.35	428.96	1,2	298.15	0.9130
1871	C3H6I2	1,1-diiodopropane	10250-52-9	0.79221	0.26392	708.27	0.28571	224.19	708.27	1,2	298.15	2.4760
1872	C3H6I2	1,2-diiodopropane	598-29-8	0.79220	0.25962	780.49	0.28571	253.16	780.49	1,2	298.15	2.5660
1873	C3H6I2	1,3-diiodopropane	627-31-6	0.77968	0.25400	766.97	0.28571	260.15	766.97	1,2	298.15	2.5645
1874	C3H6I2	2,2-diiodopropane	630-13-7	0.80296	0.26828	709.92	0.28571	241.61	709.92	1,2	298.15	2.4760
1920	C3H6O	allyl alcohol	107-18-6	0.27920	0.24943	545.05	0.28571	144.15	545.05	1,2	298.15	0.8450
1921	C3H6O	methyl vinyl ether	107-25-5	0.27660	0.26444	437.00	0.25805	151.15	437.00	1,2	298.15	0.7440
1922	C3H6O	propionaldehyde	123-38-6	0.27660	0.25289	496.00	0.28600	193.15	496.00	1,2	298.15	0.7960
1923	C3H6O	acetone	67-64-1	0.27790	0.25818	508.20	0.29903	178.45	508.20	1,2	298.15	0.7860
1924	C3H6O	1,2-propylene oxide	75-56-9	0.31230	0.27651	482.25	0.29353	161.22	482.25	1,2	298.15	0.8230
1925	C3H6O	1,3-propylene oxide	503-30-0	0.30890	0.25782	520.00	0.28571	161.24	520.00	1,2	298.15	0.8940
1927	C3H6O	(S)-(-)-propylene oxide	16088-62-3	0.31060	0.28233	501.13	0.28571	161.25	501.13	1,2	298.15	0.8250

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^{\wedge}n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
1928	C3H6O	(R)-(+)-propylene oxide	15448-47-2	0.31060	0.28389	501.13	0.28571	161.24	501.13	2	298.15	0.8215
1930	C3H6O2	propanoic acid	79-09-4	0.32210	0.25852	604.00	0.27644	252.45	604.00	1,2	298.15	0.9880
1931	C3H6O2	ethyl formate	109-94-4	0.32350	0.25919	508.40	0.29354	193.55	508.40	1,2	298.15	0.9170
1932	C3H6O2	methyl acetate	79-20-9	0.32490	0.26246	506.80	0.27450	175.15	506.80	1,2	298.15	0.9270
1942	C3H6O2S	3-mercaptopropionic acid	107-96-0	0.37770	0.23611	729.00	0.40466	290.65	729.00	1,2	298.15	1.2130
1948	C3H6O3	lactic acid	50-21-5	0.41530	0.27724	616.00	0.28570	291.15	616.00	1,2	298.15	1.2010
1949	C3H6O3	methoxyacetic acid	625-45-6	0.35890	0.25162	691.00	0.27447	281.00	691.00	1,2	298.15	1.1700
1950	C3H6O3	trioxane	110-88-3	0.43730	0.28818	604.00	0.28570	334.65	604.00	1,2	387.65	1.1060
1967	C3H6S	thiacyclobutane	287-27-4	0.37160	0.29528	603.00	0.28571	199.96	603.00	1,2	298.15	1.0140
1968	C3H6S	2-methylthiacyclopropane	1072-43-1	0.35906	0.30308	561.10	0.28571	182.15	561.10	1,2	298.15	0.9390
1978	C3H7Br	1-bromopropane	106-94-5	0.46240	0.26027	544.00	0.29165	163.15	544.00	1,2	298.15	1.3450
1979	C3H7Br	2-bromopropane	75-26-3	0.46240	0.24818	532.00	0.38000	184.15	532.00	1,2	298.15	1.2820
1986	C3H7Cl	1-chloropropane	540-54-5	0.31800	0.27810	503.15	0.28570	150.35	503.15	1,2	298.15	0.8560
1987	C3H7Cl	2-chloropropane	75-29-6	0.31800	0.27415	489.00	0.28571	155.97	489.00	1,2	298.15	0.8550
2020	C3H7F	1-fluoropropane	460-13-9	0.28030	0.23099	422.00	0.28571	114.16	422.00	1,2	298.15	0.7870
2021	C3H7F	2-fluoropropane	420-26-8	0.28810	0.26192	415.68	0.28571	139.80	415.68	1,2	298.15	0.7330
2025	C3H7I	1-iodopropane	107-08-4	0.58620	0.26129	593.00	0.30121	171.85	593.00	1,2	298.15	1.7390
2026	C3H7I	2-iodopropane	75-30-9	0.58620	0.26657	578.00	0.30232	183.15	578.00	1,2	298.15	1.6950
2030	C3H7N	allylamine	107-11-9	0.23120	0.23990	505.00	0.20760	184.95	505.00	1,2	298.15	0.7570
2031	C3H7N	propyleneimine	75-55-8	0.27450	0.25689	529.00	0.28600	229.00	529.00	1,2	298.15	0.8020
2036	C3H7NO	N,N-dimethylformamide	68-12-2	0.27380	0.23008	647.00	0.27630	212.72	647.00	1,2	298.15	0.9450
2037	C3H7NO	N-methylacetamide	79-16-3	0.27380	0.24048	718.00	0.27379	301.15	718.00	1,2	478.15	0.7868
2038	C3H7NO	N-ethylformamide	627-45-2	0.27380	0.22658	647.00	0.28571	212.72	647.00	1,2	298.15	0.9504
2045	C3H7NO2	1-nitropropane	108-03-2	0.30940	0.24468	605.00	0.27365	169.16	605.00	1,2	298.15	0.9960
2046	C3H7NO2	2-nitropropane	79-46-9	0.30940	0.24686	594.00	0.27368	181.83	594.00	1,2	298.15	0.9830
2094	C3H8	propane	74-98-6	0.21740	0.26948	369.82	0.28700	85.46	369.82	1,2	298.15	0.4930
2129	C3H8O	propyl alcohol	71-23-8	0.27500	0.26976	536.71	0.24940	146.95	536.71	1,2	298.15	0.8020
2130	C3H8O	isopropyl alcohol	67-63-0	0.27300	0.27093	508.31	0.24300	185.28	508.31	1,2	298.15	0.7830
2131	C3H8O	methyl ethyl ether	540-67-0	0.27190	0.27242	437.80	0.28950	160.00	437.80	1,2	298.15	0.6920
2138	C3H8O2	2-methoxyethanol	109-86-4	0.31440	0.25061	564.00	0.28570	188.05	564.00	1,2	298.15	0.9600
2139	C3H8O2	methylal	109-87-5	0.35730	0.30570	480.60	0.31755	168.35	480.60	1,2	298.15	0.8540
2140	C3H8O2	1,2-propanediol (propylene glycol)	57-55-6	0.31840	0.26095	626.00	0.20459	213.15	626.00	1,2	298.15	1.0330
2141	C3H8O2	1,3-propanediol	504-63-2	0.35070	0.27111	658.00	0.28570	246.45	658.00	1,2	298.15	1.0520
2143	C3H8O2	(R)-(-)-1,2-propanediol	4254-14-2	0.33455	0.25777	642.00	0.28571	265.77	642.00	1,2	298.15	1.0400
2144	C3H8O2	(S)-(+)-1,2-propanediol	4254-15-3	0.33455	0.25777	642.00	0.28571	337.70	642.00	1,2	460.15	0.8611
2148	C3H8O3	glycerol	56-81-5	0.34880	0.24872	723.00	0.15410	291.33	723.00	1,2	298.15	1.2570
2156	C3H8O4S	ethyl methyl sulfate	814-40-4	0.40895	0.28354	775.00	0.28571	241.15	775.00	1,2	298.15	1.2250
2158	C3H8S	propyl mercaptan	107-03-9	0.29990	0.27920	536.00	0.26920	159.95	536.00	1,2	298.15	0.8360
2159	C3H8S	isopropyl mercaptan	75-33-2	0.29990	0.28122	517.00	0.28571	142.61	517.00	1,2	298.15	0.8090
2160	C3H8S	methyl ethyl sulfide	624-89-5	0.29580	0.27058	532.80	0.28571	167.20	532.80	1,2	298.15	0.8320
2161	C3H8S2	bis(methylthio)methane	1618-26-4	0.35765	0.26627	624.00	0.28571	250.00	624.00	2	298.15	1.0734
2200	C3H9N	propylamine	107-10-8	0.22740	0.23846	496.95	0.24610	190.15	496.95	1,2	298.15	0.7140
2201	C3H9N	isopropylamine	75-31-0	0.26750	0.28266	471.85	0.29720	177.95	471.85	1,2	298.15	0.6840
2202	C3H9N	methylethylamine	624-78-2	0.25154	0.26537	475.00	0.28571	175.73	475.00	1,2	298.15	0.6840
2203	C3H9N	trimethylamine	75-50-3	0.23270	0.25666	433.25	0.26870	156.08	433.25	1,2	298.15	0.6290
2204	C3H9NO	1-amino-2-propanol	78-96-6	0.27020	0.23106	614.00	0.22134	274.89	614.00	1,2	298.15	0.9570
2205	C3H9NO	3-amino-1-propanol	156-87-6	0.27020	0.21737	649.00	0.28570	284.15	649.00	1,2	298.15	0.9720
2206	C3H9NO	methylethanolamine	109-83-1	0.29690	0.25248	630.00	0.28570	268.65	630.00	1,2	298.15	0.9340
2207	C3H9NO	2-amino-1-propanol, (±)	6168-72-5	0.27910	0.22792	631.00	0.28571	286.52	631.00	2	298.15	0.9566
2210	C3H9NO	s(+)-2-amino-1-propanol	2749-11-3	0.27910	0.22553	631.00	0.28571	286.52	631.00	1,2	298.15	0.9650
2211	C3H9NO	(R)-(-)-1-amino-2-propanol	2799-16-8	0.27910	0.22923	631.00	0.28571	297.65	631.00	1,2	298.15	0.9520
2212	C3H9NO	(S)-(+)-1-amino-2-propanol	2799-17-9	0.27910	0.22866	631.00	0.28571	295.65	631.00	1,2	298.15	0.9540
2213	C3H9NO	(R)-(-)-2-amino-1-propanol	35320-23-1	0.27910	0.22637	631.00	0.28571	286.52	631.00	1,2	298.15	0.9620
2214	C3H9NO	2-aminopropanol	78-91-1	0.27910	0.22792	631.00	0.28571	298.15	631.00	2	447.15	0.7893
2241	C3H9O4P	trimethyl phosphate	512-56-1	0.61050	0.45826	764.00	0.28571	227.00	764.00	1,2	298.15	1.2020
2255	C3H10N2	1,2-propanediamine	78-90-0	0.27774	0.25928	587.00	0.25620	236.53	587.00	1,2	298.15	0.8560
2257	C3H10N2	1,2-propanediamine, (±)	10424-38-1	0.27774	0.24763	587.00	0.28571	236.53	587.00	1,2	298.15	0.8683
2258	C3H10N2	1,3-propanediamine	109-76-2	0.27774	0.24224	587.00	0.28571	236.53	587.00	1,2	298.15	0.8840
2268	C3H10Si	trimethyl silane	993-07-7	0.23860	0.26414	432.00	0.29230	137.26	432.00	1,2	298.15	0.6140
2317	C4Cl4S	tetrachlorothiophene	6012-97-1	0.51850	0.25204	753.00	0.28570	301.97	753.00	1,2	506.54	1.4118
2318	C4Cl6	hexachloro-1,3-butadiene	87-68-3	0.53110	0.28788	741.00	0.28570	252.15	741.00	1,2	298.15	1.5560
2334	C4F8	octafluoro-2-butene	360-89-4	0.57650	0.25396	392.00	0.28126	138.15	392.00	1,2	298.15	1.4420
2335	C4F8	perfluoroisobutene	382-21-8	0.57650	0.23963	392.00	0.28571	143.15	392.00	1,2	298.15	1.4901
2336	C4F8	octafluorocyclobutane	115-25-3	0.61590	0.26446	388.37	0.27770	232.96	388.37	1,2	298.15	1.4950
2337	C4F8	1,1,2,3,3,4,4,4-octafluoro-1-butene	357-26-6	0.57650	0.24327	392.00	0.28571	140.65	392.00	2	298.15	1.4752
2338.1	C4F8O	pentafluoroethyl trifluorovinyl ether	10493-43-3	0.60344	0.28495	401.00	0.28571	128.00	401.00	2	298.15	1.4133
2344	C4F10	decafluorobutane	355-25-9	0.59960	0.25735	386.35	0.26700	144.95	386.35	1,2	298.15	1.4970
2345	C4F10	perfluoroisobutane	354-92-7	0.59960	0.25735	386.35	0.26700	144.95	386.35	1,2	298.15	1.4970
2374	C4H2	biacetylene	460-12-8	0.27280	0.28286	478.02	0.28571	237.16	478.02	2	298.15	0.7090
2420.1	C4H2N2	maleonitrile	928-53-0	0.27203	0.18451	704.00	0.28571	304.40	704.00	2	298.15	1.1527
2430	C4H2O3	maleic anhydride	108-31-6	0.44780	0.26126	721.00	0.35584	326.00	721.00	1,2	475.15	1.1184
2510	C4H4	vinylacetylene	689-97-4	0.25400	0.26274	454.00	0.28571	150.00	454.00	1,2	298.15	0.6800
2562	C4H4N2	succinonitrile	110-61-2	0.26700	0.21795	770.00	0.27023	331.30	770.00	1,2	540.15	0.8012
2592	C4H4O	furan	110-00-9	0.31200	0.24634	490.15	0.26050	187.55	490.15	1,2	298.15	0.9350
2598	C4H4O2	diketene	674-82-8	0.35930	0.27375	616.00	0.28571	266.65	616.00	1,2	298.15	1.0500
2603	C4H4O3	succinic anhydride	108-30-5	0.44880	0.32694	811.00	0.28571	393.00	811.00	1,2	536.58	1.0193
2605	C4H4O4	fumaric acid	110-17-8	0.39080	0.19382	771.00	0.28571	560.15	771.00	1,2	563.15	1.2077
2606	C4H4O4	maleic acid	110-16-7	0.39080	0.19863	773.00	0.29000	403.45	773.00	1,2	565.00	1.1794
2613	C4H4S	thiophene	110-02-1	0.38420	0.28182	579.35	0.30770	234.94	579.35	1,2	298.15	1.0590
2634	C4H5Cl	chloroprene	126-99-8	0.32430	0.25721	525.00	0.27860	143.15	525.00	1,2	298.15	0.9500

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
2635	C4H5Cl	4-chloro-1,2-butadiene	25790-55-0	0.32430	0.24452	525.00	0.28571	143.15	525.00	1,2	298.15	0.9823
2636	C4H5Cl	1-chloro-1,3-butadiene	627-22-5	0.32430	0.25372	525.00	0.28571	143.15	525.00	1,2	298.15	0.9541
2695	C4H5N	trans-crotonitrile	627-26-9	0.23790	0.22390	586.00	0.28570	222.00	586.00	1,2	298.15	0.8070
2696	C4H5N	cis-crotonitrile	1190-76-7	0.25320	0.23497	568.00	0.28223	200.55	568.00	1,2	298.15	0.8190
2697	C4H5N	methacrylonitrile	126-98-7	0.25320	0.23728	554.00	0.29632	237.35	554.00	1,2	298.15	0.7950
2698	C4H5N	vinylacetonitrile	109-75-1	0.25900	0.23904	584.00	0.28991	186.15	584.00	1,2	298.15	0.8290
2699	C4H5N	2-butenenitrile	4786-20-3	0.25083	0.23235	573.00	0.28571	221.65	573.00	1,2	298.15	0.8189
2701	C4H5N	pyrrole	109-97-7	0.29170	0.24715	639.75	0.24793	249.74	639.75	1,2	298.15	0.9650
2713	C4H5NO2	methyl cyanoacetate	105-34-0	0.32490	0.22689	687.00	0.31950	260.08	687.00	1,2	298.15	1.1190
2753	C4H6	cyclobutene	822-35-5	0.27670	0.27813	446.33	0.28571	153.76	446.33	1,2	298.15	0.7040
2754	C4H6	dimethylacetylene	503-17-3	0.24480	0.25942	488.15	0.28571	240.91	488.15	1,2	298.15	0.6860
2755	C4H6	ethylacetylene	107-00-6	0.24370	0.26141	443.20	0.28310	147.43	443.20	1,2	298.15	0.6480
2756	C4H6	1,2-butadiene	590-19-2	0.24700	0.26676	444.00	0.28570	136.95	444.00	1,2	298.15	0.6460
2757	C4H6	butadiene (1,3 butadiene)	106-99-0	0.24490	0.27040	425.37	0.29074	164.25	425.37	1,2	298.15	0.6150
2806	C4H6Cl2	1,3-dichloro-trans-2-butene	7415-31-8	0.38460	0.26734	618.00	0.27883	246.21	618.00	1,2	298.15	1.1530
2807	C4H6Cl2	1,4-dichloro-cis-2-butene	1476-11-5	0.36440	0.24325	640.00	0.28571	225.15	640.00	1,2	298.15	1.1880
2808	C4H6Cl2	1,4-dichloro-trans-2-butene	110-57-6	0.37880	0.25505	640.00	0.28570	274.15	640.00	1,2	298.15	1.1870
2809	C4H6Cl2	3,4-dichloro-1-butene	760-23-6	0.37880	0.26545	640.00	0.28570	212.00	640.00	1,2	298.15	1.1480
2810	C4H6Cl2	3-chloro-2-(chloromethyl)-1-propene	1871-57-4	0.37665	0.25703	640.00	0.28571	259.15	640.00	1,2	298.15	1.1727
2811	C4H6Cl2	1,3-dichloro-1-butene	52497-07-1	0.37665	0.26781	640.00	0.28571	246.21	640.00	1,2	298.15	1.1331
2812	C4H6Cl2	2,3-dichloro-1-butene	7013-11-8	0.37665	0.26901	640.00	0.28571	246.21	640.00	1,2	298.15	1.1288
2813	C4H6Cl2	1,1-dichloro-2-butene	56800-09-0	0.37665	0.26986	640.00	0.28571	246.21	640.00	1,2	298.15	1.1259
2814	C4H6Cl2	1,2-dichloro-2-butene	13602-13-6	0.37665	0.26182	640.00	0.28571	246.21	640.00	1,2	298.15	1.1547
2815	C4H6Cl2	cis-1,3-dichloro-2-butene	10075-38-4	0.37665	0.26171	640.00	0.28571	246.21	640.00	1,2	298.15	1.1551
2816	C4H6Cl2	cis-2,3-dichloro-2-butene	1587-26-4	0.37665	0.26136	640.00	0.28571	246.21	640.00	1,2	298.15	1.1564
2817	C4H6Cl2	trans-2,3-dichloro-2-butene	1587-29-7	0.37665	0.26688	640.00	0.28571	246.21	640.00	1,2	298.15	1.1364
2818	C4H6Cl2	1,1-dichloro-2-methyl-1-propene	6065-93-6	0.37665	0.26602	640.00	0.28571	230.15	640.00	1,2	298.15	1.1394
2819	C4H6Cl2	3,3-dichloro-2-methyl-1-propene	22227-75-4	0.37665	0.26728	640.00	0.28571	246.21	640.00	1,2	298.15	1.1350
2820	C4H6Cl2	1,4-dichloro-2-butene	764-41-0	0.37665	0.26266	640.00	0.28571	276.65	640.00	2	298.15	1.1516
2821	C4H6Cl2	1,3-dichloro-2-butene, cis and trans	926-57-8	0.37665	0.26012	640.00	0.28571	246.21	640.00	1,2	298.15	1.1610
2822	C4H6Cl2	dichlorobutene	11069-19-5	0.37665	0.26266	640.00	0.28571	246.21	640.00	2	298.15	1.1516
2856	C4H6Cl4	1,1,1,2-tetrachlorobutane	39966-95-5	0.44574	0.26378	690.00	0.28571	301.32	690.00	1,2	408.15	1.2509
2857	C4H6Cl4	1,2,2,3-tetrachlorobutane	79630-70-9	0.44574	0.25632	690.00	0.28571	225.15	690.00	1,2	298.15	1.4192
2858	C4H6Cl4	1,2,3,3-tetrachlorobutane	13138-51-7	0.44574	0.25733	690.00	0.28571	301.32	690.00	1,2	452.78	1.2123
2859	C4H6Cl4	1,1,1,2-tetrachloro-2-methylpropane	7086-07-9	0.44574	0.25360	690.00	0.28571	451.65	690.00	2	452.78	1.2254
2860	C4H6Cl4	1,1,2,3-tetrachloro-2-methylpropane	18963-01-4	0.44574	0.25212	690.00	0.28571	227.15	690.00	1,2	298.15	1.4393
2861	C4H6Cl4	1,2,3-trichloro-2-(chloromethyl)propane	18963-00-3	0.44574	0.23950	690.00	0.28571	301.32	690.00	1,2	484.15	1.2258
2862	C4H6Cl4	1,2,3,4-tetrachlorobutane	3405-32-1	0.44574	0.25360	690.00	0.28571	301.32	690.00	2	452.78	1.2254
2939.1	C4H6O	cis-crotonaldehyde	15798-64-8	0.27273	0.24338	554.00	0.28571	158.38	554.00	1,2	298.15	0.8470
2940	C4H6O	trans-crotonaldehyde	123-73-9	0.28165	0.24706	571.00	0.32348	196.65	571.00	1,2	298.15	0.8470
2941	C4H6O	methacrolein	78-85-3	0.30344	0.27540	530.00	0.28570	192.15	530.00	1,2	298.15	0.8400
2942	C4H6O	2,5-dihydrofuran	1708-29-8	0.32450	0.26319	542.00	0.28571	200.00	542.00	1,2	298.15	0.9390
2944	C4H6O	divinyl ether	109-93-3	0.28040	0.27609	463.00	0.28571	172.05	463.00	1,2	298.15	0.7310
2946	C4H6O	3-buten-2-one	78-94-4	0.25977	0.22549	555.00	0.28571	200.00	555.00	1,2	298.15	0.8583
2956	C4H6O	crotonaldehyde	4170-30-3	0.29214	0.26210	550.50	0.28571	198.00	550.50	1,2	298.15	0.8530
2958	C4H6O	2-methyl-1-propen-1-one	598-26-5	0.25977	0.21931	555.00	0.28571	200.00	555.00	2	298.15	0.8777
2959	C4H6O	methyl vinyl ketone	78-94-4	0.25977	0.21931	555.00	0.28571	200.00	555.00	2	298.15	0.8777
2963	C4H6O2	2-butyne-1,4-diol	110-65-6	0.33630	0.26718	695.00	0.28571	331.00	695.00	2	511.15	0.8294
2965	C4H6O2	gamma-butyrolactone	96-48-0	0.32490	0.24069	739.00	0.26500	229.78	739.00	1,2	298.15	1.1250
2966	C4H6O2	cis-2-butenoic acid	503-64-0	0.31890	0.24893	647.00	0.28570	288.65	647.00	1,2	298.15	1.0230
2967	C4H6O2	trans-2-butenoic acid	107-93-7	0.31890	0.25027	666.00	0.28570	344.55	666.00	1,2	458.15	0.8610
2968	C4H6O2	vinylacetic acid	625-38-7	0.32304	0.26075	669.69	0.28571	238.15	669.69	1,2	298.15	1.0060
2969	C4H6O2	methacrylic acid	79-41-4	0.31890	0.25163	643.00	0.28570	288.15	643.00	1,2	298.15	1.0120
2970	C4H6O2	methyl acrylate	96-33-3	0.31890	0.25272	536.00	0.28571	196.32	536.00	1,2	298.15	0.9490
2971	C4H6O2	vinyl acetate	108-05-4	0.31890	0.25863	524.00	0.28270	180.35	524.00	1,2	298.15	0.9260
2972	C4H6O2	allyl formate	1838-59-1	0.31890	0.25443	530.00	0.28571	188.34	530.00	1,2	298.15	0.9398
2978	C4H6O2	cyclopropanecarboxylic acid	1759-53-1	0.31994	0.23458	656.42	0.28571	291.65	656.42	1,2	298.15	1.0832
2981	C4H6O2	crotonic acid	3724-65-0	0.31994	0.25530	656.42	0.28571	290.23	656.42	1,2	298.15	1.0088
2990	C4H6O3	acetic anhydride	108-24-7	0.35200	0.25506	569.15	0.26990	200.15	569.15	1,2	298.15	1.0770
3006	C4H6O4	succinic acid	110-15-6	0.39360	0.20776	806.00	0.28571	461.15	806.00	1,2	591.00	1.1558
3023	C4H6O5	diglycolic acid	110-99-6	0.40510	0.25946	820.00	0.28571	421.15	820.00	2	610.00	1.0106
3024	C4H6O5	malic acid	6915-15-7	0.40510	0.25657	781.00	0.28571	403.15	781.00	2	602.00	0.9895
3033	C4H6O6	tartaric acid	87-69-4	0.49210	0.24377	828.00	0.28571	479.15	828.00	2	660.00	1.2042
3047	C4H7Br	cis-1-bromo-1-butene	31849-78-2	0.44777	0.26176	554.15	0.28571	189.06	554.15	1,2	298.15	1.3119
3048	C4H7Br	trans-1-bromo-1-butene	32620-08-9	0.44777	0.26419	567.34	0.28571	172.85	567.34	1,2	298.15	1.3129
3049	C4H7Br	2-bromo-1-butene	23074-36-4	0.44482	0.25972	548.16	0.28571	139.75	548.16	1,2	298.15	1.3063
3050	C4H7Br	3-bromo-1-butene	22037-73-6	0.45532	0.26997	586.28	0.28571	177.38	586.28	1,2	298.15	1.3260
3051	C4H7Br	4-bromo-1-butene	5162-44-7	0.44629	0.26295	571.36	0.28571	192.38	571.36	1,2	298.15	1.3167
3052	C4H7Br	1-bromo-cis-2-butene	39616-19-8	0.44777	0.26372	581.68	0.28571	189.06	581.68	1,2	298.15	1.3258
3053	C4H7Br	1-bromo-trans-2-butene	29576-14-5	0.44777	0.26372	581.68	0.28571	189.06	581.68	1,2	298.15	1.3258
3054	C4H7Br	2-bromo-cis-2-butene	3017-68-3	0.44629	0.26027	557.88	0.28571	161.95	557.88	1,2	298.15	1.3167
3055	C4H7Br	2-bromo-trans-2-butene	3017-71-8	0.44629	0.26172	571.87	0.28571	157.75	571.87	1,2	298.15	1.3221
3056	C4H7Br	1-bromo-2-methyl-1-propene	3017-69-4	0.44629	0.26279	565.96	0.28571	175.10	565.96	1,2	298.15	1.3131
3057	C4H7Br	3-bromo-2-methyl-1-propene	1458-98-6	0.44482	0.26424	569.83	0.28571	178.42	569.83	1,2	298.15	1.3060
3058	C4H7Br	1-bromo-2-butene	4784-77-4	0.44738	0.25828	568.74	0.28571	174.80	568.74	1,2	298.15	1.3371
3059	C4H7Br	2-bromo-2-butene; (cis+trans)	13294-71-8	0.44738	0.26145	568.74	0.28571	174.80	568.74	1,2	298.15	1.3240
3083	C4H7Br3	1,1,1-tribromobutane	62127-62-2	0.67851	0.25870	723.31	0.28571	316.16	723.31	2	484.15	1.8179
3084	C4H7Br3	1,1,2-tribromobutane	3675-68-1	0.68007	0.25763	725.15	0.28571	283.74	725.15	1,2	298.15	2.1820
3085	C4H7Br3	1,1,3-tribromobutane	---	0.68007	0.25945	723.92	0.28571	283.74	723.92	2	298.15	2.1679
3086	C4H7Br3	1,1,4-tribromobutane	---	0.67079	0.25484	718.77	0.28571	298.74	718.77	2	488.96	1.7998

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
3087	C4H7Br3	1,2,2-tribromobutane	3675-69-2	0.67851	0.26008	727.50	0.28571	316.16	727.50	1,2	486.95	1.8109
3088	C4H7Br3	1,2,3-tribromobutane	632-05-3	0.68007	0.25761	730.78	0.28571	254.15	730.78	1,2	298.15	2.1860
3089	C4H7Br3	1,2,4-tribromobutane	38300-67-3	0.67079	0.25308	717.58	0.28571	255.15	717.58	1,2	298.15	2.1800
3090	C4H7Br3	1,3,3-tribromobutane	62127-46-2	0.67851	0.25922	684.47	0.28571	316.16	684.47	1,2	458.15	1.8153
3091	C4H7Br3	2,3,3-tribromobutane	62127-47-3	0.68801	0.26238	721.95	0.28571	275.00	721.95	1,2	298.15	2.1708
3092	C4H7Br3	1,1,1-tribromo-2-methylpropane	---	0.68801	0.26373	731.86	0.28571	301.16	731.86	2	485.73	1.8263
3093	C4H7Br3	1,1,2-tribromo-2-methylpropane	15331-16-5	0.68801	0.26607	758.11	0.28571	301.16	758.11	2	503.15	1.8145
3094	C4H7Br3	1,1,3-tribromo-2-methylpropane	---	0.68007	0.25945	723.92	0.28571	283.74	723.92	2	298.15	2.1679
3095	C4H7Br3	1,2,3-tribromo-2-methylpropane	631-28-7	0.67851	0.25721	736.76	0.28571	316.16	736.76	1,2	493.15	1.8256
3096	C4H7Br3	1,3-dibromo-2-(bromomethyl)propane	62127-48-4	0.67079	0.25932	724.93	0.28571	241.15	724.93	1,2	298.15	2.1400
3098	C4H7Cl	cis-1-chloro-1-butene	7611-86-1	0.31387	0.25987	521.07	0.28571	159.18	521.07	1,2	298.15	0.9035
3099	C4H7Cl	trans-1-chloro-1-butene	7611-87-2	0.31387	0.25962	528.19	0.28571	159.18	528.19	1,2	298.15	0.9091
3100	C4H7Cl	2-chloro-1-butene	2211-70-3	0.31171	0.25781	515.18	0.28571	148.54	515.18	1,2	298.15	0.8987
3101	C4H7Cl	3-chloro-1-butene	563-52-0	0.31941	0.27062	524.61	0.28571	147.50	524.61	1,2	298.15	0.8930
3102	C4H7Cl	4-chloro-1-butene	927-73-1	0.31279	0.26128	535.14	0.28571	162.50	535.14	1,2	298.15	0.9060
3103	C4H7Cl	1-chloro-cis-2-butene	4628-21-1	0.31387	0.25563	553.11	0.28571	159.18	553.11	1,2	298.15	0.9366
3104	C4H7Cl	1-chloro-trans-2-butene	4894-61-5	0.31387	0.26045	554.50	0.28571	159.18	554.50	1,2	298.15	0.9235
3105	C4H7Cl	2-chloro-cis-2-butene	2211-69-0	0.31279	0.25759	530.28	0.28571	155.85	530.28	1,2	298.15	0.9130
3106	C4H7Cl	2-chloro-trans-2-butene	2211-68-9	0.31279	0.25824	523.73	0.28571	167.35	523.73	1,2	298.15	0.9067
3107	C4H7Cl	1-chloro-2-methyl-1-propene	513-37-1	0.31279	0.25822	532.31	0.28571	145.22	532.31	1,2	298.15	0.9126
3108	C4H7Cl	3-chloro-2-methyl-1-propene	563-47-3	0.31171	0.25546	536.47	0.28571	148.54	536.47	1,2	298.15	0.9200
3110	C4H7Cl	1-chloro-2-butene	591-97-9	0.31359	0.25327	532.24	0.28571	208.25	532.24	1,2	298.15	0.9290
3111	C4H7Cl	2-chloro-2-butene	4461-41-0	0.31359	0.25431	532.24	0.28571	160.04	532.24	1,2	298.15	0.9260
3156	C4H7Cl3	1,1,1-trichlorobutane	13279-85-1	0.40824	0.26331	614.26	0.28571	226.52	614.26	1,2	298.15	1.2310
3157	C4H7Cl3	1,1,2-trichlorobutane	---	0.40927	0.25504	628.34	0.28571	194.10	628.34	2	298.15	1.2757
3158	C4H7Cl3	1,1,3-trichlorobutane	13279-87-3	0.40927	0.25986	628.34	0.28571	194.10	628.34	1,2	298.15	1.2560
3159	C4H7Cl3	1,1,4-trichlorobutane	66250-03-1	0.40314	0.24971	623.15	0.28571	209.10	623.15	2	298.15	1.2757
3160	C4H7Cl3	1,2,2-trichlorobutane	---	0.40824	0.25894	663.82	0.28571	226.52	663.82	2	298.15	1.2758
3161	C4H7Cl3	1,2,3-trichlorobutane	18338-40-4	0.40927	0.24982	656.99	0.28571	194.10	656.99	1,2	298.15	1.3146
3162	C4H7Cl3	1,2,4-trichlorobutane	1790-22-3	0.40314	0.24559	652.82	0.28571	209.10	652.82	1,2	298.15	1.3113
3163	C4H7Cl3	1,3,3-trichlorobutane	13280-60-9	0.40824	0.25501	633.65	0.28571	226.52	633.65	2	298.15	1.2758
3164	C4H7Cl3	2,3,3-trichlorobutane	10403-60-8	0.41452	0.26535	633.36	0.28571	211.52	633.36	1,2	298.15	1.2530
3165	C4H7Cl3	1,1,1-trichloro-2-methylpropane	---	0.41452	0.25944	631.61	0.28571	211.52	631.61	2	298.15	1.2758
3166	C4H7Cl3	1,1,2-trichloro-2-methylpropane	29559-52-2	0.41452	0.26199	635.65	0.28571	267.15	635.65	1,2	298.15	1.2677
3167	C4H7Cl3	1,1,3-trichloro-2-methylpropane	62108-65-0	0.40927	0.25504	620.86	0.28571	267.15	620.86	1,2	298.15	1.2712
3168	C4H7Cl3	1,2,3-trichloro-2-methylpropane	1871-58-5	0.40824	0.25244	659.52	0.28571	226.52	659.52	1,2	298.15	1.3012
3169	C4H7Cl3	1,3-dichloro-2-(chloromethyl)-propane	2014-83-7	0.40314	0.24577	597.58	0.28571	209.10	597.58	2	298.15	1.2756
3177	C4H7F	cis-1-fluoro-1-butene	66675-34-1	0.28776	0.25014	455.25	0.28571	161.41	455.25	1,2	298.15	0.8000
3178	C4H7F	trans-1-fluoro-1-butene	66675-35-2	0.28776	0.25014	455.25	0.28571	161.41	455.25	1,2	298.15	0.8000
3179	C4H7F	2-fluoro-1-butene	430-44-4	0.28554	0.24528	462.01	0.28571	150.77	462.01	1,2	298.15	0.8120
3180	C4H7F	3-fluoro-1-butene	---	0.29346	0.25184	445.34	0.28571	149.73	445.34	2	298.15	0.8017
3181	C4H7F	4-fluoro-1-butene	---	0.28665	0.24229	441.88	0.28571	164.73	441.88	2	298.15	0.8017
3182	C4H7F	cis-1-fluoro-2-butene	---	0.28776	0.24942	455.25	0.28571	161.41	455.25	2	298.15	0.8017
3183	C4H7F	trans-1-fluoro-2-butene	---	0.28776	0.24942	455.25	0.28571	161.41	455.25	2	298.15	0.8017
3184	C4H7F	cis-2-fluoro-2-butene	66675-38-5	0.28665	0.25377	467.83	0.28571	147.45	467.83	1,2	298.15	0.8000
3185	C4H7F	trans-2-fluoro-2-butene	66675-39-6	0.28665	0.25377	467.83	0.28571	147.45	467.83	1,2	298.15	0.8000
3186	C4H7F	1-fluoro-2-methyl-1-propene	---	0.28665	0.25651	475.39	0.28571	147.45	475.39	1,2	298.15	0.8000
3187	C4H7F	3-fluoro-2-methyl-1-propene	---	0.28554	0.25450	473.42	0.28571	150.77	473.42	1,2	298.15	0.8000
3192	C4H7F3	1,1,1-trifluorobutane	460-34-4	0.37118	0.24437	425.80	0.28571	158.35	425.80	1,2	298.15	1.0077
3193	C4H7F3	1,1,2-trifluorobutane	---	0.37179	0.23457	429.75	0.28571	200.79	429.75	2	298.15	1.0456
3194	C4H7F3	1,1,3-trifluorobutane	---	0.37179	0.23457	429.75	0.28571	200.79	429.75	2	298.15	1.0456
3195	C4H7F3	1,1,4-trifluorobutane	---	0.36454	0.22670	426.87	0.28571	215.79	426.87	2	298.15	1.0456
3196	C4H7F3	1,2,2-trifluorobutane	---	0.37056	0.23352	429.82	0.28571	233.21	429.82	2	298.15	1.0456
3197	C4H7F3	1,2,3-trifluorobutane	---	0.37179	0.23457	429.75	0.28571	200.79	429.75	2	298.15	1.0456
3198	C4H7F3	1,2,4-trifluorobutane	---	0.36454	0.22670	426.87	0.28571	215.79	426.87	2	298.15	1.0456
3199	C4H7F3	1,3,3-trifluorobutane	---	0.37056	0.23352	429.82	0.28571	233.21	429.82	2	298.15	1.0456
3200	C4H7F3	2,3,3-trifluorobutane	---	0.37806	0.24174	432.90	0.28571	218.21	432.90	2	298.15	1.0456
3201	C4H7F3	1,1,1-trifluoro-2-methylpropane	---	0.37806	0.24174	432.90	0.28571	218.21	432.90	2	298.15	1.0456
3202	C4H7F3	1,1,2-trifluoro-2-methylpropane	---	0.37806	0.24174	432.90	0.28571	218.21	432.90	2	298.15	1.0456
3203	C4H7F3	1,1,3-trifluoro-2-methylpropane	---	0.37179	0.23457	429.75	0.28571	200.79	429.75	2	298.15	1.0456
3204	C4H7F3	1,3-difluoro-2-(fluoromethyl)-propane	---	0.36454	0.22670	426.87	0.28571	215.79	426.87	2	298.15	1.0456
3209	C4H7I	cis-1-iodo-1-butene	54068-75-6	0.55574	0.27982	686.08	0.28571	187.32	686.08	1,2	298.15	1.6400
3210	C4H7I	trans-1-iodo-1-butene	62154-92-1	0.55574	0.27161	623.09	0.28571	187.32	623.09	1,2	298.15	1.6400
3211	C4H7I	2-iodo-1-butene	24308-61-0	0.55236	0.26981	624.36	0.28571	176.68	624.36	1,2	298.15	1.6400
3212	C4H7I	3-iodo-1-butene	62154-74-9	0.56435	0.27704	625.42	0.28571	175.64	625.42	1,2	298.15	1.6400
3213	C4H7I	4-iodo-1-butene	7766-51-0	0.55405	0.27008	619.52	0.28571	190.64	619.52	1,2	298.15	1.6400
3214	C4H7I	1-iodo-cis-2-butene	53121-23-6	0.55574	0.27244	630.09	0.28571	187.32	630.09	1,2	298.15	1.6410
3215	C4H7I	1-iodo-trans-2-butene	38169-04-9	0.55574	0.27244	630.09	0.28571	187.32	630.09	1,2	298.15	1.6410
3216	C4H7I	2-iodo-cis-2-butene	24298-09-7	0.55405	0.26834	608.34	0.28571	173.36	608.34	1,2	298.15	1.6400
3217	C4H7I	2-iodo-trans-2-butene	24298-08-6	0.55405	0.26834	608.34	0.28571	173.36	608.34	1,2	298.15	1.6400
3218	C4H7I	1-iodo-2-methyl-1-propene	20687-01-8	0.55405	0.26834	608.34	0.28571	173.36	608.34	1,2	298.15	1.6400
3219	C4H7I	3-iodo-2-methyl-1-propene	3756-30-7	0.55236	0.26901	594.11	0.28571	176.68	594.11	1,2	298.15	1.6200
3224	C4H7I3	1,1,1-triiodobutane	---	0.85037	0.27507	867.15	0.28571	310.94	867.15	2	567.11	2.2057
3225	C4H7I3	1,1,2-triiodobutane	---	0.85203	0.27543	863.14	0.28571	278.52	863.14	2	298.15	2.6705
3226	C4H7I3	1,1,3-triiodobutane	---	0.85203	0.27543	863.14	0.28571	278.52	863.14	2	298.15	2.6705
3227	C4H7I3	1,1,4-triiodobutane	---	0.84215	0.27140	856.37	0.28571	293.52	856.37	2	298.15	2.6705
3228	C4H7I3	1,2,2-triiodobutane	---	0.85037	0.27507	867.15	0.28571	310.94	867.15	2	567.11	2.2057
3229	C4H7I3	1,2,3-triiodobutane	---	0.85203	0.27543	863.14	0.28571	278.52	863.14	2	298.15	2.6705
3230	C4H7I3	1,2,4-triiodobutane	---	0.84215	0.27140	856.37	0.28571	293.52	856.37	2	298.15	2.6705
3231	C4H7I3	1,3,3-triiodobutane	---	0.85037	0.27507	867.15	0.28571	310.94	867.15	2	567.11	2.2057

Table 3 Density of Liquid - Organic Compounds

			density = A B ^ -(1 - T/C)^n				(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
3232	C4H7I3	2,2,3-triiodobutane	---	0.86044	0.27919	874.42	0.28571	295.94	874.42	2	298.15	2.6705
3233	C4H7I3	1,1,1-triiodo-2-methylpropane	---	0.86044	0.27919	874.42	0.28571	295.94	874.42	2	298.15	2.6705
3234	C4H7I3	1,1,2-triiodo-2-methylpropane	---	0.86044	0.27919	874.42	0.28571	295.94	874.42	2	298.15	2.6705
3235	C4H7I3	1,1,3-triiodo-2-methylpropane	---	0.85203	0.27543	863.14	0.28571	278.52	863.14	2	298.15	2.6705
3236	C4H7I3	1,2,3-triiodo-2-methylpropane	---	0.85037	0.27507	867.15	0.28571	310.94	867.15	2	567.11	2.2057
3237	C4H7I3	1,3-diiodo-2-(iodomethyl)-propane	---	0.84215	0.27140	856.37	0.28571	293.52	856.37	2	298.15	2.6705
3238	C4H7N	butyronitrile	109-74-0	0.24860	0.24336	582.25	0.28586	161.25	582.25	1,2	298.15	0.7860
3239	C4H7N	isobutyronitrile	78-82-0	0.24860	0.24434	565.00	0.29985	201.70	565.00	1,2	298.15	0.7660
3240	C4H7N	propyl isocyanide	627-36-1	0.24205	0.24305	554.09	0.28571	204.43	554.09	1,2	298.15	0.7526
3241	C4H7N	isopropyl isocyanide	598-45-8	0.24725	0.25278	541.04	0.28571	189.43	541.04	1,2	298.15	0.7383
3246	C4H7NO	acetone cyanohydrin	75-86-5	0.28750	0.24710	647.00	0.28570	253.15	647.00	1,2	298.15	0.9280
3247	C4H7NO	2-methacrylamide	79-39-0	0.28560	0.24600	741.00	0.29000	383.65	741.00	2	488.00	0.7975
3248	C4H7NO	3-methoxypropionitrile	110-67-8	0.26270	0.22187	638.00	0.28570	210.12	638.00	1,2	298.15	0.9240
3249	C4H7NO	2-pyrrolidone	616-45-5	0.32240	0.24171	792.00	0.29639	298.15	792.00	1,2	518.15	0.9090
3254	C4H7NO	propyl isocyanate	110-78-1	0.28370	0.23296	547.00	0.28571	250.00	547.00	1,2	298.15	0.9080
3318	C4H8	methylcyclopropane	594-11-6	0.25916	0.28474	437.13	0.28571	95.85	437.13	1,2	298.15	0.6409
3319	C4H8	cyclobutane	287-23-0	0.26700	0.29647	459.93	0.23814	182.48	459.93	1,2	298.15	0.6890
3320	C4H8	1-butene	106-98-9	0.23380	0.26884	419.59	0.28530	87.80	419.59	1,2	298.15	0.5880
3321	C4H8	2-butene; (cis+trans)	107-01-7	0.23603	0.25521	425.43	0.28571	130.62	425.43	1,2	298.15	0.6210
3322	C4H8	cis-2-butene	590-18-1	0.23980	0.26874	435.58	0.28571	134.26	435.58	1,2	298.15	0.6170
3323	C4H8	trans-2-butene	624-64-6	0.23560	0.26962	428.63	0.28571	167.62	428.63	1,2	298.15	0.5990
3324	C4H8	isobutene	115-11-7	0.23490	0.27148	417.90	0.27964	132.81	417.90	1,2	298.15	0.5890
3333	C4H8Br2	1,1-dibromobutane	62168-25-6	0.57196	0.25738	646.82	0.28571	238.94	646.82	1,2	298.15	1.7840
3334	C4H8Br2	1,2-dibromobutane	533-98-2	0.57200	0.25883	659.28	0.28571	207.76	659.28	1,2	298.15	1.7850
3335	C4H8Br2	1,3-dibromobutane	107-80-2	0.57196	0.26085	672.32	0.28571	238.94	672.32	1,2	298.15	1.7824
3336	C4H8Br2	1,4-dibromobutane	110-52-1	0.56301	0.25302	699.44	0.28571	256.62	699.44	1,2	298.15	1.8187
3337	C4H8Br2	2,2-dibromobutane	50341-35-0	0.57964	0.26621	636.75	0.28571	256.36	636.75	1,2	298.15	1.7500
3338	C4H8Br2	DL-2,3-dibromobutane	598-71-0	0.58120	0.26364	656.19	0.28571	223.94	656.19	1,2	298.15	1.7836
3339	C4H8Br2	meso-2,3-dibromobutane	5780-13-2	0.58120	0.26458	651.35	0.28571	238.65	651.35	1,2	298.15	1.7747
3340	C4H8Br2	1,1-dibromo-2-methylpropane	33693-78-6	0.58120	0.26332	635.76	0.28571	223.94	635.76	1,2	298.15	1.7700
3341	C4H8Br2	1,2-dibromo-2-methylpropane	594-34-3	0.57964	0.26693	644.38	0.28571	283.65	644.38	1,2	298.15	1.7518
3342	C4H8Br2	1,3-dibromo-2-methylpropane	28148-04-1	0.57196	0.25794	672.32	0.28571	238.94	672.32	1,2	298.15	1.7994
3343	C4H8Br2	2,3-dibromobutane	5408-86-6	0.57538	0.26051	657.46	0.28571	249.15	657.46	1,2	298.15	1.7845
3360	C4H8Cl2	1,1-dichlorobutane	541-33-3	0.36134	0.26117	584.34	0.28571	179.18	584.34	1,2	298.15	1.0800
3361	C4H8Cl2	1,2-dichlorobutane	616-21-7	0.36134	0.25472	599.74	0.28571	179.18	599.74	1,2	298.15	1.1116
3362	C4H8Cl2	1,3-dichlorobutane	1190-22-3	0.36134	0.25792	614.09	0.28571	179.18	614.09	1,2	298.15	1.1083
3363	C4H8Cl2	1,4-dichlorobutane	110-56-5	0.37030	0.25948	641.00	0.29729	235.85	641.00	1,2	298.15	1.1350
3364	C4H8Cl2	2,2-dichlorobutane	4279-22-5	0.36656	0.26927	578.17	0.28571	199.15	578.17	1,2	298.15	1.0650
3365	C4H8Cl2	DL-2,3-dichlorobutane	2211-67-8	0.36762	0.26171	598.18	0.28571	193.15	598.18	1,2	298.15	1.1051
3366	C4H8Cl2	meso-2,3-dichlorobutane	4028-56-2	0.36762	0.26157	592.85	0.28571	192.75	592.85	1,2	298.15	1.1025
3367	C4H8Cl2	1,1-dichloro-2-methylpropane	598-76-5	0.36762	0.25930	576.09	0.28571	164.18	576.09	1,2	298.15	1.1000
3368	C4H8Cl2	1,2-dichloro-2-methylpropane	594-37-6	0.36656	0.26310	584.32	0.28571	196.60	584.32	1,2	298.15	1.0890
3369	C4H8Cl2	1,3-dichloro-2-methylpropane	616-19-3	0.36134	0.26062	616.35	0.28571	179.18	616.35	1,2	298.15	1.1000
3370	C4H8Cl2	2,3-dichlorobutane, dl and meso	7581-97-7	0.36517	0.25910	598.51	0.28571	193.25	598.51	1,2	298.15	1.1070
3371	C4H8Cl2	mixo-dichlorobutane	26761-81-9	0.36517	0.26102	598.51	0.28571	190.15	598.51	2	298.15	1.1003
3389	C4H8F2	1,1-difluorobutane	2358-38-5	0.32675	0.25276	463.30	0.28571	183.64	463.30	1,2	298.15	0.9100
3390	C4H8F2	1,2-difluorobutane	686-65-7	0.32506	0.24869	487.30	0.28571	183.64	487.30	1,2	298.15	0.9400
3391	C4H8F2	1,3-difluorobutane	691-42-9	0.32506	0.24647	502.38	0.28571	183.64	502.38	1,2	298.15	0.9600
3392	C4H8F2	1,4-difluorobutane	372-90-7	0.31846	0.24061	524.74	0.28571	198.64	524.74	1,2	298.15	0.9767
3393	C4H8F2	2,2-difluorobutane	353-81-1	0.33077	0.26380	466.65	0.28571	155.65	466.65	1,2	298.15	0.8956
3394	C4H8F2	2,3-difluorobutane	666-21-7	0.33194	0.24856	487.02	0.28571	168.64	487.02	1,2	298.15	0.9600
3395	C4H8F2	1,1-difluoro-2-methylpropane	62126-91-4	0.33194	0.24119	465.72	0.28571	168.64	465.72	1,2	298.15	0.9600
3396	C4H8F2	1,2-difluoro-2-methylpropane	62126-92-5	0.33077	0.24268	472.94	0.28571	201.06	472.94	1,2	298.15	0.9600
3397	C4H8F2	1,3-difluoro-2-methylpropane	62126-93-6	0.32506	0.24775	506.90	0.28571	183.64	506.90	1,2	298.15	0.9600
3401	C4H8I2	1,1-diiodobutane	66587-65-3	0.72158	0.26426	726.41	0.28571	235.46	726.41	1,2	298.15	2.2660
3402	C4H8I2	1,2-diiodobutane	53161-72-1	0.72160	0.26239	726.41	0.28571	279.06	726.41	1,2	298.15	2.2800
3403	C4H8I2	1,3-diiodobutane	18371-24-9	0.72158	0.26238	726.41	0.28571	235.46	726.41	1,2	298.15	2.2800
3404	C4H8I2	1,4-diiodobutane	628-21-7	0.71163	0.24877	720.71	0.28571	279.05	720.71	1,2	298.15	2.3495
3405	C4H8I2	2,2-diiodobutane	29443-50-3	0.73007	0.26683	735.41	0.28571	252.88	735.41	1,2	298.15	2.2800
3406	C4H8I2	2,3-diiodobutane	66587-66-4	0.73180	0.26727	732.32	0.28571	220.46	732.32	1,2	298.15	2.2800
3407	C4H8I2	1,1-diiodo-2-methylpropane	10250-55-2	0.73180	0.26727	732.32	0.28571	220.46	732.32	1,2	298.15	2.2800
3408	C4H8I2	1,2-diiodo-2-methylpropane	66794-23-8	0.73007	0.26683	735.41	0.28571	252.88	735.41	1,2	298.15	2.2800
3409	C4H8I2	1,3-diiodo-2-methylpropane	17616-44-3	0.72158	0.26238	726.41	0.28571	235.46	726.41	1,2	298.15	2.2800
3474	C4H8O	1,2-epoxybutane	106-88-7	0.27950	0.25332	526.00	0.28570	123.15	526.00	1,2	298.15	0.8240
3476	C4H8O	ethyl vinyl ether	109-92-2	0.27420	0.26384	475.15	0.28571	157.35	475.15	1,2	298.15	0.7490
3477	C4H8O	3-methoxy-1-propene	627-40-7	0.27420	0.26194	475.15	0.28571	157.35	475.15	1,2	298.15	0.7531
3478	C4H8O	butyraldehyde	123-72-8	0.27420	0.25767	525.00	0.28570	176.75	525.00	1,2	298.15	0.7970
3479	C4H8O	isobutyraldehyde	78-84-2	0.27420	0.25833	507.00	0.28571	208.15	507.00	1,2	298.15	0.7840
3480	C4H8O	methyl ethyl ketone	78-93-3	0.27010	0.25451	535.50	0.28570	186.48	535.50	1,2	298.15	0.7990
3481	C4H8O	tetrahydrofuran	109-99-9	0.32200	0.28078	540.15	0.29120	164.65	540.15	1,2	298.15	0.8800
3482	C4H8O	cis-crotonyl alcohol	4088-60-2	0.32305	0.29533	559.00	0.28571	183.25	559.00	1,2	298.15	0.8616
3483	C4H8O	trans-2-buten-1-ol	504-61-0	0.32305	0.30139	559.00	0.28571	183.25	559.00	1,2	298.15	0.8476
3484	C4H8O	2-buten-1-ol	6117-91-5	0.32305	0.30091	559.00	0.28571	183.25	559.00	1,2	298.15	0.8487
3485	C4H8O	3-buten-1-ol	627-27-0	0.32305	0.30569	559.00	0.28571	183.25	559.00	1,2	298.15	0.8380
3486	C4H8O	3-buten-2-ol, (±)	6118-14-5	0.32305	0.31051	559.00	0.28571	183.25	559.00	1,2	298.15	0.8276
3487	C4H8O	2-methyl-2-propenol	513-42-8	0.32305	0.30165	559.00	0.28571	183.25	559.00	1,2	298.15	0.8470
3493	C4H8O	3-buten-2-ol	598-32-3	0.32305	0.30891	559.00	0.28571	183.25	559.00	1,2	298.15	0.8310
3504	C4H8O2	butyric acid	107-92-6	0.31130	0.26188	628.00	0.27997	267.95	628.00	1,2	298.15	0.9530
3505	C4H8O2	isobutyric acid	79-31-2	0.30170	0.25437	609.15	0.26860	227.15	609.15	1,2	298.15	0.9460
3506	C4H8O2	propyl formate	110-74-7	0.30910	0.26185	538.00	0.28000	180.25	538.00	1,2	298.15	0.9000

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
3507	C4H8O2	isopropyl formate	625-55-8	0.31243	0.27031	518.50	0.28571	178.04	518.50	1,2	298.15	0.8703
3508	C4H8O2	ethyl acetate	141-78-6	0.30810	0.26008	523.30	0.27800	189.60	523.30	1,2	298.15	0.8940
3509	C4H8O2	methyl propanoate	554-12-1	0.31240	0.26122	530.60	0.27700	185.65	530.60	1,2	298.15	0.9090
3510	C4H8O2	1,4-dioxane	123-91-1	0.37020	0.28115	587.00	0.30470	284.95	587.00	1,2	298.15	1.0290
3511	C4H8O2	cis-2-butene-1,4-diol	6117-80-2	0.31580	0.23692	677.88	0.28570	284.15	677.88	1,2	298.15	1.0700
3512	C4H8O2	trans-2-butene-1,4-diol	821-11-4	0.31580	0.23854	681.00	0.28570	300.45	681.00	1,2	510.00	0.8295
3513	C4H8O2	3-butene-1,2-diol	497-06-3	0.31580	0.24453	679.44	0.28571	288.25	679.44	1,2	298.15	1.0423
3526	C4H8O2	2-butene-1,4-diol	110-64-5	0.31580	0.23709	679.44	0.28571	280.15	679.44	1,2	298.15	1.0700
3533	C4H8O2	R,S-3-butene-1,2-diol	86161-40-2	0.31580	0.24518	679.44	0.28571	288.25	679.44	1,2	298.15	1.0400
3535.1	C4H8O2	4-hydroxybutraldehyde	25714-71-0	0.33248	0.23805	599.00	0.28571	215.00	599.00	1,2	298.15	1.0808
3535.2	C4H8O2	3-hydroxy-2-methyl propionaldehyde	38433-80-6	0.31355	0.25171	615.00	0.28571	215.00	615.00	2	298.15	0.9817
3536	C4H8O2S	sulfolane	126-33-0	0.40060	0.26901	849.00	0.30400	300.75	849.00	1,2	558.15	1.0338
3581	C4H8S	tetrahydrothiophene	110-01-0	0.35410	0.29720	631.95	0.24882	176.99	631.95	1,2	298.15	0.9970
3583	C4H8S	2-ethylthiacyclopropane	3195-86-6	0.33590	0.29176	594.72	0.28571	235.73	594.72	1,2	298.15	0.9220
3584	C4H8S	2,2-dimethylthiacyclopropane	3772-13-2	0.33848	0.29559	574.84	0.28571	259.63	574.84	1,2	298.15	0.9100
3585	C4H8S	2,cis-3-dimethylthiacyclopropane	5954-71-2	0.33718	0.28631	537.89	0.28571	231.49	537.89	1,2	298.15	0.9100
3586	C4H8S	2,trans-3-dimethylthiacyclopropane	5955-98-6	0.33718	0.28631	537.89	0.28571	231.49	537.89	1,2	298.15	0.9100
3598	C4H9Br	1-bromobutane	109-65-9	0.42950	0.26268	577.00	0.28909	160.75	577.00	1,2	298.15	1.2690
3599	C4H9Br	2-bromobutane	78-76-2	0.42820	0.27685	567.00	0.24000	161.25	567.00	1,2	298.15	1.2530
3600	C4H9Br	1-bromo-2-methylpropane	78-77-3	0.43429	0.26678	559.14	0.28571	155.75	559.14	1,2	298.15	1.2571
3601	C4H9Br	2-bromo-2-methylpropane	507-19-7	0.44129	0.28045	541.05	0.28571	256.95	541.05	1,2	298.15	1.2132
3602	C4H9Br	2-bromobutane, (±)	5787-31-5	0.43332	0.26796	561.05	0.28571	160.50	561.05	1,2	298.15	1.2513
3610	C4H9Cl	1-chlorobutane	109-69-3	0.30860	0.26416	537.00	0.29540	150.05	537.00	1,2	298.15	0.8800
3611	C4H9Cl	1-chloro-2-methylpropane	513-36-0	0.30601	0.26459	526.21	0.28571	142.85	526.21	1,2	298.15	0.8719
3612	C4H9Cl	2-chlorobutane	78-86-4	0.30860	0.26951	520.60	0.27913	141.85	520.60	1,2	298.15	0.8680
3613	C4H9Cl	2-chloro-2-methylpropane	507-20-0	0.30860	0.27693	507.00	0.28571	247.75	507.00	1,2	298.15	0.8360
3614	C4H9Cl	2-chlorobutane	53178-20-4	0.30795	0.26755	522.70	0.28571	141.85	522.70	1,2	298.15	0.8675
3657	C4H9F	1-fluorobutane	2366-52-1	0.27379	0.24728	460.70	0.28571	139.15	460.70	1,2	298.15	0.7727
3658	C4H9F	2-fluorobutane	359-01-3	0.28035	0.26204	458.55	0.28571	151.75	458.55	1,2	298.15	0.7560
3659	C4H9F	1-fluoro-2-methylpropane	359-00-2	0.28035	0.25884	444.56	0.28571	151.49	444.56	1,2	298.15	0.7500
3660	C4H9F	2-fluoro-2-methylpropane	353-61-7	0.28561	0.27394	446.83	0.28571	196.15	446.83	1,2	298.15	0.7352
3666	C4H9I	1-iodobutane	542-69-8	0.66075	0.33432	574.36	0.28571	170.15	574.36	1,2	298.15	1.6072
3667	C4H9I	2-iodobutane	513-48-4	0.67530	0.34595	563.37	0.28571	169.15	563.37	1,2	298.15	1.5893
3668	C4H9I	1-iodo-2-methylpropane	513-38-2	0.67530	0.34449	563.95	0.28571	182.45	563.95	1,2	298.15	1.5952
3669	C4H9I	2-iodo-2-methylpropane	558-17-8	0.54690	0.28252	587.90	0.28571	234.96	587.90	1,2	298.15	1.5360
3670	C4H9I	2-iodobutane, (±)	52152-71-3	0.63956	0.32643	572.40	0.28571	168.95	572.40	1,2	298.15	1.5845
3675	C4H9N	pyrrolidine	123-75-1	0.28600	0.26213	568.55	0.26330	215.31	568.55	1,2	298.15	0.8600
3681	C4H9NO	N,N-dimethylacetamide	127-19-5	0.27140	0.23257	658.00	0.27021	253.15	658.00	1,2	298.15	0.9370
3682	C4H9NO	morpholine	110-91-8	0.31570	0.25658	618.00	0.25640	270.05	618.00	1,2	298.15	0.9960
3697	C4H9NO2	1-nitrobutane	627-05-4	0.30200	0.24601	624.00	0.28571	191.83	624.00	1,2	298.15	0.9680
3698	C4H9NO2	2-nitrobutane	600-24-8	0.30740	0.24689	615.00	0.28571	141.16	615.00	1,2	298.15	0.9780
3699	C4H9NO2	1-nitro-2-methylpropane	625-74-1	0.30691	0.25157	609.00	0.28571	196.30	609.00	1,2	298.15	0.9585
3700	C4H9NO2	2-nitro-2-methylpropane	594-70-7	0.30600	0.24956	592.00	0.28571	299.38	592.00	1,2	400.31	0.8366
3715	C4H9NO2	2-nitrobutane, (±)	116781-85-2	0.30558	0.24463	610.00	0.28571	141.15	610.00	1,2	298.15	0.9771
3783	C4H10	butane	106-97-8	0.22800	0.27189	425.18	0.28630	134.86	425.18	1,2	298.15	0.5730
3784	C4H10	isobutane	75-28-5	0.22130	0.27051	408.14	0.27301	113.54	408.14	1,2	298.15	0.5520
3830	C4H10N2	piperazine	110-85-0	0.27790	0.25680	638.00	0.28571	379.15	638.00	2	419.15	0.7565
3865	C4H10O	butanol	71-36-3	0.27000	0.26812	562.93	0.24570	183.85	562.93	1,2	298.15	0.8060
3866	C4H10O	isobutanol	78-83-1	0.27250	0.27519	547.73	0.23435	165.15	547.73	1,2	298.15	0.7970
3867	C4H10O	sec-butanol	78-92-2	0.27660	0.26714	536.01	0.26040	158.45	536.01	1,2	298.15	0.8050
3868	C4H10O	tert-butanol	75-65-0	0.26950	0.25645	506.20	0.27370	298.97	506.20	1,2	355.57	0.7156
3869	C4H10O	diethyl ether	60-29-7	0.26470	0.26535	466.70	0.29358	156.85	466.70	1,2	298.15	0.7080
3870	C4H10O	methyl propyl ether	557-17-5	0.27050	0.27193	476.20	0.28571	156.87	476.20	1,2	298.15	0.7230
3871	C4H10O	methyl isopropyl ether	598-53-8	0.26860	0.28463	464.50	0.24440	127.93	464.50	1,2	298.15	0.7140
3872	C4H10O	(R)-(-)-2-butanol	14898-79-4	0.27215	0.25556	538.22	0.28571	159.25	538.22	1,2	298.15	0.8040
3873	C4H10O	(S)-(+)-2-butanol	4221-99-2	0.27215	0.25637	538.22	0.28571	159.25	538.22	1,2	298.15	0.8020
3874	C4H10O	(<+->)-2-butanol	15892-23-6	0.27215	0.26922	538.22	0.28571	187.49	538.22	2	298.15	0.7714
3881	C4H10O2	t-butyl hydroperoxide	75-91-2	0.31080	0.27523	576.00	0.28570	277.45	576.00	1,2	298.15	0.8860
3882	C4H10O2	1,2-dimethoxyethane	110-71-4	0.33300	0.30002	536.15	0.28571	215.15	536.15	1,2	298.15	0.8650
3883	C4H10O2	2-ethoxyethanol	110-80-5	0.30310	0.25175	569.00	0.28570	176.35	569.00	1,2	298.15	0.9250
3884	C4H10O2	1,2-butanediol	584-03-2	0.30917	0.24345	622.14	0.28571	240.98	622.14	1,2	298.15	0.9987
3885	C4H10O2	1,3-butanediol	107-88-0	0.30860	0.24484	643.00	0.28570	196.15	643.00	1,2	298.15	1.0020
3886	C4H10O2	1,4-butanediol	110-63-4	0.30340	0.23980	667.00	0.28570	293.05	667.00	1,2	298.15	1.0130
3887	C4H10O2	DL-2,3-butanediol	6982-25-8	0.31567	0.25157	611.56	0.28571	292.15	611.56	1,2	298.15	0.9871
3888	C4H10O2	meso-2,3-butanediol	5341-95-7	0.31567	0.24910	609.07	0.28571	225.98	609.07	1,2	298.15	0.9939
3889	C4H10O2	2-methyl-1,2-propanediol	558-43-0	0.31456	0.24957	611.21	0.28571	258.40	611.21	1,2	298.15	0.9900
3890	C4H10O2	1-methyl-1,3-propanediol	18826-95-4	0.30917	0.26136	652.97	0.28571	240.98	652.97	2	298.15	0.9544
3891	C4H10O2	1,2-butanediol, (±)	26171-83-5	0.31089	0.24672	630.99	0.28571	262.76	630.99	1,2	298.15	0.9974
3893.1	C4H10O2	n-butylhydroperoxide	4813-50-7	0.30654	0.26268	565.00	0.28571	213.00	565.00	1,2	298.15	0.9017
3894	C4H10O2	2-methoxy-1-propanol	1589-47-5	0.30310	0.24925	569.00	0.28571	176.35	569.00	1,2	298.15	0.9325
3895	C4H10O2	propylene glycol monomethyl ether	107-98-2	0.30310	0.24163	569.00	0.28571	176.35	569.00	1,2	298.15	0.9562
3896	C4H10O2	(2S,3S)-(+)-2,3-butanediol	19132-06-0	0.31089	0.24986	630.99	0.28571	293.15	630.99	1,2	298.15	0.9870
3897	C4H10O2	(2R,3R)-(-)-2,3-butanediol	24347-58-8	0.31089	0.24986	630.99	0.28571	372.15	630.99	1,2	430.70	0.8444
3898	C4H10O2	(S)-(+)-1,3-butanediol	24621-61-2	0.31089	0.24537	630.99	0.28571	262.76	630.99	1,2	298.15	1.0020
3899	C4H10O2	2,3-butanediol	513-85-9	0.31089	0.24537	630.99	0.28571	295.15	630.99	1,2	298.15	1.0020
3900	C4H10O2	(R)-(-)-1,3-butanediol	6290-03-5	0.31089	0.24537	630.99	0.28571	262.76	630.99	1,2	298.15	1.0020
3901	C4H10O2	(S)-(+)-2-methoxypropanol	116422-39-0	0.30310	0.24744	569.00	0.28571	176.35	569.00	1,2	298.15	0.9380
3902	C4H10O2	methoxypropanol	1320-67-8	0.30310	0.25378	569.00	0.28571	176.55	569.00	1,2	298.15	0.9190
3903	C4H10O2	(S)-(+)-1-methoxy-2-propanol	26550-55-0	0.30310	0.25344	569.00	0.28571	176.35	569.00	1,2	298.15	0.9200
3904	C4H10O2	(R)-(-)-1-methoxy-2-propanol	4984-22-9	0.30310	0.25344	569.00	0.28571	176.15	569.00	1,2	298.15	0.9200

Table 3 Density of Liquid - Organic Compounds

			density = A B^-(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
3905	C4H10O2	2-methyl-1,3-propanediol	2163-42-0	0.31089	0.24160	630.99	0.28571	182.25	630.99	1,2	298.15	1.0150
3906	C4H10O2	3-methoxy-1-propanol	1589-49-7	0.30310	0.24228	569.00	0.28571	176.35	569.00	2	298.15	0.9541
3918	C4H10O3	diethylene glycol	111-46-6	0.34010	0.26107	744.60	0.24220	262.70	744.60	1,2	298.15	1.1140
3937	C4H10O4S	diethyl sulfate	64-67-5	0.38740	0.26118	792.00	0.40840	248.00	792.00	1,2	298.15	1.1720
3938	C4H10O4S	methyl propyl sulfate	5867-91-4	0.38740	0.27816	792.00	0.28571	241.15	792.00	1,2	298.15	1.1850
3942	C4H10S	butyl mercaptan	109-79-5	0.29380	0.27049	569.00	0.29944	157.46	569.00	1,2	298.15	0.8370
3943	C4H10S	isobutyl mercaptan	513-44-0	0.29380	0.28205	559.00	0.25951	128.31	559.00	1,2	298.15	0.8300
3944	C4H10S	sec-butyl mercaptan	513-53-1	0.29380	0.27018	554.00	0.30682	133.02	554.00	1,2	298.15	0.8250
3945	C4H10S	tert-butyl mercaptan	75-66-1	0.29380	0.27336	530.00	0.32002	274.26	530.00	1,2	298.15	0.7950
3946	C4H10S	2-butanethiol	91840-99-2	0.29380	0.27585	553.00	0.28571	108.15	553.00	1,2	298.15	0.8247
3947	C4H10S	diethyl sulfide	352-93-2	0.28360	0.26499	557.15	0.27445	169.20	557.15	1,2	298.15	0.8320
3948	C4H10S	methyl propyl sulfide	3877-15-4	0.28770	0.26589	563.00	0.28571	160.19	563.00	1,2	298.15	0.8370
3949	C4H10S	methyl isopropyl sulfide	1551-21-9	0.29330	0.27473	551.00	0.28571	171.65	551.00	1,2	298.15	0.8250
3950	C4H10S2	diethyl disulfide	110-81-6	0.34150	0.27758	642.00	0.30060	171.63	642.00	1,2	298.15	0.9880
3951	C4H10S2	1,2-bis(methylthio)ethane	6628-18-8	0.34150	0.26652	642.00	0.28571	171.63	642.00	1,2	298.15	1.0324
3954	C4H10S2	methyl propyl disulfide	2179-60-4	0.34150	0.28363	642.00	0.28571	171.63	642.00	1,2	298.15	0.9800
3977	C4H11N	butylamine	109-73-9	0.23370	0.24441	531.90	0.24278	224.05	531.90	1,2	298.15	0.7410
3978	C4H11N	isobutylamine	78-81-9	0.23440	0.24783	513.73	0.23650	188.55	513.73	1,2	298.15	0.7300
3979	C4H11N	sec-butylamine	13952-84-6	0.23590	0.25098	514.30	0.24711	168.65	514.30	1,2	298.15	0.7200
3980	C4H11N	tert-butylamine	75-64-9	0.24960	0.27442	483.90	0.25400	206.19	483.90	1,2	298.15	0.6880
3981	C4H11N	2-butanamine, (.+/-.)-	33966-50-6	0.24415	0.24760	503.50	0.28571	187.66	503.50	1,2	298.15	0.7192
3982	C4H11N	methyl-propylamine	627-35-0	0.25220	0.26057	500.00	0.28571	187.00	500.00	1,2	298.15	0.7120
3983	C4H11N	methylisopropylamine	4747-21-1	0.25220	0.25769	487.60	0.28571	172.00	487.60	1,2	298.15	0.7100
3984	C4H11N	diethylamine	109-89-7	0.24300	0.25602	496.60	0.27280	223.35	496.60	1,2	298.15	0.7020
3985	C4H11N	dimethylethylamine	598-56-1	0.25220	0.28374	500.00	0.28571	133.15	500.00	1,2	298.15	0.6667
3986	C4H11N	(R)-(-)-sec-butylamine	13250-12-9	0.24415	0.24637	503.50	0.28571	169.25	503.50	1,2	298.15	0.7220
3987	C4H11N	(S)-(+)-sec-butylamine	513-49-5	0.24415	0.24375	503.50	0.28571	169.25	503.50	1,2	298.15	0.7280
3988	C4H11NO	dimethylethanolamine	108-01-0	0.29710	0.26103	571.82	0.28571	214.15	571.82	1,2	298.15	0.8820
3989	C4H11NO	3-amino-1-butanol	2867-59-6	0.29710	0.25115	571.82	0.28571	281.87	571.82	2	298.15	0.9100
3990	C4H11NO	3-amino-2-butanol	42551-55-3	0.29710	0.24310	571.82	0.28571	292.15	571.82	1,2	298.15	0.9343
3991	C4H11NO	4-amino-1-butanol	13325-10-5	0.29710	0.23752	571.82	0.28571	281.87	571.82	1,2	298.15	0.9521
3992	C4H11NO	2-amino-1-butanol, (±)-	13054-87-0	0.29710	0.25085	571.82	0.28571	272.15	571.82	1,2	298.15	0.9109
3993	C4H11NO	2-amino-2-methyl-1-propanol	124-68-5	0.29710	0.24499	571.82	0.28571	298.65	571.82	1,2	438.65	0.7512
3995	C4H11NO	2-(ethylamino)ethanol	110-73-6	0.29710	0.25159	571.82	0.28571	281.87	571.82	1,2	298.15	0.9087
3998	C4H11NO	4-amino-2-butanol	39884-48-5	0.29710	0.24450	571.82	0.28571	281.87	571.82	1,2	298.15	0.9300
3999	C4H11NO	1-amino-2-butanol	13552-21-1	0.29710	0.25115	571.82	0.28571	276.15	571.82	2	298.15	0.9100
4000	C4H11NO	4-aminobutan-2-ol	39884-48-5	0.29710	0.24450	571.82	0.28571	281.87	571.82	1,2	298.15	0.9300
4001	C4H11NO	(S)-(+)-2-amino-1-butanol	5856-62-2	0.29710	0.24066	571.82	0.28571	359.20	571.82	1,2	446.15	0.7484
4002	C4H11NO	(R)-(-)-2-amino-1-butanol	5856-63-3	0.29710	0.23910	571.82	0.28571	271.25	571.82	1,2	298.15	0.9470
4003	C4H11NO	2-aminobutan-1-ol	96-20-8	0.29710	0.24003	571.82	0.28571	271.25	571.82	1,2	298.15	0.9440
4005	C4H11NO	1-amino-2-methyl-2-propanol	2854-16-2	0.29710	0.24483	571.82	0.28571	281.87	571.82	1,2	298.15	0.9290
4006	C4H11NO2	diethanolamine	111-42-2	0.30130	0.23991	715.00	0.18920	301.15	715.00	1,2	542.04	0.8973
4007	C4H11NO2	2-aminoethoxyethanol	929-06-6	0.31860	0.24682	699.00	0.28571	310.00	699.00	1,2	514.00	0.8296
4008	C4H11NO2	2-amino-2-methyl-1,3-propanediol	115-69-5	0.30130	0.23310	715.00	0.28571	383.15	715.00	2	525.40	0.8163
4010	C4H11NO2	3-methylamino-1,2-propanediol	40137-22-2	0.30130	0.22310	715.00	0.28571	342.15	715.00	1,2	520.15	0.8479
4070	C4H12N2	1,4-butanediamine	110-60-1	0.27697	0.24791	612.33	0.28571	300.65	612.33	1,2	431.65	0.7410
4071	C4H12N2	2,3-butanediamine, (R*,R*)-(±)	20699-48-3	0.27697	0.25751	612.33	0.28571	251.15	612.33	1,2	298.15	0.8499
4072	C4H12N2	N,N'-dimethyl-1,2-ethanediamine	110-70-3	0.27888	0.27116	612.33	0.28571	281.00	612.33	1,2	298.15	0.8200
4073	C4H12N2	N-ethyl-1,2-ethanediamine	110-72-5	0.27888	0.26451	612.33	0.28571	281.00	612.33	1,2	298.15	0.8370
4074	C4H12N2	2-methyl-1,2-propanediamine	811-93-8	0.27888	0.26299	612.33	0.28571	281.00	612.33	1,2	298.15	0.8410
4077	C4H12N2	1,3-butanediamine	590-88-5	0.27888	0.25962	612.33	0.28571	281.00	612.33	1,2	298.15	0.8500
4078	C4H12N2	N,N-dimethylethylenediamine	108-00-9	0.27888	0.27812	612.33	0.28571	291.20	612.33	1,2	298.15	0.8030
4079	C4H12N2	3-(methylamino)propylamine	6291-84-5	0.27888	0.26186	612.33	0.28571	281.00	612.33	1,2	298.15	0.8440
4080	C4H12N2O	N-aminoethyl ethanolamine	111-41-1	0.26910	0.20916	698.00	0.28570	280.00	698.00	1,2	298.15	1.0220
4110	C4H12Si	tetramethylsilane	75-76-3	0.24710	0.26956	450.40	0.29380	174.07	450.40	1,2	298.15	0.6410
4118	C4H13N3	diethylene triamine	111-40-0	0.30170	0.25682	676.00	0.28571	234.15	676.00	1,2	298.15	0.9540
4169	C5Cl6	hexachlorocyclopentadiene	77-47-4	0.51860	0.25268	746.00	0.28570	284.49	746.00	1,2	298.15	1.7030
4175	C5F8	octafluorocyclopentene	559-40-0	0.60290	0.27503	465.23	0.28571	203.15	465.23	1,2	298.15	1.5800
4327	C5H4O2	furfural	98-01-1	0.38130	0.26786	657.00	0.28570	236.65	657.00	1,2	298.15	1.1550
4391	C5H5N	pyridine	110-86-1	0.31140	0.24695	619.95	0.30450	231.53	619.95	1,2	298.15	0.9790
4447	C5H6	cyclopentadiene	542-92-7	0.29380	0.27644	507.00	0.28571	188.15	507.00	1,2	298.15	0.7970
4448	C5H6	2-methyl-1-butene-3-yne	78-80-8	0.26650	0.27668	492.00	0.30821	160.15	492.00	1,2	298.15	0.6990
4449	C5H6	1-pentene-3-yne	646-05-9	0.25820	0.24046	520.00	0.36452	160.15	520.00	1,2	298.15	0.7340
4450	C5H6	1-pentene-4-yne	871-28-3	0.25820	0.26376	503.00	0.28570	160.15	503.00	1,2	298.15	0.7240
4451	C5H6	cis-3-penten-1-yne	1574-40-9	0.26097	0.26122	505.00	0.28571	160.15	505.00	2	298.15	0.7385
4452	C5H6	trans-3-penten-1-yne	2004-69-5	0.26097	0.26122	505.00	0.28571	160.15	505.00	2	298.15	0.7385
4490	C5H6N2	glutaronitrile	544-13-8	0.26740	0.21571	782.00	0.34480	244.21	782.00	1,2	298.15	0.9810
4534	C5H6O	2-methylfuran	534-22-5	0.33240	0.27951	527.00	0.28571	178.87	527.00	1,2	298.15	0.9075
4535	C5H6O	3-methylfuran	930-27-8	0.32775	0.27216	528.60	0.28571	182.44	528.60	1,2	298.15	0.9149
4548	C5H6O2	furfuryl alcohol	98-00-0	0.37300	0.27747	632.00	0.23180	258.52	632.00	1,2	298.15	1.1270
4567	C5H6O3	glutaric anhydride	108-55-4	0.41490	0.25052	838.00	0.28571	328.00	838.00	1,2	562.69	1.1359
4576	C5H6O4	citraconic acid	498-23-7	0.38260	0.19455	829.00	0.28570	356.15	829.00	1,2	607.00	1.1768
4577	C5H6O4	itaconic acid	97-65-4	0.38260	0.20023	821.00	0.28570	438.75	821.00	1,2	601.00	1.1540
4587	C5H6S	2-methylthiophene	554-14-3	0.35630	0.28171	610.00	0.28571	209.77	610.00	1,2	298.15	1.0140
4588	C5H6S	3-methylthiophene	616-44-4	0.35630	0.28183	615.00	0.28571	204.18	615.00	1,2	298.15	1.0160
4658	C5H7N	N-methylpyrrole	96-54-8	0.28660	0.23566	610.00	0.34379	216.91	610.00	1,2	298.15	0.9030
4659	C5H7N	2-methylpyrrole	636-41-9	0.28660	0.23890	610.00	0.28571	237.55	610.00	1,2	298.15	0.9345
4660	C5H7N	3-methylpyrrole	616-43-3	0.28660	0.26206	610.00	0.28571	224.75	610.00	2	298.15	0.8658
4677	C5H7NO2	ethyl cyanoacetate	105-56-6	0.31600	0.23896	679.00	0.29300	250.65	679.00	1,2	298.15	1.0580
4736	C5H8	spiropentane	157-40-4	0.28800	0.29690	499.74	0.28571	166.11	499.74	1,2	298.15	0.7350

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
4737	C5H8	cyclopentene	142-29-0	0.28380	0.27778	507.00	0.28571	138.13	507.00	1,2	298.15	0.7670
4738	C5H8	isoprene	78-79-5	0.25610	0.27949	483.30	0.28571	127.20	483.30	1,2	298.15	0.6750
4739	C5H8	3-methyl-1,2-butadiene	598-25-4	0.23410	0.24609	490.00	0.29041	159.53	490.00	1,2	298.15	0.6810
4740	C5H8	1,2-pentadiene	591-95-7	0.24680	0.26418	500.00	0.28786	135.89	500.00	1,2	298.15	0.6880
4741	C5H8	cis-1,3-pentadiene	1574-41-0	0.24680	0.26558	499.00	0.28570	132.35	499.00	1,2	298.15	0.6860
4742	C5H8	trans-1,3-pentadiene	2004-70-8	0.24680	0.26773	500.00	0.30401	185.71	500.00	1,2	298.15	0.6710
4743	C5H8	1,4-pentadiene	591-93-5	0.22480	0.22738	479.00	0.33730	124.86	479.00	1,2	298.15	0.6530
4744	C5H8	2,3-pentadiene	591-96-8	0.23090	0.24609	497.00	0.27012	147.50	497.00	1,2	298.15	0.6900
4745	C5H8	1-pentyne	627-19-0	0.24590	0.23523	481.20	0.35300	167.45	481.20	1,2	298.15	0.6880
4746	C5H8	2-pentyne	627-21-4	0.24550	0.26090	521.99	0.28571	163.86	521.99	1,2	298.15	0.7050
4747	C5H8	3-methyl-1-butyne	598-23-2	0.24770	0.26008	463.20	0.30807	183.45	463.20	1,2	298.15	0.6600
4751	C5H8	1,3-pentadiene; (cis+trans)	504-60-9	0.24090	0.25689	492.61	0.28571	144.72	492.61	1,2	298.15	0.6830
4770	C5H8Cl2	3-chloro-2-(chloromethyl)-1-butene	69295-21-2	0.36972	0.26866	660.00	0.28571	330.00	660.00	1,2	428.15	0.9799
4771	C5H8Cl2	1,3-dichloro-2-methyl-2-butene	25148-87-2	0.36972	0.26697	660.00	0.28571	330.00	660.00	1,2	423.15	0.9904
4772	C5H8Cl2	1,4-dichloro-2-methyl-2-butene	29843-58-1	0.36972	0.26060	660.00	0.28571	330.00	660.00	1,2	425.15	1.0060
4773	C5H8Cl2	3,3-dichloro-2-methyl-1-butene	42101-38-2	0.36972	0.26800	660.00	0.28571	330.00	660.00	1,2	425.15	0.9853
4774	C5H8Cl2	2,5-dichloro-2-pentene	20177-02-0	0.36972	0.27148	660.00	0.28571	330.00	660.00	1,2	424.15	0.9770
4797	C5H8Cl4	2,2-bis(chloromethyl)-1,3-dichloropropane	3228-99-7	0.42786	0.26804	725.00	0.28571	370.15	725.00	2	485.00	1.1175
4798	C5H8Cl4	1,1,1,5-tetrachloropentane	2467-10-9	0.42786	0.26371	725.00	0.28571	370.15	725.00	1,2	485.00	1.1308
4845	C5H8N4O12	pentaerythritol tetranitrate	78-11-5	0.43250	0.19020	676.00	0.28571	413.65	676.00	1,2	543.00	1.2273
4848	C5H8O	cyclopentanone	120-92-3	0.32600	0.27161	626.00	0.31334	221.85	626.00	1,2	298.15	0.9450
4849	C5H8O	methyl isopropenyl ketone	814-78-8	0.27850	0.25261	566.00	0.28570	219.55	566.00	1,2	298.15	0.8460
4861	C5H8O	trans-2-methyl-2-butenal	497-03-0	0.30981	0.28067	570.00	0.28571	230.00	570.00	1,2	298.15	0.8663
4862	C5H8O	2-methyl-2-butenal	1115-11-3	0.30981	0.28067	570.00	0.28571	230.00	570.00	1,2	298.15	0.8663
4863	C5H8O	3-methyl-2-butenal	107-86-8	0.30981	0.28019	570.00	0.28571	230.00	570.00	1,2	298.15	0.8675
4864	C5H8O	4-pentenal	2100-17-6	0.30981	0.28838	570.00	0.28571	230.00	570.00	1,2	298.15	0.8475
4871	C5H8O	trans-3-penten-2-one	3102-33-8	0.27563	0.24699	575.00	0.28571	230.00	575.00	1,2	298.15	0.8574
4872	C5H8O	1-penten-3-one	1629-58-9	0.27760	0.25480	575.00	0.28571	230.00	575.00	1,2	298.15	0.8420
4874	C5H8O	2-ethylacrolein	922-63-4	0.30981	0.28363	570.00	0.28571	230.00	570.00	1,2	298.15	0.8590
4876	C5H8O	trans-2-pentenal	1576-87-0	0.30981	0.28323	570.00	0.28571	230.00	570.00	1,2	298.15	0.8600
4877	C5H8O	3-penten-2-one	625-33-2	0.27760	0.24860	575.00	0.28571	230.00	575.00	1,2	298.15	0.8590
4880	C5H8O	2-pentenal	764-39-6	0.30981	0.28110	570.00	0.28571	230.00	570.00	2	298.15	0.8653
4882	C5H8O2	acetylacetone	123-54-6	0.31000	0.25792	602.00	0.25054	249.65	602.00	1,2	298.15	0.9710
4883	C5H8O2	allyl acetate	591-87-7	0.31000	0.25791	559.00	0.28571	138.00	559.00	1,2	298.15	0.9220
4884	C5H8O2	isopropenyl acetate	108-22-5	0.31000	0.26370	555.50	0.28571	180.25	555.50	1,2	298.15	0.9037
4885	C5H8O2	vinyl propionate	105-38-4	0.31000	0.23102	546.00	0.28571	195.26	546.00	2	298.15	0.9981
4886	C5H8O2	methyl cis-2-butenoate	4358-59-2	0.31000	0.23301	555.50	0.28571	195.26	555.50	2	298.15	0.9980
4887	C5H8O2	methyl trans-2-butenoate	623-43-8	0.31000	0.25151	555.50	0.28571	231.15	555.50	1,2	298.15	0.9386
4888	C5H8O2	ethyl acrylate	140-88-5	0.31000	0.25806	553.00	0.28571	201.95	553.00	1,2	298.15	0.9180
4889	C5H8O2	methyl methacrylate	80-62-6	0.31000	0.25378	564.00	0.28571	224.95	564.00	1,2	298.15	0.9370
4890	C5H8O2	2-methylenebutanoic acid	3586-58-1	0.31141	0.25489	676.00	0.28571	257.15	676.00	1,2	298.15	0.9910
4891	C5H8O2	trans-2-methyl-2-butenoic acid	80-59-1	0.31044	0.24791	676.00	0.28571	338.15	676.00	1,2	471.65	0.8362
4892	C5H8O2	cis-2-methyl-2-butenoic acid	565-63-9	0.31044	0.24976	676.00	0.28571	318.15	676.00	1,2	458.15	0.8471
4893	C5H8O2	2-methyl-3-butenoic acid	53774-20-2	0.31633	0.25758	676.00	0.28571	289.45	676.00	2	298.15	0.9977
4894	C5H8O2	3-methyl-2-butenoic acid	541-47-9	0.31044	0.24970	676.00	0.28571	343.15	676.00	1,2	468.15	0.8360
4895	C5H8O2	3-methyl-3-butenoic acid	1617-31-8	0.30948	0.25101	676.00	0.28571	294.15	676.00	2	298.15	0.9978
4896	C5H8O2	trans-2-pentenoic acid	13991-37-2	0.31141	0.25790	676.00	0.28571	283.15	676.00	1,2	298.15	0.9812
4897	C5H8O2	cis-2-pentenoic acid	16666-42-5	0.31141	0.25286	676.00	0.28571	301.13	676.00	2	458.15	0.8422
4898	C5H8O2	trans-3-pentenoic acid	1617-32-9	0.31141	0.25286	676.00	0.28571	274.65	676.00	2	298.15	0.9977
4899	C5H8O2	cis-3-pentenoic acid	33698-87-2	0.31141	0.25286	676.00	0.28571	301.13	676.00	2	392.15	0.9106
4900	C5H8O2	4-pentenoic acid	591-80-0	0.31044	0.25889	676.00	0.28571	250.65	676.00	1,2	298.15	0.9750
4918	C5H8O2	methyl 3-butenoate	3724-55-8	0.31000	0.25139	555.50	0.28571	195.26	555.50	1,2	298.15	0.9390
4927	C5H8O3	2-hydroxyethyl acrylate	818-61-1	0.32340	0.25954	662.00	0.28570	213.00	662.00	1,2	298.15	1.0080
4928	C5H8O3	levulinic acid	123-76-2	0.33850	0.25121	723.00	0.25720	308.15	723.00	1,2	518.95	0.9181
4929	C5H8O3	methyl acetoacetate	105-45-3	0.33850	0.26801	642.00	0.21300	241.25	642.00	1,2	298.15	1.0720
4945	C5H8O4	glutaric acid	110-94-1	0.36400	0.21637	807.00	0.25522	370.65	807.00	1,2	595.54	1.0800
4964	C5H9Br	cis-1-bromo-1-pentene	31849-75-9	0.41687	0.26518	584.97	0.28571	200.33	584.97	1,2	298.15	1.2310
4965	C5H9Br	trans-1-bromo-1-pentene	31849-76-0	0.41687	0.26518	584.97	0.28571	200.33	584.97	1,2	298.15	1.2310
4966	C5H9Br	2-bromo-1-pentene	31844-95-8	0.41455	0.26417	576.34	0.28571	189.69	576.34	1,2	298.15	1.2220
4967	C5H9Br	3-bromo-1-pentene	53045-71-9	0.42278	0.27192	580.26	0.28571	188.65	580.26	1,2	298.15	1.2200
4968	C5H9Br	4-bromo-1-pentene	31950-56-8	0.42278	0.26791	581.77	0.28571	188.65	581.77	1,2	298.15	1.2359
4969	C5H9Br	5-bromo-1-pentene	1119-51-3	0.41571	0.26162	602.30	0.28571	203.65	602.30	1,2	298.15	1.2527
4970	C5H9Br	1-bromo-cis-2-pentene	7348-78-9	0.41687	0.26266	597.03	0.28571	200.33	597.03	1,2	298.15	1.2487
4971	C5H9Br	1-bromo-trans-2-pentene	7348-71-2	0.41687	0.26266	597.03	0.28571	200.33	597.03	1,2	298.15	1.2487
4972	C5H9Br	2-bromo-cis-2-pentene	54653-29-1	0.41571	0.25430	584.62	0.28571	186.37	584.62	1,2	298.15	1.2700
4973	C5H9Br	2-bromo-trans-2-pentene	54653-30-4	0.41571	0.25430	584.62	0.28571	186.37	584.62	1,2	298.15	1.2700
4974	C5H9Br	3-bromo-cis-2-pentene	23068-94-2	0.41571	0.25474	581.59	0.28571	186.37	581.59	1,2	298.15	1.2660
4975	C5H9Br	3-bromo-trans-2-pentene	54653-28-0	0.41571	0.25474	581.59	0.28571	186.37	581.59	1,2	298.15	1.2660
4976	C5H9Br	4-bromo-cis-2-pentene	56535-63-8	0.42398	0.26281	592.38	0.28571	185.33	592.38	1,2	298.15	1.2663
4977	C5H9Br	4-bromo-trans-2-pentene	23068-95-3	0.42398	0.26281	592.38	0.28571	185.33	592.38	1,2	298.15	1.2663
4978	C5H9Br	5-bromo-cis-2-pentene	50273-84-2	0.41687	0.25887	600.04	0.28571	200.33	600.04	1,2	298.15	1.2657
4979	C5H9Br	5-bromo-trans-2-pentene	7515-62-0	0.41687	0.25887	600.04	0.28571	200.33	600.04	1,2	298.15	1.2657
4980	C5H9Br	cis-1-bromo-2-methyl-1-butene	36668-55-0	0.41571	0.26410	592.21	0.28571	186.37	592.21	1,2	298.15	1.2365
4981	C5H9Br	trans-1-bromo-2-methyl-1-butene	54265-17-7	0.41571	0.26410	592.21	0.28571	186.37	592.21	1,2	298.15	1.2365
4982	C5H9Br	3-bromo-2-methyl-1-butene	51872-48-1	0.42159	0.26705	573.71	0.28571	174.69	573.71	1,2	298.15	1.2300
4983	C5H9Br	4-bromo-2-methyl-1-butene	20038-12-4	0.41455	0.26073	569.33	0.28571	189.69	569.33	1,2	298.15	1.2300
4984	C5H9Br	cis-1-bromo-3-methyl-1-butene	16416-44-7	0.42398	0.27083	582.50	0.28571	185.33	582.50	1,2	298.15	1.2290
4985	C5H9Br	trans-1-bromo-3-methyl-1-butene	16416-41-4	0.42398	0.27083	582.50	0.28571	185.33	582.50	1,2	298.15	1.2290
4986	C5H9Br	2-bromo-3-methyl-1-butene	31844-96-9	0.42159	0.26675	570.77	0.28571	174.69	570.77	1,2	298.15	1.2290
4987	C5H9Br	3-bromo-3-methyl-1-butene	865-58-7	0.42886	0.27312	575.70	0.28571	206.07	575.70	1,2	298.15	1.2300

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
4988	C5H9Br	4-bromo-3-methyl-1-butene	31950-55-7	0.42278	0.26993	569.74	0.28571	188.65	569.74	1,2	298.15	1.2200
4989	C5H9Br	1-bromo-2-methyl-cis-2-butene	57253-29-9	0.41571	0.26239	602.84	0.28571	186.37	602.84	1,2	298.15	1.2500
4990	C5H9Br	1-bromo-2-methyl-trans-2-butene	57253-30-2	0.41571	0.26239	602.84	0.28571	186.37	602.84	1,2	298.15	1.2500
4991	C5H9Br	1-bromo-3-methyl-2-butene	870-63-3	0.41571	0.25194	582.88	0.28571	186.37	582.88	1,2	298.15	1.2784
4992	C5H9Br	2-bromo-3-methyl-2-butene	3017-70-7	0.41455	0.25282	598.09	0.28571	172.41	598.09	1,2	298.15	1.2820
4993	C5H9Br	3-bromo-2-ethyl-1-propene	---	0.41455	0.24820	569.33	0.28571	189.69	569.33	1,2	298.15	1.2800
4995	C5H9Br	1-bromo-1-pentene	60468-23-7	0.41843	0.26069	586.22	0.28571	189.57	586.22	1,2	298.15	1.2538
4996	C5H9Br	1-bromo-2-pentene	20599-27-3	0.41843	0.26223	586.22	0.28571	189.57	586.22	1,2	298.15	1.2478
4997	C5H9Br	2-bromo-2-pentene	80204-19-9	0.41843	0.25686	586.22	0.28571	189.57	586.22	1,2	298.15	1.2690
4998	C5H9Br	3-bromo-2-pentene	21964-23-8	0.41843	0.25784	586.22	0.28571	189.57	586.22	1,2	298.15	1.2651
4999	C5H9Br	4-bromo-2-pentene	1809-26-3	0.41843	0.26795	586.22	0.28571	189.57	586.22	1,2	298.15	1.2260
5000	C5H9Br	5-bromo-2-pentene	51952-42-2	0.41843	0.25797	586.22	0.28571	189.57	586.22	1,2	298.15	1.2646
5022	C5H9Br3	1,1,1-tribromopentane	16644-66-9	0.62964	0.25991	736.13	0.28571	327.43	736.13	2	503.15	1.6609
5023	C5H9Cl	cis-1-chloro-1-pentene	66213-69-2	0.30357	0.25529	546.85	0.28571	170.45	546.85	1,2	298.15	0.9030
5024	C5H9Cl	trans-1-chloro-1-pentene	66213-70-5	0.30357	0.25529	546.85	0.28571	170.45	546.85	1,2	298.15	0.9030
5025	C5H9Cl	2-chloro-1-pentene	42131-85-1	0.30182	0.25403	547.93	0.28571	159.81	547.93	1,2	298.15	0.9020
5026	C5H9Cl	3-chloro-1-pentene	24356-00-1	0.30804	0.26515	556.39	0.28571	158.77	556.39	1,2	298.15	0.8945
5027	C5H9Cl	4-chloro-1-pentene	10524-08-0	0.30804	0.27209	562.47	0.28571	158.77	562.47	1,2	298.15	0.8794
5028	C5H9Cl	5-chloro-1-pentene	928-50-7	0.30269	0.25697	566.62	0.28571	173.77	566.62	1,2	298.15	0.9072
5029	C5H9Cl	1-chloro-cis-2-pentene	6261-19-4	0.30357	0.26274	577.85	0.28571	170.45	577.85	1,2	298.15	0.8996
5030	C5H9Cl	1-chloro-trans-2-pentene	6261-25-2	0.30357	0.25706	579.36	0.28571	170.45	579.36	1,2	298.15	0.9165
5031	C5H9Cl	2-chloro-cis-2-pentene	42131-98-6	0.30269	0.25741	556.15	0.28571	156.49	556.15	1,2	298.15	0.9000
5032	C5H9Cl	2-chloro-trans-2-pentene	42132-00-3	0.30269	0.25741	556.15	0.28571	156.49	556.15	1,2	298.15	0.9000
5033	C5H9Cl	3-chloro-cis-2-pentene	26423-60-9	0.30269	0.25910	553.10	0.28571	156.49	553.10	1,2	298.15	0.8935
5034	C5H9Cl	3-chloro-trans-2-pentene	26423-61-0	0.30269	0.25910	553.10	0.28571	156.49	553.10	1,2	298.15	0.8935
5035	C5H9Cl	4-chloro-cis-2-pentene	26423-63-2	0.30895	0.26771	564.66	0.28571	155.45	564.66	1,2	298.15	0.8948
5036	C5H9Cl	4-chloro-trans-2-pentene	18610-33-8	0.30895	0.26771	564.66	0.28571	155.45	564.66	1,2	298.15	0.8948
5037	C5H9Cl	5-chloro-cis-2-pentene	53543-44-5	0.30357	0.26267	576.34	0.28571	170.45	576.34	1,2	298.15	0.8990
5038	C5H9Cl	5-chloro-trans-2-pentene	10524-07-9	0.30357	0.26267	576.34	0.28571	170.45	576.34	1,2	298.15	0.8990
5039	C5H9Cl	cis-1-chloro-2-methyl-1-butene	7611-88-3	0.30269	0.25677	553.10	0.28571	156.49	553.10	1,2	298.15	0.9000
5040	C5H9Cl	trans-1-chloro-2-methyl-1-butene	7611-89-4	0.30269	0.25677	553.10	0.28571	156.49	553.10	1,2	298.15	0.9000
5041	C5H9Cl	3-chloro-2-methyl-1-butene	5166-35-8	0.30713	0.26200	561.72	0.28571	144.81	561.72	1,2	298.15	0.9035
5042	C5H9Cl	4-chloro-2-methyl-1-butene	10523-96-3	0.30182	0.25909	569.17	0.28571	159.81	569.17	1,2	298.15	0.9000
5043	C5H9Cl	cis-1-chloro-3-methyl-1-butene	66213-67-0	0.30895	0.26455	558.56	0.28571	155.45	558.56	1,2	298.15	0.9000
5044	C5H9Cl	trans-1-chloro-3-methyl-1-butene	66213-68-1	0.30895	0.26455	558.56	0.28571	155.45	558.56	1,2	298.15	0.9000
5045	C5H9Cl	2-chloro-3-methyl-1-butene	17773-64-7	0.30713	0.26207	555.90	0.28571	144.81	555.90	1,2	298.15	0.9000
5046	C5H9Cl	3-chloro-3-methyl-1-butene	2190-48-9	0.31264	0.27403	546.40	0.28571	176.19	546.40	1,2	298.15	0.8786
5047	C5H9Cl	4-chloro-3-methyl-1-butene	10524-01-3	0.30804	0.26282	554.87	0.28571	158.77	554.87	1,2	298.15	0.9000
5048	C5H9Cl	1-chloro-2-methyl-cis-2-butene	23009-74-7	0.30269	0.25260	580.52	0.28571	156.49	580.52	1,2	298.15	0.9276
5049	C5H9Cl	1-chloro-2-methyl-trans-2-butene	23009-73-6	0.30269	0.25324	575.95	0.28571	156.49	575.95	1,2	298.15	0.9232
5050	C5H9Cl	1-chloro-3-methyl-2-butene	503-60-6	0.30269	0.25442	583.57	0.28571	156.49	583.57	1,2	298.15	0.9238
5051	C5H9Cl	2-chloro-3-methyl-2-butene	17773-65-8	0.30182	0.25643	563.35	0.28571	142.53	563.35	1,2	298.15	0.9043
5052	C5H9Cl	3-chloro-2-ethyl-1-propene	---	0.30182	0.25539	550.96	0.28571	159.81	550.96	1,2	298.15	0.9000
5053	C5H9Cl	1-chloro-2-methyl-1-butene	23378-11-2	0.30475	0.25661	561.69	0.28571	159.69	561.69	1,2	298.15	0.9116
5054	C5H9Cl	1-chloro-2-methyl-2-butene	13417-43-1	0.30475	0.25129	561.69	0.28571	159.69	561.69	1,2	298.15	0.9271
5055	C5H9Cl	1-chloro-3-methyl-1-butene	23010-00-6	0.30475	0.25898	561.69	0.28571	159.69	561.69	2	298.15	0.9049
5056	C5H9Cl	1-chloro-2-pentene	10071-60-0	0.30475	0.25900	561.69	0.28571	159.69	561.69	1,2	298.15	0.9048
5057	C5H9Cl	2-chloro-2-pentene	67747-70-0	0.30475	0.26021	561.69	0.28571	159.69	561.69	1,2	298.15	0.9014
5058	C5H9Cl	3-chloro-2-pentene	34238-52-3	0.30475	0.25817	561.69	0.28571	159.69	561.69	1,2	298.15	0.9072
5059	C5H9Cl	4-chloro-2-pentene	1458-99-7	0.30475	0.26304	561.69	0.28571	159.69	561.69	1,2	298.15	0.8936
5060	C5H9Cl	5-chloro-2-pentene	16435-50-0	0.30475	0.26106	561.69	0.28571	159.69	561.69	1,2	298.15	0.8990
5100	C5H9Cl3	1,1,1-trichloropentane	3922-27-8	0.38867	0.26314	635.09	0.28571	237.79	635.09	1,2	298.15	1.1840
5101	C5H9Cl3	1,2,3-trichloro-2-methylbutane	62521-69-1	0.38867	0.24739	635.09	0.28571	264.47	635.09	1,2	298.15	1.2466
5102	C5H9Cl3	2,2,3-trichloro-3-methylbutane	98070-91-8	0.38867	0.25803	635.09	0.28571	264.47	635.09	1,2	298.15	1.2035
5103	C5H9Cl3	1,3-dichloro-2-(chloromethyl)-2-methylpropane	1067-09-0	0.38867	0.24170	635.09	0.28571	291.15	635.09	1,2	298.15	1.2710
5109	C5H9F	cis-1-fluoro-1-pentene	66213-83-0	0.28110	0.24804	479.34	0.28571	172.68	479.34	1,2	298.15	0.8080
5110	C5H9F	trans-1-fluoro-1-pentene	66213-84-1	0.28110	0.24804	479.34	0.28571	172.68	479.34	1,2	298.15	0.8080
5111	C5H9F	2-fluoro-1-pentene	66213-89-6	0.27932	0.24168	469.43	0.28571	162.04	469.43	1,2	298.15	0.8100
5112	C5H9F	3-fluoro-1-pentene	66702-88-3	0.28566	0.24912	469.68	0.28571	161.00	469.68	1,2	298.15	0.8100
5113	C5H9F	4-fluoro-1-pentene	66702-91-8	0.28566	0.24912	469.68	0.28571	161.00	469.68	1,2	298.15	0.8100
5114	C5H9F	5-fluoro-1-pentene	407-79-4	0.28021	0.25400	504.50	0.28571	176.00	504.50	1,2	298.15	0.8100
5115	C5H9F	1-fluoro-cis-2-pentene	66213-85-2	0.28110	0.24723	479.34	0.28571	172.68	479.34	1,2	298.15	0.8100
5116	C5H9F	1-fluoro-trans-2-pentene	66213-86-3	0.28110	0.24723	479.34	0.28571	172.68	479.34	1,2	298.15	0.8100
5117	C5H9F	2-fluoro-cis-2-pentene	66213-87-4	0.28021	0.24729	482.63	0.28571	158.72	482.63	1,2	298.15	0.8100
5118	C5H9F	2-fluoro-trans-2-pentene	66213-88-5	0.28021	0.24729	482.63	0.28571	158.72	482.63	1,2	298.15	0.8100
5119	C5H9F	3-fluoro-cis-2-pentene	66213-90-9	0.28021	0.24729	482.63	0.28571	158.72	482.63	1,2	298.15	0.8100
5120	C5H9F	3-fluoro-trans-2-pentene	66702-87-2	0.28021	0.24729	482.63	0.28571	158.72	482.63	1,2	298.15	0.8100
5121	C5H9F	4-fluoro-cis-2-pentene	66702-89-4	0.28659	0.25482	482.91	0.28571	157.68	482.91	1,2	298.15	0.8100
5122	C5H9F	4-fluoro-trans-2-pentene	66702-90-7	0.28659	0.25482	482.91	0.28571	157.68	482.91	1,2	298.15	0.8100
5123	C5H9F	5-fluoro-cis-2-pentene	66702-92-9	0.28110	0.24723	479.34	0.28571	172.68	479.34	1,2	298.15	0.8100
5124	C5H9F	5-fluoro-trans-2-pentene	66702-93-0	0.28110	0.24723	479.34	0.28571	172.68	479.34	1,2	298.15	0.8100
5125	C5H9F	cis-1-fluoro-2-methyl-1-butene	66213-72-7	0.28021	0.24729	482.63	0.28571	158.72	482.63	1,2	298.15	0.8100
5126	C5H9F	trans-1-fluoro-2-methyl-1-butene	66213-74-9	0.28021	0.24729	482.63	0.28571	158.72	482.63	1,2	298.15	0.8100
5127	C5H9F	3-fluoro-2-methyl-1-butene	53731-24-1	0.28473	0.24923	472.95	0.28571	147.04	472.95	1,2	298.15	0.8100
5128	C5H9F	4-fluoro-2-methyl-1-butene	66213-81-8	0.27932	0.24168	469.43	0.28571	162.04	469.43	1,2	298.15	0.8100
5129	C5H9F	cis-1-fluoro-3-methyl-1-butene	66213-73-8	0.28659	0.25482	482.91	0.28571	157.68	482.91	1,2	298.15	0.8100
5130	C5H9F	trans-1-fluoro-3-methyl-1-butene	66213-75-0	0.28659	0.25482	482.91	0.28571	157.68	482.91	1,2	298.15	0.8100
5131	C5H9F	2-fluoro-3-methyl-1-butene	66213-78-3	0.28473	0.24923	472.95	0.28571	147.04	472.95	1,2	298.15	0.8100
5132	C5H9F	3-fluoro-3-methyl-1-butene	66213-80-7	0.29036	0.25613	473.89	0.28571	178.42	473.89	1,2	298.15	0.8100
5133	C5H9F	4-fluoro-3-methyl-1-butene	66213-82-9	0.28566	0.24912	469.68	0.28571	161.00	469.68	1,2	298.15	0.8100

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
5134	C5H9F	1-fluoro-2-methyl-cis-2-butene	66213-76-1	0.28021	0.23948	482.63	0.28571	158.72	482.63	1,2	298.15	0.8300
5135	C5H9F	1-fluoro-2-methyl-trans-2-butene	66213-77-2	0.28021	0.23948	482.63	0.28571	158.72	482.63	1,2	298.15	0.8300
5136	C5H9F	1-fluoro-3-methyl-2-butene	23425-81-2	0.28021	0.24729	482.63	0.28571	158.72	482.63	1,2	298.15	0.8100
5137	C5H9F	2-fluoro-3-methyl-2-butene	66213-79-4	0.27932	0.24737	486.02	0.28571	144.76	486.02	1,2	298.15	0.8100
5138	C5H9F	3-fluoro-2-ethyl-1-propene	---	0.27932	0.24168	469.43	0.28571	162.04	469.43	1,2	298.15	0.8100
5144	C5H9F3	1,1,1-trifluoropentane	406-82-6	0.35328	0.25113	464.50	0.28571	244.48	464.50	1,2	298.15	0.9900
5147	C5H9I	cis-1-iodo-1-pentene	66703-02-4	0.51116	0.27064	641.17	0.28571	198.59	641.17	1,2	298.15	1.5250
5148	C5H9I	trans-1-iodo-1-pentene	66703-03-5	0.51116	0.27064	641.17	0.28571	198.59	641.17	1,2	298.15	1.5250
5149	C5H9I	2-iodo-1-pentene	66688-59-3	0.50851	0.26411	614.94	0.28571	187.95	614.94	1,2	298.15	1.5300
5150	C5H9I	3-iodo-1-pentene	66688-61-7	0.51792	0.26577	615.43	0.28571	186.91	615.43	1,2	298.15	1.5506
5151	C5H9I	4-iodo-1-pentene	59967-14-5	0.51792	0.26141	615.43	0.28571	186.91	615.43	1,2	298.15	1.5720
5152	C5H9I	5-iodo-1-pentene	7766-48-5	0.50983	0.26165	640.23	0.28571	201.91	640.23	1,2	298.15	1.5640
5153	C5H9I	1-iodo-cis-2-pentene	66703-04-6	0.51116	0.26306	624.39	0.28571	198.59	624.39	1,2	298.15	1.5500
5154	C5H9I	1-iodo-trans-2-pentene	66688-56-0	0.51116	0.26306	624.39	0.28571	198.59	624.39	1,2	298.15	1.5500
5155	C5H9I	2-iodo-cis-2-pentene	66688-57-1	0.50983	0.26288	628.80	0.28571	184.63	628.80	1,2	298.15	1.5500
5156	C5H9I	2-iodo-trans-2-pentene	66688-58-2	0.50983	0.26288	628.80	0.28571	184.63	628.80	1,2	298.15	1.5500
5157	C5H9I	3-iodo-cis-2-pentene	35895-39-7	0.50983	0.26288	628.80	0.28571	184.63	628.80	1,2	298.15	1.5500
5158	C5H9I	3-iodo-trans-2-pentene	66688-60-6	0.50983	0.26288	628.80	0.28571	184.63	628.80	1,2	298.15	1.5500
5159	C5H9I	4-iodo-cis-2-pentene	66688-62-8	0.51929	0.26882	629.33	0.28571	183.59	629.33	1,2	298.15	1.5500
5160	C5H9I	4-iodo-trans-2-pentene	66688-63-9	0.51929	0.26882	629.33	0.28571	183.59	629.33	1,2	298.15	1.5500
5161	C5H9I	5-iodo-cis-2-pentene	66688-64-0	0.51116	0.26306	624.39	0.28571	198.59	624.39	1,2	298.15	1.5500
5162	C5H9I	5-iodo-trans-2-pentene	56399-98-5	0.51116	0.26306	624.39	0.28571	198.59	624.39	1,2	298.15	1.5500
5163	C5H9I	cis-1-iodo-2-methyl-1-butene	52812-57-4	0.50983	0.26288	628.80	0.28571	184.63	628.80	1,2	298.15	1.5500
5164	C5H9I	trans-1-iodo-2-methyl-1-butene	66702-95-2	0.50983	0.26288	628.80	0.28571	184.63	628.80	1,2	298.15	1.5500
5165	C5H9I	3-iodo-2-methyl-1-butene	66703-00-2	0.51655	0.26729	630.52	0.28571	172.95	630.52	1,2	298.15	1.5500
5166	C5H9I	4-iodo-2-methyl-1-butene	53750-52-0	0.50851	0.26148	624.84	0.28571	187.95	624.84	1,2	298.15	1.5500
5167	C5H9I	cis-1-iodo-3-methyl-1-butene	64245-25-6	0.51929	0.26882	629.33	0.28571	183.59	629.33	1,2	298.15	1.5500
5168	C5H9I	trans-1-iodo-3-methyl-1-butene	66702-96-3	0.51929	0.26882	629.33	0.28571	183.59	629.33	1,2	298.15	1.5500
5169	C5H9I	2-iodo-3-methyl-1-butene	32442-47-0	0.51655	0.26572	619.84	0.28571	172.95	619.84	1,2	298.15	1.5500
5170	C5H9I	3-iodo-3-methyl-1-butene	59128-91-5	0.52485	0.27127	622.45	0.28571	204.33	622.45	1,2	298.15	1.5500
5171	C5H9I	4-iodo-3-methyl-1-butene	66703-01-3	0.51792	0.26590	615.43	0.28571	186.91	615.43	1,2	298.15	1.5500
5172	C5H9I	1-iodo-2-methyl-cis-2-butene	66702-97-4	0.50983	0.26288	628.80	0.28571	184.63	628.80	1,2	298.15	1.5500
5173	C5H9I	1-iodo-2-methyl-trans-2-butene	66702-98-5	0.50983	0.26288	628.80	0.28571	184.63	628.80	1,2	298.15	1.5500
5174	C5H9I	1-iodo-3-methyl-2-butene	41004-19-7	0.50983	0.26288	628.80	0.28571	184.63	628.80	1,2	298.15	1.5500
5175	C5H9I	2-iodo-3-methyl-2-butene	66702-99-6	0.50851	0.26270	633.35	0.28571	170.67	633.35	1,2	298.15	1.5500
5176	C5H9I	3-iodo-2-ethyl-1-propene	---	0.50851	0.26000	614.94	0.28571	187.95	614.94	1,2	298.15	1.5500
5182	C5H9I3	1,1,1-triiodopentane	---	0.79128	0.27353	882.04	0.28571	322.21	882.04	2	589.99	2.0364
5183	C5H9N	valeronitrile	110-59-8	0.25120	0.24839	603.00	0.27970	176.95	603.00	1,2	298.15	0.7940
5184	C5H9N	2-methylbutanenitrile	18936-17-9	0.24779	0.24446	585.80	0.28571	195.60	585.80	1,2	298.15	0.7823
5185	C5H9N	3-methylbutanenitrile	625-28-5	0.24779	0.24425	593.30	0.28571	172.35	593.30	1,2	298.15	0.7862
5186	C5H9N	2,2-dimethylpropanenitrile	630-18-2	0.25154	0.25200	565.78	0.28571	289.15	565.78	1,2	298.15	0.7655
5187	C5H9N	butyl isocyanide	2769-64-4	0.24344	0.24403	579.93	0.28571	215.70	579.93	1,2	298.15	0.7670
5188	C5H9N	isobutyl isocyanide	590-94-3	0.24779	0.24877	563.17	0.28571	200.70	563.17	1,2	298.15	0.7607
5189	C5H9N	sec-butyl isocyanide	14069-89-7	0.24779	0.24785	565.89	0.28571	200.70	565.89	1,2	298.15	0.7643
5190	C5H9N	tert-butyl isocyanide	7188-38-7	0.25154	0.25505	544.72	0.28571	218.12	544.72	1,2	298.15	0.7477
5195	C5H9N	(S)-(+)-2-methylbutyronitrile	25570-03-0	0.24958	0.24541	586.97	0.28571	208.51	586.97	1,2	298.15	0.7860
5197	C5H9NO	butyl isocyanate	111-36-4	0.27540	0.20723	568.00	0.41200	358.65	568.00	1,2	388.15	0.7338
5198	C5H9NO	N-methyl-2-pyrrolidone	872-50-4	0.31370	0.25435	724.00	0.27360	249.15	724.00	1,2	298.15	1.0250
5203	C5H9NO	isobutyl isocyanate	1873-29-6	0.27540	0.21517	568.00	0.28571	358.65	568.00	2	379.15	0.8454
5204	C5H9NO	2-isocyanato-2-methylpropane	1609-86-5	0.27540	0.24842	568.00	0.28571	358.65	568.00	1,2	444.47	0.6778
5245	C5H9NO4	L-glutamic acid	56-86-0	0.38390	0.21084	886.00	0.28571	497.15	886.00	1,2	670.00	1.0862
5269.1	C5H9NS	N-methylthiopyrrolidone	10441-57-3	0.33199	0.20647	869.00	0.28571	276.00	869.00	2	298.15	1.3451
5280	C5H10	1,1-dimethylcyclopropane	1630-94-0	0.25928	0.28855	464.97	0.28571	164.25	464.97	1,2	298.15	0.6554
5281	C5H10	1,cis-2-dimethylcyclopropane	930-18-7	0.24915	0.26321	485.69	0.28571	132.28	485.69	1,2	298.15	0.6889
5282	C5H10	1,trans-2-dimethylcyclopropane	2402-06-4	0.24915	0.27097	471.88	0.28571	123.58	471.88	1,2	298.15	0.6648
5283	C5H10	ethylcyclopropane	1191-96-4	0.25737	0.27833	480.93	0.28571	123.93	480.93	1,2	298.15	0.6790
5284	C5H10	methylcyclobutane	598-61-8	0.26516	0.28317	477.75	0.28571	138.60	477.75	1,2	298.15	0.6884
5285	C5H10	cyclopentane	287-92-3	0.27150	0.27138	511.76	0.28571	179.31	511.76	1,2	298.15	0.7500
5286	C5H10	1-pentene	109-67-1	0.23690	0.26493	464.78	0.29050	107.93	464.78	1,2	298.15	0.6350
5287	C5H10	2-pentene; (cis+trans)	109-68-2	0.23565	0.25749	467.08	0.28571	130.55	467.08	1,2	298.15	0.6500
5288	C5H10	cis-2-pentene	627-20-3	0.23220	0.25126	475.93	0.29862	121.75	475.93	1,2	298.15	0.6500
5289	C5H10	trans-2-pentene	646-04-8	0.23220	0.26198	475.37	0.27760	132.89	475.37	1,2	298.15	0.6430
5290	C5H10	2-methyl-1-butene	563-46-2	0.24020	0.26611	465.00	0.28570	135.58	465.00	1,2	298.15	0.6450
5291	C5H10	3-methyl-1-butene	563-45-1	0.23220	0.26931	450.37	0.26388	104.66	450.37	1,2	298.15	0.6220
5292	C5H10	2-methyl-2-butene	513-35-9	0.24020	0.26187	471.00	0.28571	139.39	471.00	1,2	298.15	0.6570
5297	C5H10Br2	1,1-dibromopentane	13320-56-4	0.53043	0.25984	665.55	0.28571	250.21	665.55	1,2	298.15	1.6540
5298	C5H10Br2	1,2-dibromopentane	3234-49-9	0.53043	0.25868	671.42	0.28571	250.21	671.42	1,2	298.15	1.6641
5299	C5H10Br2	1,3-dibromopentane	42474-20-4	0.53043	0.26078	680.24	0.28571	250.21	680.24	1,2	298.15	1.6583
5300	C5H10Br2	1,4-dibromopentane	626-87-9	0.53043	0.25861	694.92	0.28571	238.73	694.92	1,2	298.15	1.6791
5301	C5H10Br2	1,5-dibromopentane	111-24-0	0.52319	0.25447	722.02	0.28571	233.15	722.02	1,2	298.15	1.6948
5302	C5H10Br2	2,2-dibromopentane	54653-26-8	0.53662	0.26560	661.45	0.28571	267.63	661.45	1,2	298.15	1.6400
5303	C5H10Br2	2,3-dibromopentane	5398-25-4	0.53788	0.26091	668.68	0.28571	217.15	668.68	1,2	298.15	1.6735
5304	C5H10Br2	2,4-dibromopentane	19398-53-9	0.53788	0.26423	673.87	0.28571	235.21	673.87	1,2	298.15	1.6590
5305	C5H10Br2	3,3-dibromopentane	54653-27-9	0.53662	0.26124	656.98	0.28571	267.63	656.98	1,2	298.15	1.6600
5306	C5H10Br2	1,1-dibromo-2-methylbutane	62127-58-6	0.53788	0.26225	659.19	0.28571	235.21	659.19	1,2	298.15	1.6600
5307	C5H10Br2	1,1-dibromo-3-methylbutane	62127-59-7	0.53788	0.26225	659.19	0.28571	235.21	659.19	1,2	298.15	1.6600
5308	C5H10Br2	1,2-dibromo-2-methylbutane	10428-64-5	0.53662	0.26266	665.93	0.28571	202.95	665.93	1,2	298.15	1.6584
5309	C5H10Br2	1,2-dibromo-3-methylbutane	10288-13-8	0.53788	0.26026	659.19	0.28571	235.21	659.19	1,2	298.15	1.6707
5310	C5H10Br2	1,3-dibromo-2-methylbutane	49623-50-9	0.53788	0.23619	659.19	0.28571	235.21	659.19	1,2	298.15	1.8129
5311	C5H10Br2	1,3-dibromo-3-methylbutane	24443-15-0	0.53662	0.26064	661.07	0.28571	267.63	661.07	1,2	298.15	1.6660

Table 3 Density of Liquid - Organic Compounds

			density = A B ^ - (1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
5312	C5H10Br2	1,4-dibromo-2-methylbutane	69498-28-8	0.53043	0.24934	654.58	0.28571	250.21	654.58	1,2	298.15	1.7048
5313	C5H10Br2	2,2-dibromo-3-methylbutane	62127-60-0	0.54424	0.26303	666.02	0.28571	252.63	666.02	1,2	298.15	1.6800
5314	C5H10Br2	2,3-dibromo-2-methylbutane	594-51-4	0.54420	0.26390	668.37	0.28571	288.00	668.37	2	298.15	1.6767
5315	C5H10Br2	1,1-dibromo-2,2-dimethylpropane	2443-91-6	0.53043	0.25832	665.55	0.28571	287.15	665.55	1,2	298.15	1.6622
5316	C5H10Br2	1,3-dibromo-2,2-dimethylpropane	5434-27-5	0.54424	0.26424	686.65	0.28571	252.63	686.65	1,2	298.15	1.6865
5317	C5H10Br2	1,3-dibromo-2-ethylpropane	---	0.53662	0.25625	661.07	0.28571	267.63	661.07	1,2	298.15	1.6900
5330	C5H10Cl2	1,1-dichloropentane	820-55-3	0.34611	0.26136	610.24	0.28571	190.45	610.24	1,2	298.15	1.0480
5331	C5H10Cl2	1,2-dichloropentane	1674-33-5	0.34611	0.25548	620.88	0.28571	190.45	620.88	1,2	298.15	1.0735
5332	C5H10Cl2	1,3-dichloropentane	30122-12-4	0.34611	0.25550	632.70	0.28571	190.45	632.70	1,2	298.15	1.0794
5333	C5H10Cl2	1,4-dichloropentane	626-92-6	0.34611	0.25965	643.04	0.28571	190.45	643.04	1,2	298.15	1.0699
5334	C5H10Cl2	1,5-dichloropentane	628-76-2	0.33420	0.24446	663.00	0.28571	200.35	663.00	1,2	298.15	1.0960
5335	C5H10Cl2	2,2-dichloropentane	34887-14-4	0.35041	0.26756	601.15	0.28571	207.87	601.15	1,2	298.15	1.0360
5336	C5H10Cl2	2,3-dichloropentane	600-11-3	0.35128	0.25865	614.06	0.28571	195.85	614.06	1,2	298.15	1.0749
5337	C5H10Cl2	2,4-dichloropentane	625-67-2	0.35128	0.26618	628.96	0.28571	175.45	628.96	1,2	298.15	1.0570
5338	C5H10Cl2	3,3-dichloropentane	21571-91-5	0.35041	0.26475	608.66	0.28571	207.87	608.66	1,2	298.15	1.0490
5339	C5H10Cl2	1,1-dichloro-2-methylbutane	23010-05-1	0.35128	0.26316	595.96	0.28571	175.45	595.96	1,2	298.15	1.0500
5340	C5H10Cl2	1,1-dichloro-3-methylbutane	625-66-1	0.35128	0.26591	600.06	0.28571	175.45	600.06	1,2	298.15	1.0433
5341	C5H10Cl2	1,2-dichloro-2-methylbutane	23010-04-0	0.35041	0.25959	615.95	0.28571	207.87	615.95	1,2	298.15	1.0700
5342	C5H10Cl2	1,2-dichloro-3-methylbutane	600-10-2	0.35128	0.25808	620.02	0.28571	175.45	620.02	1,2	298.15	1.0800
5343	C5H10Cl2	1,3-dichloro-2-methylbutane	23010-07-3	0.35128	0.25563	622.78	0.28571	175.45	622.78	1,2	298.15	1.0900
5344	C5H10Cl2	1,3-dichloro-3-methylbutane	624-96-4	0.35041	0.26084	627.97	0.28571	207.87	627.97	1,2	298.15	1.0718
5345	C5H10Cl2	1,4-dichloro-2-methylbutane	623-34-7	0.34611	0.24761	617.70	0.28571	190.45	617.70	1,2	298.15	1.1000
5346	C5H10Cl2	2,2-dichloro-3-methylbutane	17773-66-9	0.35571	0.26105	633.42	0.28571	192.87	633.42	1,2	298.15	1.0900
5347	C5H10Cl2	2,3-dichloro-2-methylbutane	507-45-9	0.35571	0.26105	633.42	0.28571	192.87	633.42	1,2	298.15	1.0900
5348	C5H10Cl2	1,3-dichloro-2-ethylpropane	---	0.34611	0.25035	617.70	0.28571	190.45	617.70	1,2	298.15	1.0900
5349	C5H10Cl2	1,1-dichloro-2,2-dimethylpropane	29559-54-4	0.35571	0.26105	633.42	0.28571	192.87	633.42	1,2	298.15	1.0900
5350	C5H10Cl2	1,3-dichloro-2,2-dimethylpropane	29559-55-5	0.35041	0.25760	629.69	0.28571	207.87	629.69	1,2	298.15	1.0839
5351	C5H10Cl2	dichloropentane	30586-10-8	0.34942	0.25880	622.42	0.28571	192.10	622.42	2	298.15	1.0730
5358	C5H10F2	1,1-difluoropentane	62127-40-6	0.31525	0.25270	498.40	0.28571	194.91	498.40	1,2	298.15	0.9100
5359	C5H10F2	1,2-difluoropentane	62126-94-7	0.31297	0.25112	513.80	0.28571	194.91	513.80	1,2	298.15	0.9200
5360	C5H10F2	1,3-difluoropentane	62126-95-8	0.31297	0.24958	521.18	0.28571	194.91	521.18	1,2	298.15	0.9300
5361	C5H10F2	1,4-difluoropentane	62126-96-9	0.31297	0.24508	530.03	0.28571	194.91	530.03	1,2	298.15	0.9500
5362	C5H10F2	1,5-difluoropentane	373-17-1	0.30763	0.24289	554.40	0.28571	209.91	554.40	1,2	298.15	0.9572
5363	C5H10F2	2,2-difluoropentane	371-65-3	0.31757	0.26374	499.35	0.28571	175.05	499.35	1,2	298.15	0.8877
5364	C5H10F2	2,3-difluoropentane	66688-46-8	0.31850	0.24672	491.00	0.28571	179.91	491.00	1,2	298.15	0.9300
5365	C5H10F2	2,4-difluoropentane	66688-47-9	0.31850	0.24672	491.00	0.28571	179.91	491.00	1,2	298.15	0.9300
5366	C5H10F2	3,3-difluoropentane	358-03-2	0.31757	0.26054	500.25	0.28571	179.15	500.25	1,2	298.15	0.8968
5367	C5H10F2	1,1-difluoro-2-methylbutane	66688-67-3	0.31850	0.24792	463.41	0.28571	179.91	463.41	1,2	298.15	0.9000
5368	C5H10F2	1,1-difluoro-3-methylbutane	53731-22-9	0.31850	0.24792	463.41	0.28571	179.91	463.41	1,2	298.15	0.9000
5369	C5H10F2	1,2-difluoro-2-methylbutane	66688-68-4	0.31757	0.24707	463.73	0.28571	212.33	463.73	1,2	298.15	0.9000
5370	C5H10F2	1,2-difluoro-3-methylbutane	66688-69-5	0.31850	0.24792	463.41	0.28571	179.91	463.41	1,2	298.15	0.9000
5371	C5H10F2	1,3-difluoro-2-methylbutane	66688-43-5	0.31850	0.24792	463.41	0.28571	179.91	463.41	1,2	298.15	0.9000
5372	C5H10F2	1,3-difluoro-3-methylbutane	66688-44-6	0.31757	0.24707	463.73	0.28571	212.33	463.73	1,2	298.15	0.9000
5373	C5H10F2	1,4-difluoro-2-methylbutane	66688-45-7	0.31297	0.24096	460.30	0.28571	194.91	460.30	1,2	298.15	0.9000
5374	C5H10F2	2,2-difluoro-3-methylbutane	51891-58-8	0.32326	0.25431	467.07	0.28571	197.33	467.07	1,2	298.15	0.9000
5375	C5H10F2	2,3-difluoro-2-methylbutane	53731-25-2	0.32326	0.25431	467.07	0.28571	197.33	467.07	1,2	298.15	0.9000
5376	C5H10F2	1,3-difluoro-2-ethylpropane	---	0.31297	0.24096	460.30	0.28571	194.91	460.30	1,2	298.15	0.9000
5377	C5H10F2	1,1-difluoro-2,2-dimethylpropane	53731-23-0	0.32326	0.25431	467.07	0.28571	197.33	467.07	1,2	298.15	0.9000
5378	C5H10F2	1,3-difluoro-2,2-dimethylpropane	66688-66-2	0.31757	0.24707	463.73	0.28571	212.33	463.73	1,2	298.15	0.9000
5380	C5H10I2	1,1-diiodopentane	66688-35-5	0.66724	0.26439	744.50	0.28571	246.73	744.50	1,2	298.15	2.1060
5381	C5H10I2	1,2-diiodopentane	998-76-5	0.66724	0.26381	744.50	0.28571	246.73	744.50	1,2	298.15	2.1100
5382	C5H10I2	1,3-diiodopentane	66688-36-6	0.66724	0.26237	744.50	0.28571	246.73	744.50	1,2	298.15	2.1200
5383	C5H10I2	1,4-diiodopentane	55930-45-5	0.66724	0.26095	744.50	0.28571	246.73	744.50	1,2	298.15	2.1300
5384	C5H10I2	1,5-diiodopentane	628-77-3	0.65909	0.25076	739.07	0.28571	282.15	739.07	1,2	298.15	2.1740
5385	C5H10I2	2,2-diiodopentane	66688-37-7	0.67418	0.26922	752.99	0.28571	264.15	752.99	1,2	298.15	2.1000
5386	C5H10I2	2,3-diiodopentane	66688-38-8	0.67559	0.26524	750.13	0.28571	231.73	750.13	1,2	298.15	2.1300
5387	C5H10I2	2,4-diiodopentane	66719-29-7	0.67559	0.26814	750.13	0.28571	231.73	750.13	1,2	298.15	2.1100
5388	C5H10I2	3,3-diiodopentane	66688-39-9	0.67418	0.26922	752.99	0.28571	264.15	752.99	1,2	298.15	2.1000
5389	C5H10I2	1,1-diiodo-2-methylbutane	66688-50-4	0.67559	0.26814	750.13	0.28571	231.73	750.13	1,2	298.15	2.1100
5390	C5H10I2	1,1-diiodo-3-methylbutane	66688-51-5	0.67559	0.26814	750.13	0.28571	231.73	750.13	1,2	298.15	2.1100
5391	C5H10I2	1,2-diiodo-2-methylbutane	66688-52-6	0.67418	0.26485	752.99	0.28571	264.15	752.99	1,2	298.15	2.1300
5392	C5H10I2	1,2-diiodo-3-methylbutane	66688-53-7	0.67559	0.26524	750.13	0.28571	231.73	750.13	1,2	298.15	2.1300
5393	C5H10I2	1,3-diiodo-2-methylbutane	66688-54-8	0.67559	0.26524	750.13	0.28571	231.73	750.13	1,2	298.15	2.1300
5394	C5H10I2	1,3-diiodo-3-methylbutane	66688-55-9	0.67418	0.26485	752.99	0.28571	264.15	752.99	1,2	298.15	2.1300
5395	C5H10I2	1,4-diiodo-2-methylbutane	66688-32-2	0.66724	0.26095	744.50	0.28571	246.73	744.50	1,2	298.15	2.1300
5396	C5H10I2	2,2-diiodo-3-methylbutane	66688-33-3	0.68270	0.26780	759.04	0.28571	249.15	759.04	1,2	298.15	2.1400
5397	C5H10I2	2,3-diiodo-2-methylbutane	66688-34-4	0.68270	0.26780	759.04	0.28571	249.15	759.04	1,2	298.15	2.1400
5398	C5H10I2	1,3-diiodo-2-ethylpropane	---	0.66724	0.25676	744.50	0.28571	246.73	744.50	1,2	298.15	2.1600
5399	C5H10I2	1,1-diiodo-2,2-dimethylpropane	2443-89-2	0.68270	0.26494	759.04	0.28571	249.15	759.04	1,2	298.15	2.1600
5400	C5H10I2	1,3-diiodo-2,2-dimethylpropane	66688-49-1	0.67418	0.26061	752.99	0.28571	264.15	752.99	1,2	298.15	2.1600
5445	C5H10O	pentanal	110-62-3	0.27260	0.27035	554.00	0.24456	182.00	554.00	1,2	298.15	0.8050
5446	C5H10O	2-methylbutanal	96-17-3	0.26381	0.24930	543.73	0.28571	172.61	543.73	1,2	298.15	0.7980
5447	C5H10O	3-methylbutanal	590-86-3	0.26381	0.25112	544.62	0.28571	168.15	544.62	1,2	298.15	0.7939
5448	C5H10O	2,2-dimethylpropanal	630-19-3	0.26791	0.25607	525.74	0.28571	267.15	525.74	1,2	298.15	0.7830
5449	C5H10O	2-methylbutanal, (±)	57456-98-1	0.26703	0.25283	542.02	0.28571	197.48	542.02	1,2	298.15	0.7978
5450	C5H10O	methyl propyl ketone	107-87-9	0.28620	0.26667	561.08	0.32850	196.29	561.08	1,2	298.15	0.8020
5451	C5H10O	diethyl ketone	96-22-0	0.25640	0.24280	560.95	0.27364	234.18	560.95	1,2	298.15	0.8100
5452	C5H10O	methyl isopropyl ketone	563-80-4	0.27790	0.26526	553.00	0.28570	181.15	553.00	1,2	298.15	0.8050
5453	C5H10O	2-methyltetrahydrofuran	96-47-9	0.32260	0.29142	537.00	0.28571	136.15	537.00	1,2	298.15	0.8580
5454	C5H10O	3-methyltetrahydrofuran	13423-15-9	0.31039	0.29515	639.01	0.28571	159.55	639.01	1,2	298.15	0.8605

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
5455	C5H10O	allyl ethyl ether	557-31-3	0.27470	0.26920	505.58	0.28571	133.15	505.58	1,2	298.15	0.7598
5456	C5H10O	isopropyl vinyl ether	926-65-8	0.27470	0.27457	505.58	0.28571	133.15	505.58	1,2	298.15	0.7483
5457	C5H10O	3-methoxy-2-methyl-1-propene	22418-49-1	0.27470	0.26384	505.58	0.28571	133.15	505.58	1,2	298.15	0.7717
5458	C5H10O	propyl vinyl ether	764-47-6	0.27470	0.26817	505.58	0.28571	133.15	505.58	1,2	298.15	0.7621
5461	C5H10O	2-methyl-3-buten-2-ol	115-18-4	0.33339	0.33139	573.00	0.28571	245.15	573.00	1,2	298.15	0.8162
5462	C5H10O	3-methyl-2-buten-1-ol	556-82-1	0.33339	0.31613	573.00	0.28571	245.15	573.00	1,2	298.15	0.8480
5463	C5H10O	3-methyl-3-buten-2-ol	10473-14-0	0.33339	0.31679	573.00	0.28571	245.15	573.00	1,2	298.15	0.8466
5464	C5H10O	1-penten-3-ol	616-25-1	0.33339	0.32220	573.00	0.28571	245.15	573.00	1,2	298.15	0.8350
5465	C5H10O	3-penten-2-ol, (±)	42569-16-4	0.33339	0.32327	573.00	0.28571	245.15	573.00	1,2	298.15	0.8328
5466	C5H10O	4-penten-1-ol	821-09-0	0.33339	0.31907	573.00	0.28571	245.15	573.00	1,2	298.15	0.8417
5467	C5H10O	4-penten-2-ol	625-31-0	0.33339	0.32329	573.00	0.28571	245.15	573.00	1,2	298.15	0.8328
5468	C5H10O	cis-2-penten-1-ol	1576-95-0	0.33339	0.31577	573.00	0.28571	245.15	573.00	1,2	298.15	0.8488
5469	C5H10O	trans-2-penten-1-ol	1576-96-1	0.33339	0.31842	573.00	0.28571	245.15	573.00	1,2	298.15	0.8431
5476	C5H10O	ethyl propenyl ether	928-55-2	0.27470	0.25811	505.58	0.28571	133.15	505.58	1,2	298.15	0.7850
5477	C5H10O	2-methyl-3-buten-1-ol	4516-90-9	0.33339	0.32222	573.00	0.28571	245.15	573.00	1,2	298.15	0.8350
5478	C5H10O	3-methyl-3-buten-1-ol	763-32-6	0.33339	0.31385	573.00	0.28571	245.15	573.00	1,2	298.15	0.8530
5481	C5H10O	3-penten-2-ol	3899-34-1	0.33339	0.31845	573.00	0.28571	245.15	573.00	1,2	298.15	0.8430
5482	C5H10O	pent-3-en-2-ol	1569-50-2	0.33339	0.31845	573.00	0.28571	245.15	573.00	1,2	298.15	0.8430
5492	C5H10O2	pentanoic acid	109-52-4	0.30400	0.26351	651.00	0.28151	239.15	651.00	1,2	298.15	0.9340
5493	C5H10O2	2-methylbutyric acid	116-53-0	0.29430	0.25225	643.00	0.28571	218.15	643.00	1,2	298.15	0.9320
5494	C5H10O2	3-methylbutanoic acid	503-74-2	0.30400	0.26556	634.00	0.27430	243.85	634.00	1,2	298.15	0.9260
5495	C5H10O2	2,2-dimethylpropanoic acid	75-98-9	0.31091	0.26958	632.16	0.28571	308.82	632.16	1,2	436.95	0.7936
5496	C5H10O2	2-methylbutanoic acid	600-07-7	0.30330	0.26188	640.04	0.28571	252.49	640.04	1,2	298.15	0.9297
5497	C5H10O2	butyl formate	592-84-7	0.30400	0.26606	559.00	0.27850	181.25	559.00	1,2	298.15	0.8870
5498	C5H10O2	isobutyl formate	542-55-2	0.29020	0.25669	551.35	0.26830	177.35	551.35	1,2	298.15	0.8750
5499	C5H10O2	sec-butyl formate	589-40-2	0.30763	0.26867	547.00	0.28571	189.31	547.00	1,2	298.15	0.8786
5500	C5H10O2	tert-butyl formate	762-75-4	0.30217	0.26207	533.00	0.28571	206.73	533.00	1,2	298.15	0.8718
5501	C5H10O2	propyl acetate	109-60-4	0.29600	0.25696	549.40	0.27830	178.15	549.40	1,2	298.15	0.8830
5502	C5H10O2	isopropyl acetate	108-21-4	0.30400	0.26548	538.00	0.28600	199.75	538.00	1,2	298.15	0.8710
5503	C5H10O2	ethyl propanoate	105-37-3	0.29600	0.25151	546.00	0.29420	199.25	546.00	1,2	298.15	0.8840
5504	C5H10O2	methyl butanoate	623-42-7	0.30040	0.25943	554.50	0.27720	187.35	554.50	1,2	298.15	0.8930
5505	C5H10O2	methyl isobutanoate	547-63-7	0.30040	0.25993	554.50	0.28571	188.45	554.50	1,2	298.15	0.8853
5506	C5H10O2	tetrahydrofurfuryl alcohol	97-99-4	0.35220	0.28291	639.00	0.23330	230.00	639.00	1,2	298.15	1.0480
5530	C5H10O2	(S)-(+)-2-methylbutyric acid	1730-91-2	0.30330	0.26043	640.04	0.28571	252.49	640.04	1,2	298.15	0.9340
5537	C5H10O2S	3-methyl sulfolane	872-93-5	0.38020	0.26870	817.00	0.31440	273.65	817.00	1,2	298.15	1.1880
5543	C5H10O3	diethyl carbonate	105-58-8	0.33180	0.26682	576.00	0.28570	230.15	576.00	1,2	298.15	0.9700
5544	C5H10O3	ethyl lactate	97-64-3	0.33370	0.21197	588.00	0.45530	247.15	588.00	1,2	298.15	1.0270
5593	C5H10S	thiacyclohexane	1613-51-0	0.34580	0.28958	657.12	0.28571	292.14	657.12	1,2	298.15	0.9810
5594	C5H10S	2,2,3-trimethylthiacyclopropane	53971-47-4	0.32393	0.27903	569.72	0.28571	266.66	569.72	1,2	298.15	0.9100
5595	C5H10S	2-methylthiacyclopentane	1795-09-1	0.33785	0.28976	637.00	0.28571	172.44	637.00	1,2	298.15	0.9504
5596	C5H10S	3-methylthiacyclopentane	4740-00-5	0.33785	0.28811	646.20	0.28571	191.99	646.20	1,2	298.15	0.9585
5597	C5H10S	cyclopentanethiol	1679-07-8	0.32910	0.27595	629.00	0.28571	155.39	629.00	1,2	298.15	0.9610
5603	C5H11Br	1-bromopentane	110-53-2	0.40010	0.25324	564.76	0.28571	185.26	564.76	1,2	298.15	1.2120
5604	C5H11Br	2-bromopentane	107-81-3	0.40659	0.26509	585.36	0.28571	177.65	585.36	1,2	298.15	1.2012
5605	C5H11Br	3-bromopentane	1809-10-5	0.40659	0.26407	587.16	0.28571	146.95	587.16	1,2	298.15	1.2062
5606	C5H11Br	1-bromo-2-methylbutane	10422-35-2	0.40659	0.26249	590.01	0.28571	190.41	590.01	1,2	298.15	1.2140
5607	C5H11Br	1-bromo-3-methylbutane	107-82-4	0.40659	0.26605	589.86	0.28571	161.15	589.86	1,2	298.15	1.2006
5608	C5H11Br	2-bromo-2-methylbutane	507-36-8	0.41213	0.26652	581.23	0.28571	207.83	581.23	1,2	298.15	1.2095
5609	C5H11Br	2-bromo-3-methylbutane	18295-25-5	0.41326	0.26685	587.23	0.28571	175.41	587.23	1,2	298.15	1.2156
5610	C5H11Br	1-bromo-2,2-dimethylpropane	630-17-1	0.41213	0.27038	578.18	0.28571	207.83	578.18	1,2	298.15	1.1934
5611	C5H11Br	1-bromo-2-methylbutane, (S)	534-00-9	0.40800	0.26163	582.97	0.28571	181.56	582.97	1,2	298.15	1.2168
5620	C5H11Cl	1-chloropentane	543-59-9	0.30280	0.26938	568.00	0.28040	174.15	568.00	1,2	298.15	0.8780
5621	C5H11Cl	2-chloropentane	625-29-6	0.29734	0.26410	555.88	0.28571	136.15	555.88	1,2	298.15	0.8659
5622	C5H11Cl	3-chloropentane	616-20-6	0.29734	0.25727	557.79	0.28571	168.15	557.79	1,2	298.15	0.8854
5623	C5H11Cl	1-chloro-2-methylbutane	616-13-7	0.29734	0.26078	561.92	0.28571	160.53	561.92	1,2	298.15	0.8781
5624	C5H11Cl	1-chloro-3-methylbutane	107-84-6	0.29730	0.26503	558.87	0.28571	168.76	558.87	1,2	298.15	0.8650
5625	C5H11Cl	2-chloro-2-methylbutane	594-36-5	0.30150	0.26953	548.97	0.28571	199.66	548.97	1,2	298.15	0.8600
5626	C5H11Cl	2-chloro-3-methylbutane	631-65-2	0.30240	0.27304	555.08	0.28571	145.53	555.08	1,2	298.15	0.8570
5627	C5H11Cl	1-chloro-2,2-dimethylpropane	753-89-9	0.30154	0.26879	546.97	0.28571	253.15	546.97	1,2	298.15	0.8609
5628	C5H11Cl	1-chloro-2-methylbutane, (±)	114180-21-1	0.29969	0.26501	556.69	0.28571	171.36	556.69	1,2	298.15	0.8708
5629	C5H11Cl	2-chloropentane, (+)	29882-57-3	0.29969	0.26732	556.69	0.28571	136.15	556.69	1,2	298.15	0.8648
5649	C5H11F	1-fluoropentane	592-50-7	0.27069	0.25064	496.70	0.28571	153.15	496.70	1,2	298.15	0.7851
5650	C5H11F	2-fluoropentane	590-87-4	0.27524	0.26029	493.55	0.28571	162.76	493.55	1,2	298.15	0.7732
5651	C5H11F	3-fluoropentane	41909-29-9	0.27524	0.26062	490.09	0.28571	162.76	490.09	1,2	298.15	0.7700
5652	C5H11F	1-fluoro-2-methylbutane	10086-64-3	0.27524	0.25548	494.45	0.28571	162.76	494.45	1,2	298.15	0.7850
5653	C5H11F	1-fluoro-3-methylbutane	407-06-7	0.27524	0.25590	490.84	0.28571	162.76	490.84	1,2	298.15	0.7814
5654	C5H11F	2-fluoro-2-methylbutane	661-53-0	0.27951	0.26330	486.17	0.28571	152.15	486.17	1,2	298.15	0.7730
5655	C5H11F	2-fluoro-3-methylbutane	62108-95-6	0.28038	0.26592	486.77	0.28571	147.76	486.77	1,2	298.15	0.7700
5656	C5H11F	1-fluoro-2,2-dimethylpropane	59006-05-2	0.27951	0.26217	478.83	0.28571	180.18	478.83	1,2	298.15	0.7700
5660	C5H11I	1-iodopentane	628-17-1	0.59207	0.32060	601.41	0.28571	187.55	601.41	1,2	298.15	1.5088
5661	C5H11I	2-iodopentane	637-97-8	0.60288	0.32664	585.69	0.28571	188.67	585.69	1,2	298.15	1.5024
5662	C5H11I	3-iodopentane	1809-05-8	0.60288	0.32654	588.50	0.28571	188.67	588.50	1,2	298.15	1.5047
5663	C5H11I	1-iodo-2-methylbutane	29394-58-9	0.60288	0.32440	589.91	0.28571	188.67	589.91	1,2	298.15	1.5138
5664	C5H11I	1-iodo-3-methylbutane	541-28-6	0.60288	0.32979	593.01	0.28571	188.67	593.01	1,2	298.15	1.4956
5665	C5H11I	2-iodo-2-methylbutane	594-38-7	0.61220	0.33487	573.79	0.28571	206.09	573.79	1,2	298.15	1.4867
5666	C5H11I	2-iodo-3-methylbutane	18295-27-7	0.61410	0.33746	585.43	0.28571	173.67	585.43	1,2	298.15	1.4900
5667	C5H11I	1-iodo-2,2-dimethylpropane	15501-33-4	0.61220	0.33617	580.92	0.28571	206.09	580.92	1,2	298.15	1.4870
5668	C5H11I	2-iodopentane, (±)	52152-72-4	0.60526	0.32839	587.33	0.28571	191.01	587.33	1,2	298.15	1.5029
5669	C5H11N	N-methylpyrrolidine	120-94-5	0.28570	0.27342	550.00	0.28600	183.15	550.00	1,2	298.15	0.8060
5670	C5H11N	piperidine	110-89-4	0.27650	0.25457	594.05	0.27140	262.65	594.05	1,2	298.15	0.8580

Table 3 Density of Liquid - Organic Compounds

			density = A B^-(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
5673	C5H11N	2-methylpyrrolidine	765-38-8	0.28570	0.26207	550.00	0.28571	176.78	550.00	1,2	298.15	0.8340
5674	C5H11N	3-methylpyrrolidine	34375-89-8	0.28570	0.26743	550.00	0.28571	170.40	550.00	2	298.15	0.8206
5675	C5H11NO	tert-butylformamide	2425-74-3	0.26410	0.23717	692.00	0.28571	289.15	692.00	1,2	298.15	0.8990
5676	C5H11NO	N,N-diethylformamide	617-84-5	0.26410	0.23588	692.00	0.28571	289.15	692.00	1,2	298.15	0.9032
5696	C5H11NO2	1-nitropentane	628-05-7	0.29471	0.24697	641.43	0.28571	289.22	641.43	1,2	298.15	0.9493
5697	C5H11NO2	2-nitropentane	4609-89-6	0.29961	0.25113	611.00	0.28571	274.22	611.00	1,2	298.15	0.9380
5698	C5H11NO2	3-nitropentane	551-88-2	0.29961	0.25080	611.00	0.28571	274.22	611.00	1,2	298.15	0.9390
5699	C5H11NO2	1-nitro-2-methylbutane	3457-57-6	0.29961	0.25272	628.00	0.28571	274.22	628.00	1,2	298.15	0.9409
5700	C5H11NO2	1-nitro-3-methylbutane	627-67-8	0.30271	0.25455	630.00	0.28571	370.15	630.00	1,2	436.75	0.8035
5701	C5H11NO2	2-nitro-2-methylbutane	595-42-6	0.30193	0.25118	615.00	0.28571	235.15	615.00	1,2	298.15	0.9470
5702	C5H11NO2	2-nitro-3-methylbutane	2625-35-6	0.30428	0.25469	614.00	0.28571	259.22	614.00	1,2	298.15	0.9430
5703	C5H11NO2	1-nitro-2,2-dimethylpropane	34715-98-5	0.29885	0.24866	614.00	0.28571	287.15	614.00	1,2	298.15	0.9447
5772	C5H12	pentane	109-66-0	0.23100	0.26874	469.65	0.28215	143.42	469.65	1,2	298.15	0.6210
5773	C5H12	isopentane	78-78-4	0.23590	0.27407	460.43	0.28673	113.25	460.43	1,2	298.15	0.6160
5774	C5H12	neopentane	463-82-1	0.23770	0.28168	433.78	0.29195	256.58	433.78	1,2	298.15	0.5860
5831	C5H12O	1-pentanol	71-41-0	0.27040	0.26876	586.15	0.25060	195.56	586.15	1,2	298.15	0.8120
5832	C5H12O	2-pentanol	6032-29-7	0.26960	0.25520	552.00	0.28570	200.00	552.00	1,2	298.15	0.8050
5833	C5H12O	3-pentanol	584-02-1	0.26960	0.24907	547.00	0.28570	204.15	547.00	1,2	298.15	0.8180
5834	C5H12O	2-methyl-1-butanol	137-32-6	0.26960	0.26840	565.00	0.23220	191.43	565.00	1,2	298.15	0.8140
5835	C5H12O	2-methyl-1-butanol, (±)	34713-94-5	0.26970	0.25345	562.34	0.28571	212.34	562.34	1,2	298.15	0.8152
5836	C5H12O	3-methyl-2-butanol, (±)	70116-68-6	0.26970	0.25424	562.34	0.28571	212.34	562.34	1,2	298.15	0.8132
5837	C5H12O	3-methyl-1-butanol	123-51-3	0.26960	0.25784	579.45	0.28570	155.95	579.45	1,2	298.15	0.8120
5838	C5H12O	tert-pentyl-alcohol	75-85-4	0.26960	0.25952	545.15	0.26470	264.35	545.15	1,2	298.15	0.8050
5839	C5H12O	3-methyl-2-butanol	598-75-4	0.26960	0.25606	574.00	0.28570	176.43	574.00	1,2	298.15	0.8140
5840	C5H12O	2,2-dimethyl-1-propanol	75-84-3	0.26960	0.25398	550.00	0.28571	327.15	550.00	1,2	386.25	0.7108
5841	C5H12O	methyl butyl ether	628-28-4	0.26631	0.26690	502.00	0.28571	158.15	502.00	1,2	298.15	0.7393
5842	C5H12O	methyl isobutyl ether	625-44-5	0.26790	0.27434	497.00	0.28570	152.84	497.00	1,2	298.15	0.7250
5843	C5H12O	methyl sec-butyl ether	6795-87-5	0.26790	0.26886	498.00	0.28570	152.84	498.00	1,2	298.15	0.7370
5844	C5H12O	methyl tert-butyl ether	1634-04-4	0.26790	0.27044	497.10	0.28290	164.55	497.10	1,2	298.15	0.7350
5845	C5H12O	ethyl propyl ether	628-32-0	0.26000	0.26331	500.23	0.29200	145.65	500.23	1,2	298.15	0.7240
5846	C5H12O	ethyl isopropyl ether	625-54-7	0.26916	0.27849	489.58	0.28571	152.84	489.58	1,2	298.15	0.7154
5847	C5H12O	sec-butyl methyl ether	116783-23-4	0.26653	0.26725	497.32	0.28571	154.48	497.32	1,2	298.15	0.7362
5848	C5H12O	sec-butyl methyl ether (d)	66610-39-7	0.26653	0.26546	497.32	0.28571	154.48	497.32	1,2	298.15	0.7400
5849	C5H12O	(S)-(-)-2-methyl-1-butanol	1565-80-6	0.26970	0.25508	562.34	0.28571	203.25	562.34	1,2	298.15	0.8110
5850	C5H12O	(S)-(+)-2-pentanol	26184-62-3	0.26970	0.25508	562.34	0.28571	223.25	562.34	1,2	298.15	0.8110
5851	C5H12O	pentanol	30899-19-5	0.26970	0.26721	562.34	0.28571	194.25	562.34	2	298.15	0.7812
5852	C5H12O	(R)-(-)-2-pentanol	31087-44-2	0.26970	0.25391	562.34	0.28571	212.34	562.34	1,2	298.15	0.8140
5853	C5H12O	(S)-3-methyl-2-butanol	1517-66-4	0.26970	0.26721	562.34	0.28571	212.34	562.34	2	298.15	0.7812
5857	C5H12O2	ethylene glycol monopropyl ether	2807-30-9	0.29752	0.25484	582.00	0.28570	183.15	582.00	1,2	298.15	0.9060
5858	C5H12O2	neopentyl glycol	126-30-7	0.30190	0.26206	643.00	0.28571	400.00	643.00	2	483.00	0.7426
5859	C5H12O2	1,2-pentanediol	5343-92-0	0.29971	0.24562	637.98	0.28571	252.25	637.98	1,2	298.15	0.9683
5860	C5H12O2	1,2-pentanediol, (±)	91049-43-3	0.30384	0.24926	633.16	0.28571	273.25	633.16	1,2	298.15	0.9675
5861	C5H12O2	1,3-pentanediol	3174-67-2	0.29971	0.24370	653.86	0.28571	252.25	653.86	1,2	298.15	0.9816
5862	C5H12O2	1,4-pentanediol	626-95-9	0.29971	0.24358	657.63	0.28571	252.25	657.63	1,2	298.15	0.9837
5863	C5H12O2	1,5-pentanediol	111-29-5	0.30190	0.24451	673.00	0.28570	257.15	673.00	1,2	298.15	0.9940
5864	C5H12O2	2,3-pentanediol	42027-23-6	0.30384	0.24727	633.16	0.28571	273.25	633.16	1,2	298.15	0.9740
5865	C5H12O2	2,4-pentanediol	625-69-4	0.30384	0.25198	633.16	0.28571	273.25	633.16	1,2	298.15	0.9588
5866	C5H12O2	DL-erythro-2,3-pentanediol	61828-35-1	0.30498	0.26369	631.58	0.28571	237.25	631.58	2	298.15	0.9260
5867	C5H12O2	DL-threo-2,3-pentanediol	61828-36-2	0.30498	0.26369	631.58	0.28571	237.25	631.58	2	298.15	0.9260
5868	C5H12O2	DL-2,4-pentanediol	1825-14-5	0.30498	0.26353	630.45	0.28571	322.15	630.45	2	474.15	0.7466
5869	C5H12O2	meso-2,4-pentanediol	3950-21-8	0.30498	0.26353	630.45	0.28571	322.15	630.45	2	474.15	0.7466
5870	C5H12O2	2-methyl-1,2-butanediol	41051-72-3	0.30409	0.26075	617.54	0.28571	269.67	617.54	2	298.15	0.9258
5871	C5H12O2	2-methyl-1,3-butanediol	684-84-4	0.30498	0.24217	615.15	0.28571	237.25	615.15	1,2	298.15	0.9860
5872	C5H12O2	2-methyl-1,4-butanediol	2938-98-9	0.30498	0.26141	615.82	0.28571	237.25	615.82	2	298.15	0.9258
5873	C5H12O2	2-methyl-2,3-butanediol	5396-58-7	0.30951	0.24947	600.61	0.28571	254.67	600.61	1,2	298.15	0.9690
5874	C5H12O2	3-methyl-1,2-butanediol	50468-22-9	0.30498	0.24047	629.12	0.28571	237.25	629.12	1,2	298.15	0.9987
5875	C5H12O2	3-methyl-1,3-butanediol	2568-33-4	0.31801	0.27222	632.01	0.28571	271.04	632.01	1,2	298.15	0.9404
5876	C5H12O2	2-ethyl-1,3-propanediol	2612-29-5	0.29214	0.25035	630.78	0.28571	235.88	630.78	2	298.15	0.9259
5881	C5H12O2	1-ethoxy-2-propanol	1569-02-4	0.29752	0.25769	582.00	0.28571	308.40	582.00	1,2	404.15	0.7820
5882	C5H12O2	2-ethoxy-1-propanol	19089-47-5	0.29752	0.25713	582.00	0.28571	308.40	582.00	1,2	413.65	0.7715
5883	C5H12O2	2-isopropoxyethanol	109-59-1	0.29752	0.25762	582.00	0.28571	308.40	582.00	1,2	418.15	0.7649
5884	C5H12O2	3-methoxy-1-butanol	2517-43-3	0.29752	0.24978	582.00	0.28571	308.40	582.00	1,2	430.15	0.7654
5886	C5H12O2	3-ethoxy-1-propanol	111-35-3	0.29752	0.25553	582.00	0.28571	433.65	582.00	1,2	420.00	0.7668
5887	C5H12O2	1-methoxy-2-butanol	53778-73-7	0.29752	0.25484	582.00	0.28571	308.40	582.00	1,2	407.15	0.7845
5888	C5H12O2	(R,R)-(-)-2,4-pentanediol	42075-32-1	0.30384	0.26274	633.16	0.28571	323.15	633.16	2	444.01	0.7828
5889	C5H12O2	(2S,4S)-(+)-pentanediol	72345-23-4	0.30384	0.26274	633.16	0.28571	319.65	633.16	2	444.01	0.7828
5890	C5H12O2	ethyl ether of propylene glycol	52125-53-8	0.29752	0.24828	582.00	0.28571	308.40	582.00	2	444.01	0.7491
5899	C5H12O3	2-(2-methoxyethoxy)ethanol	111-77-3	0.32740	0.25634	630.00	0.28570	197.15	630.00	1,2	298.15	1.0170
5912	C5H12O4	pentaerythritol	115-77-5	0.35730	0.29024	780.00	0.29000	534.15	780.00	2	631.00	0.7682
5921	C5H12S	pentyl mercaptan	110-66-7	0.29030	0.27112	598.00	0.30131	197.45	598.00	1,2	298.15	0.8380
5922	C5H12S	2-pentanethiol	2084-19-7	0.28789	0.27294	580.00	0.28571	104.20	580.00	1,2	298.15	0.8281
5923	C5H12S	3-pentanethiol	616-31-9	0.27211	0.25153	580.00	0.28571	162.35	580.00	1,2	298.15	0.8365
5924	C5H12S	2-methyl-1-butanethiol	1878-18-8	0.28631	0.26760	591.00	0.28571	167.07	591.00	1,2	298.15	0.8419
5925	C5H12S	3-methyl-1-butanethiol	541-31-1	0.28631	0.27387	604.00	0.28571	139.64	604.00	1,2	298.15	0.8316
5926	C5H12S	2-methyl-2-butanethiol	1679-09-0	0.29070	0.27647	566.00	0.28571	169.38	566.00	1,2	298.15	0.8210
5927	C5H12S	3-methyl-2-butanethiol	2084-18-6	0.28789	0.26958	579.00	0.28571	149.33	579.00	1,2	298.15	0.8360
5928	C5H12S	2,2-dimethyl-1-propanethiol	1679-08-9	0.28243	0.26582	570.00	0.28571	206.15	570.00	1,2	298.15	0.8253
5929	C5H12S	2-methyl-1-butanethiol, (+)	20089-07-0	0.28549	0.26707	583.50	0.28571	161.95	583.50	1,2	298.15	0.8375
5930	C5H12S	methyl butyl sulfide	628-29-5	0.28200	0.26420	591.00	0.28571	175.33	591.00	1,2	298.15	0.8380
5931	C5H12S	ethyl propyl sulfide	4110-50-3	0.28200	0.26529	584.00	0.28571	156.15	584.00	1,2	298.15	0.8320

Table 3 Density of Liquid - Organic Compounds

			density = A B ^ -(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
5932	C5H12S	3-methyl-2-thiapentane	10359-64-5	0.28167	0.26705	585.00	0.28571	165.01	585.00	1,2	298.15	0.8270
5933	C5H12S	4-methyl-2-thiapentane	5008-69-5	0.28167	0.26614	585.00	0.28571	164.05	585.00	1,2	298.15	0.8293
5934	C5H12S	2-methyl-3-thiapentane	5145-99-3	0.28167	0.26989	585.00	0.28571	150.96	585.00	1,2	298.15	0.8199
5935	C5H12S	3,3-dimethyl-2-thiabutane	6163-64-0	0.28167	0.26964	585.00	0.28571	190.83	585.00	1,2	298.15	0.8205
5937	C5H12S2	1,3-bis(methylthio)propane	24949-35-7	0.32745	0.27074	657.50	0.28571	250.00	657.50	2	298.15	0.9832
5938	C5H12S2	1,1'-[methylenebis(thio)]bisethane	4396-19-4	0.32745	0.27074	657.50	0.28571	250.00	657.50	2	298.15	0.9832
5947	C5H13N	pentylamine	110-58-7	0.23880	0.24878	555.00	0.25190	218.15	555.00	1,2	298.15	0.7510
5948	C5H13N	1-methylbutylamine	625-30-9	0.25120	0.25763	534.90	0.28571	213.87	534.90	1,2	298.15	0.7356
5949	C5H13N	2-methylbutylamine	96-15-1	0.25562	0.25899	542.60	0.28571	213.87	542.60	1,2	298.15	0.7495
5950	C5H13N	3-methylbutylamine	107-85-7	0.25637	0.26234	544.90	0.28571	213.87	544.90	1,2	298.15	0.7452
5951	C5H13N	1,1-dimethylpropylamine	594-39-8	0.25562	0.26315	519.30	0.28571	168.15	519.30	1,2	298.15	0.7276
5952	C5H13N	1,2-dimethylpropylamine	598-74-3	0.25712	0.25581	527.40	0.28571	223.15	527.40	1,2	298.15	0.7530
5953	C5H13N	2,2-dimethylpropylamine	5813-64-9	0.25192	0.25751	517.10	0.28571	231.29	517.10	1,2	298.15	0.7281
5954	C5H13N	3-pentanamine	616-24-0	0.25218	0.25302	525.16	0.28571	211.76	525.16	1,2	298.15	0.7437
5955	C5H13N	methyl-butylamine	110-68-9	0.25265	0.26221	531.80	0.28571	198.15	531.80	1,2	298.15	0.7280
5956	C5H13N	methylisobutylamine	14610-37-8	0.25265	0.26168	515.20	0.28571	183.27	515.20	1,2	298.15	0.7200
5957	C5H13N	methyl-sec-butylamine	7713-69-1	0.25562	0.26686	519.90	0.28571	183.27	519.90	1,2	298.15	0.7200
5958	C5H13N	methyl-tert-butylamine	625-43-4	0.25192	0.25562	513.20	0.28571	200.69	513.20	1,2	298.15	0.7300
5959	C5H13N	ethylpropylamine	20193-20-8	0.25265	0.25990	520.00	0.28571	198.27	520.00	1,2	298.15	0.7266
5960	C5H13N	ethylisopropylamine	19961-27-4	0.25265	0.26131	513.80	0.28571	183.27	513.80	1,2	298.15	0.7200
5961	C5H13N	methyldiethylamine	616-39-7	0.24658	0.26011	507.56	0.28571	77.15	507.56	1,2	298.15	0.7016
5962	C5H13N	dimethyl-propylamine	926-63-6	0.25265	0.27686	528.00	0.28571	178.08	528.00	1,2	298.15	0.6955
5963	C5H13N	dimethylisopropylamine	996-35-6	0.25084	0.26279	511.91	0.28571	163.08	511.91	1,2	298.15	0.7106
5964	C5H13N	(S)-(-)-2-methylbutylamine	20626-52-2	0.25218	0.25288	525.16	0.28571	191.15	525.16	1,2	298.15	0.7440
5965	C5H13N	N,N-dimethyl-2-propanamine	996-35-0	0.25218	0.25930	525.16	0.28571	139.44	525.16	2	298.15	0.7295
5966	C5H13NO	2-amino-3-methyl-1-butanol, (±)	16369-05-4	0.28295	0.23902	626.41	0.28571	331.15	626.41	1,2	435.30	0.7843
5967	C5H13NO	2-amino-3-pentanol	116836-16-9	0.28295	0.23996	626.41	0.28571	331.15	626.41	1,2	444.15	0.7715
5968	C5H13NO	5-amino-1-pentanol	2508-29-4	0.28295	0.23568	626.41	0.28571	311.65	626.41	1,2	494.65	0.7141
5969	C5H13NO	1-(dimethylamino)-2-propanol	108-16-7	0.28295	0.27132	626.41	0.28571	331.15	626.41	1,2	397.65	0.7526
5970	C5H13NO	2-(dimethylamino)-1-propanol	15521-18-3	0.28295	0.25445	626.41	0.28571	331.15	626.41	1,2	423.45	0.7629
5971	C5H13NO	3-(dimethylamino)-1-propanol	3179-63-3	0.28295	0.25827	626.41	0.28571	331.15	626.41	1,2	436.65	0.7407
5973	C5H13NO	2-(isopropylamino)ethanol	109-56-8	0.28295	0.25114	626.41	0.28571	401.65	626.41	1,2	446.15	0.7449
5975	C5H13NO	2-(propylamino)ethanol	16369-21-4	0.28295	0.24997	626.41	0.28571	331.15	626.41	1,2	455.15	0.7369
5976	C5H13NO	(S)-(+)-2-amino-3-methyl-1-butanol	2026-48-4	0.28295	0.24027	626.41	0.28571	304.15	626.41	1,2	435.30	0.7814
5977	C5H13NO	(R)-(-)-2-amino-3-methyl-1-butanol	4276-09-9	0.28295	0.25120	626.41	0.28571	307.15	626.41	2	462.65	0.7255
5978	C5H13NO	2-amino-3-methyl-1-butanol	473-75-6	0.28295	0.23718	626.41	0.28571	331.15	626.41	1,2	435.30	0.7886
5979	C5H13NO	DL-2-amino-1-pentanol	4146-04-7	0.28295	0.24152	626.41	0.28571	331.15	626.41	1,2	467.65	0.7389
5980	C5H13NO	(S)-(+)-1-dimethylamino-2-propanol	53636-17-2	0.28295	0.27132	626.41	0.28571	331.15	626.41	1,2	397.15	0.7530
5986	C5H13NO2	methyl diethanolamine	105-59-9	0.29720	0.23096	678.00	0.28570	252.15	678.00	1,2	298.15	1.0290
5987	C5H13NO2	2-amino-2-ethyl-1,3-propanediol	115-70-8	0.29720	0.21493	678.00	0.28571	310.65	678.00	1,2	449.90	0.9166
6009	C5H14N2	1,5-pentanediamine	462-94-2	0.28545	0.26225	637.67	0.28571	282.15	637.67	1,2	298.15	0.8730
6010	C5H14N2	N,N,N',N'-tetramethylmethanediamine	51-80-9	0.28545	0.31712	637.67	0.28571	251.83	637.67	1,2	298.15	0.7449
6011	C5H14N2	1,3-diaminopentane	589-37-7	0.28545	0.26888	637.67	0.28571	152.25	637.67	1,2	298.15	0.8550
6012	C5H14N2	3-dimethylamino-1-propylamine	109-55-7	0.28545	0.28644	637.67	0.28571	213.25	637.67	1,2	298.15	0.8110
6013	C5H14N2	N,N'-dimethyl-1,3-propanediamine	111-33-1	0.28545	0.28392	637.67	0.28571	251.83	637.67	1,2	298.15	0.8170
6014	C5H14N2	2,2-dimethyl-1,3-propanediamine	7328-91-8	0.28545	0.27039	637.67	0.28571	303.15	637.67	1,2	426.15	0.7412
6015	C5H14N2	1-dimethylamino-2-propylamine	62689-51-4	0.28545	0.29468	637.67	0.28571	308.33	637.67	1,2	385.65	0.7287
6016	C5H14N2	N-isopropylethylenediamine	19522-67-9	0.28545	0.28475	637.67	0.28571	251.83	637.67	1,2	298.15	0.8150
6017	C5H14N2	N-propylethylenediamine	111-39-7	0.28545	0.27901	637.67	0.28571	251.83	637.67	1,2	298.15	0.8290
6018	C5H14N2	N,N,N'-trimethylethylenediamine	142-25-6	0.28545	0.29335	637.67	0.28571	251.83	637.67	1,2	298.15	0.7950
6067	C6Cl6	hexachlorobenzene	118-74-1	0.54140	0.22125	825.00	0.28571	501.70	825.00	1,2	582.55	1.5676
6080	C6F6	hexafluorobenzene	392-56-3	0.55540	0.25941	516.73	0.27853	278.25	516.73	1,2	298.15	1.6060
6115	C6HCl5	pentachlorobenzene	608-93-5	0.49230	0.22362	791.17	0.28571	358.65	791.17	1,2	549.15	1.4321
6174	C6H2Cl4	1,2,3,4-tetrachlorobenzene	634-66-2	0.46984	0.25215	772.88	0.28571	319.65	772.88	2	527.25	1.2682
6175	C6H2Cl4	1,2,3,5-tetrachlorobenzene	634-90-2	0.46984	0.25119	761.15	0.28571	327.65	761.15	2	519.25	1.2717
6176	C6H2Cl4	1,2,4,5-tetrachlorobenzene	95-94-3	0.46984	0.20550	759.69	0.28571	412.15	759.69	1,2	518.25	1.4697
6281	C6H3ClN2O4	1-chloro-2,4-dinitrobenzene	97-00-7	0.42380	0.23561	813.77	0.24220	326.55	813.77	1,2	588.00	1.2229
6296	C6H3Cl2NO2	1,2-dichloro-4-nitrobenzene	99-54-7	0.44040	0.24285	758.00	0.27433	315.65	758.00	1,2	529.00	1.2203
6305	C6H3Cl3	1,2,4-trichlorobenzene	120-82-1	0.45940	0.26279	725.00	0.28570	290.15	725.00	1,2	298.15	1.4490
6306	C6H3Cl3	1,2,3-trichlorobenzene	87-61-6	0.44202	0.25126	734.25	0.28571	325.65	734.25	1,2	491.75	1.2094
6307	C6H3Cl3	1,3,5-trichlorobenzene	108-70-3	0.44202	0.24992	719.02	0.28571	336.65	719.02	2	481.55	1.2141
6308	C6H3Cl3	trichlorobenzene	12002-48-1	0.44781	0.25377	726.09	0.28571	313.40	726.09	1,2	486.40	1.2162
6367	C6H3N3O6	1,3,5-trinitrobenzene	99-35-4	0.40980	0.22299	1005.00	0.28571	398.40	1005.00	1,2	748.00	1.1324
6411	C6H4Br2	m-dibromobenzene	108-36-1	0.63420	0.27447	761.00	0.28571	266.25	761.00	1,2	298.15	1.9470
6412	C6H4Br2	o-dibromobenzene	583-53-9	0.63420	0.26962	761.00	0.28571	280.25	761.00	1,2	298.15	1.9774
6413	C6H4Br2	p-dibromobenzene	106-37-6	0.63420	0.23268	761.00	0.28571	360.58	761.00	1,2	491.65	1.8744
6414	C6H4Br2	dibromobenzene	26249-12-7	0.63420	0.25753	761.00	0.28571	302.36	761.00	2	493.65	1.7345
6443	C6H4ClNO2	m-chloronitrobenzene	121-73-3	0.36470	0.22321	742.00	0.24499	317.65	742.00	1,2	508.75	1.1283
6444	C6H4ClNO2	o-chloronitrobenzene	88-73-3	0.36470	0.16016	757.00	0.28570	306.15	757.00	1,2	519.00	1.3598
6445	C6H4ClNO2	p-chloronitrobenzene	100-00-5	0.36470	0.22885	751.00	0.22680	356.65	751.00	1,2	515.15	1.1335
6469	C6H4Cl2	o-dichlorobenzene	95-50-1	0.41880	0.26113	705.00	0.30815	256.15	705.00	1,2	298.15	1.3010
6470	C6H4Cl2	m-dichlorobenzene	541-73-1	0.41880	0.26157	683.95	0.31526	248.39	683.95	1,2	298.15	1.2830
6471	C6H4Cl2	p-dichlorobenzene	106-46-7	0.41880	0.26333	684.75	0.30788	326.14	684.75	1,2	447.21	1.0972
6524	C6H4F2	m-difluorobenzene	372-18-9	0.38090	0.24864	552.94	0.28571	204.03	552.94	1,2	298.15	1.1620
6525	C6H4F2	o-difluorobenzene	367-11-3	0.38090	0.25220	554.46	0.28571	239.16	554.46	1,2	298.15	1.1500
6526	C6H4F2	p-difluorobenzene	540-36-3	0.38090	0.24928	556.00	0.28571	260.16	556.00	1,2	298.15	1.1620
6580	C6H4N2O4	m-dinitrobenzene	99-65-0	0.38730	0.21151	805.00	0.22716	364.00	805.00	1,2	573.00	1.2492
6581	C6H4N2O4	o-dinitrobenzene	528-29-0	0.38730	0.23105	831.00	0.28571	390.08	831.00	1,2	592.00	1.0808
6582	C6H4N2O4	p-dinitrobenzene	100-25-4	0.38730	0.19574	803.00	0.28571	446.60	803.00	1,2	572.00	1.2140
6656	C6H5Br	bromobenzene	108-86-1	0.48460	0.26615	670.15	0.28210	242.43	670.15	1,2	298.15	1.4870

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
6692	C6H5Cl	chlorobenzene	108-90-7	0.36540	0.26518	632.35	0.29036	227.95	632.35	1,2	298.15	1.1010
6720	C6H5ClO	m-chlorophenol	108-43-0	0.40170	0.26380	729.00	0.28570	306.00	729.00	1,2	487.00	1.0622
6721	C6H5ClO	o-chlorophenol	95-57-8	0.39560	0.25863	675.00	0.27140	282.00	675.00	1,2	298.15	1.2550
6722	C6H5ClO	p-chlorophenol	106-48-9	0.39560	0.25449	738.00	0.29540	316.00	738.00	1,2	493.11	1.0624
6740	C6H5Cl2N	3,4-dichloroaniline	95-76-1	0.39610	0.25097	800.00	0.28570	344.65	800.00	2	545.00	1.0737
6769	C6H5F	fluorobenzene	462-06-6	0.35730	0.27270	560.09	0.28291	230.94	560.09	1,2	298.15	1.0190
6795	C6H5I	iodobenzene	591-50-4	0.58120	0.26358	721.15	0.28950	241.83	721.15	1,2	298.15	1.8220
6819	C6H5NO2	nitrobenzene	98-95-3	0.35280	0.24036	719.00	0.28570	278.91	719.00	1,2	298.15	1.1990
6876	C6H6	benzene	71-43-2	0.30170	0.26855	562.16	0.28180	278.68	562.16	1,2	298.15	0.8730
6923	C6H6ClN	m-chloroaniline	108-42-9	0.35050	0.23207	751.00	0.32410	262.75	751.00	1,2	298.15	1.2110
6924	C6H6ClN	o-chloroaniline	95-51-2	0.35050	0.24008	722.00	0.26040	269.65	722.00	2	298.15	1.2136
6925	C6H6ClN	p-chloroaniline	106-47-8	0.35050	0.19868	754.00	0.28500	343.05	754.00	1,2	503.65	1.1410
6979	C6H6N2	cis-dicyano-1-butene	2141-58-4	0.27070	0.20064	691.00	0.28571	249.00	691.00	1,2	298.15	1.0620
6980	C6H6N2	trans-dicyano-1-butene	2141-59-5	0.27070	0.20223	689.00	0.28571	260.00	689.00	1,2	298.15	1.0540
6981	C6H6N2	trans-1,4-dicyano-2-butene	1119-85-3	0.24910	0.19412	755.00	0.28571	260.00	755.00	2	298.15	1.0307
6996	C6H6N2O2	m-nitroaniline	99-09-2	0.34020	0.32974	815.00	0.28571	387.15	815.00	1,2	579.00	0.7411
6997	C6H6N2O2	o-nitroaniline	88-74-4	0.34020	0.32716	784.00	0.28571	344.65	784.00	1,2	558.00	0.7445
6998	C6H6N2O2	p-nitroaniline	100-01-6	0.34020	0.33218	851.00	0.28571	420.65	851.00	2	609.15	0.7343
7000	C6H6N2O2	N-nitroaniline	645-55-6	0.34020	0.32978	816.67	0.28571	320.45	816.67	2	557.33	0.7566
7057	C6H6O	phenol	108-95-2	0.41100	0.31750	694.25	0.32120	314.06	694.25	1,2	454.99	0.9284
7070	C6H6O2	pyrocatechol	120-80-9	0.36700	0.22831	764.00	0.26690	377.60	764.00	1,2	518.65	1.0924
7071	C6H6O2	resorcinol	108-46-3	0.36700	0.24863	810.00	0.24327	382.00	810.00	1,2	549.65	1.0551
7072	C6H6O2	p-hydroquinone	123-31-9	0.36700	0.23212	822.00	0.28571	444.65	822.00	1,2	558.15	1.0546
7085	C6H6O3	1,2,3-benzenetriol	87-66-1	0.39660	0.22889	830.00	0.28571	407.00	830.00	1,2	581.85	1.1269
7121	C6H6S	phenyl mercaptan	108-98-5	0.34980	0.26324	689.00	0.30798	258.26	689.00	1,2	298.15	1.0730
7172	C6H7N	aniline	62-53-3	0.34490	0.28119	699.00	0.28571	267.13	699.00	1,2	298.15	1.0180
7173	C6H7N	2-methylpyridine	109-06-8	0.29100	0.24642	621.00	0.27179	206.44	621.00	1,2	298.15	0.9400
7174	C6H7N	3-methylpyridine	108-99-6	0.29100	0.24339	645.00	0.28343	255.01	645.00	1,2	298.15	0.9520
7175	C6H7N	4-methylpyridine	108-89-4	0.28600	0.24090	646.15	0.27524	276.73	646.15	1,2	298.15	0.9500
7178	C6H7N	methylpyridine	1333-41-1	0.28933	0.24114	637.38	0.28571	275.55	637.38	2	298.15	0.9490
7267	C6H8	1,3-cyclohexadiene	592-57-4	0.28930	0.25887	558.00	0.31490	161.00	558.00	1,2	298.15	0.8370
7268	C6H8	methylcyclopentadiene	26519-91-5	0.28720	0.27371	541.00	0.28571	230.00	541.00	1,2	298.15	0.8050
7269	C6H8	1,4-cyclohexadiene	628-41-1	0.28930	0.26467	558.00	0.28571	230.00	558.00	1,2	298.15	0.8422
7273	C6H8	1-hexen-3-yne	13721-54-5	0.28181	0.29085	525.00	0.28571	230.00	525.00	1,2	298.15	0.7447
7274	C6H8	1-hexen-4-yne	5009-11-0	0.28181	0.28496	525.00	0.28571	230.00	525.00	1,2	298.15	0.7567
7275	C6H8	1-hexen-5-yne	14548-31-3	0.28181	0.28328	525.00	0.28571	230.00	525.00	1,2	298.15	0.7603
7276	C6H8	2-hexen-4-yne	14092-20-7	0.28181	0.28050	525.00	0.28571	230.00	525.00	1,2	298.15	0.7662
7277	C6H8	2-methyl-1-penten-3-yne	926-55-6	0.28181	0.28076	525.00	0.28571	230.00	525.00	2	298.15	0.7656
7278	C6H8	3-methyl-3-penten-1-yne	1574-33-0	0.28181	0.29593	525.00	0.28571	230.00	525.00	1,2	298.15	0.7346
7316	C6H8N2	adiponitrile	111-69-3	0.26640	0.23007	781.00	0.28379	275.64	781.00	1,2	298.15	0.9600
7317	C6H8N2	methylglutaronitrile	4553-62-2	0.26770	0.21877	742.00	0.35460	228.15	742.00	1,2	298.15	0.9500
7318	C6H8N2	m-phenylenediamine	108-45-2	0.28690	0.23850	824.00	0.25364	334.00	824.00	1,2	560.00	0.8397
7319	C6H8N2	o-phenylenediamine	95-54-5	0.34330	0.28376	781.00	0.28571	376.95	781.00	2	525.00	0.8579
7320	C6H8N2	p-phenylenediamine	106-50-3	0.34110	0.28287	796.00	0.28571	413.00	796.00	2	540.00	0.8501
7321	C6H8N2	phenylhydrazine	100-63-0	0.25870	0.19690	761.00	0.24048	292.35	761.00	1,2	298.15	1.0940
7343	C6H8N2O	bis(cyanoethyl) ether	1656-48-0	0.32930	0.26356	783.00	0.30190	246.85	783.00	1,2	298.15	1.0440
7381	C6H8O	2-ethylfuran	3208-16-0	0.31363	0.27054	557.25	0.28571	182.44	557.25	1,2	298.15	0.8966
7382	C6H8O	3-ethylfuran	67363-95-5	0.31363	0.26150	556.26	0.28571	182.44	556.26	2	298.15	0.9209
7383	C6H8O	2,3-dimethylfuran	14920-89-9	0.31363	0.26214	559.41	0.28571	177.34	559.41	2	298.15	0.9209
7384	C6H8O	2,4-dimethylfuran	3710-43-8	0.31363	0.27206	560.17	0.28571	177.34	560.17	1,2	298.15	0.8942
7385	C6H8O	2,5-dimethylfuran	625-86-5	0.31363	0.27562	557.13	0.28571	210.35	557.13	1,2	298.15	0.8833
7386	C6H8O	3,4-dimethylfuran	20843-07-6	0.33101	0.27497	535.10	0.28571	177.34	535.10	2	298.15	0.9207
7446	C6H8O4	dimethyl maleate	624-48-6	0.35760	0.25105	675.00	0.29120	254.15	675.00	1,2	298.15	1.1480
7459	C6H8O6	ascorbic acid	50-81-7	0.51950	0.26573	783.00	0.28571	465.15	783.00	1,2	637.00	1.1797
7464	C6H8O7	citric acid	77-92-9	0.45780	0.25164	822.00	0.28570	426.15	822.00	1,2	659.00	1.0917
7467	C6H8S	2-ethylthiophene	872-55-9	0.34522	0.28190	623.60	0.28571	241.08	623.60	1,2	298.15	0.9880
7468	C6H8S	3-ethylthiophene	1795-01-3	0.34522	0.28062	626.70	0.28571	184.05	626.70	1,2	298.15	0.9931
7469	C6H8S	2,3-dimethylthiophene	632-16-6	0.34522	0.28054	635.30	0.28571	224.15	635.30	1,2	298.15	0.9970
7470	C6H8S	2,4-dimethylthiophene	638-00-6	0.34522	0.28256	634.00	0.28571	241.08	634.00	1,2	298.15	0.9905
7471	C6H8S	2,5-dimethylthiophene	638-02-8	0.34522	0.28533	627.80	0.28571	210.55	627.80	1,2	298.15	0.9799
7472	C6H8S	3,4-dimethylthiophene	632-15-5	0.34522	0.27924	640.40	0.28571	241.08	640.40	1,2	298.15	1.0030
7533	C6H9N	2,4-dimethylpyrrole	625-82-1	0.30443	0.26521	630.00	0.28571	279.65	630.00	1,2	298.15	0.9192
7534	C6H9N	2,5-dimethylpyrrole	625-84-3	0.30443	0.26124	630.00	0.28571	279.65	630.00	1,2	298.15	0.9308
7535	C6H9N	1-ethyl-1H-pyrrole	617-92-5	0.30443	0.27322	630.00	0.28571	279.65	630.00	1,2	298.15	0.8967
7536	C6H9N	2-ethyl-1H-pyrrole	1551-06-0	0.30443	0.27203	630.00	0.28571	279.65	630.00	1,2	298.15	0.9000
7619	C6H10	1-methylcyclopentene	693-89-0	0.26400	0.25805	541.99	0.28571	145.96	541.99	1,2	298.15	0.7760
7620	C6H10	3-methylcyclopentene	1120-62-3	0.27520	0.27808	535.71	0.28571	130.16	535.71	1,2	298.15	0.7590
7621	C6H10	4-methylcyclopentene	1759-81-5	0.27520	0.27811	543.75	0.28571	112.31	543.75	1,2	298.15	0.7630
7622	C6H10	cyclohexene	110-83-8	0.28230	0.27163	560.40	0.28571	169.67	560.40	1,2	298.15	0.8060
7623	C6H10	1,2-hexadiene	592-44-9	0.24705	0.26353	534.07	0.28571	161.63	534.07	1,2	298.15	0.7102
7624	C6H10	1,cis-3-hexadiene	14596-92-0	0.24705	0.26659	526.70	0.28571	150.04	526.70	1,2	298.15	0.7000
7625	C6H10	1,trans-3-hexadiene	20237-34-7	0.24705	0.26659	526.70	0.28571	170.75	526.70	1,2	298.15	0.7000
7626	C6H10	1,4-hexadiene	592-45-0	0.24717	0.26889	526.51	0.28571	158.90	526.51	1,2	298.15	0.6955
7627	C6H10	1,cis-4-hexadiene	7318-67-4	0.24705	0.26587	514.53	0.28571	150.04	514.53	1,2	298.15	0.6950
7628	C6H10	1,trans-4-hexadiene	7319-00-8	0.24705	0.26587	514.53	0.28571	134.45	514.53	1,2	298.15	0.6950
7629	C6H10	1,5-hexadiene	592-42-7	0.24230	0.26626	507.00	0.26770	132.47	507.00	1,2	298.15	0.6880
7630	C6H10	2,3-hexadiene	592-49-4	0.24780	0.27955	523.91	0.28571	158.31	523.91	1,2	298.15	0.6750
7631	C6H10	2,4-hexadiene	592-46-1	0.24717	0.25968	526.51	0.28571	194.15	526.51	1,2	298.15	0.7149
7632	C6H10	cis-2,trans-4-hexadiene	5194-50-3	0.24820	0.26095	538.00	0.28910	177.05	538.00	1,2	298.15	0.7190
7633	C6H10	cis-2,cis-4-hexadiene	6108-61-8	0.24780	0.26355	539.46	0.28571	146.72	539.46	1,2	298.15	0.7150

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^{\wedge}n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
7634	C6H10	trans-2,trans-4-hexadiene	5194-51-4	0.24820	0.26643	535.00	0.28209	228.25	535.00	1,2	298.15	0.7100
7635	C6H10	3-methyl-1,2-pentadiene	7417-48-3	0.24631	0.26137	528.84	0.28571	147.67	528.84	1,2	298.15	0.7100
7636	C6H10	4-methyl-1,2-pentadiene	13643-05-5	0.24054	0.25664	528.04	0.28571	145.26	528.04	1,2	298.15	0.7030
7637	C6H10	3-methyl-1,3-pentadiene	4549-74-0	0.24717	0.25287	526.51	0.28571	158.90	526.51	1,2	298.15	0.7300
7638	C6H10	2-methyl-1,cis-3-pentadiene	1501-60-6	0.24631	0.26104	535.20	0.28571	155.55	535.20	1,2	298.15	0.7140
7639	C6H10	2-methyl-1,trans-3-pentadiene	926-54-5	0.24631	0.26104	535.20	0.28571	136.08	535.20	1,2	298.15	0.7140
7640	C6H10	3-methyl-1,cis-3-pentadiene	2787-45-3	0.24631	0.25419	536.73	0.28571	136.08	536.73	1,2	298.15	0.7300
7641	C6H10	3-methyl-1,trans-3-pentadiene	2787-43-1	0.24631	0.25419	536.73	0.28571	136.08	536.73	1,2	298.15	0.7300
7642	C6H10	4-methyl-1,3-pentadiene	926-56-7	0.24631	0.26114	535.66	0.28571	136.08	535.66	1,2	298.15	0.7140
7643	C6H10	2-methyl-1,4-pentadiene	763-30-4	0.24558	0.26067	493.39	0.28571	139.40	493.39	1,2	298.15	0.6890
7644	C6H10	3-methyl-1,4-pentadiene	1115-08-8	0.25083	0.27001	501.82	0.28571	138.36	501.82	1,2	298.15	0.6900
7645	C6H10	2-methyl-2,3-pentadiene	3043-33-2	0.24705	0.26552	534.09	0.28571	144.35	534.09	1,2	298.15	0.7060
7646	C6H10	2-ethyl-1,3-butadiene	3404-63-5	0.24558	0.26011	531.56	0.28571	139.40	531.56	1,2	298.15	0.7120
7647	C6H10	2,3-dimethyl-1,3-butadiene	513-81-5	0.26080	0.27293	526.00	0.28900	197.15	526.00	1,2	298.15	0.7230
7648	C6H10	1-hexyne	693-02-7	0.25510	0.27164	516.20	0.27710	141.25	516.20	1,2	298.15	0.7120
7649	C6H10	2-hexyne	764-35-2	0.24820	0.25243	549.00	0.31611	183.65	549.00	1,2	298.15	0.7270
7650	C6H10	3-hexyne	928-49-4	0.24820	0.26373	544.00	0.28571	170.05	544.00	1,2	298.15	0.7180
7651	C6H10	3-methyl-1-pentyne	922-59-8	0.25083	0.26853	512.82	0.28571	188.85	512.82	1,2	298.15	0.6992
7652	C6H10	4-methyl-1-pentyne	7154-75-8	0.25083	0.26958	518.20	0.28571	168.55	518.20	1,2	298.15	0.7000
7653	C6H10	4-methyl-2-pentyne	21020-27-9	0.25083	0.26967	540.58	0.28571	162.85	540.58	1,2	298.15	0.7112
7654	C6H10	3,3-dimethyl-1-butyne	917-92-0	0.25471	0.28712	491.15	0.28571	194.95	491.15	1,2	298.15	0.6623
7657	C6H10	1,3-hexadiene, cis and trans	592-48-3	0.24717	0.26009	526.51	0.28571	158.90	526.51	1,2	298.15	0.7140
7658	C6H10	2-methyl-1,3-pentadiene	1118-58-7	0.24717	0.25734	526.51	0.28571	258.25	526.51	1,2	298.15	0.7200
7659	C6H10	methylpentadiene, isomers	54363-49-4	0.24717	0.25825	526.51	0.28571	158.90	526.51	1,2	298.15	0.7180
7660	C6H10	hexadiene	42296-74-2	0.24717	0.25880	526.51	0.28571	158.90	526.51	2	298.15	0.7168
7688	C6H10Cl2	cis-1,2-dichloro-1-hexene	59697-55-1	0.37367	0.28323	660.00	0.28571	200.00	660.00	1,2	298.15	1.0812
7689	C6H10Cl2	trans-1,2-dichloro-1-hexene	59697-51-7	0.37367	0.27258	660.00	0.28571	200.00	660.00	1,2	298.15	1.1167
7760	C6H10O	cyclohexanone	108-94-1	0.28890	0.24172	629.15	0.28571	242.00	629.15	1,2	298.15	0.9420
7761	C6H10O	mesityl oxide	141-79-7	0.27650	0.25446	600.00	0.28484	220.15	600.00	1,2	298.15	0.8520
7772	C6H10O	2-ethyl-1-buten-1-one	24264-08-2	0.28633	0.27432	595.00	0.28571	202.10	595.00	1,2	298.15	0.8268
7773	C6H10O	3-hexen-2-one	763-93-9	0.28633	0.26110	595.00	0.28571	202.10	595.00	1,2	298.15	0.8610
7774	C6H10O	4-hexen-2-one	25659-22-7	0.28633	0.26746	595.00	0.28571	202.10	595.00	1,2	298.15	0.8441
7775	C6H10O	4-hexen-3-one	2497-21-4	0.28633	0.26466	595.00	0.28571	202.10	595.00	1,2	298.15	0.8514
7776	C6H10O	5-hexen-2-one	109-49-9	0.28633	0.27115	595.00	0.28571	202.10	595.00	1,2	298.15	0.8347
7777	C6H10O	trans-3-hexen-2-one	4376-23-2	0.28633	0.26074	595.00	0.28571	202.10	595.00	1,2	298.15	0.8619
7778	C6H10O	2-methyl-1-penten-3-one	25044-01-3	0.28633	0.26576	595.00	0.28571	203.65	595.00	1,2	298.15	0.8486
7779	C6H10O	4-methyl-4-penten-2-one	3744-02-3	0.28633	0.27033	595.00	0.28571	200.55	595.00	1,2	298.15	0.8368
7785	C6H10O	trans-2-hexenal	6728-26-3	0.31647	0.30091	590.00	0.28571	210.00	590.00	1,2	298.15	0.8451
7786	C6H10O	cis-3-hexenal	6789-80-6	0.31647	0.29841	590.00	0.28571	210.00	590.00	1,2	298.15	0.8508
7787	C6H10O	trans-3-hexenal	69112-21-6	0.31647	0.30177	590.00	0.28571	210.00	590.00	1,2	298.15	0.8431
7788	C6H10O	2-methyl-2-pentenal	623-36-9	0.31647	0.29707	590.00	0.28571	210.00	590.00	1,2	298.15	0.8540
7801	C6H10O	4-methylpent-2-enal	5362-56-1	0.31647	0.30137	590.00	0.28571	210.00	590.00	1,2	298.15	0.8440
7804	C6H10O	3-methyl-3-penten-2-one	565-62-8	0.28633	0.25486	595.00	0.28571	202.10	595.00	2	298.15	0.8782
7805	C6H10O	2-ethylcrotonaldehyde	19780-25-7	0.31647	0.28699	590.00	0.28571	210.00	590.00	2	298.15	0.8784
7806	C6H10O	2-hexenal	505-57-7	0.31647	0.28699	590.00	0.28571	210.00	590.00	2	298.15	0.8784
7813	C6H10O2	epsilon-caprolactone	502-44-3	0.32430	0.25424	771.00	0.28570	271.85	771.00	1,2	298.15	1.0670
7814	C6H10O2	ethyl methacrylate	97-63-2	0.30440	0.26047	577.00	0.28571	290.00	577.00	1,2	298.15	0.9080
7815	C6H10O2	propyl acrylate	925-60-0	0.30360	0.26095	569.00	0.28571	387.15	569.00	1,2	392.15	0.7946
7817	C6H10O2	2-buten-1-yl acetate	628-08-0	0.30360	0.25605	569.00	0.28571	387.15	569.00	1,2	405.15	0.7886
7818	C6H10O2	allyl propanoate	2408-20-0	0.30360	0.25784	569.00	0.28571	387.15	569.00	1,2	396.15	0.7964
7820	C6H10O2	2,2-dimethyl-3-butenoic acid	10276-09-2	0.29312	0.25207	696.00	0.28571	267.15	696.00	1,2	298.15	0.9487
7821	C6H10O2	trans-2-ethyl-2-butenoic acid	1187-13-9	0.29312	0.24287	696.00	0.28571	318.65	696.00	1,2	482.15	0.8049
7822	C6H10O2	2-hexenoic acid	1191-04-4	0.29312	0.24832	696.00	0.28571	309.65	696.00	1,2	489.65	0.7843
7823	C6H10O2	3-hexenoic acid	4219-24-3	0.29312	0.24789	696.00	0.28571	285.15	696.00	1,2	298.15	0.9624
7824	C6H10O2	5-hexenoic acid	1577-22-6	0.29312	0.24953	696.00	0.28571	236.15	696.00	1,2	298.15	0.9569
7825	C6H10O2	2-methyl-3-pentenoic acid	37674-63-8	0.29312	0.24924	696.00	0.28571	290.45	696.00	1,2	298.15	0.9579
7826	C6H10O2	4-methyl-2-pentenoic acid	10321-71-8	0.29312	0.25177	696.00	0.28571	308.15	696.00	1,2	490.15	0.7762
7827	C6H10O2	trans-2-methyl-2-pentenoic acid	16957-70-3	0.29312	0.24532	696.00	0.28571	297.55	696.00	1,2	298.15	0.9709
7828	C6H10O2	cis-3-methyl-2-pentenoic acid	19866-51-4	0.29312	0.24302	696.00	0.28571	285.15	696.00	1,2	298.15	0.9788
7829	C6H10O2	ethyl 3-butenoate	1617-18-1	0.30360	0.25847	569.00	0.28571	387.15	569.00	1,2	392.15	0.8000
7830	C6H10O2	ethyl cis-2-butenoate	6776-19-8	0.30360	0.25639	569.00	0.28571	387.15	569.00	1,2	409.15	0.7826
7831	C6H10O2	ethyl 2-butenoate	10544-63-5	0.30360	0.25663	569.00	0.28571	387.15	569.00	1,2	409.65	0.7815
7832	C6H10O2	ethyl trans-2-butenoate	623-70-1	0.30360	0.25663	569.00	0.28571	387.15	569.00	1,2	411.15	0.7795
7833	C6H10O2	vinyl butanoate	123-20-6	0.30360	0.26257	569.00	0.28571	387.15	569.00	1,2	389.85	0.7939
7834	C6H10O2	vinyl 2-methylpropanoate	2424-98-8	0.30360	0.26525	569.00	0.28571	387.15	569.00	1,2	377.65	0.8025
7844	C6H10O2	2-methylenepentanoic acid	5650-75-9	0.29312	0.24315	696.00	0.28571	297.55	696.00	1,2	298.15	0.9783
7845	C6H10O2	methyl 2-methyl-2-butenoate	6622-76-0	0.30360	0.25361	569.00	0.28571	387.15	569.00	1,2	412.15	0.7845
7846	C6H10O2	methyl 3-methyl-2-butenoate	924-50-5	0.30360	0.25117	569.00	0.28571	387.15	569.00	1,2	409.65	0.7932
7848.1	C6H10O2	isopropyl acrylate	689-12-3	0.30358	0.26437	560.00	0.28571	190.00	560.00	1,2	298.15	0.8856
7856	C6H10O2	trans-2-hexenoic acid	13419-69-7	0.29312	0.24709	696.00	0.28571	305.15	696.00	1,2	490.15	0.7865
7857	C6H10O2	trans-3-hexenoic acid	1577-18-0	0.29312	0.24739	696.00	0.28571	284.65	696.00	1,2	298.15	0.9640
7859	C6H10O2	methyl trans-2-pentenoate	15790-88-2	0.30360	0.24369	569.00	0.28571	387.15	569.00	2	435.22	0.7722
7860	C6H10O2	methyl trans-3-pentenoate	20515-19-9	0.30360	0.25058	569.00	0.28571	387.15	569.00	1,2	435.22	0.7581
7861	C6H10O2	2-methyl-4-pentenoic acid	1575-74-2	0.29312	0.25167	696.00	0.28571	290.45	696.00	1,2	298.15	0.9500
7862	C6H10O2	2-methyl-2-pentenoic acid	3142-72-1	0.29312	0.25099	696.00	0.28571	290.45	696.00	2	298.15	0.9522
7881	C6H10O3	ethylacetoacetate	141-97-9	0.33280	0.26139	643.00	0.28570	234.15	643.00	1,2	298.15	1.0230
7882	C6H10O3	propionic anhydride	123-62-6	0.32860	0.25878	618.00	0.28571	228.15	618.00	1,2	298.15	1.0070
7917	C6H10O4	adipic acid	124-04-9	0.36540	0.22399	809.00	0.28200	425.50	809.00	1,2	611.00	0.9992
7918	C6H10O4	diethyl oxalate	95-92-1	0.35130	0.25330	646.00	0.33419	232.55	646.00	1,2	298.15	1.0730
7919	C6H10O4	ethylene glycol diacetate	111-55-7	0.35130	0.25672	653.00	0.28570	242.15	653.00	1,2	298.15	1.1010

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
7920	C6H10O4	ethylidene diacetate	542-10-9	0.36000	0.26913	635.00	0.29542	292.00	635.00	1,2	298.15	1.0690
7953.1	C6H10O5	dilactic acid	19201-34-4	0.37189	0.30606	660.00	0.28571	385.65	660.00	1,2	298.15	1.0080
7979	C6H11Br	cis-1-bromo-1-hexene	13154-12-6	0.39433	0.26391	609.39	0.28571	211.60	609.39	1,2	298.15	1.1840
7980	C6H11Br	trans-1-bromo-1-hexene	13154-13-7	0.39433	0.26391	609.39	0.28571	211.60	609.39	1,2	298.15	1.1840
7982	C6H11Br	6-bromo-1-hexene	2695-47-8	0.39433	0.25476	609.39	0.28571	211.60	609.39	1,2	298.15	1.2190
7983	C6H11Br	5-bromo-2-methyl-2-pentene	2270-59-9	0.39433	0.25527	609.39	0.28571	211.60	609.39	1,2	298.15	1.2170
8004	C6H11Br3	1,1,1-tribromohexane	62127-63-3	0.59079	0.25887	746.32	0.28571	338.70	746.32	2	520.15	1.5443
8006	C6H11Cl	cis-1-chloro-1-hexene	50586-18-0	0.29614	0.25716	583.61	0.28571	181.72	583.61	1,2	298.15	0.8960
8007	C6H11Cl	trans-1-chloro-1-hexene	50586-19-1	0.29614	0.25716	583.61	0.28571	181.72	583.61	1,2	298.15	0.8960
8009	C6H11Cl	1-chloro-2,3-dimethyl-2-butene	37866-06-1	0.29614	0.24561	583.61	0.28571	181.72	583.61	1,2	298.15	0.9302
8010	C6H11Cl	1-chloro-1-hexene	22922-67-4	0.29614	0.26134	583.61	0.28571	181.72	583.61	1,2	298.15	0.8843
8011	C6H11Cl	1-chloro-3-hexene	62706-16-5	0.29614	0.25610	583.61	0.28571	181.72	583.61	1,2	298.15	0.8990
8012	C6H11Cl	2-chloro-1-hexene	10124-73-9	0.29614	0.25979	583.61	0.28571	181.72	583.61	1,2	298.15	0.8886
8013	C6H11Cl	4-chloro-2-hexene	6734-98-1	0.29614	0.25981	583.61	0.28571	181.72	583.61	1,2	298.15	0.8885
8014	C6H11Cl	5-chloro-1-hexene	927-54-8	0.29614	0.25961	583.61	0.28571	181.72	583.61	1,2	298.15	0.8891
8015	C6H11Cl	cis-3-chloro-3-hexene	17226-34-5	0.29614	0.25717	583.61	0.28571	181.72	583.61	1,2	298.15	0.8960
8016	C6H11Cl	3-chloro-2-methyl-1-pentene	4104-01-2	0.29614	0.25348	583.61	0.28571	181.72	583.61	2	298.15	0.9066
8017	C6H11Cl	5-chloro-2-methyl-2-pentene	7712-60-9	0.29614	0.25234	583.61	0.28571	181.72	583.61	1,2	298.15	0.9099
8066	C6H11Cl3	1,1,1-trichlorohexane	17760-40-6	0.37342	0.26320	657.17	0.28571	249.06	657.17	1,2	298.15	1.1480
8071	C6H11F	cis-1-fluoro-1-hexene	66225-46-5	0.27646	0.24758	502.87	0.28571	183.95	502.87	1,2	298.15	0.8140
8072	C6H11F	trans-1-fluoro-1-hexene	66225-47-6	0.27646	0.24758	502.87	0.28571	183.95	502.87	1,2	298.15	0.8140
8077	C6H11F3	1,1,1-trifluorohexane	---	0.34017	0.25328	498.20	0.28571	255.75	498.20	1,2	298.15	0.9800
8080	C6H11I	cis-1-iodo-1-hexene	16538-47-9	0.47795	0.26860	659.87	0.28571	209.86	659.87	1,2	298.15	1.4460
8081	C6H11I	trans-1-iodo-1-hexene	16644-98-7	0.47795	0.26860	659.87	0.28571	209.86	659.87	1,2	298.15	1.4460
8086	C6H11I3	1,1,1-triiodohexane	---	0.74278	0.27240	897.23	0.28571	333.48	897.23	2	612.87	1.8949
8088	C6H11N	hexanenitrile	628-73-9	0.25300	0.24925	622.05	0.28637	192.85	622.05	1,2	298.15	0.8010
8089	C6H11N	2-methylpentanenitrile	6339-13-5	0.24817	0.24563	605.44	0.28571	206.87	605.44	1,2	298.15	0.7890
8090	C6H11N	2-ethylbutanenitrile	617-80-1	0.24817	0.24215	602.56	0.28571	206.87	602.56	1,2	298.15	0.7971
8091	C6H11N	3-methylpentanenitrile	21101-88-2	0.24817	0.24210	614.09	0.28571	206.87	614.09	1,2	298.15	0.8021
8092	C6H11N	4-methylpentanenitrile	542-54-1	0.24817	0.24334	615.53	0.28571	222.05	615.53	1,2	298.15	0.7993
8093	C6H11N	2,2-dimethylbutanenitrile	20654-46-0	0.25139	0.25240	588.30	0.28571	224.29	588.30	1,2	298.15	0.7743
8094	C6H11N	2,3-dimethylbutanenitrile	20654-44-8	0.25204	0.24477	582.40	0.28571	191.87	582.40	1,2	298.15	0.7933
8095	C6H11N	3,3-dimethylbutanenitrile	3302-16-7	0.25139	0.23950	598.54	0.28571	306.15	598.54	2	409.15	0.7033
8101	C6H11NO	epsilon-caprolactam	105-60-2	0.31790	0.28190	806.00	0.28571	342.36	806.00	2	543.15	0.7972
8102	C6H11NO	cyclohexanone oxime	100-64-1	0.30670	0.26280	715.00	0.28571	363.15	715.00	2	481.15	0.8099
8200	C6H12	1-methyl-1-ethylcyclopropane	53778-43-1	0.26591	0.28932	507.94	0.28571	142.95	507.94	1,2	298.15	0.6968
8201	C6H12	1-methyl-cis-2-ethylcyclopropane	19781-68-1	0.25698	0.27335	518.53	0.28571	170.58	518.53	1,2	298.15	0.7096
8202	C6H12	1-methyl-trans-2-ethylcyclopropane	19781-69-2	0.25698	0.28056	505.80	0.28571	170.58	505.80	1,2	298.15	0.6885
8203	C6H12	1,1,2-trimethylcyclopropane	4127-45-1	0.25856	0.28173	504.34	0.28571	134.97	504.34	1,2	298.15	0.6897
8204	C6H12	1,cis-2,cis-3-trimethylcyclopropane	4806-58-0	0.25011	0.26284	520.06	0.28571	154.21	520.06	1,2	298.15	0.7130
8205	C6H12	1,cis-2,trans-3-trimethylcyclopropane	4806-59-1	0.25011	0.27000	510.40	0.28571	154.21	510.40	1,2	298.15	0.6929
8206	C6H12	propylcyclopropane	2415-72-7	0.25620	0.27439	520.15	0.28571	174.82	520.15	1,2	298.15	0.7062
8207	C6H12	isopropylcyclopropane	3638-35-5	0.25265	0.27212	506.65	0.28571	160.22	506.65	1,2	298.15	0.6936
8208	C6H12	1,1-dimethylcyclobutane	---	0.26424	0.28286	514.04	0.28571	195.20	514.04	1,2	298.15	0.7080
8209	C6H12	1,cis-2-dimethylcyclobutane	15679-01-3	0.26342	0.27350	525.83	0.28571	167.06	525.83	1,2	298.15	0.7310
8210	C6H12	1,trans-2-dimethylcyclobutane	15679-02-4	0.26342	0.28158	513.50	0.28571	150.65	513.50	1,2	298.15	0.7080
8211	C6H12	1,cis-3-dimethylcyclobutane	2398-09-6	0.26342	0.28281	514.27	0.28571	167.06	514.27	1,2	298.15	0.7060
8212	C6H12	1,trans-3-dimethylcyclobutane	2398-10-9	0.26342	0.28621	509.64	0.28571	167.06	509.64	1,2	298.15	0.6970
8213	C6H12	ethylcyclobutane	4806-61-5	0.26259	0.27673	528.10	0.28571	130.40	528.10	1,2	298.15	0.7232
8214	C6H12	methylcyclopentane	96-37-7	0.26390	0.27018	532.79	0.28276	130.73	532.79	1,2	298.15	0.7450
8215	C6H12	cyclohexane	110-82-7	0.27340	0.27368	553.54	0.28511	279.69	553.54	1,2	298.15	0.7730
8216	C6H12	1-hexene	592-41-6	0.23770	0.26380	504.03	0.28571	133.39	504.03	1,2	298.15	0.6670
8217	C6H12	2-hexene; (cis+trans)	592-43-8	0.23908	0.26095	506.59	0.28571	175.25	506.59	1,2	298.15	0.6780
8218	C6H12	cis-2-hexene	7688-21-3	0.23440	0.25598	513.00	0.27838	132.00	513.00	1,2	298.15	0.6830
8219	C6H12	trans-2-hexene	4050-45-7	0.23380	0.25775	513.00	0.28571	140.17	513.00	1,2	298.15	0.6730
8220	C6H12	hex-3-ene	592-47-2	0.23908	0.25436	506.59	0.28571	183.25	506.59	2	298.15	0.6916
8221	C6H12	cis-3-hexene	7642-09-3	0.23980	0.26415	509.00	0.28571	135.33	509.00	1,2	298.15	0.6750
8222	C6H12	trans-3-hexene	13269-52-8	0.23980	0.26212	509.00	0.29552	159.73	509.00	1,2	298.15	0.6730
8223	C6H12	2-methyl-1-pentene	763-29-1	0.23440	0.25597	507.00	0.28570	137.42	507.00	1,2	298.15	0.6750
8224	C6H12	3-methyl-1-pentene	760-20-3	0.24520	0.27445	495.00	0.28442	120.20	495.00	1,2	298.15	0.6630
8225	C6H12	4-methyl-1-pentene	691-37-2	0.24390	0.27460	496.00	0.28571	119.51	496.00	1,2	298.15	0.6590
8226	C6H12	4-methyl-2-pentene	4461-48-7	0.23908	0.26447	506.59	0.28571	146.05	506.59	1,2	298.15	0.6710
8227	C6H12	4-methyl-cis-2-pentene	691-38-3	0.24320	0.27128	499.00	0.28571	138.30	499.00	1,2	298.15	0.6650
8228	C6H12	4-methyl-trans-2-pentene	674-76-0	0.24320	0.27241	501.00	0.28571	132.35	501.00	1,2	298.15	0.6640
8229	C6H12	2-methyl-2-pentene	625-27-4	0.23180	0.25136	514.00	0.28570	138.07	514.00	1,2	298.15	0.6810
8230	C6H12	3-methyl-cis-2-pentene	922-62-3	0.24540	0.26721	515.00	0.28391	138.31	515.00	1,2	298.15	0.6890
8231	C6H12	3-methyl-2-pentene, cis and trans	922-61-2	0.23908	0.25135	506.59	0.28571	143.92	506.59	1,2	298.15	0.6980
8232	C6H12	3-methyl-trans-2-pentene	616-12-6	0.24050	0.25952	521.00	0.28571	134.70	521.00	1,2	298.15	0.6930
8233	C6H12	2,3-dimethyl-1-butene	563-78-0	0.24110	0.26442	500.00	0.28571	115.89	500.00	1,2	298.15	0.6730
8234	C6H12	2,3-dimethyl-2-butene	563-79-1	0.22620	0.24266	524.00	0.26403	198.82	524.00	1,2	298.15	0.7030
8235	C6H12	3,3-dimethyl-1-butene	558-37-2	0.25270	0.28397	480.00	0.29910	157.95	480.00	1,2	298.15	0.6480
8236	C6H12	2-ethyl-1-butene	760-21-4	0.23120	0.25129	512.00	0.27523	141.61	512.00	1,2	298.15	0.6850
8245	C6H12Br2	1,1-dibromohexane	58133-26-9	0.49841	0.26088	684.21	0.28571	261.48	684.21	1,2	298.15	1.5600
8246	C6H12Br2	1,2-dibromo-2,3-dimethylbutane	29916-45-8	0.49841	0.25388	684.21	0.28571	303.45	684.21	1,2	486.03	1.3045
8247	C6H12Br2	1,4-dibromo-2,3-dimethylbutane	54462-70-3	0.49841	0.25081	684.21	0.28571	303.45	684.21	1,2	486.03	1.3157
8248	C6H12Br2	2,3-dibromo-2,3-dimethylbutane	594-81-0	0.49841	0.21982	684.21	0.28571	444.15	684.21	1,2	486.03	1.4433
8249	C6H12Br2	1,2-dibromohexane	624-20-4	0.49841	0.25878	684.21	0.28571	303.45	684.21	1,2	486.03	1.2872
8250	C6H12Br2	1,4-dibromohexane	25118-28-9	0.49841	0.25538	684.21	0.28571	303.45	684.21	1,2	486.03	1.2991
8251	C6H12Br2	1,5-dibromohexane	627-96-3	0.49841	0.26118	684.21	0.28571	303.45	684.21	1,2	486.03	1.2788
8252	C6H12Br2	1,6-dibromohexane	629-03-8	0.49841	0.25275	684.21	0.28571	271.95	684.21	1,2	298.15	1.6025

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
8253	C6H12Br2	2,3-dibromohexane	6423-02-5	0.49841	0.25805	684.21	0.28571	303.45	684.21	1,2	469.15	1.3190
8254	C6H12Br2	2,5-dibromohexane, (R*,R**)-(±)-	54462-68-9	0.49841	0.25851	684.21	0.28571	228.51	684.21	1,2	298.15	1.5721
8255	C6H12Br2	1,2-dibromo-3,3-dimethylbutane	640-21-1	0.49841	0.25136	684.21	0.28571	303.45	684.21	1,2	486.03	1.3137
8256	C6H12Br2	3,4-dibromohexane	16230-28-7	0.49841	0.25434	684.21	0.28571	303.45	684.21	1,2	486.03	1.3029
8257	C6H12Br2	2,5-dibromohexane	24774-58-1	0.49841	0.25258	684.21	0.28571	311.15	684.21	2	481.15	1.3181
8258	C6H12Br2	1,5-dibromo-3-methylpentane	4457-72-1	0.49841	0.25321	684.21	0.28571	303.45	684.21	1,2	486.03	1.3069
8273	C6H12Cl2	1,1-dichlorohexane	62017-16-7	0.33456	0.26136	633.09	0.28571	201.72	633.09	1,2	298.15	1.0240
8274	C6H12Cl2	1,2-dichlorohexane	2162-92-7	0.33456	0.24674	633.09	0.28571	217.32	633.09	1,2	298.15	1.0744
8275	C6H12Cl2	1,6-dichlorohexane	2163-00-0	0.33456	0.24861	633.09	0.28571	217.32	633.09	1,2	298.15	1.0676
8276	C6H12Cl2	2,2-dichlorohexane	42131-89-5	0.33456	0.26415	633.09	0.28571	217.32	633.09	1,2	298.15	1.0150
8277	C6H12Cl2	2,3-dichlorohexane	54305-87-2	0.33456	0.25692	633.09	0.28571	217.32	633.09	1,2	298.15	1.0388
8278	C6H12Cl2	2,5-dichlorohexane, (R*,R*)-(±)-	41761-12-0	0.33456	0.25585	633.09	0.28571	235.15	633.09	1,2	298.15	1.0424
8279	C6H12Cl2	1,1-dichloro-3,3-dimethylbutane	6130-96-7	0.33456	0.26045	633.09	0.28571	215.10	633.09	1,2	298.15	1.0270
8280	C6H12Cl2	hexane, 2,5-dichloro-, (R*,S*)-	41761-11-9	0.33456	0.25615	633.09	0.28571	217.32	633.09	2	298.15	1.0414
8281	C6H12Cl2	2,2-dichloro-3,3-dimethylbutane	594-84-3	0.33456	0.25615	633.09	0.28571	217.32	633.09	2	298.15	1.0414
8298	C6H12F2	1,1-difluorohexane	62127-41-7	0.30693	0.25580	529.00	0.28571	206.18	529.00	1,2	298.15	0.9000
8305	C6H12I2	1,1-diiodohexane	66225-50-1	0.62414	0.26350	762.60	0.28571	258.00	762.60	1,2	298.15	1.9860
8306	C6H12I2	1,6-diiodohexane	629-09-4	0.62414	0.25632	762.60	0.28571	282.65	762.60	1,2	298.15	2.0342
8315	C6H12N2	triethylenediamine	280-57-9	0.29370	0.27870	655.00	0.28571	434.25	655.00	2	447.15	0.7373
8394	C6H12O	butyl vinyl ether	111-34-2	0.27520	0.27137	536.00	0.28570	181.25	536.00	1,2	298.15	0.7740
8395	C6H12O	sec-butyl vinyl ether	1888-85-3	0.27520	0.27459	536.00	0.28571	167.85	536.00	1,2	298.15	0.7668
8396	C6H12O	tert-butyl vinyl ether	926-02-3	0.27520	0.27566	536.00	0.28571	161.15	536.00	1,2	298.15	0.7644
8397	C6H12O	isobutyl vinyl ether	109-53-5	0.27520	0.27774	536.00	0.28571	161.15	536.00	1,2	298.15	0.7599
8398	C6H12O	3-(1-methylethoxy)-1-propene	6140-80-3	0.27520	0.27242	536.00	0.28571	167.85	536.00	1,2	298.15	0.7716
8399	C6H12O	3-propoxy-1-propene	1471-03-0	0.27520	0.27242	536.00	0.28571	167.85	536.00	1,2	298.15	0.7716
8400	C6H12O	cyclohexanol	108-93-0	0.31110	0.25769	625.15	0.28570	296.60	625.15	1,2	298.15	0.9600
8401	C6H12O	hexanal	66-25-1	0.27140	0.27117	579.00	0.24447	217.15	579.00	1,2	298.15	0.8100
8402	C6H12O	2-methylpentanal	123-15-9	0.26186	0.25011	569.05	0.28571	183.88	569.05	1,2	298.15	0.8034
8403	C6H12O	3-methylpentanal	15877-57-3	0.26186	0.25240	576.34	0.28571	183.88	576.34	1,2	298.15	0.8010
8404	C6H12O	4-methylpentanal	1119-16-0	0.26186	0.25279	576.34	0.28571	183.88	576.34	1,2	298.15	0.8000
8405	C6H12O	2-ethylbutanal	97-96-1	0.26186	0.24731	568.76	0.28571	184.15	568.76	1,2	298.15	0.8106
8406	C6H12O	2,2-dimethylbutanal	2094-75-9	0.26533	0.25313	558.82	0.28571	201.30	558.82	1,2	298.15	0.8010
8407	C6H12O	2,3-dimethylbutanal	2109-98-0	0.26603	0.25336	567.64	0.28571	168.88	567.64	1,2	298.15	0.8070
8408	C6H12O	3,3-dimethylbutanal	2987-16-8	0.26533	0.25040	558.82	0.28571	201.30	558.82	1,2	298.15	0.8080
8409	C6H12O	2-hexanone	591-78-6	0.27140	0.26067	587.05	0.29630	217.35	587.05	1,2	298.15	0.8070
8410	C6H12O	3-hexanone	589-38-8	0.27520	0.26563	582.82	0.28660	217.50	582.82	1,2	298.15	0.8100
8411	C6H12O	3-methyl-2-pentanone	565-61-7	0.27218	0.26455	579.90	0.28571	167.15	579.90	1,2	298.15	0.8030
8412	C6H12O	4-methyl-2-pentanone	108-10-1	0.27140	0.26488	571.40	0.28571	189.15	571.40	1,2	298.15	0.7960
8413	C6H12O	ethyl isopropyl ketone	565-69-5	0.27140	0.24511	567.00	0.34305	191.81	567.00	1,2	298.15	0.8060
8414	C6H12O	3,3-dimethyl-2-butanone	75-97-8	0.26853	0.25939	571.50	0.28571	221.15	571.50	1,2	298.15	0.8011
8415	C6H12O	3-methyl-2-pentanone, (±)	55156-16-6	0.27168	0.26116	576.61	0.28571	200.69	576.61	1,2	298.15	0.8085
8416	C6H12O	2-ethyltetrahydrofuran	1003-30-1	0.30033	0.27780	580.07	0.28571	170.82	580.07	1,2	298.15	0.8516
8417	C6H12O	3-ethyltetrahydrofuran	93716-28-0	0.30033	0.28777	590.70	0.28571	170.82	590.70	2	298.15	0.8321
8418	C6H12O	2,2-dimethyltetrahydrofuran	1003-17-4	0.30214	0.28482	563.41	0.28571	159.15	563.41	2	298.15	0.8318
8419	C6H12O	2,3-dimethyltetrahydrofuran	---	0.30124	0.28376	563.40	0.28571	154.45	563.40	2	298.15	0.8318
8420	C6H12O	2,4-dimethyltetrahydrofuran	64265-26-5	0.30124	0.28399	564.54	0.28571	154.45	564.54	2	298.15	0.8318
8421	C6H12O	2,5-dimethyltetrahydrofuran	1003-38-9	0.30124	0.28242	556.78	0.28571	154.45	556.78	2	298.15	0.8317
8422	C6H12O	3,3-dimethyltetrahydrofuran	15833-75-7	0.30214	0.28685	573.90	0.28571	154.45	573.90	2	298.15	0.8319
8423	C6H12O	3,4-dimethyltetrahydrofuran	32970-37-9	0.30124	0.28713	581.14	0.28571	154.45	581.14	2	298.15	0.8320
8425	C6H12O	1-hexen-3-ol	4798-44-1	0.32965	0.32197	587.00	0.28571	200.15	587.00	1,2	298.15	0.8317
8426	C6H12O	cis-2-hexen-1-ol	928-94-9	0.32965	0.31656	587.00	0.28571	200.15	587.00	1,2	298.15	0.8433
8427	C6H12O	trans-2-hexen-1-ol	928-95-0	0.32965	0.31715	587.00	0.28571	200.15	587.00	1,2	298.15	0.8420
8428	C6H12O	cis-3-hexen-1-ol	928-96-1	0.32965	0.31558	587.00	0.28571	200.15	587.00	1,2	298.15	0.8454
8429	C6H12O	trans-4-hexen-1-ol	928-92-7	0.32965	0.31471	587.00	0.28571	200.15	587.00	1,2	298.15	0.8474
8430	C6H12O	4-hexen-2-ol	52387-50-5	0.32965	0.32035	587.00	0.28571	200.15	587.00	1,2	298.15	0.8352
8431	C6H12O	5-hexen-2-ol	626-94-8	0.32965	0.32036	587.00	0.28571	200.15	587.00	1,2	298.15	0.8351
8432	C6H12O	2-methyl-2-penten-1-ol	1610-29-3	0.32965	0.31382	587.00	0.28571	200.15	587.00	1,2	298.15	0.8493
8433	C6H12O	2-methyl-3-penten-2-ol	63468-05-3	0.32965	0.32235	587.00	0.28571	200.15	587.00	1,2	298.15	0.8309
8434	C6H12O	2-methyl-4-penten-2-ol	624-97-5	0.32965	0.32458	587.00	0.28571	200.15	587.00	1,2	298.15	0.8263
8435	C6H12O	3-methyl-3-penten-2-ol	2747-53-7	0.32965	0.30081	587.00	0.28571	200.15	587.00	1,2	298.15	0.8792
8436	C6H12O	3-methyl-4-penten-2-ol	1569-59-1	0.32965	0.31782	587.00	0.28571	200.15	587.00	1,2	298.15	0.8406
8437	C6H12O	4-methyl-2-penten-1-ol	5362-55-0	0.32965	0.31720	587.00	0.28571	200.15	587.00	1,2	298.15	0.8419
8438	C6H12O	4-methyl-3-penten-2-ol	4325-82-0	0.32965	0.32163	587.00	0.28571	200.15	587.00	1,2	298.15	0.8324
8439	C6H12O	4-methyl-3-pentenol	763-89-3	0.32965	0.31127	587.00	0.28571	200.15	587.00	1,2	298.15	0.8550
8440	C6H12O	4-methyl-4-penten-2-ol	2004-67-3	0.32965	0.31821	587.00	0.28571	200.15	587.00	1,2	298.15	0.8397
8449	C6H12O	5-hexen-1-ol	821-41-0	0.32965	0.32089	587.00	0.28571	200.15	587.00	1,2	298.15	0.8340
8450	C6H12O	trans-3-hexen-1-ol	928-97-2	0.32965	0.32909	587.00	0.28571	200.15	587.00	1,2	298.15	0.8170
8451	C6H12O	3-methyl-1-penten-3-ol	918-85-4	0.33510	0.32549	587.00	0.28571	200.15	587.00	1,2	298.15	0.8380
8453	C6H12O	2,2-dimethyl-3-butanone	75-97-8	0.27168	0.25223	576.61	0.28571	200.69	576.61	2	298.15	0.8317
8460	C6H12O2	hexanoic acid	142-62-1	0.29860	0.26532	667.00	0.27650	270.15	667.00	1,2	298.15	0.9210
8461	C6H12O2	2-ethyl butyric acid	88-09-5	0.29860	0.25720	655.00	0.31103	258.15	655.00	1,2	298.15	0.9190
8462	C6H12O2	tert-butylacetic acid	1070-83-3	0.29860	0.26698	661.00	0.28571	279.65	661.00	1,2	298.15	0.9084
8463	C6H12O2	2,2-dimethylbutanoic acid	595-37-9	0.29860	0.26181	661.00	0.28571	259.15	661.00	1,2	298.15	0.9235
8464	C6H12O2	2,3-dimethylbutanoic acid	14287-61-7	0.29860	0.26185	661.00	0.28571	272.35	661.00	1,2	298.15	0.9234
8465	C6H12O2	2-methylpentanoic acid, (±)	22160-39-0	0.29860	0.26336	661.00	0.28571	255.35	661.00	1,2	298.15	0.9189
8466	C6H12O2	3-methylpentanoic acid, (±)	22160-40-3	0.29860	0.26228	661.00	0.28571	231.55	661.00	1,2	298.15	0.9221
8467	C6H12O2	4-methylpentanoic acid	646-07-1	0.29860	0.26353	661.00	0.28571	240.15	661.00	1,2	298.15	0.9184
8468	C6H12O2	pentyl formate	638-49-3	0.29860	0.25797	576.00	0.30860	199.65	576.00	1,2	298.15	0.8810
8469	C6H12O2	1-methylbutyl formate	58368-66-4	0.30016	0.24727	574.00	0.28571	200.58	574.00	2	298.15	0.9323
8470	C6H12O2	2-methylbutyl formate	35073-27-9	0.30016	0.24782	577.00	0.28571	200.58	577.00	2	298.15	0.9323

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
8471	C6H12O2	isopentyl formate	110-45-2	0.30016	0.26835	578.00	0.28571	179.65	578.00	1,2	298.15	0.8744
8472	C6H12O2	1-ethylpropyl formate	58368-67-5	0.30329	0.25138	579.00	0.28571	200.58	579.00	2	298.15	0.9323
8473	C6H12O2	1,1-dimethylpropyl formate	757-88-0	0.30250	0.26591	570.00	0.28571	218.00	570.00	1,2	298.15	0.8837
8474	C6H12O2	1,2-dimethylpropyl formate	66794-46-5	0.30488	0.25189	573.00	0.28571	185.58	573.00	2	298.15	0.9323
8475	C6H12O2	2,2-dimethylpropyl formate	23361-67-3	0.29557	0.24281	575.00	0.28571	218.00	575.00	2	298.15	0.9323
8476	C6H12O2	butyl acetate	123-86-4	0.29860	0.26044	579.65	0.30900	199.65	579.65	1,2	298.15	0.8760
8477	C6H12O2	isobutyl acetate	110-19-0	0.29860	0.26593	561.00	0.28366	174.30	561.00	1,2	298.15	0.8690
8478	C6H12O2	sec-butyl acetate	105-46-4	0.29860	0.26083	561.00	0.30420	174.15	561.00	1,2	298.15	0.8680
8479	C6H12O2	tert-butyl acetate	540-88-5	0.29860	0.26943	545.00	0.26996	201.63	545.00	1,2	298.15	0.8610
8480	C6H12O2	propyl propanoate	106-36-5	0.29860	0.26144	578.00	0.30232	197.25	578.00	1,2	298.15	0.8770
8481	C6H12O2	isopropyl propanoate	637-78-5	0.29633	0.26459	553.00	0.28571	184.21	553.00	1,2	298.15	0.8601
8482	C6H12O2	ethyl butanoate	105-54-4	0.27590	0.24632	571.00	0.26390	175.15	571.00	1,2	298.15	0.8740
8483	C6H12O2	ethyl isobutanoate	97-62-1	0.28330	0.24914	553.15	0.28571	185.00	553.15	1,2	298.15	0.8630
8484	C6H12O2	cyclohexyl peroxide	766-07-4	0.33960	0.27554	685.00	0.28571	253.15	685.00	1,2	298.15	1.0150
8485	C6H12O2	diacetone alcohol	123-42-2	0.30020	0.26043	606.00	0.25110	229.15	606.00	1,2	298.15	0.9340
8497	C6H12O2	methyl 2,2-dimethylpropanoate	598-98-1	0.29746	0.25695	565.50	0.28571	190.73	565.50	1,2	298.15	0.8910
8498	C6H12O2	methyl isopentanoate	556-24-1	0.29320	0.25925	572.95	0.28571	250.00	572.95	1,2	298.15	0.8758
8499	C6H12O2	methyl pentanoate	624-24-8	0.29320	0.25432	572.95	0.28571	250.00	572.95	1,2	298.15	0.8896
8513	C6H12O2	methyl 2-methylbutyrate	868-57-5	0.29320	0.25595	572.95	0.28571	250.00	572.95	1,2	298.15	0.8850
8514	C6H12O2	(±)-3-methylvaleric acid	105-43-1	0.29860	0.25965	661.00	0.28571	231.65	661.00	1,2	298.15	0.9300
8515	C6H12O2	2-methylvaleric acid	97-61-0	0.29860	0.26539	661.00	0.28571	255.35	661.00	1,2	298.15	0.9130
8531	C6H12O3	2-ethoxyethyl acetate	111-15-9	0.32310	0.26194	597.00	0.28570	211.45	597.00	1,2	298.15	0.9700
8532	C6H12O3	hydroxycaproic acid	1191-25-9	0.32880	0.27246	758.00	0.28571	334.00	758.00	2	576.00	0.7809
8533	C6H12O3	paraldehyde	123-63-7	0.36210	0.28496	579.00	0.31341	285.75	579.00	1,2	298.15	0.9850
8621	C6H12S	thiacycloheptane	4753-80-4	0.29690	0.32183	640.07	0.28571	292.14	640.07	1,2	298.15	0.7660
8622	C6H12S	2-ethylthiacyclopentane	1551-32-2	0.32420	0.28281	659.28	0.28571	251.23	659.28	1,2	298.15	0.9390
8623	C6H12S	3-ethylthiacyclopentane	62184-67-2	0.32420	0.28220	671.54	0.28571	251.23	671.54	1,2	298.15	0.9450
8624	C6H12S	2,2-dimethylthiacyclopentane	5161-75-1	0.32602	0.28753	623.18	0.28571	275.13	623.18	1,2	298.15	0.9177
8625	C6H12S	2,cis-3-dimethylthiacyclopentane	5161-77-3	0.32511	0.28412	607.56	0.28571	246.99	607.56	1,2	298.15	0.9177
8626	C6H12S	2,trans-3-dimethylthiacyclopentane	5161-78-4	0.32511	0.28412	607.56	0.28571	246.99	607.56	1,2	298.15	0.9177
8627	C6H12S	2,cis-4-dimethylthiacyclopentane	5161-79-5	0.32511	0.28412	607.56	0.28571	246.99	607.56	1,2	298.15	0.9177
8628	C6H12S	2,trans-4-dimethylthiacyclopentane	5161-80-8	0.32511	0.28412	607.56	0.28571	246.99	607.56	1,2	298.15	0.9177
8629	C6H12S	2,cis-5-dimethylthiacyclopentane	5161-13-7	0.32511	0.28888	639.17	0.28571	183.75	639.17	1,2	298.15	0.9177
8630	C6H12S	2,trans-5-dimethylthiacyclopentane	5161-14-8	0.32511	0.29009	638.36	0.28571	196.80	638.36	1,2	298.15	0.9142
8631	C6H12S	3,3-dimethylthiacyclopentane	5161-76-2	0.32602	0.28886	623.18	0.28571	275.13	623.18	1,2	298.15	0.9142
8632	C6H12S	3,cis-4-dimethylthiacyclopentane	5161-11-5	0.32511	0.28544	607.56	0.28571	246.99	607.56	1,2	298.15	0.9142
8633	C6H12S	3,trans-4-dimethylthiacyclopentane	5161-12-6	0.32511	0.28544	607.56	0.28571	246.99	607.56	1,2	298.15	0.9142
8634	C6H12S	2-methylthiacyclohexane	5161-16-0	0.33160	0.29099	660.59	0.28571	215.01	660.59	1,2	298.15	0.9381
8635	C6H12S	3-methylthiacyclohexane	5258-50-4	0.33160	0.29017	668.34	0.28571	212.98	668.34	1,2	298.15	0.9430
8636	C6H12S	4-methylthiacyclohexane	5161-17-1	0.33160	0.29039	669.27	0.28571	245.05	669.27	1,2	298.15	0.9427
8647	C6H13Br	1-bromohexane	111-25-1	0.38079	0.25918	623.86	0.28571	188.45	623.86	1,2	298.15	1.1687
8648	C6H13Br	2-bromohexane	3377-86-4	0.38614	0.26421	612.00	0.28571	201.68	612.00	1,2	298.15	1.1598
8649	C6H13Br	3-bromohexane	3377-87-5	0.38614	0.26158	608.18	0.28571	201.68	608.18	1,2	298.15	1.1672
8650	C6H13Br	1-bromo-2-methylpentane	25346-33-2	0.38614	0.26091	612.15	0.28571	201.68	612.15	1,2	298.15	1.1720
8651	C6H13Br	1-bromo-3-methylpentane	51116-73-5	0.38614	0.26046	618.02	0.28571	201.68	618.02	1,2	298.15	1.1770
8652	C6H13Br	1-bromo-4-methylpentane	626-88-0	0.38614	0.26419	616.55	0.28571	201.68	616.55	1,2	298.15	1.1624
8653	C6H13Br	2-bromo-2-methylpentane	4283-80-1	0.39071	0.26131	595.92	0.28571	219.10	595.92	1,2	298.15	1.1746
8654	C6H13Br	2-bromo-3-methylpentane	62168-41-6	0.39163	0.26310	594.59	0.28571	186.68	594.59	1,2	298.15	1.1700
8655	C6H13Br	2-bromo-4-methylpentane	30310-22-6	0.39163	0.26898	597.83	0.28571	178.95	597.83	1,2	298.15	1.1509
8656	C6H13Br	3-bromo-2-methylpentane	4283-83-4	0.39163	0.26310	594.59	0.28571	186.68	594.59	1,2	298.15	1.1700
8657	C6H13Br	3-bromo-3-methylpentane	25346-31-0	0.39071	0.26063	595.92	0.28571	180.95	595.92	1,2	298.15	1.1771
8658	C6H13Br	1-bromo-2,2-dimethylbutane	62168-42-7	0.38614	0.26061	601.65	0.28571	201.68	601.65	1,2	298.15	1.1669
8659	C6H13Br	1-bromo-2,3-dimethylbutane	30540-31-9	0.39071	0.26042	616.11	0.28571	219.10	616.11	1,2	298.15	1.1900
8660	C6H13Br	1-bromo-3,3-dimethylbutane	1647-23-0	0.39163	0.27078	606.70	0.28571	186.68	606.70	1,2	298.15	1.1497
8661	C6H13Br	2-bromo-2,3-dimethylbutane	594-52-5	0.39071	0.25975	595.92	0.28571	298.15	595.92	1,2	406.15	1.0328
8662	C6H13Br	2-bromo-3,3-dimethylbutane	26356-06-9	0.39633	0.26938	609.30	0.28571	298.15	609.30	1,2	405.15	1.0348
8663	C6H13Br	1-bromo-2-ethylbutane	3814-34-4	0.39633	0.26931	626.30	0.28571	204.10	626.30	1,2	298.15	1.1796
8669	C6H13Cl	1-chlorohexane	544-10-5	0.28685	0.25716	596.19	0.28571	179.15	596.19	1,2	298.15	0.8739
8670	C6H13Cl	2-chlorohexane	638-28-8	0.29101	0.26283	584.57	0.28571	171.80	584.57	1,2	298.15	0.8654
8671	C6H13Cl	3-chlorohexane	2346-81-8	0.29101	0.26309	583.10	0.28571	171.80	583.10	1,2	298.15	0.8640
8672	C6H13Cl	1-chloro-2-methylpentane	14753-05-0	0.29101	0.26006	578.68	0.28571	171.80	578.68	1,2	298.15	0.8700
8673	C6H13Cl	1-chloro-3-methylpentane	62016-93-7	0.29101	0.25968	591.93	0.28571	171.80	591.93	1,2	298.15	0.8775
8674	C6H13Cl	1-chloro-4-methylpentane	62016-94-8	0.29101	0.26139	586.04	0.28571	171.80	586.04	1,2	298.15	0.8700
8675	C6H13Cl	2-chloro-2-methylpentane	4325-48-8	0.29456	0.26784	575.46	0.28571	189.22	575.46	1,2	298.15	0.8582
8676	C6H13Cl	2-chloro-3-methylpentane	24319-09-3	0.29528	0.26192	563.86	0.28571	156.80	563.86	1,2	298.15	0.8700
8677	C6H13Cl	2-chloro-4-methylpentane	25346-32-1	0.29528	0.26903	572.99	0.28571	156.80	572.99	1,2	298.15	0.8560
8678	C6H13Cl	3-chloro-2-methylpentane	38384-05-3	0.29528	0.26337	571.28	0.28571	156.80	571.28	1,2	298.15	0.8700
8679	C6H13Cl	3-chloro-3-methylpentane	918-84-3	0.29456	0.26386	582.19	0.28571	189.22	582.19	1,2	298.15	0.8720
8680	C6H13Cl	1-chloro-2-ethylbutane	4737-41-1	0.29101	0.25573	587.51	0.28571	171.80	587.51	1,2	298.15	0.8864
8681	C6H13Cl	1-chloro-2,2-dimethylbutane	6366-35-4	0.29456	0.26317	583.68	0.28571	189.22	583.68	1,2	298.15	0.8746
8682	C6H13Cl	1-chloro-2,3-dimethylbutane	600-06-6	0.29528	0.29050	586.34	0.28571	156.80	586.34	1,2	298.15	0.8100
8683	C6H13Cl	1-chloro-3,3-dimethylbutane	2855-08-5	0.29456	0.26752	583.68	0.28571	189.22	583.68	1,2	298.15	0.8630
8684	C6H13Cl	2-chloro-2,3-dimethylbutane	594-57-0	0.29894	0.29263	581.14	0.28571	262.75	581.14	1,2	298.15	0.8130
8685	C6H13Cl	2-chloro-3,3-dimethylbutane	5750-00-5	0.29894	0.26833	579.63	0.28571	272.25	579.63	1,2	298.15	0.8717
8705	C6H13F	1-fluorohexane	373-14-8	0.26847	0.25274	528.10	0.28571	170.15	528.10	1,2	298.15	0.7942
8706	C6H13F	2-fluorohexane	372-54-3	0.27162	0.25998	528.59	0.28571	169.15	528.59	1,2	298.15	0.7861
8707	C6H13F	3-fluorohexane	52688-75-2	0.27162	0.25715	523.73	0.28571	169.15	523.73	1,2	298.15	0.7900
8708	C6H13F	1-fluoro-2-methylpentane	62127-27-9	0.27162	0.26102	522.41	0.28571	174.03	522.41	1,2	298.15	0.7800
8709	C6H13F	1-fluoro-3-methylpentane	62127-28-0	0.27162	0.26285	529.76	0.28571	174.03	529.76	1,2	298.15	0.7800
8710	C6H13F	1-fluoro-4-methylpentane	62127-29-1	0.27162	0.26176	525.35	0.28571	174.03	525.35	1,2	298.15	0.7800

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
8711	C6H13F	2-fluoro-2-methylpentane	62127-30-4	0.27521	0.26563	523.26	0.28571	191.45	523.26	1,2	298.15	0.7800
8712	C6H13F	2-fluoro-3-methylpentane	62127-31-5	0.27594	0.26543	519.00	0.28571	159.03	519.00	1,2	298.15	0.7800
8713	C6H13F	2-fluoro-4-methylpentane	62127-32-6	0.27594	0.26543	519.00	0.28571	159.03	519.00	1,2	298.15	0.7800
8714	C6H13F	3-fluoro-2-methylpentane	62127-33-7	0.27594	0.26350	511.81	0.28571	159.03	511.81	1,2	298.15	0.7800
8715	C6H13F	3-fluoro-3-methylpentane	19031-61-9	0.27521	0.26164	508.31	0.28571	191.45	508.31	1,2	298.15	0.7800
8716	C6H13F	1-fluoro-2,2-dimethylbutane	62127-34-8	0.27162	0.25904	514.83	0.28571	174.03	514.83	1,2	298.15	0.7800
8717	C6H13F	1-fluoro-2,3-dimethylbutane	62127-35-9	0.27521	0.26718	529.46	0.28571	191.45	529.46	1,2	298.15	0.7800
8718	C6H13F	1-fluoro-3,3-dimethylbutane	371-64-2	0.27594	0.26651	517.29	0.28571	159.03	517.29	1,2	298.15	0.7765
8719	C6H13F	2-fluoro-2,3-dimethylbutane	354-09-6	0.27521	0.26164	508.31	0.28571	191.45	508.31	1,2	298.15	0.7800
8720	C6H13F	2-fluoro-3,3-dimethylbutane	92089-78-6	0.27964	0.26956	517.40	0.28571	176.45	517.40	1,2	298.15	0.7800
8721	C6H13F	1-fluoro-2-ethylbutane	---	0.27964	0.26498	501.01	0.28571	176.45	501.01	1,2	298.15	0.7800
8724	C6H13I	1-iodohexane	638-45-9	0.54308	0.31109	625.21	0.28571	198.95	625.21	1,2	298.15	1.4331
8725	C6H13I	2-iodohexane	59654-13-6	0.55156	0.32055	611.98	0.28571	199.94	611.98	1,2	298.15	1.4121
8726	C6H13I	3-iodohexane	31294-91-4	0.55156	0.31816	610.59	0.28571	199.94	610.59	1,2	298.15	1.4200
8727	C6H13I	1-iodo-2-methylpentane	31294-94-7	0.55156	0.31816	610.59	0.28571	199.94	610.59	1,2	298.15	1.4200
8728	C6H13I	1-iodo-3-methylpentane	24346-53-0	0.55156	0.32698	618.90	0.28571	199.94	618.90	1,2	298.15	1.3930
8729	C6H13I	1-iodo-4-methylpentane	6196-80-1	0.55156	0.31883	617.65	0.28571	199.94	617.65	1,2	298.15	1.4217
8730	C6H13I	2-iodo-2-methylpentane	31294-95-8	0.55882	0.32113	597.98	0.28571	217.36	597.98	1,2	298.15	1.4200
8731	C6H13I	2-iodo-3-methylpentane	24319-07-1	0.56030	0.32207	597.44	0.28571	184.94	597.44	1,2	298.15	1.4200
8732	C6H13I	2-iodo-4-methylpentane	31294-96-9	0.56030	0.32236	599.13	0.28571	184.94	599.13	1,2	298.15	1.4200
8733	C6H13I	3-iodo-2-methylpentane	31294-97-0	0.56030	0.32207	597.44	0.28571	184.94	597.44	1,2	298.15	1.4200
8734	C6H13I	3-iodo-3-methylpentane	24319-05-2	0.55882	0.32113	597.98	0.28571	217.36	597.98	1,2	298.15	1.4200
8735	C6H13I	1-iodo-2,2-dimethylbutane	31294-98-1	0.55156	0.31541	594.30	0.28571	199.94	594.30	1,2	298.15	1.4200
8736	C6H13I	1-iodo-2,3-dimethylbutane	31295-00-8	0.55882	0.32383	614.19	0.28571	217.36	614.19	1,2	298.15	1.4200
8737	C6H13I	1-iodo-3,3-dimethylbutane	15672-88-5	0.56030	0.32377	607.49	0.28571	184.94	607.49	1,2	298.15	1.4200
8738	C6H13I	2-iodo-2,3-dimethylbutane	594-59-2	0.55882	0.31544	597.98	0.28571	217.36	597.98	1,2	298.15	1.4410
8739	C6H13I	2-iodo-3,3-dimethylbutane	24556-56-7	0.56780	0.32919	608.43	0.28571	202.36	608.43	1,2	298.15	1.4200
8740	C6H13I	1-iodo-2-ethylbutane	---	0.56780	0.32629	619.72	0.28571	202.36	619.72	1,2	298.15	1.4370
8742	C6H13N	cyclohexylamine	108-91-8	0.27550	0.25503	615.00	0.27070	255.45	615.00	1,2	298.15	0.8630
8745	C6H13N	hexamethyleneimine	111-49-9	0.27470	0.25332	615.00	0.25620	236.15	615.00	1,2	298.15	0.8750
8790	C6H13NO2	1-nitrohexane	646-14-0	0.28925	0.24815	659.32	0.28571	300.49	659.32	1,2	466.65	0.7712
8791	C6H13NO2	2-nitrohexane	14255-44-8	0.29313	0.25443	639.00	0.28571	285.49	639.00	1,2	298.15	0.9200
8792	C6H13NO2	3-nitrohexane	7286-40-0	0.29313	0.25051	639.00	0.28571	285.49	639.00	1,2	298.15	0.9320
8793	C6H13NO2	1-nitro-2-methylpentane	---	0.29313	0.22956	634.51	0.28571	285.49	634.51	2	298.15	1.0004
8794	C6H13NO2	1-nitro-3-methylpentane	---	0.29313	0.22956	634.51	0.28571	285.49	634.51	2	298.15	1.0004
8795	C6H13NO2	1-nitro-4-methyl pentane	---	0.29313	0.22956	634.51	0.28571	285.49	634.51	2	298.15	1.0004
8796	C6H13NO2	2-nitro-2-methylpentane	---	0.29644	0.23388	643.67	0.28571	302.91	643.67	2	446.00	0.8361
8797	C6H13NO2	2-nitro-3-methylpentane	42202-42-6	0.29711	0.23336	634.96	0.28571	270.49	634.96	2	298.15	1.0004
8798	C6H13NO2	2-nitro-4-methylpentane	---	0.29711	0.23333	634.74	0.28571	270.49	634.74	2	298.15	1.0004
8799	C6H13NO2	3-nitro-2-methylpentane	---	0.29711	0.23333	634.74	0.28571	270.49	634.74	2	298.15	1.0004
8800	C6H13NO2	3-nitro-3-methylpentane	---	0.29644	0.23331	639.34	0.28571	302.91	639.34	2	443.00	0.8376
8801	C6H13NO2	1-nitro-2,2-dimethylbutane	2625-29-8	0.29644	0.23315	638.11	0.28571	302.91	638.11	2	442.15	0.8380
8802	C6H13NO2	1-nitro-2,3-dimethylbutane	66553-34-2	0.29711	0.24757	643.56	0.28571	270.49	643.56	1,2	298.15	0.9560
8803	C6H13NO2	1-nitro-3,3-dimethylbutane	---	0.29644	0.23369	642.23	0.28571	302.91	642.23	2	445.00	0.8366
8804	C6H13NO2	2-nitro-2,3-dimethylbutane	34075-28-0	0.30052	0.23763	642.93	0.28571	280.15	642.93	2	298.15	1.0004
8805	C6H13NO2	2-nitro-3,3-dimethylbutane	599-02-0	0.30052	0.23647	634.21	0.28571	313.15	634.21	2	436.15	0.8452
8806	C6H13NO2	1-nitro-2-ethylbutane	---	0.29313	0.22937	633.09	0.28571	285.49	633.09	2	298.15	1.0004
8877	C6H14	hexane	110-54-3	0.23300	0.26601	507.43	0.27810	177.84	507.43	1,2	298.15	0.6560
8878	C6H14	2,2-dimethylbutane	75-83-2	0.24020	0.27703	488.78	0.27990	174.28	488.78	1,2	298.15	0.6440
8879	C6H14	2,3-dimethylbutane	79-29-8	0.24090	0.27196	499.98	0.28571	145.19	499.98	1,2	298.15	0.6580
8880	C6H14	2-methylpentane	107-83-5	0.23520	0.26819	497.50	0.28570	119.55	497.50	1,2	298.15	0.6480
8881	C6H14	3-methylpentane	96-14-0	0.23520	0.26597	504.43	0.27917	110.25	504.43	1,2	298.15	0.6600
8944	C6H14N2O2	lysine	56-87-1	0.29120	0.24083	821.00	0.28571	483.00	821.00	2	615.00	0.7598
8970	C6H14O	1-hexanol	111-27-3	0.26800	0.26724	611.35	0.25400	228.55	611.35	1,2	298.15	0.8160
8971	C6H14O	2-hexanol	626-93-7	0.26890	0.26306	586.20	0.26945	223.00	586.20	1,2	298.15	0.8100
8972	C6H14O	3-hexanol	623-37-0	0.26609	0.25276	579.30	0.28571	202.70	579.30	1,2	298.15	0.8144
8973	C6H14O	2-methyl-1-pentanol	105-30-6	0.26890	0.25176	582.00	0.28570	202.70	582.00	1,2	298.15	0.8270
8974	C6H14O	3-methyl-1-pentanol	589-35-5	0.27247	0.26218	603.20	0.28571	202.70	603.20	1,2	298.15	0.8200
8975	C6H14O	4-methyl-1-pentanol	626-89-1	0.26889	0.26211	603.50	0.28571	202.70	603.50	1,2	298.15	0.8095
8976	C6H14O	4-methyl-2-pentanol	108-11-2	0.26890	0.25883	574.40	0.28571	183.15	574.40	1,2	298.15	0.8050
8977	C6H14O	2-methyl-2-pentanol	590-36-3	0.26889	0.25413	559.50	0.28571	171.15	559.50	1,2	298.15	0.8095
8978	C6H14O	3-methyl-2-pentanol	565-60-6	0.27393	0.25767	578.00	0.28571	187.70	578.00	1,2	298.15	0.8248
8979	C6H14O	2-methyl-3-pentanol	565-67-3	0.27031	0.25283	564.40	0.28571	187.70	564.40	1,2	298.15	0.8197
8980	C6H14O	3-methyl-3-pentanol	77-74-7	0.27541	0.25677	562.40	0.28571	249.55	562.40	1,2	298.15	0.8238
8981	C6H14O	2-ethyl-1-butanol	97-95-0	0.26890	0.26032	580.00	0.24730	158.75	580.00	1,2	298.15	0.8290
8982	C6H14O	2,2-dimethyl-1-butanol	1185-33-7	0.27175	0.25718	589.00	0.28571	220.12	589.00	1,2	298.15	0.8246
8983	C6H14O	2,3-dimethyl-1-butanol	19550-30-2	0.27393	0.26106	599.00	0.28571	187.70	599.00	1,2	298.15	0.8255
8984	C6H14O	2,3-dimethyl-1-butanol, (±)-	20281-85-0	0.27079	0.25462	581.80	0.28571	213.40	581.80	1,2	298.15	0.8251
8985	C6H14O	3,3-dimethyl-1-butanol	624-95-3	0.27175	0.26274	587.60	0.28571	213.15	587.60	1,2	298.15	0.8097
8986	C6H14O	2,3-dimethyl-2-butanol	594-60-5	0.27320	0.25677	564.40	0.28571	262.75	564.40	1,2	298.15	0.8182
8987	C6H14O	3,3-dimethyl-2-butanol	464-07-3	0.27320	0.25885	566.40	0.28571	278.45	566.40	1,2	298.15	0.8139
8988	C6H14O	3,3-dimethyl-2-butanol, (±)	20281-91-8	0.27079	0.25959	581.80	0.28571	278.75	581.80	1,2	298.15	0.8122
8989	C6H14O	(RS)-2-hexanol	20281-86-1	0.27079	0.25989	581.80	0.28571	213.40	581.80	1,2	298.15	0.8114
8990	C6H14O	2-hexanol, (R)	26549-24-6	0.27079	0.25984	581.80	0.28571	213.40	581.80	1,2	298.15	0.8115
8991	C6H14O	3-hexanol, (R)	13471-42-6	0.27079	0.25780	581.80	0.28571	213.40	581.80	1,2	298.15	0.8168
8992	C6H14O	3-methyl-1-pentanol, (±)	20281-83-8	0.27079	0.25670	581.80	0.28571	213.40	581.80	1,2	298.15	0.8196
8993	C6H14O	dipropyl ether	111-43-3	0.26750	0.27532	530.60	0.28570	149.95	530.60	1,2	298.15	0.7410
8994	C6H14O	propyl isopropyl ether	627-08-7	0.26643	0.27523	518.96	0.28571	164.11	518.96	1,2	298.15	0.7320
8995	C6H14O	diisopropyl ether	108-20-3	0.26470	0.27296	500.05	0.28571	187.65	500.05	1,2	298.15	0.7210
8996	C6H14O	methyl pentyl ether	628-80-8	0.26233	0.26477	542.62	0.28571	179.11	542.62	1,2	298.15	0.7558

Table 3 Density of Liquid - Organic Compounds

			density = A B^-(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
8997	C6H14O	methyl 1-methylbutyl ether	6795-88-6	0.26643	0.27086	535.12	0.28571	164.11	535.12	1,2	298.15	0.7500
8998	C6H14O	methyl 2-methylbutyl ether	62016-48-2	0.26643	0.27234	533.65	0.28571	164.11	533.65	1,2	298.15	0.7460
8999	C6H14O	methyl 3-methylbutyl ether	626-91-5	0.26643	0.27188	533.65	0.28571	164.11	533.65	1,2	298.15	0.7470
9000	C6H14O	methyl 1-ethylpropyl ether	36839-67-5	0.26643	0.27025	530.71	0.28571	164.11	530.71	1,2	298.15	0.7490
9001	C6H14O	methyl 1,2-dimethylpropyl ether	62016-49-3	0.27067	0.27257	527.59	0.28571	149.11	527.59	1,2	298.15	0.7541
9002	C6H14O	methyl tert-pentyl ether	994-05-8	0.26750	0.26481	534.00	0.28571	167.53	534.00	1,2	298.15	0.7660
9003	C6H14O	methyl 2,2-dimethylpropyl ether	1118-00-9	0.26995	0.27277	531.90	0.28571	181.53	531.90	1,2	298.15	0.7540
9004	C6H14O	ethyl butyl ether	628-81-9	0.26750	0.27355	531.00	0.28570	170.15	531.00	1,2	298.15	0.7450
9005	C6H14O	ethyl isobutyl ether	627-02-1	0.26643	0.27551	520.57	0.28571	164.11	520.57	1,2	298.15	0.7323
9006	C6H14O	ethyl sec-butyl ether	2679-87-0	0.26643	0.27298	520.72	0.28571	164.11	520.72	1,2	298.15	0.7377
9007	C6H14O	ethyl tert-butyl ether	637-92-3	0.26995	0.27791	516.67	0.28571	179.15	516.67	1,2	298.15	0.7348
9008	C6H14O	(S)-(+)-2-hexanol	52019-78-0	0.27079	0.25888	581.80	0.28571	213.40	581.80	1,2	298.15	0.8140
9009	C6H14O	tert-hexyl alcohol	26401-20-7	0.27079	0.26891	581.80	0.28571	213.40	581.80	2	298.15	0.7892
9020	C6H14O2	acetal	105-57-7	0.29400	0.27499	541.00	0.28571	173.15	541.00	1,2	298.15	0.8210
9021	C6H14O2	2-butoxyethanol	111-76-2	0.29017	0.26108	600.00	0.25455	203.15	600.00	1,2	298.15	0.8960
9022	C6H14O2	hexylene glycol	107-41-5	0.29690	0.25646	621.00	0.28570	223.15	621.00	1,2	298.15	0.9180
9023	C6H14O2	1,2-hexanediol	6920-22-5	0.29288	0.25403	650.10	0.28571	318.15	650.10	2	497.15	0.7249
9024	C6H14O2	1,3-hexanediol	21531-91-9	0.29288	0.24620	664.48	0.28571	263.52	664.48	1,2	298.15	0.9554
9025	C6H14O2	1,4-hexanediol	16432-53-4	0.29288	0.24451	691.94	0.28571	263.52	691.94	1,2	298.15	0.9714
9026	C6H14O2	1,5-hexanediol	928-40-5	0.29288	0.24309	660.36	0.28571	263.52	660.36	1,2	298.15	0.9640
9027	C6H14O2	1,6-hexanediol	629-11-8	0.29690	0.26063	670.00	0.28570	315.15	670.00	2	516.15	0.7181
9028	C6H14O2	2,3-hexanediol	617-30-1	0.29730	0.23844	628.03	0.28571	333.15	628.03	1,2	478.15	0.7703
9029	C6H14O2	2,4-hexanediol	19780-90-6	0.29779	0.25158	649.93	0.28571	277.56	649.93	1,2	298.15	0.9480
9030	C6H14O2	2,5-hexanediol	2935-44-6	0.29730	0.24830	648.79	0.28571	316.15	648.79	1,2	493.95	0.7498
9031	C6H14O2	3,4-hexanediol	922-17-8	0.29730	0.25893	652.71	0.28571	248.52	652.71	2	298.15	0.9250
9032	C6H14O2	2-methyl-1,2-pentanediol	20667-05-4	0.29655	0.25736	646.52	0.28571	280.94	646.52	2	298.15	0.9249
9033	C6H14O2	2-methyl-1,3-pentanediol	149-31-5	0.29730	0.25834	648.13	0.28571	243.15	648.13	2	298.15	0.9249
9034	C6H14O2	2-methyl-1,5-pentanediol	42856-62-2	0.29730	0.25893	652.71	0.28571	248.52	652.71	2	298.15	0.9250
9035	C6H14O2	2-methyl-2,3-pentanediol	7795-80-4	0.30109	0.26503	670.50	0.28571	265.94	670.50	2	298.15	0.9251
9036	C6H14O2	3-methyl-1,3-pentanediol	33879-72-0	0.29655	0.25614	637.26	0.28571	280.94	637.26	2	298.15	0.9248
9037	C6H14O2	3-methyl-1,5-pentanediol	4457-71-0	0.29288	0.25783	682.00	0.28571	213.15	682.00	2	298.15	0.9251
9038	C6H14O2	3-methyl-2,3-pentanediol	63521-37-9	0.30109	0.26503	670.50	0.28571	265.94	670.50	2	298.15	0.9251
9039	C6H14O2	3-methyl-2,4-pentanediol	5683-44-3	0.30185	0.25622	685.78	0.28571	233.52	685.78	1,2	298.15	0.9599
9040	C6H14O2	4-methyl-1,4-pentanediol	1462-10-8	0.29655	0.25810	652.26	0.28571	280.94	652.26	2	298.15	0.9250
9041	C6H14O2	DL-erythro-4-methyl-2,3-pentanediol	6702-10-9	0.30185	0.26758	685.78	0.28571	322.15	685.78	2	519.72	0.7271
9042	C6H14O2	DL-threo-4-methyl-2,3-pentanediol	6464-40-0	0.30185	0.26758	685.78	0.28571	332.15	685.78	2	519.72	0.7271
9043	C6H14O2	2-ethyl-1,2-butanediol	66553-16-0	0.29655	0.25433	624.29	0.28571	318.65	624.29	2	473.15	0.7389
9044	C6H14O2	2-ethyl-1,3-butanediol	66553-17-1	0.29730	0.24232	630.46	0.28571	248.52	630.46	1,2	298.15	0.9680
9045	C6H14O2	2-ethyl-1,4-butanediol	57716-79-7	0.29730	0.25597	630.46	0.28571	248.52	630.46	2	298.15	0.9248
9046	C6H14O2	2,2-dimethyl-1,3-butanediol	76-35-7	0.30109	0.25988	630.45	0.28571	260.35	630.45	2	298.15	0.9248
9047	C6H14O2	2,2-dimethyl-1,4-butanediol	32812-23-0	0.30109	0.26070	636.35	0.28571	265.94	636.35	2	298.15	0.9249
9048	C6H14O2	2,3-dimethyl-1,2-butanediol	66553-15-9	0.30109	0.26070	636.35	0.28571	265.94	636.35	2	298.15	0.9249
9049	C6H14O2	2,3-dimethyl-1,3-butanediol	24893-35-4	0.30109	0.24807	636.35	0.28571	265.94	636.35	1,2	298.15	0.9640
9050	C6H14O2	DL-2,3 -dimethyl-1,4-butanediol	---	0.29730	0.25893	652.71	0.28571	248.52	652.71	2	298.15	0.9250
9051	C6H14O2	meso-2,3-dimethyl-1,4-butanediol	---	0.29730	0.25893	652.71	0.28571	248.52	652.71	2	298.15	0.9250
9052	C6H14O2	2,3-dimethyl-2,3-butanediol	76-09-5	0.30497	0.25885	597.11	0.28571	314.25	597.11	2	445.95	0.7597
9053	C6H14O2	3,3-dimethyl-1,2-butanediol	59562-82-2	0.30109	0.26045	634.56	0.28571	321.65	634.56	2	478.65	0.7412
9054	C6H14O2	2-propyl-1,3-propanediol	2612-28-4	0.29288	0.24994	620.04	0.28571	263.52	620.04	2	298.15	0.9247
9055	C6H14O2	2-isopropyl-1,3-propanediol	2612-27-3	0.29730	0.25893	652.71	0.28571	248.52	652.71	2	298.15	0.9250
9056	C6H14O2	2-methyl-2-ethyl-1,3-propanediol	77-84-9	0.29655	0.25886	658.33	0.28571	313.45	658.33	2	498.95	0.7303
9057	C6H14O2	1-(1-methylethoxy)-2-propanol	3944-36-3	0.29017	0.26123	600.00	0.28571	208.52	600.00	1,2	298.15	0.8744
9058	C6H14O2	2-(2-methylpropoxy)ethanol	4439-24-1	0.29017	0.25732	600.00	0.28571	208.52	600.00	1,2	298.15	0.8853
9059	C6H14O2	1-propoxy-2-propanol	1569-01-3	0.29017	0.25782	600.00	0.28571	208.52	600.00	1,2	298.15	0.8840
9060	C6H14O2	ethylene glycol diethyl ether	629-14-1	0.29017	0.27268	600.00	0.28571	199.15	600.00	1,2	298.15	0.8441
9061	C6H14O2	(2R,5R)-2,5-hexanediol	17299-07-9	0.29779	0.25908	649.93	0.28571	323.15	649.93	2	486.65	0.7399
9062	C6H14O2	(2S,5S)-2,5-hexanediol	34338-96-0	0.29779	0.25908	649.93	0.28571	324.65	649.93	2	486.65	0.7399
9063	C6H14O2	3-methoxy-3-methylbutanol	56539-66-3	0.29017	0.24623	600.00	0.28571	223.25	600.00	1,2	298.15	0.9180
9064	C6H14O2	(R)-(-)-2-methyl-2,4-pentanediol	99210-90-9	0.29779	0.25479	649.93	0.28571	277.56	649.93	1,2	298.15	0.9380
9067	C6H14O2	ethylene glycol mono-sec-butyl ether	7795-91-7	0.29017	0.24413	600.00	0.28571	208.52	600.00	2	298.15	0.9245
9068	C6H14O2	n-propoxypropanol (mixed isomers)	30136-13-1	0.29017	0.24413	600.00	0.28571	208.52	600.00	2	298.15	0.9245
9069	C6H14O2S	dipropyl sulfone	598-03-8	0.32450	0.25556	763.00	0.30567	303.00	763.00	1,2	543.00	0.8248
9075	C6H14O3	diethylene glycol dimethyl ether	111-96-6	0.31800	0.26740	604.00	0.28570	203.15	604.00	1,2	298.15	0.9420
9076	C6H14O3	dipropylene glycol	25265-71-8	0.32330	0.25542	654.00	0.28570	233.00	654.00	1,2	298.15	1.0180
9077	C6H14O3	2-(2-ethoxyethoxy)ethanol	111-90-0	0.31950	0.25928	632.00	0.28570	195.15	632.00	1,2	298.15	0.9840
9078	C6H14O3	trimethylolpropane	77-99-6	0.32250	0.28993	709.00	0.15756	331.15	709.00	2	562.04	0.8475
9092	C6H14O4	triethylene glycol	112-27-6	0.33900	0.26067	700.00	0.20960	265.79	700.00	1,2	298.15	1.1220
9100	C6H14O6	sorbitol	50-70-4	0.37720	0.22880	959.00	0.21731	370.85	959.00	1,2	777.00	1.0543
9107	C6H14S	hexyl mercaptan	111-31-9	0.28700	0.25566	623.00	0.37222	192.62	623.00	1,2	298.15	0.8370
9108	C6H14S	2-hexanethiol	1679-06-7	0.28356	0.27171	607.00	0.28571	126.15	607.00	1,2	298.15	0.8302
9109	C6H14S	2,3-dimethyl-2-butanethiol	1639-01-6	0.28528	0.27385	615.00	0.28571	159.39	615.00	2	298.15	0.8330
9110	C6H14S	3-hexanethiol	1633-90-5	0.28528	0.24423	615.00	0.28571	159.39	615.00	1,2	298.15	0.9158
9111	C6H14S	2-methyl-2-pentanethiol	1633-97-2	0.28528	0.27385	615.00	0.28571	159.39	615.00	2	298.15	0.8330
9112	C6H14S	dipropyl sulfide	111-47-7	0.27790	0.26451	609.73	0.28571	170.45	609.73	1,2	298.15	0.8330
9113	C6H14S	diisopropyl sulfide	625-80-9	0.28590	0.27414	585.71	0.28571	170.45	585.71	1,2	298.15	0.8220
9114	C6H14S	methyl pentyl sulfide	1741-83-9	0.27790	0.25861	587.98	0.28571	179.16	587.98	1,2	298.15	0.8390
9115	C6H14S	ethyl butyl sulfide	638-46-0	0.27790	0.26439	609.00	0.28571	178.03	609.00	1,2	298.15	0.8330
9116	C6H14S	3-methyl-2-thiahexane	13286-91-4	0.28187	0.26701	608.92	0.28571	176.28	608.92	1,2	298.15	0.8380
9117	C6H14S	4-methyl-2-thiahexane	15013-37-3	0.28187	0.26725	610.40	0.28571	176.28	610.40	1,2	298.15	0.8380
9118	C6H14S	5-methyl-2-thiahexane	13286-90-3	0.28187	0.26678	607.44	0.28571	176.28	607.44	1,2	298.15	0.8380
9119	C6H14S	2-methyl-3-thiahexane	5008-73-1	0.28187	0.27144	598.65	0.28571	176.28	598.65	1,2	298.15	0.8225

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$									(density - g/ml, T - K)
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
9120	C6H14S	4-methyl-3-thiahexane	5008-72-0	0.28187	0.26858	601.01	0.28571	176.28	601.01	1,2	298.15	0.8307
9121	C6H14S	5-methyl-3-thiahexane	1613-45-2	0.28187	0.27054	601.86	0.28571	176.28	601.86	1,2	298.15	0.8261
9122	C6H14S	3-ethyl-2-thiapentane	57093-84-2	0.28187	0.26996	598.38	0.28571	176.28	598.38	1,2	298.15	0.8261
9123	C6H14S	3,3-dimethyl-2-thiapentane	13286-92-5	0.28527	0.27871	602.51	0.28571	193.70	602.51	1,2	298.15	0.8161
9124	C6H14S	3,4-dimethyl-2-thiapentane	53897-51-1	0.28596	0.27870	597.54	0.28571	161.28	597.54	1,2	298.15	0.8161
9125	C6H14S	4,4-dimethyl-2-thiapentane	6079-57-8	0.28527	0.27871	602.51	0.28571	193.70	602.51	1,2	298.15	0.8161
9126	C6H14S	2,2-dimethyl-3-thiapentane	14290-92-7	0.28527	0.27677	591.11	0.28571	184.20	591.11	1,2	298.15	0.8161
9127	C6H14S2	1,1-bis(ethylthio)ethane	14252-42-7	0.31340	0.26418	673.00	0.28571	281.66	673.00	1,2	298.15	0.9665
9128	C6H14S2	1,2-bis(ethylthio)ethane	5395-75-5	0.31340	0.26073	673.00	0.28571	453.15	673.00	1,2	490.15	0.7915
9129	C6H14S2	diisopropyl disulfide	4253-89-8	0.31340	0.27314	673.00	0.28571	204.15	673.00	1,2	298.15	0.9396
9130	C6H14S2	dipropyl disulfide	629-19-6	0.31340	0.26793	673.00	0.28571	187.68	673.00	1,2	298.15	0.9550
9135	C6H15Al	triethyl aluminum	97-93-8	0.50331	0.47879	678.15	0.65550	220.65	678.15	1,2	298.15	0.8330
9139	C6H15Al2Cl3	ethyl aluminum sesquichloride	12075-68-2	0.73329	0.63390	791.00	0.28571	253.15	791.00	1,2	298.15	1.0920
9173	C6H15N	hexylamine	111-26-2	0.24210	0.25356	583.00	0.25235	251.85	583.00	1,2	298.15	0.7610
9174	C6H15N	2-aminohexane	5329-79-3	0.25651	0.26278	584.76	0.28571	254.15	584.76	1,2	298.15	0.7630
9175	C6H15N	3-aminohexane	16751-58-9	0.25651	0.26128	592.91	0.28571	225.14	592.91	1,2	298.15	0.7700
9176	C6H15N	1-amino-2-methylpentane	13364-16-4	0.25651	0.26196	580.19	0.28571	225.14	580.19	1,2	298.15	0.7630
9177	C6H15N	1-amino-3-methylpentane	42245-37-4	0.25651	0.26028	580.19	0.28571	225.14	580.19	1,2	298.15	0.7670
9178	C6H15N	1-amino-4-methylpentane	5344-20-7	0.25651	0.25824	575.91	0.28571	178.75	575.91	1,2	298.15	0.7700
9179	C6H15N	2-amino-2-methylpentane	53310-02-4	0.25980	0.27006	555.56	0.28571	242.56	555.56	1,2	298.15	0.7430
9180	C6H15N	2-amino-3-methylpentane	35399-81-6	0.26047	0.27558	596.83	0.28571	210.14	596.83	1,2	298.15	0.7500
9181	C6H15N	2-amino-4-methylpentane	108-09-8	0.26047	0.27023	557.83	0.28571	210.14	557.83	1,2	298.15	0.7456
9182	C6H15N	3-amino-2-methylpentane	54287-41-1	0.26047	0.27558	596.83	0.28571	210.14	596.83	1,2	298.15	0.7500
9183	C6H15N	3-amino-3-methylpentane	3495-46-3	0.25980	0.26860	586.93	0.28571	242.56	586.93	1,2	298.15	0.7600
9184	C6H15N	1-amino-2,2-dimethylbutane	41781-17-3	0.25980	0.26538	569.55	0.28571	242.56	569.55	1,2	298.15	0.7600
9185	C6H15N	1-amino-2,3-dimethylbutane	66553-05-7	0.26047	0.26599	552.72	0.28571	210.14	552.72	1,2	298.15	0.7527
9186	C6H15N	1-amino-3,3-dimethylbutane	15673-00-4	0.25980	0.27052	598.02	0.28571	242.56	598.02	1,2	298.15	0.7600
9187	C6H15N	2-amino-2,3-dimethylbutane	4358-75-2	0.26386	0.26796	556.88	0.28571	202.65	556.88	1,2	298.15	0.7600
9188	C6H15N	2-amino-3,3-dimethyl butane	3850-30-4	0.26386	0.26801	557.10	0.28571	253.15	557.10	1,2	298.15	0.7600
9189	C6H15N	1-amino-2-ethylbutane	617-79-8	0.25651	0.26548	592.91	0.28571	225.14	592.91	1,2	298.15	0.7600
9190	C6H15N	2-hexanamine, (±)	68107-05-1	0.25469	0.26177	559.92	0.28571	254.15	559.92	1,2	298.15	0.7489
9191	C6H15N	methylpentylamine	25419-06-1	0.25298	0.26242	561.00	0.28571	209.54	561.00	1,2	298.15	0.7429
9192	C6H15N	methyl-1-methylbutylamine	51932-19-5	0.25266	0.26314	560.25	0.28571	194.54	560.25	1,2	298.15	0.7400
9193	C6H15N	methyl-2-methylbutylamine	90023-96-4	0.25266	0.26314	560.25	0.28571	194.54	560.25	1,2	298.15	0.7400
9194	C6H15N	methyl-3-methylbutylamine	52317-98-3	0.25266	0.26155	552.62	0.28571	194.54	552.62	1,2	298.15	0.7400
9195	C6H15N	methyl-1,1-dimethylpropylamine	---	0.25586	0.26821	564.84	0.28571	211.96	564.84	1,2	298.15	0.7400
9196	C6H15N	methyl-1,2-dimethylpropylamine	34317-39-0	0.25266	0.26314	560.25	0.28571	194.54	560.25	1,2	298.15	0.7400
9197	C6H15N	methyl-2,2-dimethylpropylamine	26153-91-3	0.25586	0.26821	564.84	0.28571	211.96	564.84	1,2	298.15	0.7400
9198	C6H15N	ethylbutylamine	13360-63-9	0.24894	0.25787	548.52	0.28571	209.54	548.52	1,2	298.15	0.7354
9199	C6H15N	ethyl-sec-butylamine	21035-44-9	0.25266	0.26285	538.12	0.28571	194.54	538.12	1,2	298.15	0.7299
9200	C6H15N	ethylisobutylamine	13205-60-2	0.25266	0.26281	538.12	0.28571	194.54	538.12	1,2	298.15	0.7300
9201	C6H15N	ethyl-tert-butylamine	4432-77-3	0.25586	0.26177	517.03	0.28571	211.96	517.03	1,2	298.15	0.7300
9202	C6H15N	di-propylamine	142-84-7	0.24210	0.25294	555.80	0.27430	210.15	555.80	1,2	298.15	0.7370
9203	C6H15N	diisopropylamine	108-18-9	0.24210	0.25726	523.10	0.27100	176.85	523.10	1,2	298.15	0.7130
9204	C6H15N	propylisopropylamine	21968-17-2	0.25266	0.26603	538.56	0.28571	194.54	538.56	1,2	298.15	0.7232
9205	C6H15N	N-ethyl-2-butanamine, (±)	116724-10-8	0.25469	0.26949	559.92	0.28571	168.85	559.92	1,2	298.15	0.7316
9206	C6H15N	methylethylpropylamine	4458-32-6	0.24711	0.26006	534.36	0.28571	189.35	534.36	1,2	298.15	0.7180
9207	C6H15N	methylethylisopropylamine	39198-07-7	0.25079	0.26438	538.62	0.28571	174.35	538.62	1,2	298.15	0.7214
9208	C6H15N	dimethylbutylamine	927-62-8	0.25298	0.27378	556.70	0.28571	189.35	556.70	1,2	298.15	0.7161
9209	C6H15N	dimethyl-sec-butylamine	921-04-0	0.25079	0.25952	542.32	0.28571	174.35	542.32	1,2	298.15	0.7340
9210	C6H15N	dimethylisobutylamine	7239-24-9	0.25079	0.26127	523.11	0.28571	174.35	523.11	1,2	298.15	0.7200
9211	C6H15N	dimethyl-tert-butylamine	918-02-5	0.25393	0.26263	545.31	0.28571	183.15	545.31	1,2	298.15	0.7377
9212	C6H15N	triethylamine	121-44-8	0.25950	0.27350	535.15	0.28720	158.45	535.15	1,2	298.15	0.7240
9213	C6H15NO	6-aminohexanol	4048-33-3	0.26880	0.24559	681.00	0.28571	331.00	681.00	2	508.00	0.6945
9214	C6H15NO	2-amino-4-methyl-1-pentanol, (±)	16369-17-8	0.26880	0.23828	681.00	0.28571	317.15	681.00	1,2	472.15	0.7479
9215	C6H15NO	2-(butylamino)ethanol	111-75-1	0.26880	0.24485	681.00	0.28571	314.36	681.00	1,2	472.15	0.7335
9216	C6H15NO	2-[tert-butylamino]ethanol	4620-70-6	0.26880	0.24776	681.00	0.28571	317.15	681.00	1,2	449.65	0.7491
9217	C6H15NO	2-diethylaminoethanol	100-37-8	0.26880	0.24440	681.00	0.28571	314.36	681.00	1,2	436.15	0.7696
9220	C6H15NO	2-(isobutylamino)ethanol	17091-40-6	0.26880	0.24776	681.00	0.28571	314.36	681.00	1,2	472.15	0.7273
9221	C6H15NO	DL-2-amino-1-hexanol	5665-74-7	0.26880	0.23688	681.00	0.28571	314.36	681.00	1,2	464.15	0.7594
9222	C6H15NO	2-dimethylamino-2-methyl-1-propanol	7005-47-2	0.26880	0.24559	681.00	0.28571	292.15	681.00	2	298.15	0.8845
9228	C6H15NO	4-amino-4-methyl-2-pentanol	4404-98-2	0.26880	0.24559	681.00	0.28571	314.36	681.00	2	447.50	0.7561
9230	C6H15NO2	diisopropanolamine	110-97-4	0.29340	0.25139	672.00	0.22290	318.15	672.00	1,2	521.90	0.7885
9239	C6H15NO3	triethanolamine	102-71-6	0.31610	0.24814	787.00	0.20350	294.35	787.00	1,2	298.15	1.1200
9247	C6H15N3	N-aminoethyl piperazine	140-31-8	0.31750	0.26682	708.00	0.28570	254.15	708.00	1,2	298.15	0.9830
9268	C6H15O4P	triethyl phosphate	78-40-0	0.55103	0.47220	757.00	0.25660	216.65	757.00	1,2	298.15	1.0660
9292	C6H16N2	hexamethylenediamine	124-09-4	0.28454	0.28565	663.00	0.28571	313.95	663.00	2	475.04	0.6819
9293	C6H16N2	N,N-diethyl-1,2-ethanediamine	100-36-7	0.28454	0.28309	663.00	0.28571	266.05	663.00	1,2	298.15	0.8246
9294	C6H16N2	N,N'-diethyl-1,2-ethanediamine	111-74-0	0.28454	0.28309	663.00	0.28571	266.05	663.00	1,2	298.15	0.8246
9295	C6H16N2	N,N,N',N'-tetramethyl-1,2-ethanediamine	110-18-9	0.28454	0.30705	663.00	0.28571	218.15	663.00	1,2	298.15	0.7700
9297	C6H16N2	N-butylethylenediamine	19522-69-1	0.28454	0.27851	663.00	0.28571	266.05	663.00	1,2	298.15	0.8360
9298	C6H16N2	1,5-diamino-2-methylpentane	15520-10-2	0.28454	0.26932	663.00	0.28571	266.05	663.00	1,2	298.15	0.8600
9299	C6H16N2	N-isopropyl-1,3-propanediamine	3360-16-5	0.28454	0.28090	663.00	0.28571	266.05	663.00	1,2	298.15	0.8300
9300	C6H16N2	N-propyl-1,3-propanediamine	23764-31-0	0.28454	0.27655	663.00	0.28571	266.05	663.00	1,2	298.15	0.8410
9301	C6H16N2	N,N,N'-trimethyl-1,3-propanediamine	4543-96-8	0.28454	0.29651	663.00	0.28571	266.05	663.00	1,2	298.15	0.7930
9302	C6H16N2	2-methyl-2,4-pentanediamine	21586-21-0	0.28454	0.28565	663.00	0.28571	266.05	663.00	2	298.15	0.8184
9359	C6H18N4	triethylene tetramine	112-24-3	0.30340	0.25554	718.00	0.28571	285.15	718.00	1,2	298.15	0.9780
9362	C6H18OSi2	hexamethyldisiloxane	107-46-0	0.27020	0.26703	518.70	0.28570	204.93	518.70	1,2	298.15	0.7600
9366	C6H18O3Si3	hexamethylcyclotrisiloxane	541-05-9	0.35090	0.23111	554.20	0.30930	337.15	554.20	1,2	408.26	0.9252
9378	C6H19NSi2	hexamethyldisilazane	999-97-3	0.26330	0.25932	544.00	0.28570	350.00	544.00	1,2	399.15	0.6639

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
9508	C7H3ClF3NO2	4-chloro-3-nitrobenzotrifluoride	121-17-5	0.46030	0.24781	686.00	0.28570	350.00	686.00	1,2	495.15	1.2118
9519	C7H3Cl2F3	2,4-dichlorobenzotrifluoride	320-60-5	0.48530	0.26175	646.00	0.28570	247.55	646.00	1,2	298.15	1.4920
9527	C7H3Cl2NO	3,4-dichlorophenyl isocyanate	102-36-3	0.41230	0.24393	733.00	0.27449	316.15	733.00	2	501.00	1.1535
9684	C7H4ClF3	p-chlorobenzotrifluoride	98-56-6	0.45250	0.29751	601.00	0.28570	237.15	601.00	1,2	298.15	1.2260
9736	C7H4Cl2O	m-chlorobenzoyl chloride	618-46-2	0.43110	0.24773	724.00	0.28571	280.00	724.00	1,2	298.15	1.4300
9799	C7H4F3NO2	3-nitrobenzotrifluoride	98-46-4	0.43340	0.24400	667.00	0.28570	272.00	667.00	1,2	298.15	1.4260
9927	C7H5ClO	benzoyl chloride	98-88-4	0.38300	0.26039	697.00	0.28600	272.65	697.00	1,2	298.15	1.2060
9932	C7H5ClO2	o-chlorobenzoic acid	118-91-2	0.40880	0.21947	792.00	0.28570	415.15	792.00	1,2	560.15	1.1890
9967	C7H5Cl3	benzotrichloride	98-07-7	0.43730	0.26623	737.00	0.28570	268.40	737.00	1,2	298.15	1.3690
9968	C7H5Cl3	1,2-dichloro-4-(chloromethyl)benzene	102-47-6	0.43730	0.26048	737.00	0.28571	310.65	737.00	2	514.15	1.1373
9969	C7H5Cl3	1,3-dichloro-5-(chloromethyl)benzene	3290-06-0	0.43730	0.26048	737.00	0.28571	309.15	737.00	2	483.65	1.1787
9970	C7H5Cl3	1,2,3-trichloro-4-methylbenzene	7359-72-0	0.43730	0.26048	737.00	0.28571	316.65	737.00	2	517.15	1.1332
9971	C7H5Cl3	1,2,3-trichloro-5-methylbenzene	21472-86-6	0.43730	0.26048	737.00	0.28571	318.65	737.00	2	519.15	1.1303
9972	C7H5Cl3	1,2,4-trichloro-5-methylbenzene	6639-30-1	0.43730	0.26048	737.00	0.28571	355.55	737.00	2	504.15	1.1512
9973	C7H5Cl3	1,2,5-trichloro-3-methylbenzene	56961-86-5	0.43730	0.26048	737.00	0.28571	318.65	737.00	2	503.15	1.1525
9974	C7H5Cl3	3-chlorobenzal chloride	15145-69-4	0.43730	0.26048	737.00	0.28571	308.79	737.00	2	483.65	1.1787
9975	C7H5Cl3	2,6-dichlorobenzyl chloride	2014-83-7	0.43730	0.26048	737.00	0.28571	310.65	737.00	2	391.15	1.2925
9976	C7H5Cl3	dichlorobenzyl chloride	38721-71-0	0.43730	0.25727	737.00	0.28571	308.79	737.00	1,2	396.15	1.2996
9977	C7H5Cl3	2,4-dichlorobenzyl chloride	94-99-5	0.43730	0.25812	737.00	0.28571	270.80	737.00	1,2	298.15	1.4060
9978	C7H5Cl3	2,3,6-trichlorotoluene	2077-46-5	0.43730	0.26048	737.00	0.28571	308.79	737.00	2	483.65	1.1787
9979	C7H5Cl3	a-a-p-trichlorotoluene	13940-94-8	0.43730	0.26048	737.00	0.28571	308.79	737.00	2	483.65	1.1787
10003	C7H5F3	benzotrifluoride	98-08-8	0.41040	0.27078	565.00	0.28570	244.14	565.00	1,2	298.15	1.1780
10045	C7H5N	benzonitrile	100-47-0	0.30420	0.24789	699.35	0.28410	260.40	699.35	1,2	298.15	1.0010
10049	C7H5NO	phenyl isocyanate	103-71-9	0.34930	0.25655	648.00	0.28570	243.15	648.00	1,2	298.15	1.0930
10118	C7H5N3O6	2,4,6-trinitrotoluene	118-96-7	0.47320	0.23964	795.00	0.28170	354.00	795.00	1,2	573.00	1.2829
10252	C7H6Cl2	benzyl dichloride	98-87-3	0.39860	0.25737	710.00	0.31940	257.00	710.00	1,2	298.15	1.2470
10253	C7H6Cl2	2,4-dichlorotoluene	95-73-8	0.39860	0.26380	710.00	0.28570	259.65	710.00	1,2	298.15	1.2470
10254	C7H6Cl2	1-chloro-2-(chloromethyl)benzene	611-19-8	0.39860	0.25825	710.00	0.28571	256.15	710.00	1,2	298.15	1.2699
10255	C7H6Cl2	1-chloro-3-(chloromethyl)benzene	620-20-2	0.39860	0.26075	710.00	0.28571	276.42	710.00	1,2	298.15	1.2595
10256	C7H6Cl2	1-chloro-4-(chloromethyl)benzene	104-83-6	0.39860	0.26221	710.00	0.28571	304.15	710.00	2	496.15	1.0307
10257	C7H6Cl2	2,3-dichlorotoluene	32768-54-0	0.39860	0.26531	710.00	0.28571	279.15	710.00	1,2	298.15	1.2409
10258	C7H6Cl2	2,5-dichlorotoluene	19398-61-9	0.39860	0.26341	710.00	0.28571	275.65	710.00	1,2	298.15	1.2486
10259	C7H6Cl2	2,6-dichlorotoluene	118-69-4	0.39860	0.25977	710.00	0.28571	298.95	710.00	1,2	471.15	1.0700
10260	C7H6Cl2	3,4-dichlorotoluene	95-75-0	0.39860	0.26271	710.00	0.28571	257.95	710.00	1,2	298.15	1.2514
10261	C7H6Cl2	3,5-dichlorotoluene	25186-47-4	0.39860	0.26221	710.00	0.28571	299.15	710.00	2	474.65	1.0583
10363	C7H6N2O4	2,4-dinitrotoluene	121-14-2	0.37400	0.22742	814.00	0.29149	343.00	814.00	1,2	590.00	1.0338
10364	C7H6N2O4	2,5-dinitrotoluene	619-15-8	0.38590	0.23672	814.00	0.28571	325.65	814.00	1,2	590.00	1.0454
10365	C7H6N2O4	2,6-dinitrotoluene	606-20-2	0.37400	0.22268	770.00	0.28570	339.00	770.00	1,2	558.00	1.0571
10366	C7H6N2O4	3,4-dinitrotoluene	610-39-9	0.37400	0.23575	842.00	0.28571	332.00	842.00	1,2	610.00	1.0164
10367	C7H6N2O4	3,5-dinitrotoluene	618-85-9	0.38510	0.23720	814.00	0.28571	365.65	814.00	1,2	588.00	1.0444
10404	C7H6O	benzaldehyde	100-52-7	0.32750	0.25780	695.00	0.28500	247.15	695.00	1,2	298.15	1.0400
10408	C7H6O2	benzoic acid	65-85-0	0.36000	0.23600	751.00	0.28570	395.52	751.00	1,2	522.40	1.0063
10409	C7H6O2	p-hydroxybenzaldehyde	123-08-0	0.33830	0.24400	844.00	0.24234	390.15	844.00	1,2	583.15	0.9777
10410	C7H6O2	salicylaldehyde	90-02-8	0.35710	0.25338	680.00	0.26250	266.15	680.00	1,2	298.15	1.1620
10420	C7H6O3	salicylic acid	69-72-7	0.37950	0.21372	739.00	0.28571	431.75	739.00	1,2	529.00	1.1143
10462	C7H7Br	p-bromotoluene	106-38-7	0.45130	0.26055	699.00	0.30082	299.95	699.00	1,2	457.50	1.1988
10463	C7H7Br	(bromomethyl)benzene	100-39-0	0.45130	0.25707	699.00	0.28571	271.65	699.00	1,2	298.15	1.4380
10464	C7H7Br	o-bromotoluene	95-46-5	0.45130	0.26144	699.00	0.28571	245.35	699.00	1,2	298.15	1.4174
10465	C7H7Br	m-bromotoluene	591-17-3	0.45130	0.26433	699.00	0.28571	233.35	699.00	1,2	298.15	1.4042
10492	C7H7Cl	benzyl chloride	100-44-7	0.35160	0.26206	686.00	0.28570	234.15	686.00	1,2	298.15	1.0970
10493	C7H7Cl	o-chlorotoluene	95-49-8	0.35760	0.26994	656.00	0.28396	236.65	656.00	1,2	298.15	1.0770
10494	C7H7Cl	p-chlorotoluene	106-43-4	0.35160	0.26846	660.00	0.28754	280.65	660.00	1,2	298.15	1.0630
10495	C7H7Cl	m-chlorotoluene	108-41-8	0.34351	0.26000	660.18	0.28571	225.35	660.18	1,2	298.15	1.0683
10555	C7H7F	p-fluorotoluene	352-32-9	0.32630	0.25717	590.48	0.28571	216.36	590.48	1,2	298.15	0.9910
10556	C7H7F	(fluoromethyl)benzene	350-50-5	0.32630	0.24742	590.48	0.28571	238.15	590.48	1,2	298.15	1.0228
10557	C7H7F	o-fluorotoluene	95-52-3	0.32630	0.25708	590.48	0.28571	211.15	590.48	1,2	298.15	0.9913
10558	C7H7F	m-fluorotoluene	352-70-5	0.32630	0.25684	590.48	0.28571	186.15	590.48	1,2	298.15	0.9920
10611	C7H7NO	formanilide	103-70-8	0.31710	0.23004	787.00	0.29000	323.15	787.00	1,2	544.15	0.9016
10626	C7H7NO2	m-nitrotoluene	99-08-1	0.31100	0.22114	734.00	0.27206	289.20	734.00	1,2	298.15	1.1520
10627	C7H7NO2	o-nitrotoluene	88-72-2	0.31100	0.21882	720.00	0.27087	269.98	720.00	1,2	298.15	1.1580
10628	C7H7NO2	p-nitrotoluene	99-99-0	0.31100	0.22476	736.00	0.25628	324.75	736.00	1,2	511.65	0.9352
10660	C7H7NO3	o-nitroanisole	91-23-6	0.36290	0.24297	782.00	0.28830	283.60	782.00	1,2	298.15	1.2440
10724	C7H8	1,3,5-cycloheptatriene	544-25-2	0.29580	0.26360	593.90	0.28571	193.66	593.90	1,2	298.15	0.8820
10725	C7H8	toluene	108-88-3	0.29180	0.26188	591.79	0.29889	178.18	591.79	1,2	298.15	0.8650
10850	C7H8O	anisole	100-66-3	0.32090	0.26131	641.65	0.28010	235.65	641.65	1,2	298.15	0.9900
10851	C7H8O	benzyl alcohol	100-51-6	0.32280	0.26355	677.00	0.22400	257.85	677.00	1,2	298.15	1.0410
10852	C7H8O	m-cresol	108-39-4	0.34660	0.28263	705.85	0.27070	285.39	705.85	1,2	298.15	1.0300
10853	C7H8O	o-cresol	95-48-7	0.38350	0.30902	697.55	0.30990	304.19	697.55	1,2	464.15	0.8852
10854	C7H8O	p-cresol	106-44-5	0.39040	0.31131	704.65	0.33410	307.93	704.65	1,2	475.13	0.8708
10855	C7H8O	cresol mixture	1319-77-3	0.37350	0.30353	702.68	0.28571	296.35	702.68	1,2	298.15	1.0340
10866	C7H8O2	guaiacol	90-05-1	0.35170	0.25846	697.00	0.27125	304.65	697.00	1,2	478.15	0.9448
10867	C7H8O2	p-methoxyphenol	150-76-5	0.36300	0.27369	758.00	0.28450	329.00	758.00	2	516.00	0.9259
10868	C7H8O2	1,2-dihydroxy-3-methylbenzene	488-17-5	0.66208	0.55117	776.37	0.28571	341.15	776.37	2	521.15	1.0214
10869	C7H8O2	1,2-dihydroxy-4-methylbenzene	452-86-8	0.66208	0.53305	791.27	0.28571	338.15	791.27	1,2	531.15	1.0465
10870	C7H8O2	1,3-dihydroxy-2-methylbenzene	608-25-3	0.66208	0.55311	801.70	0.28571	393.15	801.70	2	538.15	1.0187
10871	C7H8O2	1,3-dihydroxy-4-methylbenzene	496-73-1	0.66208	0.55365	809.15	0.28571	378.15	809.15	2	543.15	1.0180
10872	C7H8O2	1,3-dihydroxy-5-methylbenzene	504-15-4	0.66208	0.47305	834.47	0.28571	380.15	834.47	1,2	560.15	1.1415
10873	C7H8O2	1,4-dihydroxy-2-methylbenzene	95-71-6	0.66208	0.55499	828.51	0.28571	398.15	828.51	2	556.15	1.0162
10918	C7H8S	o-methylthiophenol	137-06-4	0.33255	0.26530	714.96	0.28571	288.15	714.96	1,2	298.15	1.0370
10919	C7H8S	m-methylthiophenol	108-40-7	0.33255	0.26455	716.34	0.28571	253.15	716.34	1,2	298.15	1.0400

Table 3 Density of Liquid - Organic Compounds

			density = A B^(1 - T/C)^n									
								(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
10920	C7H8S	p-methylthiophenol	106-45-6	0.33255	0.26349	716.03	0.28571	317.15	716.03	1,2	468.05	0.8906
10921	C7H8S	methyl phenyl sulfide	100-68-5	0.33255	0.26004	710.76	0.28571	116.90	710.76	1,2	298.15	1.0535
10922	C7H8S	benzenemethanethiol	100-53-8	0.33255	0.26044	715.78	0.28571	243.15	715.78	1,2	298.15	1.0539
10953	C7H9N	benzylamine	100-46-9	0.28730	0.26543	683.50	0.13446	227.15	683.50	1,2	298.15	0.9810
10954	C7H9N	N-methylaniline	100-61-8	0.28730	0.24309	701.55	0.25374	216.15	701.55	1,2	298.15	0.9820
10955	C7H9N	m-toluidine	108-44-1	0.28730	0.24006	709.15	0.26905	242.75	709.15	1,2	298.15	0.9850
10956	C7H9N	o-toluidine	95-53-4	0.28730	0.23834	694.15	0.25730	249.47	694.15	1,2	298.15	0.9940
10957	C7H9N	p-toluidine	106-49-0	0.28730	0.24776	693.15	0.26158	316.90	693.15	1,2	473.40	0.8073
10958	C7H9N	2,3-dimethylpyridine	583-61-9	0.29198	0.24826	655.40	0.28571	257.95	655.40	1,2	298.15	0.9422
10959	C7H9N	2,4-dimethylpyridine	108-47-4	0.29198	0.25186	647.00	0.28571	209.25	647.00	1,2	298.15	0.9275
10960	C7H9N	2,5-dimethylpyridine	589-93-5	0.29198	0.25237	644.20	0.28571	257.65	644.20	1,2	298.15	0.9248
10961	C7H9N	2,6-dimethylpyridine	108-48-5	0.33910	0.30474	623.75	0.27170	267.00	623.75	1,2	298.15	0.9180
10962	C7H9N	3,4-dimethylpyridine	583-58-4	0.29198	0.24796	683.80	0.28571	262.15	683.80	1,2	298.15	0.9540
10963	C7H9N	3,5-dimethylpyridine	591-22-0	0.29198	0.25108	667.20	0.28571	266.65	667.20	1,2	298.15	0.9378
10964	C7H9N	2-ethylpyridine	100-71-0	0.29198	0.25021	636.20	0.28571	210.05	636.20	1,2	298.15	0.9281
10965	C7H9N	3-ethylpyridine	536-78-7	0.29198	0.25018	657.70	0.28571	196.25	657.70	1,2	298.15	0.9370
10966	C7H9N	4-ethylpyridine	536-75-4	0.29198	0.25152	668.20	0.28571	182.65	668.20	1,2	298.15	0.9368
11047	C7H10	2-norbornene	498-66-8	0.27940	0.27613	583.00	0.28571	319.40	583.00	2	368.65	0.7348
11049	C7H10	1-hepten-3-yne	2384-73-8	0.28818	0.29834	545.00	0.28571	290.00	545.00	1,2	298.15	0.7561
11050	C7H10	3-ethyl-3-penten-1-yne	14272-54-9	0.28818	0.28301	545.00	0.28571	290.00	545.00	1,2	298.15	0.7886
11056	C7H10	2-methyl-1-hexen-3-yne	23056-94-2	0.28818	0.29740	545.00	0.28571	290.00	545.00	1,2	298.15	0.7580
11057	C7H10	1-methyl-1,3-cyclohexadiene	1489-56-1	0.28818	0.27923	545.00	0.28571	290.00	545.00	2	298.15	0.7971
11079	C7H10N2	m-toluenediamine	95-80-7	0.32490	0.26890	804.00	0.28571	371.25	804.00	2	557.15	0.8295
11147	C7H10O	2-ethyl-5-methylfuran	1703-52-2	0.32571	0.29321	580.00	0.28571	290.00	580.00	1,2	298.15	0.8838
11151	C7H10O	2-propylfuran	4229-91-8	0.32571	0.29349	580.00	0.28571	290.00	580.00	1,2	298.15	0.8832
11225	C7H10S	2-propylthiophene	1551-27-5	0.32574	0.27438	649.23	0.28571	252.35	649.23	1,2	298.15	0.9639
11226	C7H10S	3-propylthiophene	1518-75-8	0.32574	0.27386	652.99	0.28571	252.35	652.99	1,2	298.15	0.9669
11227	C7H10S	2-isopropylthiophene	4095-22-1	0.32574	0.27347	640.96	0.28571	252.35	640.96	1,2	298.15	0.9633
11228	C7H10S	3-isopropylthiophene	29488-27-5	0.33086	0.27830	652.61	0.28571	237.35	652.61	1,2	298.15	0.9688
11229	C7H10S	2-methyl-3-ethylthiophene	53119-51-0	0.32574	0.27203	645.99	0.28571	235.98	645.99	1,2	298.15	0.9696
11230	C7H10S	2-methyl-4-ethyl thiophene	13678-54-1	0.32574	0.27322	655.00	0.28571	214.15	655.00	1,2	298.15	0.9696
11231	C7H10S	2-methyl-5-ethyl thiophene	40323-88-4	0.32574	0.27529	650.65	0.28571	204.65	650.65	1,2	298.15	0.9618
11232	C7H10S	3-methyl-2-ethylthiophene	31805-48-8	0.32574	0.27040	652.00	0.28571	235.98	652.00	1,2	298.15	0.9769
11233	C7H10S	3-methyl-4-ethyl thiophene	---	0.32574	0.26904	641.79	0.28571	235.98	641.79	1,2	298.15	0.9769
11234	C7H10S	3-methyl-5-ethylthiophene	---	0.33002	0.27328	641.79	0.28571	235.98	641.79	1,2	298.15	0.9769
11235	C7H10S	2,3,4-trimethylthiophene	1795-04-6	0.32959	0.26991	654.54	0.28571	246.95	654.54	1,2	298.15	0.9910
11236	C7H10S	2,3,5-trimethylthiophene	1795-05-7	0.33002	0.27732	656.26	0.28571	219.61	656.26	1,2	298.15	0.9706
11267	C7H11N	3-ethyl-4-methyl-1H-pyrrole	488-92-6	0.31163	0.28180	650.00	0.28571	274.65	650.00	1,2	298.15	0.9020
11268	C7H11N	2-isopropylpyrrole	7696-51-7	0.31163	0.27996	650.00	0.28571	274.65	650.00	1,2	298.15	0.9070
11269	C7H11N	1-propyl-1H-pyrrole	5145-64-2	0.31163	0.29038	650.00	0.28571	274.65	650.00	1,2	298.15	0.8796
11270	C7H11N	3-propyl-1H-pyrrole	1551-09-3	0.31163	0.29454	650.00	0.28571	274.65	650.00	2	298.15	0.8692
11271	C7H11N	1,2,5-trimethyl-1H-pyrrole	930-87-0	0.31163	0.32178	650.00	0.28571	274.65	650.00	1,2	298.15	0.8070
11275	C7H11NO	cyclohexyl isocyanate	3173-53-3	0.30680	0.22173	633.00	0.28570	330.00	633.00	1,2	442.15	0.8939
11323	C7H12	1-ethylcyclopentene	2146-38-5	0.27129	0.26706	578.40	0.28571	154.75	578.40	1,2	298.15	0.7936
11324	C7H12	3-ethylcyclopentene	694-35-9	0.27129	0.27097	565.35	0.28571	144.24	565.35	1,2	298.15	0.7784
11325	C7H12	4-ethylcyclopentene	3742-38-9	0.27129	0.27124	566.02	0.28571	144.24	566.02	1,2	298.15	0.7781
11326	C7H12	1,2-dimethylcyclopentene	765-47-9	0.27206	0.26851	579.44	0.28571	182.75	579.44	1,2	298.15	0.7928
11327	C7H12	1,3-dimethylcyclopentene	62184-82-1	0.27206	0.27821	558.34	0.28571	127.87	558.34	1,2	298.15	0.7610
11328	C7H12	1,4-dimethylcyclopentene	19550-48-2	0.27206	0.27615	560.17	0.28571	127.87	560.17	1,2	298.15	0.7664
11329	C7H12	1,5-dimethylcyclopentene	16491-15-9	0.27206	0.27502	573.63	0.28571	155.15	573.63	1,2	298.15	0.7750
11330	C7H12	3,3-dimethylcyclopentene	58049-91-5	0.27283	0.27714	559.35	0.28571	127.87	559.35	1,2	298.15	0.7660
11331	C7H12	3,cis-4-dimethylcyclopentene	56039-55-5	0.27206	0.27310	557.42	0.28571	127.87	557.42	1,2	298.15	0.7720
11332	C7H12	3,trans-4-dimethylcyclopentene	53225-40-4	0.27206	0.27310	557.42	0.28571	127.87	557.42	1,2	298.15	0.7720
11333	C7H12	3,cis-5-dimethylcyclopentene	30213-29-7	0.27206	0.27310	557.42	0.28571	127.87	557.42	1,2	298.15	0.7720
11334	C7H12	3,trans-5-dimethylcyclopentene	61394-27-2	0.27206	0.27310	557.42	0.28571	127.87	557.42	1,2	298.15	0.7720
11335	C7H12	4,4-dimethylcyclopentene	19037-72-0	0.27283	0.27714	559.35	0.28571	127.87	559.35	1,2	298.15	0.7660
11336	C7H12	1-methylcyclohexene	591-49-1	0.27755	0.27148	590.94	0.28571	153.75	590.94	1,2	298.15	0.8066
11337	C7H12	3-methylcyclohexene	591-48-0	0.27755	0.27348	578.88	0.28571	149.64	578.88	1,2	298.15	0.7966
11338	C7H12	4-methylcyclohexene	591-47-9	0.27755	0.27436	579.30	0.28571	157.74	579.30	1,2	298.15	0.7947
11339	C7H12	3-methylcyclohexene, (±)	56688-75-6	0.27755	0.27500	583.04	0.28571	157.65	583.04	1,2	298.15	0.7948
11340	C7H12	1-heptyne	628-71-7	0.24690	0.26084	559.69	0.28571	192.26	559.69	1,2	298.15	0.7280
11341	C7H12	2-heptyne	1119-65-9	0.24691	0.25848	581.90	0.28571	274.25	581.90	1,2	298.15	0.7432
11342	C7H12	3-heptyne	2586-89-2	0.24691	0.26129	574.59	0.28571	142.65	574.59	1,2	298.15	0.7336
11343	C7H12	3-methyl-1-hexyne	40276-93-5	0.25078	0.26866	542.27	0.28571	200.12	542.27	1,2	298.15	0.7140
11344	C7H12	4-methyl-1-hexyne	52713-81-2	0.25078	0.26409	551.35	0.28571	200.12	551.35	1,2	298.15	0.7282
11345	C7H12	5-methyl-1-hexyne	2203-80-7	0.25078	0.26679	552.64	0.28571	149.15	552.64	1,2	298.15	0.7229
11346	C7H12	4-methyl-2-hexyne	20198-49-6	0.25078	0.26486	568.05	0.28571	165.55	568.05	1,2	298.15	0.7341
11347	C7H12	5-methyl-2-hexyne	53566-37-3	0.25078	0.26608	572.50	0.28571	180.25	572.50	1,2	298.15	0.7333
11348	C7H12	2-methyl-3-hexyne	36566-80-0	0.25078	0.26978	561.44	0.28571	156.55	561.44	1,2	298.15	0.7204
11349	C7H12	3-ethyl-1-pentyne	21020-26-8	0.25078	0.26430	540.76	0.28571	200.12	540.76	1,2	298.15	0.7226
11350	C7H12	3,3-dimethyl-1-pentyne	918-82-1	0.25409	0.27522	528.91	0.28571	217.54	528.91	1,2	298.15	0.7032
11351	C7H12	3,4-dimethyl-1-pentyne	61064-08-2	0.25476	0.27095	539.46	0.28571	185.12	539.46	1,2	298.15	0.7191
11352	C7H12	4,4-dimethyl-1-pentyne	13361-63-2	0.25409	0.27428	538.28	0.28571	198.15	538.28	1,2	298.15	0.7097
11353	C7H12	4,4-dimethyl-2-pentyne	999-78-0	0.25409	0.27589	552.81	0.28571	190.75	552.81	1,2	298.15	0.7131
11358	C7H12	1,2-heptadiene	2384-90-9	0.27651	0.30091	556.00	0.28571	167.48	556.00	1,2	298.15	0.7252
11359	C7H12	1,4-heptadiene	5675-22-9	0.27651	0.30688	556.00	0.28571	167.48	556.00	1,2	298.15	0.7139
11360	C7H12	1,5-heptadiene	1541-23-7	0.27651	0.30635	556.00	0.28571	167.48	556.00	1,2	298.15	0.7149
11361	C7H12	1,6-heptadiene	3070-53-9	0.27651	0.28628	556.00	0.28571	167.48	556.00	2	298.15	0.7548
11362	C7H12	2,4-heptadiene	628-72-8	0.27651	0.29621	556.00	0.28571	167.48	556.00	1,2	298.15	0.7344
11363	C7H12	2-methyl-1,5-hexadiene	4049-81-4	0.27651	0.30611	556.00	0.28571	144.35	556.00	1,2	298.15	0.7153

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
11364	C7H12	2-methyl-2,4-hexadiene	28823-41-8	0.27651	0.29290	556.00	0.28571	198.95	556.00	1,2	298.15	0.7411
11365	C7H12	2,4-dimethyl-1,3-pentadiene	1000-86-8	0.27651	0.29707	556.00	0.28571	159.15	556.00	1,2	298.15	0.7327
11369	C7H12	2,4-dimethyl-2,3-pentadiene	1000-87-9	0.27651	0.31391	556.00	0.28571	167.48	556.00	1,2	298.15	0.7010
11413	C7H12O	2-heptenal	2463-63-0	0.31335	0.29531	610.00	0.28571	220.00	610.00	1,2	298.15	0.8577
11414	C7H12O	3-heptenal	89896-73-1	0.31335	0.30139	610.00	0.28571	220.00	610.00	1,2	298.15	0.8434
11415	C7H12O	1-hepten-3-one	2918-13-0	0.28669	0.27299	615.00	0.28571	220.00	615.00	1,2	298.15	0.8393
11416	C7H12O	4-hepten-2-one	24332-22-7	0.28669	0.26568	615.00	0.28571	220.00	615.00	1,2	298.15	0.8584
11417	C7H12O	6-hepten-2-one	21889-88-3	0.28669	0.26459	615.00	0.28571	220.00	615.00	1,2	298.15	0.8613
11418	C7H12O	6-hepten-3-one	2565-39-1	0.28669	0.27157	615.00	0.28571	220.00	615.00	1,2	298.15	0.8430
11419	C7H12O	cis-3-hepten-2-one	69668-88-8	0.28669	0.27276	615.00	0.28571	220.00	615.00	1,2	298.15	0.8399
11420	C7H12O	trans-3-hepten-2-one	5609-09-6	0.28669	0.27059	615.00	0.28571	220.00	615.00	1,2	298.15	0.8455
11421	C7H12O	trans-5-hepten-2-one	1071-94-9	0.28669	0.27256	615.00	0.28571	220.00	615.00	1,2	298.15	0.8404
11422	C7H12O	2-methyl-4-hexen-3-one	53252-19-0	0.28669	0.27044	615.00	0.28571	220.00	615.00	1,2	298.15	0.8459
11423	C7H12O	3-methyl-5-hexen-2-one	2550-22-3	0.28669	0.27393	615.00	0.28571	220.00	615.00	1,2	298.15	0.8370
11424	C7H12O	4-methyl-5-hexen-2-one	61675-14-7	0.28669	0.27780	615.00	0.28571	220.00	615.00	1,2	298.15	0.8273
11425	C7H12O	5-methyl-1-hexen-3-one	2177-32-4	0.28669	0.27588	615.00	0.28571	220.00	615.00	1,2	298.15	0.8321
11426	C7H12O	5-methyl-3-hexen-2-one	5166-53-0	0.28669	0.26604	615.00	0.28571	220.00	615.00	1,2	298.15	0.8574
11427	C7H12O	5-methyl-4-hexen-2-one	28332-44-7	0.28669	0.26518	615.00	0.28571	220.00	615.00	1,2	298.15	0.8598
11428	C7H12O	5-methyl-5-hexen-2-one	3240-09-3	0.28669	0.27198	615.00	0.28571	220.00	615.00	1,2	298.15	0.8419
11429	C7H12O	2-methylcyclohexanone, (±)	24965-84-2	0.29707	0.25974	650.00	0.28571	259.25	650.00	1,2	298.15	0.9208
11430	C7H12O	3-methylcyclohexanone, (±)	625-96-7	0.29707	0.26359	650.00	0.28571	199.65	650.00	1,2	298.15	0.9095
11431	C7H12O	4-methylcyclohexanone	589-92-4	0.29707	0.26352	650.00	0.28571	232.55	650.00	1,2	298.15	0.9097
11433	C7H12O	2,2-dimethyl-4-pentenal	5497-67-6	0.31335	0.30955	610.00	0.28571	220.00	610.00	1,2	298.15	0.8250
11436	C7H12O	trans-2-heptenal	18829-55-5	0.31335	0.29898	610.00	0.28571	220.00	610.00	1,2	298.15	0.8490
11437	C7H12O	(Z)-hept-4-enal	6728-31-0	0.31335	0.29856	610.00	0.28571	220.00	610.00	1,2	298.15	0.8500
11439	C7H12O	methylcyclohexanone	1331-22-2	0.29707	0.26113	650.00	0.28571	255.45	650.00	1,2	298.15	0.9167
11440	C7H12O	(R)-(+)-3-methylcyclohexanone	13368-65-5	0.29707	0.26135	650.00	0.28571	280.00	650.00	1,2	298.15	0.9160
11441	C7H12O	2-methylcyclohexanone	583-60-8	0.29707	0.25833	650.00	0.28571	260.10	650.00	1,2	298.15	0.9250
11442	C7H12O	3-methylcyclohexanone	591-24-2	0.29707	0.26204	650.00	0.28571	191.70	650.00	1,2	298.15	0.9140
11445	C7H12O	(Z)-5-hepten-2-one	4535-61-9	0.28669	0.25933	615.00	0.28571	220.00	615.00	2	298.15	0.8758
11446	C7H12O	(S)-3-methylcyclohexanone	24965-87-5	0.29707	0.27556	650.00	0.28571	280.00	650.00	2	298.15	0.8762
11450	C7H12O2	butyl acrylate	141-32-2	0.29950	0.25844	598.00	0.30843	208.55	598.00	1,2	298.15	0.8940
11450.1	C7H12O2	sec-butyl acrylate	2998-08-5	0.29877	0.26254	580.00	0.28571	210.85	580.00	1,2	298.15	0.8870
11451	C7H12O2	isobutyl acrylate	106-63-8	0.29950	0.26406	580.00	0.28571	212.00	580.00	1,2	298.15	0.8850
11452	C7H12O2	propyl methacrylate	2210-28-8	0.29950	0.26304	599.00	0.28571	210.28	599.00	1,2	298.15	0.8970
11453	C7H12O2	isopropyl methacrylate	4655-34-9	0.29950	0.26806	592.33	0.28571	210.28	592.33	1,2	298.15	0.8801
11454	C7H12O2	allyl butanoate	2051-78-7	0.29950	0.26193	592.33	0.28571	210.28	592.33	1,2	298.15	0.8969
11466	C7H12O2	2,2-dimethyl-4-pentenoic acid	16386-93-9	0.28369	0.25061	716.00	0.28571	263.90	716.00	1,2	298.15	0.9292
11467	C7H12O2	2-heptenoic acid	18999-28-5	0.28369	0.24317	716.00	0.28571	254.15	716.00	1,2	298.15	0.9536
11468	C7H12O2	4-heptenoic acid	35194-37-7	0.28369	0.24686	716.00	0.28571	263.90	716.00	1,2	298.15	0.9413
11469	C7H12O2	5-heptenoic acid	3593-00-8	0.28369	0.24552	716.00	0.28571	263.90	716.00	1,2	298.15	0.9457
11470	C7H12O2	6-heptenoic acid	1119-60-4	0.28369	0.24634	716.00	0.28571	266.65	716.00	1,2	298.15	0.9430
11471	C7H12O2	2-methyl-3-hexenoic acid	73513-50-5	0.28369	0.24989	716.00	0.28571	263.90	716.00	1,2	298.15	0.9315
11472	C7H12O2	3-methyl-3-hexenoic acid	35205-71-1	0.28369	0.24394	716.00	0.28571	263.90	716.00	1,2	298.15	0.9510
11473	C7H12O2	4-methyl-2-hexenoic acid	37549-83-0	0.28369	0.24719	716.00	0.28571	263.90	716.00	1,2	298.15	0.9403
11474	C7H12O2	4-methyl-3-hexenoic acid	55665-79-7	0.28369	0.24207	716.00	0.28571	263.90	716.00	1,2	298.15	0.9573
11475	C7H12O2	5-methyl-2-hexenoic acid	41653-96-7	0.28369	0.24783	716.00	0.28571	289.65	716.00	1,2	298.15	0.9382
11476	C7H12O2	5-methyl-4-hexenoic acid	5636-65-7	0.28369	0.23381	716.00	0.28571	245.15	716.00	1,2	298.15	0.9862
11477	C7H12O2	trans-2-methyl-2-hexenoic acid	97961-66-5	0.28369	0.24164	716.00	0.28571	263.90	716.00	1,2	298.15	0.9587
11480	C7H12O2	ethyl 3-methyl-2-butenoate	638-10-8	0.29950	0.25531	592.33	0.28571	210.28	592.33	1,2	298.15	0.9159
11481	C7H12O2	ethyl trans-2-methyl-2-butenoate	5837-78-5	0.29950	0.25561	592.33	0.28571	210.28	592.33	1,2	298.15	0.9151
11483	C7H12O2	methyl 3-hexenoate	2396-78-3	0.29950	0.25625	592.33	0.28571	210.28	592.33	1,2	298.15	0.9132
11484	C7H12O2	methyl 2-methyl-2-pentenoate	10478-12-3	0.29950	0.25393	592.33	0.28571	210.28	592.33	1,2	298.15	0.9200
11485	C7H12O2	methyl 3-methyl-3-pentenoate	2258-58-4	0.29950	0.23242	592.33	0.28571	210.28	592.33	1,2	298.15	0.9892
11486	C7H12O2	methyl cis-3-methyl-2-pentenoate	17447-00-6	0.29950	0.25297	592.33	0.28571	210.28	592.33	1,2	298.15	0.9229
11487	C7H12O2	methyl trans-3-methyl-2-pentenoate	17447-01-7	0.29950	0.25221	592.33	0.28571	210.28	592.33	1,2	298.15	0.9251
11488	C7H12O2	tert-butyl acrylate	1663-39-4	0.29950	0.26997	592.33	0.28571	210.28	592.33	1,2	298.15	0.8750
11491	C7H12O2	methyl trans-2-methyl-2-pentenoate	1567-14-2	0.29950	0.25393	592.33	0.28571	210.28	592.33	1,2	298.15	0.9200
11492	C7H12O2	4-pentenyl acetate	1576-85-8	0.29950	0.25700	592.33	0.28571	210.28	592.33	1,2	298.15	0.9110
11497	C7H12O2	3,3-dimethylallyl acetate	1191-16-8	0.29950	0.24809	592.33	0.28571	210.28	592.33	2	298.15	0.9377
11500	C7H12O2	cis-3-hexenyl formate	33467-73-1	0.29950	0.24809	592.33	0.28571	210.28	592.33	2	298.15	0.9377
11530	C7H12O4	diethyl malonate	105-53-3	0.34150	0.25614	653.00	0.31612	224.25	653.00	1,2	298.15	1.0500
11569	C7H13Br	cis-1-bromo-1-heptene	39924-57-7	0.37718	0.26304	630.55	0.28571	175.15	630.55	1,2	298.15	1.1470
11570	C7H13Br	trans-1-bromo-1-heptene	53434-74-5	0.37718	0.26304	630.55	0.28571	175.15	630.55	1,2	298.15	1.1470
11586	C7H13Br3	1,1,1-tribromoheptane	62127-64-4	0.55916	0.25819	756.89	0.28571	349.97	756.89	2	537.15	1.4472
11587	C7H13Cl	cis-1-chloro-1-heptene	53268-66-9	0.29054	0.25788	613.52	0.28571	192.99	613.52	1,2	298.15	0.8910
11588	C7H13Cl	trans-1-chloro-1-heptene	53268-67-0	0.29054	0.25788	613.52	0.28571	192.99	613.52	1,2	298.15	0.8910
11589	C7H13Cl	1-chloro-1-heptene	2384-75-0	0.29054	0.25813	613.52	0.28571	192.99	613.52	1,2	298.15	0.8903
11590	C7H13Cl	2-chloro-1-heptene	65786-11-0	0.29054	0.25998	613.52	0.28571	192.99	613.52	1,2	298.15	0.8850
11591	C7H13Cl	4-chloro-3-heptene	2431-24-5	0.29054	0.26415	613.52	0.28571	192.99	613.52	1,2	298.15	0.8735
11612	C7H13Cl3	1,1,1-trichloroheptane	3922-26-7	0.36120	0.26230	676.24	0.28571	260.33	676.24	1,2	298.15	1.1220
11613	C7H13F	cis-1-fluoro-1-heptene	28028-91-3	0.27304	0.24781	525.96	0.28571	195.22	525.96	1,2	298.15	0.8190
11614	C7H13F	trans-1-fluoro-1-heptene	28028-92-4	0.27304	0.24781	525.96	0.28571	195.22	525.96	1,2	298.15	0.8190
11618	C7H13F3	1,1,1-trifluoroheptane	693-09-4	0.33014	0.25488	527.90	0.28571	267.02	527.90	1,2	298.15	0.9700
11619	C7H13I	cis-1-iodo-1-heptene	63318-29-6	0.45224	0.26705	677.01	0.28571	221.13	677.01	1,2	298.15	1.3840
11620	C7H13I	trans-1-iodo-1-heptene	60595-37-1	0.45224	0.26705	677.01	0.28571	221.13	677.01	1,2	298.15	1.3840
11621	C7H13I3	1,1,1-triiodoheptane	---	0.70227	0.27158	912.73	0.28571	344.75	912.73	2	635.75	1.7748
11622	C7H13N	heptanenitrile	629-08-3	0.24518	0.24135	643.10	0.28571	210.55	643.10	1,2	298.15	0.8057
11696	C7H14	ethylcyclopentane	1640-89-7	0.26220	0.26920	569.52	0.27770	134.71	569.52	1,2	298.15	0.7630
11697	C7H14	1,1-dimethylcyclopentane	1638-26-2	0.27270	0.27721	547.00	0.30163	203.36	547.00	1,2	298.15	0.7500

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
11698	C7H14	1,2-dimethylcyclopentane	2452-99-5	0.26973	0.30002	556.47	0.28571	160.88	556.47	2	298.15	0.7093
11699	C7H14	cis-1,2-dimethylcyclopentane	1192-18-3	0.26540	0.26810	565.15	0.28571	219.26	565.15	1,2	298.15	0.7680
11700	C7H14	trans-1,2-dimethylcyclopentane	822-50-4	0.27270	0.27780	553.15	0.30976	155.58	553.15	1,2	298.15	0.7470
11701	C7H14	1,3-dimethylcyclopentane	2453-00-1	0.26973	0.30002	556.47	0.28571	134.60	556.47	2	298.15	0.7093
11702	C7H14	cis-1,3-dimethylcyclopentane	2532-58-3	0.27270	0.27946	551.00	0.31401	139.45	551.00	1,2	298.15	0.7400
11703	C7H14	trans-1,3-dimethylcyclopentane	1759-58-6	0.27270	0.28060	553.00	0.30466	139.18	553.00	1,2	298.15	0.7440
11704	C7H14	methylcyclohexane	108-87-2	0.26680	0.27028	572.19	0.29270	146.58	572.19	1,2	298.15	0.7660
11705	C7H14	cycloheptane	291-64-5	0.27350	0.26913	604.30	0.28571	265.15	604.30	1,2	298.15	0.8060
11706	C7H14	1-heptene	592-76-7	0.23770	0.26291	537.29	0.27420	154.27	537.29	1,2	298.15	0.6930
11707	C7H14	2-heptene	592-77-8	0.24373	0.26031	537.61	0.28571	148.16	537.61	2	298.15	0.7093
11708	C7H14	cis-2-heptene	6443-92-1	0.23160	0.24859	549.00	0.28858	164.00	549.00	1,2	298.15	0.7030
11709	C7H14	trans-2-heptene	14686-13-6	0.24180	0.26441	543.00	0.28672	163.67	543.00	1,2	298.15	0.6970
11710	C7H14	3-heptene	592-78-9	0.24373	0.26031	537.61	0.28571	148.16	537.61	2	298.15	0.7093
11711	C7H14	3-heptene (mixed isomers)	25339-56-4	0.24373	0.26031	537.61	0.28571	148.16	537.61	2	298.15	0.7093
11712	C7H14	cis-3-heptene	7642-10-6	0.23320	0.25465	545.00	0.27941	136.51	545.00	1,2	298.15	0.6980
11713	C7H14	trans-3-heptene	14686-14-7	0.24180	0.26544	540.00	0.28571	136.52	540.00	1,2	298.15	0.6940
11714	C7H14	2-methyl-1-hexene	6094-02-6	0.24670	0.26797	538.00	0.29214	170.28	538.00	1,2	298.15	0.6980
11715	C7H14	3-methyl-1-hexene	3404-61-3	0.24670	0.27387	528.00	0.28221	145.00	528.00	1,2	298.15	0.6870
11716	C7H14	4-methyl-1-hexene	3769-23-1	0.24670	0.27139	534.00	0.28372	131.70	534.00	1,2	298.15	0.6940
11717	C7H14	5-methyl-1-hexene	3524-73-0	0.24395	0.26929	530.65	0.28571	151.39	530.65	1,2	298.15	0.6877
11718	C7H14	2-methyl-2-hexene	2738-19-4	0.24036	0.26037	546.77	0.28571	142.80	546.77	1,2	298.15	0.7038
11719	C7H14	3-methyl-cis-2-hexene	10574-36-4	0.24036	0.25748	549.51	0.28571	154.65	549.51	1,2	298.15	0.7114
11720	C7H14	3-methyl-trans-2-hexene	20710-38-7	0.24036	0.25745	546.42	0.28571	143.85	546.42	1,2	298.15	0.7100
11721	C7H14	4-methyl-cis-2-hexene	3683-19-0	0.24455	0.26727	534.04	0.28571	148.07	534.04	1,2	298.15	0.6952
11722	C7H14	4-methyl-trans-2-hexene	3683-22-5	0.24455	0.26903	535.90	0.28571	147.46	535.90	1,2	298.15	0.6925
11723	C7H14	5-methyl-cis-2-hexene	13151-17-2	0.24455	0.26751	538.78	0.28571	148.07	538.78	1,2	298.15	0.6970
11724	C7H14	5-methyl-trans-2-hexene	7385-82-2	0.24455	0.27129	536.72	0.28571	148.81	536.72	1,2	298.15	0.6883
11725	C7H14	2-methyl-cis-3-hexene	15840-60-5	0.24455	0.26971	533.58	0.28571	148.07	533.58	1,2	298.15	0.6900
11726	C7H14	2-methyl-trans-3-hexene	692-24-0	0.24455	0.27201	533.44	0.28571	131.59	533.44	1,2	298.15	0.6853
11727	C7H14	3-methyl-cis-3-hexene	4914-89-0	0.24036	0.25845	546.75	0.28571	149.11	546.75	1,2	298.15	0.7080
11728	C7H14	3-methyl-trans-3-hexene	3899-36-3	0.24036	0.25917	543.99	0.28571	149.11	543.99	1,2	298.15	0.7051
11729	C7H14	2-ethyl-1-pentene	3404-71-5	0.24670	0.27352	543.00	0.26632	168.00	543.00	1,2	298.15	0.7040
11730	C7H14	3-ethyl-1-pentene	4038-04-4	0.24670	0.28369	530.00	0.24201	145.67	530.00	1,2	298.15	0.6920
11731	C7H14	2,3-dimethyl-1-pentene	3404-72-6	0.24334	0.26256	532.72	0.28571	138.85	532.72	1,2	298.15	0.7009
11732	C7H14	2,4-dimethyl-1-pentene	2213-32-3	0.24334	0.26701	528.74	0.28571	149.09	528.74	1,2	298.15	0.6897
11733	C7H14	3,3-dimethyl-1-pentene	3404-73-7	0.24701	0.27017	527.74	0.28571	138.77	527.74	1,2	298.15	0.6931
11734	C7H14	3,4-dimethyl-1-pentene	7385-78-6	0.24764	0.27103	528.31	0.28571	136.39	528.31	1,2	298.15	0.6934
11735	C7H14	4,4-dimethyl-1-pentene	762-62-9	0.24701	0.27589	520.28	0.28571	136.55	520.28	1,2	298.15	0.6780
11736	C7H14	3-ethyl-2-pentene	816-79-5	0.24036	0.25497	547.66	0.28571	149.11	547.66	1,2	298.15	0.7161
11737	C7H14	2,3-dimethyl-2-pentene	10574-37-5	0.23978	0.25222	553.47	0.28571	154.88	553.47	1,2	298.15	0.7234
11738	C7H14	2,4-dimethyl-2-pentene	625-65-0	0.24395	0.26851	533.21	0.28571	145.45	533.21	1,2	298.15	0.6905
11739	C7H14	3,4-dimethyl-cis-2-pentene	4914-91-4	0.24395	0.26167	542.11	0.28571	159.76	542.11	1,2	298.15	0.7092
11740	C7H14	3,4-dimethyl-trans-2-pentene	4914-92-5	0.24395	0.26095	545.47	0.28571	148.92	545.47	1,2	298.15	0.7124
11741	C7H14	4,4-dimethyl-cis-2-pentene	762-63-0	0.25274	0.27889	534.97	0.28571	137.69	534.97	1,2	298.15	0.6951
11742	C7H14	4,4-dimethyl-trans-2-pentene	690-08-4	0.24764	0.27568	528.63	0.28571	157.92	528.63	1,2	298.15	0.6843
11743	C7H14	3-methyl-2-ethyl-1-butene	7357-93-9	0.24334	0.26170	535.82	0.28571	137.43	535.82	1,2	298.15	0.7043
11744	C7H14	2,3,3-trimethyl-1-butene	594-56-9	0.25770	0.27880	531.00	0.29600	163.30	531.00	1,2	298.15	0.7010
11745	C7H14	3,4-dimethylpent-2-ene	24910-63-2	0.24373	0.26031	537.61	0.28571	149.05	537.61	2	298.15	0.7093
11746	C7H14	1,1,2,2-tetramethylcyclopropane	4127-47-3	0.26119	0.28217	530.00	0.28571	167.25	530.00	2	298.15	0.7093
11747	C7H14	1,1-diethylcyclopropane	1003-19-6	0.26119	0.28217	530.00	0.28571	167.25	530.00	2	298.15	0.7093
11751	C7H14Br2	1,1-dibromoheptane	59104-79-9	0.47295	0.26165	700.05	0.28571	272.75	700.05	1,2	298.15	1.4850
11752	C7H14Br2	1,2-dibromoheptane	42474-21-5	0.47295	0.25809	700.05	0.28571	293.80	700.05	1,2	298.15	1.5024
11753	C7H14Br2	1,5-dibromoheptane	1622-10-2	0.47295	0.25394	700.05	0.28571	293.80	700.05	1,2	298.15	1.5234
11754	C7H14Br2	1,7-dibromoheptane	4549-31-9	0.47295	0.25376	700.05	0.28571	314.85	700.05	1,2	536.15	1.1699
11755	C7H14Br2	2,3-dibromoheptane	21266-88-6	0.47295	0.25703	700.05	0.28571	293.80	700.05	1,2	298.15	1.5077
11756	C7H14Br2	3,4-dibromoheptane	21266-90-0	0.47295	0.25619	700.05	0.28571	293.80	700.05	1,2	298.15	1.5120
11763	C7H14Cl2	1,1-dichloroheptane	821-25-0	0.32549	0.26145	654.02	0.28571	212.99	654.02	1,2	298.15	1.0050
11764	C7H14Cl2	1,2-dichloro-4,4-dimethylpentane	6065-90-3	0.32549	0.25651	654.02	0.28571	254.82	654.02	1,2	298.15	1.0212
11765	C7H14Cl2	1,5-dichloro-3,3-dimethylpentane	62496-53-1	0.32549	0.24779	654.02	0.28571	254.82	654.02	1,2	298.15	1.0514
11766	C7H14Cl2	2,4-dichloro-2,4-dimethylpentane	33553-93-4	0.32549	0.25554	654.02	0.28571	296.65	654.02	1,2	298.15	1.0245
11767	C7H14Cl2	1,2-dichloroheptane	10575-87-8	0.32549	0.24567	654.02	0.28571	254.82	654.02	1,2	298.15	1.0590
11768	C7H14Cl2	1,7-dichloroheptane	821-76-1	0.32549	0.25078	654.02	0.28571	254.82	654.02	1,2	298.15	1.0408
11769	C7H14Cl2	2,2-dichloroheptane	65786-09-6	0.32549	0.26070	654.02	0.28571	254.82	654.02	1,2	298.15	1.0074
11770	C7H14Cl2	4,4-dichloroheptane	89796-76-9	0.32549	0.26275	654.02	0.28571	254.82	654.02	1,2	298.15	1.0008
11772	C7H14F2	1,1-difluoroheptane	407-96-5	0.30063	0.25843	556.10	0.28571	191.15	556.10	1,2	298.15	0.8910
11774	C7H14I2	1,1-diiodoheptane	66675-46-5	0.58912	0.26476	780.77	0.28571	269.27	780.77	1,2	298.15	1.8760
11827	C7H14O	1-heptanal	111-71-7	0.27120	0.26248	603.00	0.28953	230.15	603.00	1,2	298.15	0.8130
11828	C7H14O	3-methylhexanal	19269-28-4	0.27120	0.26218	603.00	0.28571	230.15	603.00	1,2	298.15	0.8161
11828.1	C7H14O	2-methylhexanal	925-54-2	0.26310	0.25131	593.00	0.28571	210.00	593.00	2	298.15	0.8154
11829	C7H14O	2-heptanone	110-43-0	0.27120	0.26114	611.55	0.30447	238.15	611.55	1,2	298.15	0.8110
11830	C7H14O	3-heptanone	106-35-4	0.26341	0.25339	600.16	0.28571	234.15	600.16	1,2	298.15	0.8140
11831	C7H14O	4-heptanone	123-19-3	0.26341	0.25350	595.31	0.28571	240.65	595.31	1,2	298.15	0.8116
11832	C7H14O	3-methyl-2-hexanone	2550-21-2	0.26711	0.25362	593.86	0.28571	203.08	593.86	1,2	298.15	0.8220
11833	C7H14O	4-methyl-2-hexanone	105-42-0	0.26711	0.25856	592.42	0.28571	203.08	592.42	1,2	298.15	0.8085
11834	C7H14O	5-methyl-2-hexanone	110-12-3	0.27120	0.26505	601.00	0.28571	199.25	601.00	1,2	298.15	0.8080
11835	C7H14O	2-methyl-3-hexanone	7379-12-6	0.26711	0.25531	583.80	0.28571	203.08	583.80	1,2	298.15	0.8130
11836	C7H14O	4-methyl-3-hexanone	17042-16-9	0.26711	0.25653	588.11	0.28571	203.08	588.11	1,2	298.15	0.8118
11837	C7H14O	5-methyl-3-hexanone	623-56-3	0.26711	0.25801	588.11	0.28571	203.08	588.11	1,2	298.15	0.8080
11838	C7H14O	3-ethyl-2-pentanone	6137-03-7	0.26711	0.25603	590.99	0.28571	203.08	590.99	1,2	298.15	0.8144
11839	C7H14O	3,3-dimethyl-2-pentanone	20669-04-9	0.27027	0.26038	589.07	0.28571	220.50	589.07	1,2	298.15	0.8119

Table 3 Density of Liquid - Organic Compounds

			density = A B ^ -(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
11840	C7H14O	3,4-dimethyl-2-pentanone	565-78-6	0.27091	0.25950	586.69	0.28571	188.08	586.69	1,2	298.15	0.8150
11841	C7H14O	4,4-dimethyl-2-pentanone	590-50-1	0.27027	0.26367	580.90	0.28571	209.15	580.90	1,2	298.15	0.8000
11842	C7H14O	2,2-dimethyl-3-pentanone	564-04-5	0.27027	0.26066	580.90	0.28571	228.15	580.90	1,2	298.15	0.8075
11843	C7H14O	2,4-dimethyl-3-pentanone	565-80-0	0.27450	0.23383	576.00	0.26180	204.81	576.00	1,2	298.15	0.9120
11844	C7H14O	1-methylcyclohexanol	590-67-0	0.27580	0.23181	635.00	0.31329	299.15	635.00	1,2	430.15	0.7691
11845	C7H14O	cis-2-methylcyclohexanol	7443-70-1	0.27580	0.24294	635.00	0.23687	280.15	635.00	1,2	298.15	0.9320
11846	C7H14O	trans-2-methylcyclohexanol	7443-52-9	0.27580	0.24864	635.00	0.22625	269.15	635.00	1,2	298.15	0.9210
11847	C7H14O	cis-3-methylcyclohexanol	5454-79-5	0.27580	0.23963	635.00	0.28185	267.65	635.00	1,2	298.15	0.9110
11848	C7H14O	trans-3-methylcyclohexanol	7443-55-2	0.27580	0.25106	635.00	0.21950	272.65	635.00	1,2	298.15	0.9180
11849	C7H14O	cis-4-methylcyclohexanol	7731-28-4	0.27580	0.23817	635.00	0.28570	260.38	635.00	1,2	298.15	0.9130
11850	C7H14O	trans-4-methylcyclohexanol	7731-29-5	0.27580	0.24742	635.00	0.25051	260.38	635.00	1,2	298.15	0.9080
11851	C7H14O	trans-2-methylcyclohexanol, (±)	615-39-4	0.27580	0.23599	635.00	0.28571	271.15	635.00	1,2	298.15	0.9200
11855	C7H14O	1-hepten-4-ol	3521-91-3	0.33486	0.32852	601.00	0.28571	251.15	601.00	1,2	298.15	0.8362
11856	C7H14O	2-hepten-4-ol, (±)	115113-98-9	0.33486	0.32632	601.00	0.28571	251.15	601.00	1,2	298.15	0.8409
11857	C7H14O	3-hepten-2-ol	98991-54-9	0.33486	0.33232	601.00	0.28571	251.15	601.00	1,2	298.15	0.8284
11858	C7H14O	6-hepten-2-ol	24395-10-6	0.33486	0.32519	601.00	0.28571	251.15	601.00	1,2	298.15	0.8433
11859	C7H14O	6-hepten-3-ol	19781-77-2	0.33486	0.32691	601.00	0.28571	251.15	601.00	1,2	298.15	0.8396
11860	C7H14O	cis-2-hepten-1-ol	55454-22-3	0.33486	0.32745	601.00	0.28571	251.15	601.00	1,2	298.15	0.8385
11861	C7H14O	trans-2-hepten-1-ol	33467-76-4	0.33486	0.32303	601.00	0.28571	251.15	601.00	1,2	298.15	0.8479
11862	C7H14O	2-methyl-3-hexen-2-ol	18812-62-9	0.33486	0.32279	601.00	0.28571	251.15	601.00	1,2	298.15	0.8484
11863	C7H14O	2-methyl-4-hexen-3-ol	4798-60-1	0.33486	0.32722	601.00	0.28571	251.15	601.00	1,2	298.15	0.8390
11864	C7H14O	2-methyl-5-hexen-2-ol	16744-89-1	0.33486	0.33027	601.00	0.28571	251.15	601.00	1,2	298.15	0.8326
11865	C7H14O	3-methyl-3-hexen-2-ol	110383-31-8	0.33486	0.31940	601.00	0.28571	251.15	601.00	1,2	298.15	0.8558
11866	C7H14O	3-methyl-4-hexen-3-ol	60111-14-0	0.33486	0.28713	601.00	0.28571	251.15	601.00	1,2	298.15	0.9341
11867	C7H14O	3-methyl-5-hexen-3-ol	1569-44-4	0.33486	0.33212	601.00	0.28571	251.15	601.00	1,2	298.15	0.8288
11868	C7H14O	4-methyl-5-hexen-3-ol	1838-77-3	0.33486	0.32532	601.00	0.28571	251.15	601.00	1,2	298.15	0.8430
11869	C7H14O	5-methyl-1-hexen-3-ol	4798-46-3	0.33486	0.33463	601.00	0.28571	251.15	601.00	1,2	298.15	0.8237
11870	C7H14O	5-methyl-2-hexenol	77053-92-0	0.33486	0.33059	601.00	0.28571	251.15	601.00	1,2	298.15	0.8319
11871	C7H14O	isopentyl vinyl ether	39782-38-2	0.28320	0.28492	561.00	0.28571	250.00	561.00	1,2	298.15	0.7783
11875	C7H14O	1-hepten-3-ol	4938-52-7	0.33486	0.32863	601.00	0.28571	251.15	601.00	1,2	298.15	0.8360
11876	C7H14O	cis-4-hepten-1-ol	6191-71-5	0.33486	0.31985	601.00	0.28571	251.15	601.00	2	298.15	0.8548
11877	C7H14O	methylcyclohexanol	25639-42-3	0.27580	0.23748	635.00	0.28571	223.25	635.00	1,2	298.15	0.9152
11878	C7H14O	2-methylcyclohexanol; (cis+trans)	583-59-5	0.27580	0.23236	635.00	0.28571	298.15	635.00	1,2	438.90	0.7828
11879	C7H14O	4-methylcyclohexanol; (cis+trans)	589-91-3	0.27580	0.23786	635.00	0.28571	223.25	635.00	1,2	298.15	0.9140
11880	C7H14O	3-methylcyclohexanol; (cis+trans)	591-23-1	0.27580	0.23786	635.00	0.28571	199.25	635.00	1,2	298.15	0.9140
11881	C7H14O	tert-pentyl vinyl ether	29281-39-8	0.28320	0.28282	561.00	0.28571	230.00	561.00	1,2	298.15	0.7830
11882	C7H14O	1-(2-propenyloxy)butane	3739-64-8	0.28320	0.28282	561.00	0.28571	230.00	561.00	1,2	298.15	0.7830
11884	C7H14O2	heptanoic acid	111-14-8	0.29450	0.25927	680.00	0.30590	265.83	680.00	1,2	298.15	0.9130
11885	C7H14O2	2-ethyl-2-methylbutanoic acid	19889-37-3	0.29450	0.27333	680.00	0.28571	229.49	680.00	2	298.15	0.8846
11886	C7H14O2	2-ethylpentanoic acid, (±)	116908-83-9	0.29450	0.25521	680.00	0.28571	229.49	680.00	1,2	298.15	0.9376
11887	C7H14O2	2-methylhexanoic acid, (±)	22160-12-9	0.29450	0.24914	680.00	0.28571	229.49	680.00	1,2	298.15	0.9570
11888	C7H14O2	3-methylhexanoic acid	3780-58-3	0.29450	0.26273	680.00	0.28571	229.49	680.00	1,2	298.15	0.9148
11889	C7H14O2	4-methylhexanoic acid, (±)	22160-41-4	0.29450	0.26179	680.00	0.28571	193.15	680.00	1,2	298.15	0.9176
11890	C7H14O2	5-methylhexanoic acid	628-46-6	0.29450	0.26413	680.00	0.28571	229.49	680.00	1,2	298.15	0.9107
11891	C7H14O2	hexyl formate	629-33-4	0.28363	0.25652	612.30	0.28571	230.53	612.30	1,2	298.15	0.8731
11892	C7H14O2	pentyl acetate	628-63-7	0.29450	0.26473	598.00	0.29320	202.35	598.00	1,2	298.15	0.8720
11893	C7H14O2	1-methylbutyl acetate	626-38-0	0.29454	0.26672	579.00	0.28571	195.48	579.00	1,2	298.15	0.8628
11894	C7H14O2	2-methylbutyl acetate	624-41-9	0.29454	0.26510	589.00	0.28571	195.48	589.00	1,2	298.15	0.8719
11895	C7H14O2	isopentyl acetate	123-92-2	0.29450	0.26491	599.00	0.30090	194.65	599.00	1,2	298.15	0.8670
11896	C7H14O2	1-ethylpropyl acetate	620-11-1	0.29454	0.26498	577.00	0.28571	195.48	577.00	1,2	298.15	0.8664
11897	C7H14O2	tert-pentyl acetate	625-16-1	0.29655	0.25972	572.00	0.28571	212.90	572.00	2	298.15	0.8841
11898	C7H14O2	1,2-dimethylpropyl acetate	5343-96-4	0.29859	0.27177	576.00	0.28571	180.48	576.00	1,2	298.15	0.8600
11899	C7H14O2	neopentyl acetate	926-41-0	0.29060	0.26533	577.00	0.28571	212.90	577.00	1,2	298.15	0.8539
11900	C7H14O2	sec-pentyl acetate (R)	54638-10-7	0.29480	0.26372	583.38	0.28571	198.72	583.38	1,2	298.15	0.8737
11901	C7H14O2	butyl propanoate	590-01-2	0.29450	0.26588	594.00	0.28571	183.63	594.00	1,2	298.15	0.8720
11902	C7H14O2	isobutyl propanoate	540-42-1	0.29125	0.26391	592.00	0.28571	201.75	592.00	1,2	298.15	0.8667
11903	C7H14O2	sec-butyl propanoate	591-34-4	0.29454	0.26729	579.00	0.28571	195.48	579.00	1,2	298.15	0.8613
11904	C7H14O2	tert-butyl propanoate	20487-40-5	0.29060	0.25041	557.00	0.28571	212.90	557.00	2	298.15	0.8839
11905	C7H14O2	propyl butanoate	105-66-8	0.29450	0.26438	594.00	0.29790	177.95	594.00	1,2	298.15	0.8680
11906	C7H14O2	isopropyl butanoate	638-11-9	0.29125	0.26611	574.00	0.28571	195.48	574.00	1,2	298.15	0.8523
11907	C7H14O2	isopropyl isobutanoate	617-50-5	0.29287	0.27323	584.00	0.28571	186.72	584.00	1,2	298.15	0.8435
11908	C7H14O2	propyl isobutanoate	644-49-5	0.29287	0.25787	584.00	0.28571	186.72	584.00	1,2	298.15	0.8843
11909	C7H14O2	ethyl isovalerate	108-64-5	0.29450	0.26746	587.95	0.28570	173.85	587.95	1,2	298.15	0.8650
11910	C7H14O2	ethyl 2,2-dimethylpropanoate	3938-95-2	0.29272	0.26933	580.50	0.28571	183.65	580.50	1,2	298.15	0.8514
11911	C7H14O2	ethyl 2-methylbutanoate, (+)	10307-61-6	0.29287	0.26349	584.00	0.28571	186.72	584.00	1,2	298.15	0.8689
11912	C7H14O2	ethyl pentanoate	539-82-2	0.29450	0.26470	587.95	0.28571	181.95	587.95	1,2	298.15	0.8723
11913	C7H14O2	methyl 2-ethylbutanoate	816-11-5	0.29287	0.26133	584.00	0.28571	186.72	584.00	1,2	298.15	0.8747
11914	C7H14O2	methyl hexanoate	106-70-7	0.29450	0.26193	587.95	0.28571	202.15	587.95	1,2	298.15	0.8799
11923	C7H14O2	ethyl 2-methylbutyrate	7452-79-1	0.29450	0.26632	587.95	0.28571	185.98	587.95	1,2	298.15	0.8680
11925	C7H14O2	2-methylhexanoic acid	4536-23-6	0.29450	0.26200	680.00	0.28571	229.49	680.00	1,2	298.15	0.9170
11926	C7H14O2	neoheptanoic acid	33113-10-9	0.29450	0.27333	680.00	0.28571	229.49	680.00	2	298.15	0.8846
11927.1	C7H14O2	allyl-tert-butylperoxide	39972-78-6	0.29125	0.27436	563.00	0.28571	213.00	563.00	2	298.15	0.8262
11927.2	C7H14O2	neoheptanoic acid	1185-39-3	0.28613	0.25187	662.00	0.28571	230.00	662.00	2	298.15	0.9147
11931	C7H14O3	ethyl-3-ethoxypropionate	763-69-9	0.31640	0.25709	609.00	0.32154	250.00	609.00	1,2	298.15	0.9450
11934.1	C7H14O3	propylene glycol ethyl ether acetate	54839-24-6	0.31642	0.26757	613.00	0.28571	213.00	613.00	1,2	298.15	0.9410
11960	C7H14S	thiacyclooctane	6572-99-2	0.33271	0.29275	726.84	0.28571	256.18	726.84	1,2	298.15	0.9569
11961	C7H14S	2-ethylthiacyclohexane	1613-52-1	0.32043	0.28197	646.42	0.28571	258.98	646.42	1,2	298.15	0.9257
11962	C7H14S	3-ethylthiacyclohexane	61568-48-7	0.32043	0.28197	646.42	0.28571	258.98	646.42	1,2	298.15	0.9257
11963	C7H14S	4-ethylthiacyclohexane	40324-31-0	0.32043	0.28197	646.42	0.28571	258.98	646.42	1,2	298.15	0.9257
11964	C7H14S	2,2-dimethylthiacyclohexane	---	0.32201	0.29254	657.02	0.28571	282.88	657.02	1,2	298.15	0.9057

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$				(density - g/ml, T - K)					
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
11965	C7H14S	2,cis-3-dimethylthiacyclohexane	---	0.32122	0.28958	641.36	0.28571	254.74	641.36	1,2	298.15	0.9057
11966	C7H14S	2,trans-3-dimethylthiacyclohexane	---	0.32122	0.28958	641.36	0.28571	254.74	641.36	1,2	298.15	0.9057
11967	C7H14S	2,cis-4-dimethylthiacyclohexane	---	0.32122	0.28958	641.36	0.28571	254.74	641.36	1,2	298.15	0.9057
11968	C7H14S	2,trans-4-dimethylthiacyclohexane	---	0.32122	0.28958	641.36	0.28571	254.74	641.36	1,2	298.15	0.9057
11969	C7H14S	2,cis-5-dimethylthiacyclohexane	---	0.32122	0.28958	641.36	0.28571	254.74	641.36	1,2	298.15	0.9057
11970	C7H14S	2,trans-5-dimethylthiacyclohexane	---	0.32122	0.28958	641.36	0.28571	254.74	641.36	1,2	298.15	0.9057
11971	C7H14S	2,cis-6-dimethylthiacyclohexane	---	0.32122	0.28958	641.36	0.28571	254.74	641.36	1,2	298.15	0.9057
11972	C7H14S	2,trans-6-dimethylthiacyclohexane	---	0.32122	0.28958	641.36	0.28571	254.74	641.36	1,2	298.15	0.9057
11973	C7H14S	3,3-dimethylthiacyclohexane	---	0.32201	0.29254	657.02	0.28571	282.88	657.02	1,2	298.15	0.9057
11974	C7H14S	3,cis-4-dimethylthiacyclohexane	---	0.32122	0.28958	641.36	0.28571	254.74	641.36	1,2	298.15	0.9057
11975	C7H14S	3,trans-4-dimethylthiacyclohexane	---	0.32122	0.28958	641.36	0.28571	254.74	641.36	1,2	298.15	0.9057
11976	C7H14S	3,cis-5-dimethylthiacyclohexane	---	0.32122	0.28958	641.36	0.28571	254.74	641.36	1,2	298.15	0.9057
11977	C7H14S	3,trans-5-dimethylthiacyclohexane	---	0.32122	0.28958	641.36	0.28571	254.74	641.36	1,2	298.15	0.9057
11978	C7H14S	4,4-dimethylthiacyclohexane	---	0.32201	0.29254	657.02	0.28571	282.88	657.02	1,2	298.15	0.9057
11982	C7H15Br	1-bromoheptane	629-04-9	0.40070	0.28930	651.00	0.28571	217.05	651.00	1,2	298.15	1.1350
11983	C7H15Br	2-bromoheptane	1974-04-5	0.40070	0.29298	651.00	0.28571	320.15	651.00	1,2	439.15	0.9765
11984	C7H15Br	4-bromoheptane	998-93-6	0.40070	0.29071	651.00	0.28571	268.60	651.00	1,2	298.15	1.1304
11988	C7H15Cl	1-chloroheptane	629-06-1	0.28258	0.25715	621.08	0.28571	203.65	621.08	1,2	298.15	0.8718
11989	C7H15Cl	2-chloro-2,3-dimethylpentane	59889-45-1	0.28258	0.25871	621.08	0.28571	306.40	621.08	2	413.42	0.7595
11990	C7H15Cl	2-chloro-2,4-dimethylpentane	35951-33-8	0.28258	0.26259	621.08	0.28571	306.40	621.08	1,2	401.15	0.7635
11991	C7H15Cl	3-chloro-2,3-dimethylpentane	595-38-0	0.28258	0.25273	621.08	0.28571	306.40	621.08	1,2	401.15	0.7855
11992	C7H15Cl	4-chloro-2,2-dimethylpentane	33429-72-0	0.28258	0.26284	621.08	0.28571	306.40	621.08	1,2	401.15	0.7629
11993	C7H15Cl	3-chloro-3-ethylpentane	994-25-2	0.28258	0.25386	621.08	0.28571	306.40	621.08	1,2	416.65	0.7666
11994	C7H15Cl	2-chloroheptane	1001-89-4	0.28258	0.26034	621.08	0.28571	306.40	621.08	1,2	413.42	0.7560
11995	C7H15Cl	3-chloroheptane	999-52-0	0.28258	0.25969	621.08	0.28571	306.40	621.08	1,2	417.15	0.7535
11996	C7H15Cl	4-chloroheptane	998-95-8	0.28258	0.25897	621.08	0.28571	306.40	621.08	1,2	417.15	0.7550
11997	C7H15Cl	1-chloro-3-methylhexane	101257-63-0	0.28258	0.25699	621.08	0.28571	306.40	621.08	1,2	424.15	0.7519
11998	C7H15Cl	2-chloro-2-methylhexane	4398-65-6	0.28258	0.26168	621.08	0.28571	306.40	621.08	1,2	408.15	0.7585
11999	C7H15Cl	2-chloro-5-methylhexane	58766-17-9	0.28258	0.26186	621.08	0.28571	306.40	621.08	1,2	411.15	0.7551
12000	C7H15Cl	3-chloro-3-methylhexane	43197-78-0	0.28258	0.25625	621.08	0.28571	306.40	621.08	1,2	408.15	0.7703
12001	C7H15Cl	2-chloro-2,3,3-trimethylbutane	918-07-0	0.28258	0.25871	621.08	0.28571	409.15	621.08	2	413.42	0.7595
12015	C7H15F	1-fluoroheptane	661-11-0	0.26680	0.25414	555.80	0.28571	200.15	555.80	1,2	298.15	0.8013
12020	C7H15I	1-iodoheptane	4282-40-0	0.50638	0.30417	646.56	0.28571	224.95	646.56	1,2	298.15	1.3730
12021	C7H15I	2-iodoheptane	18589-29-2	0.50638	0.32495	646.56	0.28571	224.95	646.56	1,2	298.15	1.2990
12022	C7H15I	3-iodoheptane	31294-92-5	0.50638	0.30707	646.56	0.28571	224.95	646.56	1,2	298.15	1.3621
12023	C7H15I	4-iodoheptane	31294-93-6	0.50638	0.31184	646.56	0.28571	224.95	646.56	2	298.15	1.3446
12024	C7H15N	N-methylcyclohexylamine	100-60-7	0.28800	0.26575	622.00	0.28570	264.65	622.00	1,2	298.15	0.8650
12025	C7H15N	cyclohexanemethanamine	3218-02-8	0.28800	0.26391	622.00	0.28571	264.65	622.00	1,2	298.15	0.8700
12026	C7H15N	cis-2-methylcyclohexylamine	2164-19-4	0.28800	0.26262	622.00	0.28571	264.65	622.00	1,2	298.15	0.8735
12027	C7H15N	trans-2-methylcyclohexylamine	931-10-2	0.28800	0.26600	622.00	0.28571	264.65	622.00	1,2	298.15	0.8643
12028	C7H15N	cis-3-methylcyclohexylamine	1193-16-4	0.28800	0.27097	622.00	0.28571	264.65	622.00	1,2	298.15	0.8511
12029	C7H15N	trans-3-methylcyclohexylamine	1193-17-5	0.28800	0.27021	622.00	0.28571	264.65	622.00	1,2	298.15	0.8531
12030	C7H15N	cis-4-methylcyclohexylamine	2523-56-0	0.28800	0.27040	622.00	0.28571	264.65	622.00	1,2	298.15	0.8526
12031	C7H15N	trans-4-methylcyclohexylamine	2523-55-9	0.28800	0.27131	622.00	0.28571	264.65	622.00	1,2	298.15	0.8503
12049	C7H15N	3-methylcyclohexylamine	6850-35-7	0.28800	0.26950	622.00	0.28571	264.65	622.00	1,2	298.15	0.8550
12050	C7H15N	2-methylcyclohexylamine; (cis+trans)	7003-32-9	0.28800	0.27026	622.00	0.28571	264.65	622.00	1,2	298.15	0.8530
12051	C7H15N	4-methylcyclohexylamine	6321-23-9	0.28800	0.27026	622.00	0.28571	264.65	622.00	1,2	298.15	0.8530
12075	C7H15NO2	1-nitroheptane	693-39-0	0.28499	0.24401	675.30	0.28571	311.76	675.30	1,2	486.15	0.7598
12112	C7H16	heptane	142-82-5	0.23200	0.25949	540.26	0.27910	182.57	540.26	1,2	298.15	0.6820
12113	C7H16	2-methylhexane	591-76-4	0.23800	0.26963	530.37	0.27900	154.90	530.37	1,2	298.15	0.6740
12114	C7H16	3-methylhexane	589-34-4	0.24800	0.28471	535.25	0.26250	153.75	535.25	1,2	298.15	0.6840
12115	C7H16	3-ethylpentane	617-78-7	0.24090	0.26227	540.64	0.29140	154.55	540.64	1,2	298.15	0.6950
12116	C7H16	2,2-dimethylpentane	590-35-2	0.24090	0.27064	520.50	0.28300	149.34	520.50	1,2	298.15	0.6730
12117	C7H16	2,3-dimethylpentane	565-59-3	0.25500	0.28890	537.35	0.27130	138.15	537.35	1,2	298.15	0.6910
12118	C7H16	2,4-dimethylpentane	108-08-7	0.23970	0.27539	519.79	0.26950	153.91	519.79	1,2	298.15	0.6680
12119	C7H16	3,3-dimethylpentane	562-49-2	0.24200	0.26181	536.40	0.30840	138.70	536.40	1,2	298.15	0.6870
12120	C7H16	2,2,3-trimethylbutane	464-06-2	0.25180	0.28248	531.17	0.28000	248.57	531.17	1,2	298.15	0.6870
12121	C7H16	3-methylhexane, (S)-	6131-24-4	0.24314	0.27157	532.41	0.28571	154.15	532.41	1,2	298.15	0.6817
12164	C7H16O	1-heptanol	111-70-6	0.26700	0.26298	631.90	0.27300	239.15	631.90	1,2	298.15	0.8200
12165	C7H16O	2-heptanol	543-49-7	0.26900	0.26590	588.00	0.25340	243.00	588.00	1,2	298.15	0.8140
12166	C7H16O	3-heptanol	589-82-2	0.26380	0.25029	585.83	0.28571	203.15	585.83	1,2	298.15	0.8170
12167	C7H16O	4-heptanol	589-55-9	0.26380	0.25093	583.10	0.28571	231.15	583.10	1,2	298.15	0.8140
12168	C7H16O	2-methyl-1-hexanol	624-22-6	0.26380	0.24952	594.41	0.28571	213.97	594.41	1,2	298.15	0.8230
12169	C7H16O	3-methyl-1-hexanol	13231-81-7	0.26380	0.25115	606.68	0.28571	213.97	606.68	1,2	298.15	0.8240
12170	C7H16O	4-methyl-1-hexanol	818-49-5	0.26380	0.25285	608.04	0.28571	213.97	608.04	1,2	298.15	0.8200
12171	C7H16O	5-methyl-1-hexanol	627-98-5	0.26900	0.25074	605.00	0.33120	213.97	605.00	1,2	298.15	0.8120
12172	C7H16O	2-methyl-2-hexanol	625-23-0	0.26683	0.25427	573.58	0.28571	231.39	573.58	1,2	298.15	0.8100
12173	C7H16O	3-methyl-2-hexanol	2313-65-7	0.26744	0.25210	582.81	0.28571	198.97	582.81	1,2	298.15	0.8220
12174	C7H16O	4-methyl-2-hexanol	2313-61-3	0.26744	0.25374	581.44	0.28571	198.97	581.44	1,2	298.15	0.8170
12175	C7H16O	5-methyl-2-hexanol	627-59-8	0.26744	0.25644	581.44	0.28571	198.97	581.44	1,2	298.15	0.8100
12176	C7H16O	2-methyl-3-hexanol	617-29-8	0.26744	0.25110	573.21	0.28571	198.97	573.21	1,2	298.15	0.8200
12177	C7H16O	3-methyl-3-hexanol	597-96-6	0.26683	0.25008	573.58	0.28571	231.39	573.58	1,2	298.15	0.8210
12178	C7H16O	4-methyl-3-hexanol	615-29-2	0.26744	0.25211	578.70	0.28571	198.97	578.70	1,2	298.15	0.8200
12179	C7H16O	5-methyl-3-hexanol	623-55-2	0.26744	0.24850	577.32	0.28571	198.97	577.32	1,2	298.15	0.8290
12180	C7H16O	2-ethyl-1-pentanol	27522-11-8	0.26380	0.24800	598.50	0.28571	213.97	598.50	1,2	298.15	0.8290
12181	C7H16O	3-ethyl-1-pentanol	66225-51-2	0.26380	0.24763	598.50	0.28571	213.97	598.50	1,2	298.15	0.8300
12182	C7H16O	2,2-dimethyl-1-pentanol	2370-12-9	0.26683	0.24927	587.65	0.28571	231.39	587.65	1,2	298.15	0.8300
12183	C7H16O	2,3-dimethyl-1-pentanol	10143-23-4	0.26744	0.25046	599.26	0.28571	198.97	599.26	1,2	298.15	0.8340
12184	C7H16O	2,4-dimethyl-1-pentanol	6305-71-1	0.26744	0.25643	592.40	0.28571	198.97	592.40	1,2	298.15	0.8150
12185	C7H16O	3,3-dimethyl-1-pentanol	19264-94-9	0.26683	0.25276	604.20	0.28571	231.39	604.20	1,2	298.15	0.8280

Table 3 Density of Liquid - Organic Compounds

			density = A B^-(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
12186	C7H16O	3,4-dimethyl-1-pentanol	6570-87-2	0.26744	0.25326	600.63	0.28571	198.97	600.63	1,2	298.15	0.8270
12187	C7H16O	4,4-dimethyl-1-pentanol	3121-79-7	0.26683	0.25808	597.30	0.28571	231.39	597.30	1,2	298.15	0.8110
12188	C7H16O	3-ethyl-2-pentanol	609-27-8	0.26744	0.24765	582.81	0.28571	198.97	582.81	1,2	298.15	0.8340
12189	C7H16O	2,3-dimethyl-2-pentanol	4911-70-0	0.27056	0.25142	571.87	0.28571	216.39	571.87	1,2	298.15	0.8280
12190	C7H16O	2,4-dimethyl-2-pentanol	625-06-9	0.27056	0.25750	563.54	0.28571	216.39	563.54	1,2	298.15	0.8080
12191	C7H16O	3,3-dimethyl-2-pentanol	19781-24-9	0.27056	0.25497	582.97	0.28571	216.39	582.97	1,2	298.15	0.8240
12192	C7H16O	3,4-dimethyl-2-pentanol	64502-86-9	0.27119	0.25278	587.70	0.28571	183.97	587.70	1,2	298.15	0.8340
12193	C7H16O	4,4-dimethyl-2-pentanol	6144-93-0	0.27056	0.25926	570.48	0.28571	213.15	570.48	1,2	298.15	0.8070
12194	C7H16O	3-ethyl-3-pentanol	597-49-9	0.26683	0.24304	573.17	0.28571	260.75	573.17	1,2	298.15	0.8400
12195	C7H16O	2,2-dimethyl-3-pentanol	3970-62-5	0.27056	0.25289	567.71	0.28571	278.15	567.71	1,2	298.15	0.8220
12196	C7H16O	2,3-dimethyl-3-pentanol	595-41-5	0.27056	0.24872	573.26	0.28571	216.39	573.26	1,2	298.15	0.8360
12197	C7H16O	2,4-dimethyl-3-pentanol	600-36-2	0.27119	0.25256	568.11	0.28571	265.15	568.11	1,2	298.15	0.8250
12198	C7H16O	2-methyl-2-ethyl-1-butanol	18371-13-6	0.26683	0.25243	593.16	0.28571	231.39	593.16	1,2	298.15	0.8240
12199	C7H16O	3-methyl-2-ethyl-1-butanol	32444-34-1	0.26744	0.25037	596.52	0.28571	198.97	596.52	1,2	298.15	0.8330
12200	C7H16O	2,2,3-trimethyl-1-butanol	55505-23-2	0.27056	0.25031	596.85	0.28571	216.39	596.85	1,2	298.15	0.8430
12201	C7H16O	2,3,3-trimethyl-1-butanol	36794-64-6	0.27056	0.25805	601.01	0.28571	216.39	601.01	1,2	298.15	0.8240
12202	C7H16O	2,3,3-trimethyl-2-butanol	594-83-2	0.27374	0.25060	568.02	0.28571	290.15	568.02	1,2	298.15	0.8380
12203	C7H16O	2,4-dimethyl-1-pentanol, (±)	111768-02-6	0.26774	0.26632	587.20	0.28571	219.25	587.20	1,2	298.15	0.7888
12204	C7H16O	2-heptanol, (±)	52390-72-4	0.26774	0.25694	587.20	0.28571	219.25	587.20	1,2	298.15	0.8123
12205	C7H16O	3-heptanol, (S)	26549-25-7	0.26774	0.25466	587.20	0.28571	203.15	587.20	1,2	298.15	0.8182
12206	C7H16O	2-methyl-1-hexanol, (±)	111768-04-8	0.26774	0.25342	587.20	0.28571	219.25	587.20	1,2	298.15	0.8215
12207	C7H16O	3-methyl-1-hexanol, (±)	111768-08-2	0.26774	0.25349	587.20	0.28571	219.25	587.20	1,2	298.15	0.8213
12208	C7H16O	4-methyl-1-hexanol, (±)	111768-05-9	0.26774	0.25420	587.20	0.28571	219.25	587.20	1,2	298.15	0.8194
12209	C7H16O	2-methyl-3-hexanol, (±)	100295-82-7	0.26774	0.24803	587.20	0.28571	219.25	587.20	1,2	298.15	0.8360
12210	C7H16O	5-methyl-3-hexanol, (±)	100295-83-8	0.26774	0.25863	587.20	0.28571	219.25	587.20	1,2	298.15	0.8079
12211	C7H16O	isopropyl-tert-butyl-ether	17348-59-3	0.27120	0.28216	558.21	0.28571	177.80	558.21	1,2	298.15	0.7500
12212	C7H16O	butyl propyl ether	3073-92-5	0.27120	0.26993	558.21	0.28571	177.80	558.21	1,2	298.15	0.7772
12212.1	C7H16O	isopropyl isobutyl ether	78448-33-6	0.30391	0.32854	537.00	0.28571	180.00	537.00	1,2	298.15	0.7350
12213	C7H16O	2-ethoxy-2-methylbutane	919-94-8	0.27120	0.28440	558.21	0.28571	177.80	558.21	1,2	298.15	0.7452
12214	C7H16O	ethyl isopentyl ether	628-04-6	0.27120	0.27515	558.21	0.28571	177.80	558.21	1,2	298.15	0.7653
12215	C7H16O	ethyl pentyl ether	17952-11-3	0.27120	0.27849	558.21	0.28571	177.80	558.21	1,2	298.15	0.7579
12216	C7H16O	hexyl methyl ether	4747-07-3	0.27120	0.25543	558.21	0.28571	177.80	558.21	2	298.15	0.8125
12217	C7H16O	1-(1-methylethoxy)butane	1860-27-1	0.27120	0.28166	558.21	0.28571	177.80	558.21	1,2	298.15	0.7511
12218	C7H16O	2-methyl-1-propoxypropane	15268-49-2	0.27120	0.28182	558.21	0.28571	177.80	558.21	1,2	298.15	0.7507
12219	C7H16O	2-methyl-2-propoxypropane	29072-93-3	0.27120	0.28347	558.21	0.28571	177.80	558.21	1,2	298.15	0.7472
12220	C7H16O	(S)-(+)-2-heptanol	6033-23-4	0.26774	0.25665	587.20	0.28571	219.25	587.20	1,2	298.15	0.8130
12221	C7H16O	(R)-(-)-2-heptanol	6033-24-5	0.26774	0.25473	587.20	0.28571	219.25	587.20	1,2	298.15	0.8180
12224	C7H16O2	1,2-heptanediol	3710-31-4	0.28771	0.25581	661.26	0.28571	274.79	661.26	2	298.15	0.9075
12225	C7H16O2	1,3-heptanediol	23433-04-7	0.28771	0.25748	675.49	0.28571	274.79	675.49	2	298.15	0.9076
12226	C7H16O2	1,4-heptanediol	40646-07-9	0.28771	0.24663	702.65	0.28571	274.79	702.65	1,2	298.15	0.9510
12227	C7H16O2	1,5-heptanediol	60096-09-5	0.29221	0.24188	660.61	0.28571	283.23	660.61	1,2	298.15	0.9660
12228	C7H16O2	1,6-heptanediol	13175-27-4	0.28771	0.23437	627.98	0.28571	274.79	627.98	1,2	298.15	0.9620
12229	C7H16O2	1,7-heptanediol	629-30-1	0.28400	0.23934	683.18	0.28571	293.15	683.18	1,2	298.15	0.9560
12230	C7H16O2	2,3-heptanediol	21508-07-6	0.29152	0.25968	660.11	0.28571	259.79	660.11	2	298.15	0.9075
12231	C7H16O2	2,4-heptanediol	20748-86-1	0.29152	0.25405	660.11	0.28571	259.79	660.11	1,2	298.15	0.9244
12232	C7H16O2	2,6-heptanediol	5969-12-0	0.29152	0.25968	660.11	0.28571	259.79	660.11	2	298.15	0.9075
12233	C7H16O2	2-methyl-1,2-hexanediol	56255-50-6	0.29088	0.25705	644.63	0.28571	292.21	644.63	2	298.15	0.9074
12234	C7H16O2	2-methyl-2,4-hexanediol	66225-35-2	0.29477	0.25879	677.27	0.28571	277.21	677.27	1,2	298.15	0.9265
12235	C7H16O2	2-methyl-2,5-hexanediol	29044-06-2	0.29477	0.26514	677.27	0.28571	309.65	677.27	2	517.03	0.7102
12236	C7H16O2	3-methyl-1,6-hexanediol	4089-71-8	0.28771	0.25148	627.98	0.28571	274.79	627.98	2	298.15	0.9072
12237	C7H16O2	3-methyl-2,4-hexanediol	---	0.29543	0.26754	692.59	0.28571	244.79	692.59	2	298.15	0.9078
12238	C7H16O2	3-methyl-3,4-hexanediol	18938-47-1	0.29477	0.26514	677.27	0.28571	277.21	677.27	2	298.15	0.9077
12239	C7H16O2	4-methyl-1,5-hexanediol	66225-37-4	0.29152	0.25968	660.11	0.28571	259.79	660.11	2	298.15	0.9075
12240	C7H16O2	4-methyl-2,4-hexanediol	38836-25-8	0.29477	0.26514	677.27	0.28571	271.15	677.27	2	298.15	0.9077
12241	C7H16O2	5-methyl-1,5-hexanediol	1462-11-9	0.29088	0.25705	644.63	0.28571	292.21	644.63	2	298.15	0.9074
12242	C7H16O2	5-methyl-2,4-hexanediol	54877-00-8	0.29543	0.26754	692.59	0.28571	244.79	692.59	2	298.15	0.9078
12243	C7H16O2	2-ethyl-1,3-pentanediol	29887-11-4	0.28218	0.24806	645.60	0.28571	258.42	645.60	2	298.15	0.9073
12244	C7H16O2	2-ethyl-1,5-pentanediol	14189-13-0	0.28771	0.25148	627.98	0.28571	274.79	627.98	2	298.15	0.9072
12245	C7H16O2	3-ethyl-2,3-pentanediol	66225-32-9	0.29477	0.24170	628.77	0.28571	277.21	628.77	1,2	298.15	0.9610
12246	C7H16O2	3-ethyl-2,4-pentanediol	66225-33-0	0.29543	0.25944	626.93	0.28571	244.79	626.93	2	298.15	0.9073
12247	C7H16O2	2,2-dimethyl-1,3-pentanediol	2157-31-5	0.29477	0.26002	636.17	0.28571	331.15	636.17	2	485.65	0.7194
12248	C7H16O2	2,2-dimethyl-1,5-pentanediol	3121-82-2	0.29088	0.25705	644.63	0.28571	292.21	644.63	2	298.15	0.9074
12249	C7H16O2	2,3-dimethyl-1,3-pentanediol	66225-52-3	0.29477	0.26514	677.27	0.28571	277.21	677.27	2	298.15	0.9077
12250	C7H16O2	2,3-dimethyl-2,3-pentanediol	6931-70-0	0.29809	0.27064	695.12	0.28571	294.63	695.12	2	298.15	0.9078
12251	C7H16O2	DL-2,4-dimethyl-1,5-pentanediol	54630-82-9	0.29152	0.25968	660.11	0.28571	259.79	660.11	2	298.15	0.9075
12252	C7H16O2	meso-2,4-dimethyl-1,5-pentanediol	2121-69-9	0.29152	0.25968	660.11	0.28571	259.79	660.11	2	298.15	0.9075
12253	C7H16O2	2,4-dimethyl-2,3-pentanediol	66225-53-4	0.29876	0.25955	604.17	0.28571	332.15	604.17	2	459.15	0.7328
12254	C7H16O2	2,4-dimethyl-2,4-pentanediol	24892-49-7	0.29809	0.26143	621.29	0.28571	271.15	621.29	2	298.15	0.9072
12255	C7H16O2	3,3-dimethyl-1,5-pentanediol	53120-74-4	0.29088	0.25705	644.63	0.28571	292.21	644.63	2	298.15	0.9074
12256	C7H16O2	3,4-dimethyl-1,4-pentanediol	63521-36-8	0.29477	0.26514	677.27	0.28571	277.21	677.27	2	298.15	0.9077
12257	C7H16O2	4,4-dimethyl-1,2-pentanediol	66225-54-5	0.29477	0.26514	677.27	0.28571	277.21	677.27	2	298.15	0.9077
12258	C7H16O2	erythro-4,4-dimethyl-2,3-pentanediol	23646-57-3	0.29876	0.27294	710.30	0.28571	347.15	710.30	2	539.81	0.7087
12259	C7H16O2	threo-4,4-dimethyl-2,3-pentanediol	23646-58-4	0.29876	0.27294	710.30	0.28571	350.15	710.30	2	539.81	0.7087
12260	C7H16O2	2-propyl-1,4-butanediol	62946-68-3	0.28771	0.25148	627.98	0.28571	274.79	627.98	2	298.15	0.9072
12261	C7H16O2	2-isopropyl-1,4-butanediol	39497-66-0	0.29152	0.25968	660.11	0.28571	259.79	660.11	2	298.15	0.9075
12262	C7H16O2	2-methyl-3-ethyl-1,4-butanediol	---	0.29152	0.25968	660.11	0.28571	259.79	660.11	2	298.15	0.9075
12263	C7H16O2	2-sec-butyl-1,3-propanediol	33673-01-7	0.29152	0.25968	660.11	0.28571	322.15	660.11	2	508.21	0.7071
12264	C7H16O2	2-methyl-2-propyl-1,3-propanediol	78-26-2	0.29088	0.25959	664.98	0.28571	328.85	664.98	2	509.85	0.7082
12265	C7H16O2	2,2-diethyl-1,3-propanediol	115-76-4	0.29088	0.21928	661.45	0.28571	334.55	661.45	1,2	507.15	0.7916
12266	C7H16O2	1-butoxy-2-propanol	5131-66-8	0.28705	0.25951	618.00	0.28571	257.70	618.00	1,2	298.15	0.8776

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
12270	C7H16O2	2-(pentyloxy)ethanol	6196-58-3	0.28705	0.25761	618.00	0.28571	257.70	618.00	1,2	298.15	0.8830
12272	C7H16O2	1-tert-butoxy-2-propanol	57018-52-7	0.28705	0.26153	618.00	0.28571	217.25	618.00	1,2	298.15	0.8720
12274	C7H16O2	1-isobutoxy-2-propanol	23436-19-3	0.28705	0.24937	618.00	0.28571	298.15	618.00	2	438.15	0.7618
12275	C7H16O2	propylene glycol butyl ether, isomers	29387-86-8	0.28705	0.25690	618.00	0.28571	257.70	618.00	1,2	298.15	0.8850
12275.1	C7H16O2	propylene glycol 2-tert-butyl ether	94023-15-1	0.30115	0.27263	578.00	0.28571	200.00	578.00	2	298.15	0.8661
12275.2	C7H16O2	diethylene glycol monopropyl ether	6881-94-3	0.27035	0.25557	679.00	0.28571	220.85	679.00	2	298.15	0.8594
12276	C7H16O2	1-butoxy-2-methoxyethane	13343-98-1	0.28705	0.24937	618.00	0.28571	257.70	618.00	2	298.15	0.9071
12277	C7H16O2	3-butoxy-1-propanol	10215-33-5	0.28705	0.24937	618.00	0.28571	257.70	618.00	2	298.15	0.9071
12278	C7H16O2	n-butoxypropanol (mixed isomers)	63716-40-5	0.28705	0.24937	618.00	0.28571	257.70	618.00	2	298.15	0.9071
12279	C7H16O2	isobutoxypropanol, mixed isomers	63716-39-2	0.28705	0.24937	618.00	0.28571	257.70	618.00	2	298.15	0.9071
12300	C7H16S	heptyl mercaptan	1639-09-4	0.29010	0.27753	645.00	0.30330	229.92	645.00	1,2	298.15	0.8390
12301	C7H16S	2-heptanethiol	1628-00-2	0.28023	0.27129	632.00	0.28571	132.15	632.00	1,2	298.15	0.8311
12302	C7H16S	methyl hexyl sulfide	20291-60-5	0.27470	0.26277	638.37	0.28571	206.35	638.37	1,2	298.15	0.8390
12303	C7H16S	ethyl pentyl sulfide	26158-99-6	0.27470	0.26277	638.37	0.28571	206.66	638.37	1,2	298.15	0.8390
12304	C7H16S	propyl butyl sulfide	1613-46-3	0.27470	0.26479	653.50	0.28571	206.66	653.50	1,2	298.15	0.8390
12315	C7H17N	heptylamine	111-68-2	0.24460	0.25270	607.00	0.26588	254.15	607.00	1,2	298.15	0.7720
12316	C7H17N	2,4-dimethyl-2-pentanamine	64379-30-2	0.25091	0.25039	565.35	0.28571	254.15	565.35	1,2	298.15	0.7673
12317	C7H17N	2-heptanamine	123-82-0	0.25091	0.25293	565.35	0.28571	254.15	565.35	1,2	298.15	0.7611
12318	C7H17N	4-heptanamine	16751-59-0	0.25091	0.25236	565.35	0.28571	254.15	565.35	1,2	298.15	0.7625
12319	C7H17N	3-methyl-1-hexanamine	65530-93-0	0.25091	0.24814	565.35	0.28571	254.15	565.35	1,2	298.15	0.7729
12320	C7H17N	4-methyl-2-hexanamine	105-41-9	0.25091	0.25297	565.35	0.28571	254.15	565.35	1,2	298.15	0.7610
12321	C7H17N	4-methyl-1-hexylamine	34263-68-8	0.25091	0.24711	565.35	0.28571	254.15	565.35	1,2	298.15	0.7755
12322	C7H17N	methylhexylamine	35161-70-7	0.25323	0.26239	586.80	0.28571	235.15	586.80	1,2	298.15	0.7550
12323	C7H17N	ethylpentylamine	17839-26-8	0.25323	0.26338	575.00	0.28571	220.81	575.00	1,2	298.15	0.7477
12324	C7H17N	dimethylpentylamine	26153-88-8	0.25323	0.27215	584.20	0.28571	200.62	584.20	1,2	298.15	0.7318
12325	C7H17N	dimethyl-2-pentylamine	57303-85-2	0.25075	0.26957	553.21	0.28571	185.62	553.21	1,2	298.15	0.7171
12326	C7H17N	dimethyl-3-pentylamine	18636-94-7	0.25075	0.25667	563.35	0.28571	185.62	563.35	1,2	298.15	0.7507
12327	C7H17N	dimethyl-2-methylbutylamine	66225-39-6	0.25075	0.25575	561.68	0.28571	185.62	561.68	1,2	298.15	0.7521
12328	C7H17N	dimethyl-3-methylbutylamine	2315-43-7	0.25075	0.25536	559.73	0.28571	185.62	559.73	1,2	298.15	0.7521
12329	C7H17N	dimethyl-1,1-dimethylpropylamine	57757-60-5	0.25351	0.27068	574.99	0.28571	203.04	574.99	1,2	298.15	0.7321
12330	C7H17N	dimethyl-1,2-dimethylpropylamine	66225-38-5	0.25075	0.26518	565.30	0.28571	185.62	565.30	1,2	298.15	0.7321
12331	C7H17N	dimethyl-2,2-dimethylpropylamine	10076-31-0	0.25351	0.27050	574.03	0.28571	203.04	574.03	1,2	298.15	0.7321
12332	C7H17N	methylethylbutylamine	66225-40-9	0.24752	0.26006	560.63	0.28571	200.62	560.63	1,2	298.15	0.7320
12333	C7H17N	methylethyl-sec-butylamine	66225-41-0	0.25075	0.26856	544.53	0.28571	185.62	544.53	1,2	298.15	0.7152
12334	C7H17N	methylethylisobutylamine	60247-14-5	0.25075	0.26333	550.32	0.28571	185.62	550.32	1,2	298.15	0.7293
12335	C7H17N	methylethyl-tert-butylamine	52841-28-8	0.25351	0.26289	563.23	0.28571	203.04	563.23	1,2	298.15	0.7444
12336	C7H17N	methyldipropylamine	3405-42-3	0.24752	0.25144	556.46	0.28571	200.62	556.46	1,2	298.15	0.7501
12337	C7H17N	methylpropylisopropylamine	66225-42-1	0.25075	0.25601	558.79	0.28571	185.62	558.79	1,2	298.15	0.7501
12338	C7H17N	methyldiisopropylamine	10342-97-9	0.25407	0.26110	561.82	0.28571	170.62	561.82	1,2	298.15	0.7495
12339	C7H17N	diethylpropylamine	4458-31-5	0.24752	0.25596	553.45	0.28571	200.62	553.45	1,2	298.15	0.7380
12340	C7H17N	diethylisopropylamine	6006-15-1	0.25075	0.25949	552.49	0.28571	185.62	552.49	1,2	298.15	0.7390
12341	C7H17N	N-tert-butylisopropylamine	7515-80-2	0.25091	0.26771	565.35	0.28571	227.98	565.35	1,2	298.15	0.7270
12342	C7H17N	(S)-2-heptylamine	44745-29-1	0.25091	0.25093	565.35	0.28571	254.15	565.35	1,2	298.15	0.7660
12343	C7H17N	(R)-2-heptylamine	6240-90-0	0.25091	0.25093	565.35	0.28571	254.15	565.35	1,2	298.15	0.7660
12344	C7H17N	N-propylbutylamine	20193-21-9	0.25091	0.25972	565.35	0.28571	227.98	565.35	1,2	298.15	0.7450
12345	C7H17N	3-aminoheptane	28292-42-4	0.25091	0.25860	565.35	0.28571	254.15	565.35	2	298.15	0.7476
12346	C7H17N	5-methyl-2-hexylamine	28292-43-5	0.25091	0.25860	565.35	0.28571	254.15	565.35	2	298.15	0.7476
12347	C7H17NO	1-(diethylamino)-2-propanol, (±)	78738-36-0	0.28023	0.27490	716.00	0.28571	286.65	716.00	1,2	298.15	0.8479
12348	C7H17NO	2-(diethylamino)-1-propanol	611-12-1	0.28023	0.26773	716.00	0.28571	260.52	716.00	1,2	298.15	0.8673
12349	C7H17NO	3-(diethylamino)-1-propanol	622-93-5	0.28023	0.27160	716.00	0.28571	260.52	716.00	1,2	298.15	0.8567
12350	C7H17NO	2-[isopentylamino]ethanol	34240-76-1	0.28023	0.26367	716.00	0.28571	260.52	716.00	1,2	298.15	0.8788
12351	C7H17NO	3-butoxypropylamine	16499-88-0	0.28023	0.27299	716.00	0.28571	208.25	716.00	1,2	298.15	0.8530
12352	C7H17NO	1-diethylamino-2-propanol	4402-32-8	0.28023	0.26151	716.00	0.28571	286.65	716.00	1,2	298.15	0.8850
12353	C7H17NO	4-amino-2-methyl-3-hexanol	63765-80-0	0.28023	0.26866	716.00	0.28571	260.52	716.00	2	298.15	0.8648
12375	C7H18N2	N,N-diethyl-1,3-propanediamine	104-78-9	0.27982	0.28295	689.00	0.28571	302.05	689.00	1,2	441.65	0.7179
12376	C7H18N2	1,7-heptanediamine	646-19-5	0.27982	0.28853	689.00	0.28571	302.05	689.00	2	497.15	0.6630
12377	C7H18N2	N,N,N',N'-tetramethyl-1,3-propanediamine	110-95-2	0.27982	0.29974	689.00	0.28571	302.05	689.00	1,2	417.15	0.7048
12378	C7H18N2	N,N-diethyl-N'-methylethylenediamine	104-79-0	0.27982	0.28866	689.00	0.28571	302.05	689.00	1,2	431.65	0.7147
12379	C7H18N2	N,N,2,2-tetramethyl-1,3-propanediamine	53369-71-4	0.27982	0.28327	689.00	0.28571	302.05	689.00	1,2	429.65	0.7265
12380	C7H18N2	3-diethylaminopropylamine	14642-66-1	0.27982	0.28853	689.00	0.28571	302.05	689.00	2	443.45	0.7061
12520	C8H4Cl2O2	isophthaloyl chloride	99-63-8	0.43100	0.26203	768.00	0.28570	317.00	768.00	1,2	549.00	1.0988
12594	C8H4O3	phthalic anhydride	85-44-9	0.35180	0.19349	791.00	0.23460	404.26	791.00	1,2	557.65	1.2078
12713	C8H6	ethynylbenzene	536-74-3	0.30260	0.27318	655.43	0.28571	228.04	655.43	1,2	298.15	0.9010
12934	C8H6O4	isophthalic acid	121-91-5	0.39180	0.25939	1007.00	0.28571	619.15	1007.00	2	753.00	0.9738
12935	C8H6O4	phthalic acid	88-99-3	0.39180	0.20182	800.00	0.28571	464.15	800.00	1,2	598.00	1.1538
12936	C8H6O4	terephthalic acid	100-21-0	0.39180	0.26333	1113.00	0.28571	700.15	1113.00	2	832.00	0.9641
12947	C8H6S	benzothiophene	95-15-8	0.38450	0.27239	754.00	0.33304	304.50	754.00	1,2	493.05	0.9584
13107	C8H7N	indole	120-72-9	0.27180	0.18706	790.00	0.23240	325.00	790.00	1,2	526.15	0.9965
13237	C8H8	styrene	100-42-5	0.29590	0.26539	648.00	0.28570	242.54	648.00	1,2	298.15	0.9000
13238	C8H8	1,3,5,7-cyclooctatetraene	629-20-9	0.30150	0.26816	642.55	0.28571	266.16	642.55	1,2	298.15	0.9070
13281	C8H8Cl2	1,2-bis(chloromethyl)benzene	612-12-4	0.39254	0.23002	735.00	0.28571	328.15	735.00	1,2	512.65	1.1154
13282	C8H8Cl2	1,3-bis(chloromethyl)benzene	626-16-4	0.39254	0.24991	735.00	0.28571	307.35	735.00	1,2	524.65	1.0354
13283	C8H8Cl2	1,4-bis(chloromethyl)benzene	623-25-6	0.39254	0.22551	735.00	0.28571	373.15	735.00	1,2	524.65	1.1125
13284	C8H8Cl2	1,2-dichloro-3,4-dimethylbenzene	68266-67-1	0.39254	0.26841	735.00	0.28571	282.15	735.00	1,2	298.15	1.2195
13285	C8H8Cl2	1,3-dichloro-2,5-dimethylbenzene	38204-89-6	0.39254	0.27056	735.00	0.28571	288.15	735.00	1,2	298.15	1.2111
13286	C8H8Cl2	1,4-dichloro-2,5-dimethylbenzene	1124-05-6	0.39254	0.25398	735.00	0.28571	344.15	735.00	2	495.15	1.0620
13287	C8H8Cl2	1,5-dichloro-2,4-dimethylbenzene	2084-45-9	0.39254	0.25398	735.00	0.28571	341.65	735.00	2	496.15	1.0607
13288	C8H8Cl2	2,3-dichloro-1,4-dimethylbenzene	34840-79-4	0.39254	0.26665	735.00	0.28571	272.15	735.00	1,2	298.15	1.2264
13289	C8H8Cl2	(1,2-dichloroethyl)benzene	1074-11-9	0.39254	0.26554	735.00	0.28571	317.62	735.00	1,2	506.65	1.0145
13290	C8H8Cl2	1,4-dichloro-2-ethylbenzene	54484-63-8	0.39254	0.26352	735.00	0.28571	317.62	735.00	1,2	486.65	1.0440

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
13291	C8H8Cl2	1-(dichloromethyl)-4-methylbenzene	23063-36-7	0.39254	0.25398	735.00	0.28571	321.65	735.00	2	486.53	1.0727
13292	C8H8Cl2	ethyldichlorobenzene	1331-29-9	0.39254	0.25398	735.00	0.28571	317.62	735.00	2	486.53	1.0727
13293	C8H8Cl2	xylene chloride	28347-13-9	0.39254	0.25398	735.00	0.28571	317.62	735.00	2	486.53	1.0727
13391	C8H8O	acetophenone	98-86-2	0.31960	0.25467	701.00	0.29062	293.65	701.00	1,2	298.15	1.0240
13392	C8H8O	p-tolualdehyde	104-87-0	0.28880	0.22981	698.00	0.28570	290.00	698.00	1,2	298.15	1.0122
13412	C8H8O2	methyl benzoate	93-58-3	0.31230	0.23511	693.00	0.26760	260.75	693.00	1,2	298.15	1.0850
13413	C8H8O2	o-toluic acid	118-90-1	0.34290	0.24867	751.00	0.28571	376.85	751.00	1,2	532.00	0.9124
13414	C8H8O2	p-toluic acid	99-94-5	0.34290	0.25478	773.00	0.28571	452.75	773.00	2	548.15	0.8963
13445	C8H8O3	methyl salicylate	119-36-8	0.37110	0.26395	701.00	0.26120	265.15	701.00	1,2	298.15	1.1750
13446	C8H8O3	vanillin	121-33-5	0.36660	0.29674	777.00	0.28571	355.00	777.00	1,2	558.00	0.8543
13671	C8H9NO	acetanilide	103-84-4	0.31430	0.21600	825.00	0.28570	386.65	825.00	1,2	576.95	0.9321
13789	C8H10	ethylbenzene	100-41-4	0.28400	0.25910	617.17	0.29210	178.20	617.17	1,2	298.15	0.8650
13790	C8H10	o-xylene	95-47-6	0.28760	0.26513	630.37	0.27410	247.98	630.37	1,2	298.15	0.8760
13791	C8H10	m-xylene	108-38-3	0.28250	0.26343	617.05	0.27243	225.30	617.05	1,2	298.15	0.8610
13792	C8H10	p-xylene	106-42-3	0.28010	0.26021	616.26	0.27900	286.41	616.26	1,2	298.15	0.8580
13793	C8H10	xylenes	1330-20-7	0.28355	0.26163	620.21	0.28571	243.75	620.21	1,2	298.15	0.8620
13912	C8H10O	phenetole	103-73-1	0.31320	0.26251	647.15	0.28571	243.63	647.15	1,2	298.15	0.9610
13913	C8H10O	2-phenylethanol	60-12-8	0.31570	0.24906	684.00	0.30277	247.00	684.00	1,2	298.15	1.0160
13918	C8H10O	o-ethylphenol	90-00-6	0.35721	0.29460	703.00	0.28571	269.84	703.00	1,2	298.15	1.0146
13919	C8H10O	m-ethylphenol	620-17-7	0.35721	0.29865	718.80	0.28571	269.15	718.80	1,2	298.15	1.0076
13920	C8H10O	p-ethylphenol	123-07-9	0.31570	0.26466	716.45	0.28570	318.23	716.45	2	491.14	0.8206
13921	C8H10O	2,3-xylenol	526-75-0	0.33940	0.28865	722.95	0.28571	345.71	722.95	2	490.07	0.8339
13922	C8H10O	2,4-xylenol	105-67-9	0.31320	0.25998	707.65	0.24870	297.68	707.65	1,2	298.15	1.0150
13923	C8H10O	2,5-xylenol	95-87-4	0.34900	0.29429	707.05	0.29700	347.99	707.05	2	484.33	0.8313
13924	C8H10O	2,6-xylenol	576-26-1	0.31320	0.26063	701.05	0.28571	318.76	701.05	2	474.22	0.8296
13925	C8H10O	3,4-xylenol	95-65-8	0.34900	0.30237	729.95	0.28070	338.25	729.95	1,2	500.15	0.8286
13926	C8H10O	3,5-xylenol	108-68-9	0.25450	0.22199	715.65	0.22630	336.59	715.65	1,2	494.89	0.8065
13934	C8H10O	dimethyl phenol	1300-71-6	0.32760	0.27605	713.62	0.28571	315.80	713.62	2	411.65	0.8965
13985.1	C8H10O2	ethylbenzene hydroperoxide	3071-32-7	0.33213	0.25726	737.00	0.28571	200.00	737.00	2	298.15	1.0709
14039	C8H10S	o-ethylthiophenol	4500-58-7	0.32185	0.25789	722.65	0.28571	264.38	722.65	1,2	298.15	1.0309
14040	C8H10S	m-ethylthiophenol	62154-77-2	0.32185	0.25714	724.15	0.28571	264.38	724.15	1,2	298.15	1.0340
14041	C8H10S	p-ethylthiophenol	4946-13-8	0.32185	0.25714	724.15	0.28571	264.38	724.15	1,2	298.15	1.0340
14042	C8H10S	2,3-dimethylthiophenol	18800-51-6	0.32185	0.25779	730.98	0.28571	248.01	730.98	1,2	298.15	1.0340
14043	C8H10S	2,4-dimethylthiophenol	13616-82-5	0.32185	0.25659	718.58	0.28571	248.01	718.58	1,2	298.15	1.0340
14044	C8H10S	2,5-dimethylthiophenol	4001-61-0	0.32185	0.25615	714.10	0.28571	248.01	714.10	1,2	298.15	1.0340
14045	C8H10S	2,6-dimethylthiophenol	118-72-9	0.32185	0.25779	730.98	0.28571	248.01	730.98	1,2	298.15	1.0340
14046	C8H10S	3,4-dimethylthiophenol	18800-53-8	0.32185	0.25779	730.98	0.28571	248.01	730.98	1,2	298.15	1.0340
14047	C8H10S	3,5-dimethylthiophenol	38360-81-5	0.32185	0.25779	730.98	0.28571	248.01	730.98	1,2	298.15	1.0340
14048	C8H10S	(1-thiapropyl)-benzene	622-38-8	0.32185	0.26116	712.96	0.28571	128.17	712.96	1,2	298.15	1.0166
14049	C8H10S	2-methyl-(1-thiaethyl)-benzene	---	0.32185	0.25896	718.95	0.28571	111.80	718.95	1,2	298.15	1.0260
14050	C8H10S	3-methyl-(1-thiaethyl)-benzene	4886-77-5	0.32185	0.25896	718.95	0.28571	111.80	718.95	1,2	298.15	1.0260
14051	C8H10S	4-methyl-(1-thiaethyl)-benzene	623-13-2	0.32185	0.26090	729.78	0.28571	111.80	729.78	1,2	298.15	1.0230
14052	C8H10S	[(methylthio)methyl]benzene	766-92-7	0.32185	0.26033	725.28	0.28571	243.15	725.28	1,2	298.15	1.0234
14053	C8H10S	alpha-methylbenzenemethanethiol, (S)	33877-11-1	0.32185	0.26193	725.28	0.28571	252.44	725.28	1,2	298.15	1.0181
14054	C8H10S	2-phenylethanethiol	4410-99-5	0.32185	0.25783	725.28	0.28571	252.44	725.28	1,2	298.15	1.0320
14082	C8H11N	N,N-dimethylaniline	121-69-7	0.26060	0.22854	687.15	0.23350	275.60	687.15	1,2	298.15	0.9490
14083	C8H11N	o-ethylaniline	578-54-1	0.30370	0.25472	704.00	0.28570	226.55	704.00	1,2	298.15	0.9770
14084	C8H11N	N,2-dimethylaniline	611-21-2	0.28215	0.23576	695.58	0.28571	263.07	695.58	1,2	298.15	0.9666
14085	C8H11N	N,3-dimethylaniline	696-44-6	0.28215	0.23716	695.58	0.28571	263.07	695.58	1,2	298.15	0.9618
14086	C8H11N	N,4-dimethylaniline	623-08-5	0.28215	0.23752	695.58	0.28571	263.07	695.58	1,2	298.15	0.9605
14087	C8H11N	2,3-dimethylaniline	87-59-2	0.28215	0.22961	695.58	0.28571	263.07	695.58	1,2	298.15	0.9887
14088	C8H11N	2,4-dimethylaniline	95-68-1	0.28215	0.23537	695.58	0.28571	258.85	695.58	1,2	298.15	0.9680
14089	C8H11N	2,5-dimethylaniline	95-78-3	0.28215	0.23324	695.58	0.28571	288.65	695.58	1,2	298.15	0.9755
14090	C8H11N	2,6-dimethylaniline	87-62-7	0.28215	0.23204	695.58	0.28571	284.35	695.58	1,2	298.15	0.9798
14091	C8H11N	3,4-dimethylaniline	95-64-7	0.28215	0.20953	695.58	0.28571	324.15	695.58	1,2	501.15	0.8357
14092	C8H11N	3,5-dimethylaniline	108-69-0	0.28215	0.23585	695.58	0.28571	282.95	695.58	1,2	298.15	0.9663
14093	C8H11N	m-ethylaniline	587-02-0	0.28215	0.22936	695.58	0.28571	209.15	695.58	1,2	298.15	0.9896
14094	C8H11N	p-ethylaniline	589-16-2	0.28215	0.23662	695.58	0.28571	270.75	695.58	1,2	298.15	0.9637
14095	C8H11N	N-ethylaniline	103-69-5	0.28215	0.23817	695.58	0.28571	209.65	695.58	1,2	298.15	0.9583
14096	C8H11N	2,4,6-trimethylpyridine	108-75-8	0.29060	0.25597	653.00	0.28571	229.00	653.00	1,2	298.15	0.9130
14097	C8H11N	2-ethyl-4-methylpyridine	2150-18-7	0.29060	0.25380	653.00	0.28571	216.18	653.00	1,2	298.15	0.9195
14098	C8H11N	2-ethyl-6-methylpyridine	1122-69-6	0.29060	0.25342	653.00	0.28571	216.18	653.00	1,2	298.15	0.9207
14099	C8H11N	3-ethyl-4-methylpyridine	529-21-5	0.29060	0.25307	653.00	0.28571	216.18	653.00	1,2	298.15	0.9218
14100	C8H11N	4-ethyl-2-methylpyridine	536-88-9	0.29060	0.25597	653.00	0.28571	216.18	653.00	1,2	298.15	0.9130
14101	C8H11N	2-isopropylpyridine	644-98-4	0.29060	0.24907	653.00	0.28571	132.15	653.00	1,2	298.15	0.9342
14102	C8H11N	3-isopropylpyridine	6304-18-3	0.29060	0.25559	653.00	0.28571	227.35	653.00	1,2	298.15	0.9141
14103	C8H11N	4-isopropylpyridine	696-30-0	0.29060	0.24780	653.00	0.28571	218.25	653.00	1,2	298.15	0.9382
14104	C8H11N	4-propylpyridine	1122-81-2	0.29060	0.25059	653.00	0.28571	216.18	653.00	1,2	298.15	0.9294
14105	C8H11N	2-propylpyridine	622-39-9	0.29060	0.25773	653.00	0.28571	274.15	653.00	1,2	298.15	0.9077
14106	C8H11N	2,3,4-trimethylpyridine	2233-29-6	0.29060	0.25884	653.00	0.28571	216.18	653.00	1,2	298.15	0.9045
14107	C8H11N	2,3,5-trimethylpyridine	695-98-7	0.29060	0.25041	653.00	0.28571	216.18	653.00	1,2	298.15	0.9300
14108	C8H11N	2,3,6-trimethylpyridine	1462-84-6	0.29060	0.25300	653.00	0.28571	216.18	653.00	1,2	298.15	0.9220
14109	C8H11N	2,4,5-trimethylpyridine	1122-39-0	0.29060	0.24945	653.00	0.28571	216.18	653.00	1,2	298.15	0.9330
14124	C8H11NO	p-phenetidine	156-43-4	0.30760	0.24045	754.00	0.28570	277.00	754.00	1,2	298.15	1.0570
14228	C8H12	1,5-cyclooctadiene	111-78-4	0.29560	0.25909	645.00	0.34755	203.98	645.00	1,2	298.15	0.8780
14229	C8H12	1,4-cyclooctadiene	1073-07-0	0.29560	0.27502	645.00	0.28571	220.15	645.00	1,2	298.15	0.8715
14230	C8H12	cis,cis-1,5-cyclooctadiene	1552-12-1	0.29560	0.27120	645.00	0.28571	203.15	645.00	1,2	298.15	0.8818
14230.1	C8H12	methylnorbornene	694-92-8	0.28696	0.26048	600.00	0.28571	200.00	600.00	1,2	298.15	0.8668
14231	C8H12	vinylcyclohexene	100-40-3	0.28540	0.27423	599.00	0.28570	164.00	599.00	1,2	298.15	0.8260
14245	C8H12	1-octen-3-yne	17679-92-4	0.29021	0.29903	570.00	0.28571	220.00	570.00	1,2	298.15	0.7710

Table 3 Density of Liquid - Organic Compounds

			density = A B ^ (1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
14247	C8H12	1,3-cyclooctadiene	1700-10-3	0.29560	0.29096	645.00	0.28571	220.25	645.00	2	298.15	0.8313
14248	C8H12	cis,cis-1,3-cyclooctadiene	3806-59-5	0.29560	0.27597	645.00	0.28571	221.25	645.00	1,2	298.15	0.8690
14252	C8H12	(Z,E)-1,3-cyclooctadiene	3806-60-8	0.29560	0.29096	645.00	0.28571	213.76	645.00	2	298.15	0.8313
14325	C8H12O	2-tert-butylfuran	7040-43-9	0.35624	0.33957	600.00	0.28571	250.00	600.00	1,2	298.15	0.8654
14379	C8H12O4	1,4-cyclohexanedicarboxylic acid	619-82-9	0.37110	0.30411	889.00	0.28571	585.65	889.00	2	669.00	0.8249
14380	C8H12O4	diethyl maleate	141-05-9	0.33890	0.28266	680.00	0.33357	264.35	680.00	1,2	298.15	0.9610
14410	C8H12S	2-butylthiophene	1455-20-5	0.32375	0.27927	665.00	0.28571	216.25	665.00	1,2	298.15	0.9497
14411	C8H12S	3-butylthiophene	34722-01-5	0.32375	0.27676	665.00	0.28571	216.25	665.00	1,2	298.15	0.9570
14412	C8H12S	2-(1,1-dimethylethyl)thiophene	1689-78-7	0.32375	0.27802	665.00	0.28571	214.05	665.00	2	298.15	0.9533
14413	C8H12S	3-(1,1-dimethylethyl)thiophene	1689-79-8	0.32375	0.27802	665.00	0.28571	218.45	665.00	2	298.15	0.9533
14413.1	C8H12S	3-ethyl-2,5-dimethylthiophene	55735-23-4	0.33078	0.24741	669.00	0.28571	195.00	669.00	2	298.15	1.0765
14426	C8H13N	1-butyl-1H-pyrrole	589-33-3	0.31590	0.30106	670.00	0.28571	336.90	670.00	1,2	443.65	0.7619
14427	C8H13N	3-ethyl-2,4-dimethyl-1H-pyrrole	517-22-6	0.31590	0.28623	670.00	0.28571	336.90	670.00	1,2	472.15	0.7638
14428	C8H13N	4-ethyl-2,3-dimethyl-1H-pyrrole	491-18-9	0.31590	0.28549	670.00	0.28571	289.65	670.00	1,2	298.15	0.9113
14429	C8H13N	2,3,4,5-tetramethyl-1H-pyrrole	1003-90-3	0.31590	0.28697	670.00	0.28571	384.15	670.00	2	464.26	0.7700
14433	C8H13N	2,5-diethyl-1H-pyrrole	766-95-0	0.31590	0.28697	670.00	0.28571	336.90	670.00	2	459.20	0.7748
14463	C8H14	1-propylcyclopentene	3074-61-1	0.26845	0.26614	602.71	0.28571	172.85	602.71	1,2	298.15	0.7978
14464	C8H14	1,2,3-trimethylcyclopentene	473-91-6	0.26845	0.26694	602.71	0.28571	172.85	602.71	1,2	298.15	0.7958
14465	C8H14	1,5,5-trimethylcyclopentene	62184-83-2	0.26845	0.27434	602.71	0.28571	172.85	602.71	1,2	298.15	0.7781
14466	C8H14	1-ethylcyclohexene	1453-24-3	0.27379	0.26691	617.68	0.28571	163.19	617.68	1,2	298.15	0.8177
14467	C8H14	3-ethylcyclohexene	2808-71-1	0.27379	0.27036	609.58	0.28571	175.81	609.58	1,2	298.15	0.8059
14468	C8H14	4-ethylcyclohexene	3742-42-5	0.27379	0.27065	611.67	0.28571	175.81	611.67	1,2	298.15	0.8060
14469	C8H14	1,2-dimethylcyclohexene	1674-10-8	0.27447	0.26652	621.08	0.28571	189.00	621.08	1,2	298.15	0.8220
14470	C8H14	1,3-dimethylcyclohexene	2808-76-6	0.27447	0.27318	604.64	0.28571	159.44	604.64	1,2	298.15	0.7991
14471	C8H14	1,4-dimethylcyclohexene	2808-79-9	0.27447	0.27446	606.00	0.28571	213.75	606.00	1,2	298.15	0.7966
14472	C8H14	1,5-dimethylcyclohexene	2808-77-7	0.27447	0.27266	606.00	0.28571	159.44	606.00	1,2	298.15	0.8009
14473	C8H14	1,6-dimethylcyclohexene	1759-64-4	0.27447	0.26929	610.68	0.28571	159.44	610.68	1,2	298.15	0.8110
14474	C8H14	3,3-dimethylcyclohexene	695-28-3	0.27515	0.27284	599.77	0.28571	159.44	599.77	1,2	298.15	0.8000
14475	C8H14	3,cis-4-dimethylcyclohexene	---	0.27447	0.26762	597.92	0.28571	159.44	597.92	1,2	298.15	0.8100
14476	C8H14	3,trans-4-dimethylcyclohexene	---	0.27447	0.26762	597.92	0.28571	159.44	597.92	1,2	298.15	0.8100
14477	C8H14	3,cis-5-dimethylcyclohexene	---	0.27447	0.26762	597.92	0.28571	159.44	597.92	1,2	298.15	0.8100
14478	C8H14	3,trans-5-dimethylcyclohexene	56021-63-7	0.27447	0.26762	597.92	0.28571	159.44	597.92	1,2	298.15	0.8100
14479	C8H14	3,cis-6-dimethylcyclohexene	---	0.27447	0.26762	597.92	0.28571	159.44	597.92	1,2	298.15	0.8100
14480	C8H14	3,trans-6-dimethylcyclohexene	3685-00-5	0.27447	0.26762	597.92	0.28571	159.44	597.92	1,2	298.15	0.8100
14481	C8H14	4,4-dimethylcyclohexene	14072-86-7	0.27515	0.27372	597.08	0.28571	198.68	597.08	1,2	298.15	0.7968
14482	C8H14	4,cis-5-dimethylcyclohexene	---	0.27447	0.27299	605.71	0.28571	159.44	605.71	1,2	298.15	0.8000
14483	C8H14	4,trans-5-dimethylcyclohexene	---	0.27447	0.27170	597.92	0.28571	159.44	597.92	1,2	298.15	0.8000
14484	C8H14	1-octyne	629-05-0	0.24932	0.26042	574.20	0.28571	193.85	574.20	1,2	298.15	0.7426
14485	C8H14	2-octyne	2809-67-8	0.24736	0.25833	607.45	0.28571	211.55	607.45	1,2	298.15	0.7552
14486	C8H14	3-octyne	15232-76-5	0.24736	0.26029	600.66	0.28571	169.15	600.66	1,2	298.15	0.7479
14487	C8H14	4-octyne	1942-45-6	0.24801	0.26044	594.10	0.28571	172.15	594.10	1,2	298.15	0.7469
14488	C8H14	3-ethyl-3-methyl-1-pentyne	919-12-0	0.24801	0.26415	594.10	0.28571	186.68	594.10	1,2	298.15	0.7383
14493	C8H14	1,7-octadiene	3710-30-3	0.29853	0.33393	586.00	0.28571	224.50	586.00	1,2	298.15	0.7308
14494	C8H14	2,6-octadiene	4974-27-0	0.29853	0.32850	586.00	0.28571	197.15	586.00	1,2	298.15	0.7406
14495	C8H14	3-methyl-1,5-heptadiene	4894-62-6	0.29853	0.33718	586.00	0.28571	216.15	586.00	1,2	298.15	0.7250
14496	C8H14	2,5-dimethyl-1,5-hexadiene	627-58-7	0.29853	0.32900	586.00	0.28571	197.55	586.00	1,2	298.15	0.7397
14497	C8H14	2,5-dimethyl-2,4-hexadiene	764-13-6	0.29853	0.31944	586.00	0.28571	287.15	586.00	1,2	298.15	0.7577
14547	C8H14O	2,2-dimethylcyclohexanone	1193-47-1	0.29926	0.26802	670.00	0.28571	252.65	670.00	1,2	298.15	0.9106
14548	C8H14O	cis-2,3-dimethylcyclohexanone	1551-88-8	0.29926	0.26754	670.00	0.28571	280.00	670.00	1,2	298.15	0.9120
14549	C8H14O	trans-2,3-dimethylcyclohexanone	1551-89-9	0.29926	0.26975	670.00	0.28571	280.00	670.00	1,2	298.15	0.9057
14550	C8H14O	cis-2,4-dimethylcyclohexanone	116783-29-0	0.29926	0.27091	670.00	0.28571	280.00	670.00	1,2	298.15	0.9024
14551	C8H14O	trans-2,4-dimethylcyclohexanone, (2S)	93921-42-7	0.29926	0.27404	670.00	0.28571	280.00	670.00	1,2	298.15	0.8937
14552	C8H14O	trans-2,5-dimethylcyclohexanone, (±)	66395-23-1	0.29926	0.27223	670.00	0.28571	280.00	670.00	1,2	298.15	0.8987
14553	C8H14O	2,6-dimethylcyclohexanone	2816-57-1	0.29926	0.26310	670.00	0.28571	280.00	670.00	1,2	298.15	0.9250
14554	C8H14O	3,3-dimethylcyclohexanone	2979-19-3	0.29926	0.27126	670.00	0.28571	280.00	670.00	1,2	298.15	0.9014
14555	C8H14O	3,4-dimethylcyclohexanone	5465-09-8	0.29926	0.27099	670.00	0.28571	280.00	670.00	1,2	298.15	0.9022
14556	C8H14O	3,5-dimethylcyclohexanone	2320-30-1	0.29926	0.27456	670.00	0.28571	280.00	670.00	1,2	298.15	0.8923
14557	C8H14O	4,4-dimethylcyclohexanone	4255-62-3	0.29926	0.26210	670.00	0.28571	312.15	670.00	1,2	443.32	0.7993
14558	C8H14O	3,4-dimethyl-3-hexen-2-one	1635-02-5	0.27931	0.25781	635.00	0.28571	326.45	635.00	1,2	432.15	0.7430
14559	C8H14O	3,4-dimethyl-4-hexen-2-one	53252-21-4	0.27931	0.26381	635.00	0.28571	326.45	635.00	1,2	427.15	0.7357
14560	C8H14O	3-methyl-5-hepten-2-one	38552-72-6	0.27931	0.26689	635.00	0.28571	326.45	635.00	1,2	443.32	0.7137
14561	C8H14O	5-methyl-5-hepten-2-one	10339-67-0	0.27931	0.26072	635.00	0.28571	326.45	635.00	1,2	443.32	0.7256
14562	C8H14O	6-methyl-3-hepten-2-one	2009-74-7	0.27931	0.26794	635.00	0.28571	326.45	635.00	1,2	452.15	0.7028
14563	C8H14O	6-methyl-4-hepten-2-one	39273-81-9	0.27931	0.27081	635.00	0.28571	326.45	635.00	1,2	436.15	0.7133
14564	C8H14O	6-methyl-5-hepten-2-one	110-93-0	0.27931	0.26439	635.00	0.28571	446.65	635.00	1,2	436.15	0.7257
14565	C8H14O	2-methyl-5-hepten-3-one	77958-21-5	0.27931	0.26793	635.00	0.28571	326.45	635.00	1,2	434.65	0.7202
14566	C8H14O	5-methyl-1-hepten-3-one	44829-76-7	0.27931	0.26600	635.00	0.28571	326.45	635.00	1,2	443.32	0.7154
14567	C8H14O	5-methyl-4-hepten-3-one	1447-26-3	0.27931	0.26158	635.00	0.28571	326.45	635.00	1,2	439.65	0.7277
14568	C8H14O	5-methyl-5-hepten-3-one	1190-34-7	0.27931	0.26374	635.00	0.28571	326.45	635.00	1,2	443.32	0.7197
14569	C8H14O	5-methyl-2-hepten-4-one	81925-81-7	0.27931	0.25884	635.00	0.28571	326.45	635.00	1,2	444.15	0.7285
14570	C8H14O	6-methyl-2-hepten-4-one	49852-35-9	0.27931	0.26682	635.00	0.28571	326.45	635.00	1,2	443.15	0.7140
14571	C8H14O	4-ethylcyclohexanone	5441-51-0	0.29926	0.27356	670.00	0.28571	280.00	670.00	1,2	298.15	0.8950
14588	C8H14O	2-ethyl-2-hexenal	645-62-5	0.31163	0.30051	630.00	0.28571	330.00	630.00	1,2	443.32	0.7286
14589	C8H14O	methylheptenone	409-02-9	0.27931	0.25271	635.00	0.28571	206.25	635.00	2	298.15	0.8800
14591	C8H14O	trans-2-octenal	2548-87-0	0.31163	0.30136	630.00	0.28571	270.00	630.00	1,2	443.32	0.7272
14592	C8H14O	3-octen-2-one	1669-44-9	0.27931	0.25620	635.00	0.28571	326.45	635.00	1,2	443.32	0.7347
14597	C8H14O	2-ethyl hexenal	26266-68-2	0.31163	0.28730	630.00	0.28571	290.00	630.00	2	298.15	0.8803
14599	C8H14O2	butyl methacrylate	97-88-1	0.29560	0.26370	616.00	0.28570	290.00	616.00	1,2	298.15	0.8910
14613	C8H14O2	ethyl 2,3-dimethyl-2-butenoate	13979-28-7	0.30223	0.26691	616.00	0.28571	290.00	616.00	1,2	298.15	0.9019
14614	C8H14O2	ethyl 2-hexenoate	1552-67-6	0.30223	0.26967	616.00	0.28571	290.00	616.00	1,2	298.15	0.8943

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
14615	C8H14O2	ethyl 3-hexenoate	2396-83-0	0.30223	0.27072	616.00	0.28571	290.00	616.00	1,2	298.15	0.8914
14616	C8H14O2	ethyl 3-methyl-3-pentenoate	86623-80-5	0.30223	0.26273	616.00	0.28571	290.00	616.00	1,2	298.15	0.9138
14617	C8H14O2	ethyl 4-methyl-2-pentenoate	2351-97-5	0.30223	0.27053	616.00	0.28571	290.00	616.00	1,2	298.15	0.8919
14618	C8H14O2	ethyl 4-methyl-3-pentenoate	6849-18-9	0.30223	0.26536	616.00	0.28571	290.00	616.00	1,2	298.15	0.9063
14620	C8H14O2	3-hydroxy-2,2-dimethylhexanoic acid, beta-lactone	90112-82-6	0.28764	0.25347	736.00	0.28571	416.65	736.00	2	510.00	0.7660
14621	C8H14O2	2-methylbutyl acrylate	44914-03-6	0.30223	0.27149	616.00	0.28571	290.00	616.00	1,2	298.15	0.8893
14624	C8H14O2	6-methyl-2-heptenoic acid	90112-75-7	0.28764	0.25496	736.00	0.28571	274.65	736.00	1,2	298.15	0.9344
14627	C8H14O2	tert-butyl methacrylate	585-07-9	0.30223	0.27686	616.00	0.28571	290.00	616.00	1,2	298.15	0.8750
14633	C8H14O2	2-ethyl-2-hexenoic acid	5309-52-4	0.28764	0.25011	736.00	0.28571	271.25	736.00	1,2	298.15	0.9500
14634	C8H14O2	ethyl 4-methyl-4-pentenoate	4911-54-0	0.30223	0.27086	616.00	0.28571	290.00	616.00	1,2	298.15	0.8910
14635	C8H14O2	ethyl 2-methyl-4-pentenoate	53399-81-8	0.30223	0.27763	616.00	0.28571	290.00	616.00	1,2	298.15	0.8730
14636	C8H14O2	trans-2-hexenyl acetate	2497-18-9	0.30223	0.26832	616.00	0.28571	290.00	616.00	1,2	298.15	0.8980
14637	C8H14O2	isoamyl acrylate	4245-35-6	0.30223	0.26688	616.00	0.28571	290.00	616.00	1,2	298.15	0.9020
14642	C8H14O2	2-octenoic acid	1871-67-6	0.28764	0.25258	736.00	0.28571	278.65	736.00	1,2	298.15	0.9420
14653	C8H14O2	isovaleric acid, allyl ester	2835-39-4	0.28764	0.25347	736.00	0.28571	310.30	736.00	2	510.00	0.7660
14654.1	C8H14O2	2-oxolan-2-yloxolane	106538-38-9	0.34852	0.24596	738.00	0.28571	235.00	738.00	2	298.15	1.1685
14659	C8H14O3	butyric anhydride	106-31-0	0.31580	0.26435	639.00	0.28570	199.85	639.00	1,2	298.15	0.9600
14688	C8H14O4	diethyl succinate	123-25-1	0.33370	0.25851	660.00	0.29522	252.35	660.00	1,2	298.15	1.0360
14736	C8H15Br	cis-1-bromo-1-octene	42843-49-2	0.36367	0.26137	643.03	0.28571	234.14	643.03	1,2	298.15	1.1180
14737	C8H15Br	trans-1-bromo-1-octene	51751-87-2	0.36367	0.26137	643.03	0.28571	234.14	643.03	1,2	298.15	1.1180
14748	C8H15Br3	1,1,1-tribromooctane	62127-65-5	0.53291	0.25779	767.84	0.28571	361.24	767.84	2	554.15	1.3651
14749	C8H15Cl	cis-1-chloro-1-octene	64531-23-3	0.28617	0.25846	640.48	0.28571	204.26	640.48	1,2	298.15	0.8870
14750	C8H15Cl	trans-1-chloro-1-octene	59871-24-8	0.28617	0.25846	640.48	0.28571	204.26	640.48	1,2	298.15	0.8870
14751	C8H15Cl	1-chloro-4-ethyl-3-hexene	82507-04-8	0.28617	0.25204	640.48	0.28571	204.26	640.48	1,2	298.15	0.9059
14752	C8H15Cl	6-chloro-2-methyl-2-heptene	80325-37-7	0.28617	0.25837	640.48	0.28571	204.26	640.48	1,2	298.15	0.8873
14753	C8H15Cl	2-chloro-1-octene	31283-43-9	0.28617	0.24509	640.48	0.28571	204.26	640.48	1,2	298.15	0.9273
14754	C8H15Cl	2-chloro-2-octene	90202-21-4	0.28617	0.25953	640.48	0.28571	204.26	640.48	1,2	298.15	0.8839
14755	C8H15Cl	4-chloro-2-octene	116668-50-9	0.28617	0.25804	640.48	0.28571	204.26	640.48	1,2	298.15	0.8882
14756	C8H15Cl	cis-4-chloro-4-octene	7321-48-4	0.28617	0.25845	640.48	0.28571	204.26	640.48	1,2	298.15	0.8870
14765	C8H15Cl3	1,1,1-trichlorooctane	4905-79-7	0.35119	0.26230	693.91	0.28571	271.60	693.91	1,2	298.15	1.0980
14766	C8H15F	cis-1-fluoro-1-octene	32814-16-7	0.27042	0.24848	548.71	0.28571	206.49	548.71	1,2	298.15	0.8230
14767	C8H15F	trans-1-fluoro-1-octene	32814-17-8	0.27042	0.24848	548.71	0.28571	206.49	548.71	1,2	298.15	0.8230
14770	C8H15F3	1,1,1-trifluorooctane	53392-86-2	0.32223	0.25643	554.50	0.28571	278.29	554.50	1,2	298.15	0.9600
14772	C8H15I	cis-1-iodo-1-octene	52356-93-1	0.43175	0.26607	692.75	0.28571	232.40	692.75	1,2	298.15	1.3330
14773	C8H15I	trans-1-iodo-1-octene	42599-17-7	0.43175	0.26607	692.75	0.28571	232.40	692.75	1,2	298.15	1.3330
14774	C8H15I3	1,1,1-triiodooctane	---	0.66792	0.27100	928.58	0.28571	356.02	928.58	2	658.63	1.6715
14775	C8H15N	octanenitrile	124-12-9	0.24576	0.24290	661.13	0.28571	227.55	661.13	1,2	298.15	0.8097
14861	C8H16	propylcyclopentane	2040-96-2	0.26400	0.26993	603.00	0.29032	155.82	603.00	1,2	298.15	0.7730
14862	C8H16	isopropylcyclopentane	3875-51-2	0.25886	0.26372	596.40	0.28571	161.78	596.40	1,2	298.15	0.7726
14863	C8H16	1-methyl-1-ethylcyclopentane	16747-50-5	0.26220	0.26350	582.00	0.28571	129.35	582.00	1,2	298.15	0.7770
14864	C8H16	1-methyl-cis-2-ethylcyclopentane	930-89-2	0.26497	0.26787	597.34	0.28571	167.20	597.34	1,2	298.15	0.7811
14865	C8H16	1-methyl-trans-2-ethylcyclopentane	930-90-5	0.26497	0.27304	587.14	0.28571	167.25	587.14	1,2	298.15	0.7649
14866	C8H16	1-methyl-cis-3-ethylcyclopentane	2613-66-3	0.26497	0.27385	586.99	0.28571	186.08	586.99	1,2	298.15	0.7630
14867	C8H16	1-methyl-trans-3-ethylcyclopentane	2613-65-2	0.26497	0.27385	586.99	0.28571	165.15	586.99	1,2	298.15	0.7630
14868	C8H16	1,1,2-trimethylcyclopentane	4259-00-1	0.26623	0.27275	584.65	0.28571	251.51	584.65	1,2	298.15	0.7682
14869	C8H16	1,1,3-trimethylcyclopentane	4516-69-2	0.26623	0.28118	571.30	0.28571	130.71	571.30	1,2	298.15	0.7439
14870	C8H16	1,cis-2,cis-3-trimethylcyclopentane	2613-69-6	0.26560	0.27021	591.57	0.28571	156.72	591.57	1,2	298.15	0.7751
14871	C8H16	1,cis-2,trans-3-trimethylcyclopentane	15890-40-1	0.26560	0.27263	583.36	0.28571	161.15	583.36	1,2	298.15	0.7661
14872	C8H16	1,trans-2,cis-3-trimethylcyclopentane	19374-46-0	0.26560	0.27815	572.46	0.28571	160.45	572.46	1,2	298.15	0.7492
14873	C8H16	1,cis-2,cis-4-trimethylcyclopentane	2613-72-1	0.26560	0.27167	582.61	0.28571	140.85	582.61	1,2	298.15	0.7680
14874	C8H16	1,cis-2,trans-4-trimethylcyclopentane	4850-28-6	0.26560	0.27546	582.21	0.28571	140.60	582.21	1,2	298.15	0.7592
14875	C8H16	1,trans-2,cis-4-trimethylcyclopentane	16883-48-0	0.26560	0.28074	571.10	0.28571	142.37	571.10	1,2	298.15	0.7430
14876	C8H16	1-methyl-3-ethylcyclopentane	3726-47-4	0.26473	0.28812	585.27	0.28571	142.85	585.27	2	298.15	0.7307
14877	C8H16	ethylcyclohexane	1678-91-7	0.24940	0.25385	609.15	0.26750	161.84	609.15	1,2	298.15	0.7840
14878	C8H16	1,1-dimethylcyclohexane	590-66-9	0.24940	0.25137	591.15	0.27758	239.66	591.15	1,2	298.15	0.7770
14879	C8H16	1,2-dimethylcyclohexane, (cis+trans)	583-57-3	0.24665	0.24671	597.51	0.28571	201.53	597.51	1,2	298.15	0.7780
14880	C8H16	cis-1,2-dimethylcyclohexane	2207-01-4	0.24390	0.24360	606.15	0.26809	223.16	606.15	1,2	298.15	0.7920
14881	C8H16	trans-1,2-dimethylcyclohexane	6876-23-9	0.24390	0.25022	596.15	0.26580	184.99	596.15	1,2	298.15	0.7720
14882	C8H16	1,3-dimethylcyclohexane, cis and trans	591-21-9	0.24665	0.25103	597.51	0.28571	201.53	597.51	1,2	298.15	0.7670
14883	C8H16	cis-1,3-dimethylcyclohexane	638-04-0	0.24940	0.25584	591.15	0.28393	197.58	591.15	1,2	298.15	0.7620
14884	C8H16	trans-1,3-dimethylcyclohexane	2207-03-6	0.24390	0.24415	598.00	0.27796	183.07	598.00	1,2	298.15	0.7810
14885	C8H16	1,4-dimethylcyclohexane, (cis+trans)	589-90-2	0.24665	0.24905	597.51	0.28571	201.53	597.51	1,2	298.15	0.7720
14886	C8H16	cis-1,4-dimethylcyclohexane	624-29-3	0.24390	0.24514	598.15	0.27709	185.72	598.15	1,2	298.15	0.7790
14887	C8H16	trans-1,4-dimethylcyclohexane	2207-04-7	0.24940	0.25848	590.15	0.27750	236.21	590.15	1,2	298.15	0.7590
14888	C8H16	cyclooctane	292-64-8	0.27370	0.26622	647.20	0.28571	287.60	647.20	1,2	298.15	0.8300
14890	C8H16	1-octene	111-66-0	0.23770	0.25760	566.60	0.28571	171.45	566.60	1,2	298.15	0.7110
14891	C8H16	oct-2-ene	111-67-1	0.24471	0.25780	564.74	0.28571	186.15	564.74	2	298.15	0.7307
14892	C8H16	cis-2-octene	7642-04-8	0.24210	0.26122	576.06	0.28571	172.95	576.06	1,2	298.15	0.7201
14893	C8H16	trans-2-octene	13389-42-9	0.23180	0.24952	577.00	0.28570	185.45	577.00	1,2	298.15	0.7160
14894	C8H16	cis-3-octene	14850-22-7	0.24210	0.26186	572.11	0.28571	147.15	572.11	1,2	298.15	0.7170
14895	C8H16	trans-3-octene	14919-01-8	0.23380	0.25380	574.00	0.28570	163.15	574.00	1,2	298.15	0.7110
14896	C8H16	oct-4-ene	592-99-4	0.24471	0.25780	564.74	0.28571	183.25	564.74	2	298.15	0.7307
14897	C8H16	cis-4-octene	7642-15-1	0.24210	0.26176	571.59	0.28571	154.45	571.59	1,2	298.15	0.7170
14898	C8H16	trans-4-octene	14850-23-8	0.23380	0.25405	573.00	0.28570	179.37	573.00	1,2	298.15	0.7100
14899	C8H16	2-methyl-1-heptene	15870-10-7	0.24106	0.26006	568.53	0.28571	183.15	568.53	1,2	298.15	0.7164
14900	C8H16	3-methyl-1-heptene	4810-09-7	0.24474	0.24132	557.26	0.28571	162.66	557.26	1,2	298.15	0.7670
14901	C8H16	4-methyl-1-heptene	13151-05-8	0.24474	0.26481	559.87	0.28571	162.66	559.87	1,2	298.15	0.7130
14902	C8H16	5-methyl-1-heptene	13151-04-7	0.24474	0.26532	560.59	0.28571	162.66	560.59	1,2	298.15	0.7122
14903	C8H16	6-methyl-1-heptene	5026-76-6	0.24474	0.26730	560.45	0.28571	162.66	560.45	1,2	298.15	0.7079
14904	C8H16	2-methyl-2-heptene	627-97-4	0.24158	0.26041	575.22	0.28571	160.38	575.22	1,2	298.15	0.7200

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
14905	C8H16	3-methyl-cis-2-heptene	22768-19-0	0.24158	0.25804	574.35	0.28571	160.38	574.35	1,2	298.15	0.7250
14906	C8H16	3-methyl-trans-2-heptene	22768-20-3	0.24158	0.25804	574.35	0.28571	160.38	574.35	1,2	298.15	0.7250
14907	C8H16	4-methyl-cis-2-heptene	66225-16-9	0.24528	0.26672	563.49	0.28571	159.34	563.49	1,2	298.15	0.7120
14908	C8H16	4-methyl-trans-2-heptene	66225-17-0	0.24528	0.26672	563.49	0.28571	159.34	563.49	1,2	298.15	0.7120
14909	C8H16	5-methyl-cis-2-heptene	24608-84-2	0.24528	0.26465	569.31	0.28571	159.34	569.31	1,2	298.15	0.7190
14910	C8H16	5-methyl-trans-2-heptene	24608-85-3	0.24528	0.26465	569.31	0.28571	159.34	569.31	1,2	298.15	0.7190
14911	C8H16	6-methyl-2-heptene	73548-72-8	0.24471	0.26529	564.74	0.28571	159.40	564.74	1,2	298.15	0.7140
14912	C8H16	6-methyl-cis-2-heptene	66225-18-1	0.24528	0.26666	567.85	0.28571	159.34	567.85	1,2	298.15	0.7140
14913	C8H16	6-methyl-trans-2-heptene	51065-65-7	0.24528	0.26666	567.85	0.28571	159.34	567.85	1,2	298.15	0.7140
14914	C8H16	6-methyl-3-heptene	3404-57-7	0.24471	0.26761	564.74	0.28571	159.40	564.74	1,2	298.15	0.7090
14915	C8H16	2-methyl-3-heptene	17618-76-7	0.24471	0.27092	564.74	0.28571	165.65	564.74	1,2	298.15	0.7020
14916	C8H16	2-methyl-cis-3-heptene	20488-34-0	0.24528	0.27085	560.58	0.28571	159.34	560.58	1,2	298.15	0.7020
14917	C8H16	2-methyl-trans-3-heptene	692-96-6	0.24528	0.27085	560.58	0.28571	159.34	560.58	1,2	298.15	0.7020
14918	C8H16	3-methyl-3-heptene	7300-03-0	0.24471	0.26075	564.74	0.28571	159.40	564.74	1,2	298.15	0.7240
14919	C8H16	3-methyl-cis-3-heptene	22768-17-8	0.24158	0.25820	572.89	0.28571	160.38	572.89	1,2	298.15	0.7240
14920	C8H16	3-methyl-trans-3-heptene	22768-18-9	0.24158	0.25820	572.89	0.28571	160.38	572.89	1,2	298.15	0.7240
14921	C8H16	4-methyl-3-heptene	4485-16-9	0.24471	0.26210	564.74	0.28571	159.40	564.74	1,2	298.15	0.7210
14922	C8H16	4-methyl-cis-3-heptene	14255-24-4	0.24158	0.25980	574.35	0.28571	160.38	574.35	1,2	298.15	0.7210
14923	C8H16	4-methyl-trans-3-heptene	13714-85-7	0.24158	0.25980	574.35	0.28571	160.38	574.35	1,2	298.15	0.7210
14924	C8H16	5-methyl-3-heptene	13172-91-3	0.24471	0.26761	564.74	0.28571	159.40	564.74	1,2	298.15	0.7090
14925	C8H16	5-methyl-cis-3-heptene	50422-80-5	0.24528	0.26753	560.58	0.28571	159.34	560.58	1,2	298.15	0.7090
14926	C8H16	5-methyl-trans-3-heptene	53510-18-2	0.24528	0.26753	560.58	0.28571	159.34	560.58	1,2	298.15	0.7090
14927	C8H16	6-methyl-cis-3-heptene	66225-19-2	0.24528	0.26842	564.94	0.28571	159.34	564.94	1,2	298.15	0.7090
14928	C8H16	6-methyl-trans-3-heptene	66225-20-5	0.24528	0.26842	564.94	0.28571	159.34	564.94	1,2	298.15	0.7090
14929	C8H16	2-ethyl-1-hexene	1632-16-2	0.28120	0.29725	574.00	0.34186	163.70	574.00	1,2	298.15	0.7230
14930	C8H16	3-ethyl-1-hexene	3404-58-8	0.24474	0.26498	556.24	0.28571	162.66	556.24	1,2	298.15	0.7110
14931	C8H16	4-ethyl-1-hexene	16746-85-3	0.24474	0.25987	555.81	0.28571	162.66	555.81	1,2	298.15	0.7220
14932	C8H16	2,3-dimethyl-1-hexene	16746-86-4	0.24421	0.26221	560.04	0.28571	148.70	560.04	1,2	298.15	0.7172
14933	C8H16	2,4-dimethyl-1-hexene	16746-87-5	0.24421	0.26296	561.06	0.28571	148.70	561.06	1,2	298.15	0.7160
14934	C8H16	2,5-dimethyl-1-hexene	6975-92-4	0.24421	0.26450	561.65	0.28571	148.70	561.65	1,2	298.15	0.7129
14935	C8H16	3,3-dimethyl-1-hexene	3404-77-1	0.24744	0.26901	555.62	0.28571	180.08	555.62	1,2	298.15	0.7099
14936	C8H16	3,4-dimethyl-1-hexene	16745-94-1	0.24799	0.26657	563.01	0.28571	147.66	563.01	1,2	298.15	0.7200
14937	C8H16	3,5-dimethyl-1-hexene	7423-69-0	0.24799	0.27165	551.31	0.28571	147.66	551.31	1,2	298.15	0.7040
14938	C8H16	4,4-dimethyl-1-hexene	1647-08-1	0.24744	0.26728	560.33	0.28571	180.08	560.33	1,2	298.15	0.7157
14939	C8H16	4,5-dimethyl-1-hexene	16106-59-5	0.24799	0.26385	558.62	0.28571	147.66	558.62	1,2	298.15	0.7240
14940	C8H16	5,5-dimethyl-1-hexene	7116-86-1	0.24744	0.27088	553.41	0.28571	180.08	553.41	1,2	298.15	0.7050
14941	C8H16	3-ethyl-cis-2-hexene	36880-72-5	0.24158	0.25430	572.89	0.28571	160.38	572.89	1,2	298.15	0.7330
14942	C8H16	3-ethyl-trans-2-hexene	66225-15-8	0.24158	0.25430	572.89	0.28571	160.38	572.89	1,2	298.15	0.7330
14943	C8H16	4-ethyl-cis-2-hexene	54616-49-8	0.24528	0.26231	562.03	0.28571	159.34	562.03	1,2	298.15	0.7210
14944	C8H16	4-ethyl-trans-2-hexene	19781-63-6	0.24528	0.26231	562.03	0.28571	159.34	562.03	1,2	298.15	0.7210
14945	C8H16	2,3-dimethyl-2-hexene	7145-20-2	0.24106	0.25530	577.66	0.28571	158.05	577.66	1,2	298.15	0.7312
14946	C8H16	2,4-dimethyl-2-hexene	14255-23-3	0.24474	0.26338	562.10	0.28571	145.38	562.10	1,2	298.15	0.7171
14947	C8H16	2,5-dimethyl-2-hexene	3404-78-2	0.24474	0.26435	564.45	0.28571	145.38	564.45	1,2	298.15	0.7160
14948	C8H16	3,4-dimethyl-cis-2-hexene	19550-81-3	0.24474	0.25786	570.01	0.28571	145.38	570.01	1,2	298.15	0.7330
14949	C8H16	3,4-dimethyl-trans-2-hexene	19550-82-4	0.24474	0.25786	570.01	0.28571	145.38	570.01	1,2	298.15	0.7330
14950	C8H16	3,5-dimethyl-cis-2-hexene	66225-31-8	0.24474	0.26202	564.15	0.28571	145.38	564.15	1,2	298.15	0.7210
14951	C8H16	3,5-dimethyl-trans-2-hexene	66225-12-5	0.24474	0.26202	564.15	0.28571	145.38	564.15	1,2	298.15	0.7210
14952	C8H16	4,4-dimethyl-cis-2-hexene	19550-83-5	0.24799	0.26699	560.54	0.28571	176.76	560.54	1,2	298.15	0.7180
14953	C8H16	4,4-dimethyl-trans-2-hexene	---	0.24799	0.26699	560.54	0.28571	176.76	560.54	1,2	298.15	0.7180
14954	C8H16	4,5-dimethyl-2-hexene	73548-71-7	0.24471	0.26210	564.74	0.28571	159.40	564.74	1,2	298.15	0.7210
14955	C8H16	4,5-dimethyl-cis-2-hexene	65036-71-7	0.24854	0.26664	562.01	0.28571	144.34	562.01	1,2	298.15	0.7210
14956	C8H16	4,5-dimethyl-trans-2-hexene	66225-14-7	0.24854	0.26664	562.01	0.28571	144.34	562.01	1,2	298.15	0.7210
14957	C8H16	5,5-dimethyl-cis-2-hexene	39761-61-0	0.24799	0.26982	561.87	0.28571	176.76	561.87	1,2	298.15	0.7125
14958	C8H16	5,5-dimethyl-trans-2-hexene	39782-43-9	0.24799	0.27384	557.73	0.28571	176.76	557.73	1,2	298.15	0.7023
14959	C8H16	3-ethyl-3-hexene	16789-51-8	0.24158	0.25636	565.63	0.28571	160.38	565.63	1,2	298.15	0.7250
14960	C8H16	2,2-dimethyl-cis-3-hexene	690-92-6	0.24799	0.27122	559.69	0.28571	135.80	559.69	1,2	298.15	0.7086
14961	C8H16	2,2-dimethyl-trans-3-hexene	690-93-7	0.24799	0.27419	552.92	0.28571	176.76	552.92	1,2	298.15	0.6995
14962	C8H16	2,3-dimethyl-cis-3-hexene	59643-75-3	0.24474	0.26126	567.08	0.28571	145.38	567.08	1,2	298.15	0.7240
14963	C8H16	2,3-dimethyl-trans-3-hexene	66225-30-7	0.24474	0.26126	567.08	0.28571	145.38	567.08	1,2	298.15	0.7240
14964	C8H16	2,4-dimethyl-cis-3-hexene	37549-89-6	0.24474	0.26455	559.76	0.28571	145.38	559.76	1,2	298.15	0.7135
14965	C8H16	2,4-dimethyl-trans-3-hexene	61847-78-7	0.24474	0.26571	557.71	0.28571	145.38	557.71	1,2	298.15	0.7101
14966	C8H16	2,5-dimethyl-cis-3-hexene	10557-44-5	0.24854	0.27122	550.28	0.28571	144.34	550.28	1,2	298.15	0.7060
14967	C8H16	2,5-dimethyl-trans-3-hexene	692-70-6	0.24854	0.27122	550.28	0.28571	144.34	550.28	1,2	298.15	0.7060
14968	C8H16	3,4-dimethyl-cis-3-hexene	19550-87-9	0.24106	0.25036	578.00	0.28571	146.42	578.00	1,2	298.15	0.7430
14969	C8H16	3,4-dimethyl-trans-3-hexene	19550-88-0	0.24106	0.25036	578.00	0.28571	146.42	578.00	1,2	298.15	0.7430
14970	C8H16	2-propyl-1-pentene	15918-08-8	0.24106	0.25809	566.22	0.28571	163.70	566.22	1,2	298.15	0.7198
14971	C8H16	2-isopropyl-1-pentene	16746-02-4	0.24421	0.26123	563.69	0.28571	148.70	563.69	1,2	298.15	0.7210
14972	C8H16	3-methyl-2-ethyl-1-pentene	3404-67-9	0.24421	0.25900	561.50	0.28571	148.70	561.50	1,2	298.15	0.7250
14973	C8H16	4-methyl-2-ethyl-1-pentene	3404-80-6	0.24421	0.26306	559.75	0.28571	148.70	559.75	1,2	298.15	0.7152
14974	C8H16	2-methyl-3-ethyl-1-pentene	19780-66-6	0.24421	0.25811	559.31	0.28571	160.25	559.31	1,2	298.15	0.7260
14975	C8H16	3-methyl-3-ethyl-1-pentene	6196-60-7	0.24744	0.26381	567.40	0.28571	180.08	567.40	1,2	298.15	0.7264
14976	C8H16	4-methyl-3-ethyl-1-pentene	61847-80-1	0.24799	0.26716	556.43	0.28571	147.66	556.43	1,2	298.15	0.7158
14977	C8H16	2,3,3-trimethyl-1-pentene	560-23-6	0.24690	0.26080	565.71	0.28571	204.15	565.71	1,2	298.15	0.7308
14978	C8H16	2,3,4-trimethyl-1-pentene	565-76-4	0.23209	0.24239	557.76	0.28571	130.96	557.76	1,2	298.15	0.7250
14979	C8H16	2,4,4-trimethyl-1-pentene	107-39-1	0.24130	0.25967	553.00	0.28570	179.70	553.00	1,2	298.15	0.7110
14980	C8H16	3,3,4-trimethyl-1-pentene	560-22-5	0.25076	0.26768	561.62	0.28571	165.08	561.62	1,2	298.15	0.7250
14981	C8H16	3,4,4-trimethyl-1-pentene	564-03-4	0.25076	0.27203	560.14	0.28571	165.08	560.14	1,2	298.15	0.7150
14982	C8H16	2-methyl-3-ethyl-2-pentene	19780-67-7	0.24106	0.25235	570.68	0.28571	146.42	570.68	1,2	298.15	0.7350
14983	C8H16	4-methyl-3-ethyl-cis-2-pentene	42067-48-1	0.24474	0.25699	570.01	0.28571	145.38	570.01	1,2	298.15	0.7350
14984	C8H16	4-methyl-3-ethyl-trans-2-pentene	42067-49-2	0.24474	0.25834	567.52	0.28571	145.38	567.52	1,2	298.15	0.7308

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
14985	C8H16	2,3,4-trimethyl-2-pentene	565-77-5	0.24421	0.25533	574.12	0.28571	159.85	574.12	1,2	298.15	0.7391
14986	C8H16	2,4,4-trimethyl-2-pentene	107-40-4	0.23880	0.25468	558.00	0.28570	166.84	558.00	1,2	298.15	0.7170
14987	C8H16	3,4,4-trimethyl-cis-2-pentene	39761-64-3	0.24744	0.26112	573.25	0.28571	162.80	573.25	1,2	298.15	0.7350
14988	C8H16	3,4,4-trimethyl-trans-2-pentene	39761-57-4	0.24744	0.26112	573.25	0.28571	162.80	573.25	1,2	298.15	0.7350
14989	C8H16	3,4,4-trimethyl-2-pentene	598-96-9	0.24471	0.25593	564.74	0.28571	159.40	564.74	1,2	298.15	0.7350
14990	C8H16	2,4,4-trimethylpentene	25167-70-8	0.24471	0.26426	564.74	0.28571	173.30	564.74	1,2	298.15	0.7162
14991	C8H16	3-methyl-2-isopropyl-1-butene	111823-35-9	0.24744	0.26509	554.89	0.28571	133.70	554.89	1,2	298.15	0.7180
14992	C8H16	3,3-dimethyl-2-ethyl-1-butene	18231-53-3	0.24690	0.26433	568.22	0.28571	166.12	568.22	1,2	298.15	0.7240
14994	C8H16Br2	1,1-dibromooctane	62168-26-7	0.45224	0.26178	716.02	0.28571	284.02	716.02	1,2	298.15	1.4270
14995	C8H16Br2	1,2-dibromooctane	6269-92-7	0.45224	0.25648	716.02	0.28571	286.34	716.02	1,2	298.15	1.4522
14996	C8H16Br2	1,4-dibromooctane	70690-24-3	0.45224	0.25696	716.02	0.28571	286.34	716.02	1,2	298.15	1.4499
14997	C8H16Br2	1,5-dibromooctane	17912-17-3	0.45224	0.25969	716.02	0.28571	286.34	716.02	1,2	298.15	1.4368
14998	C8H16Br2	1,8-dibromooctane	4549-32-0	0.45224	0.25501	716.02	0.28571	288.65	716.02	1,2	298.15	1.4594
14999	C8H16Br2	4,5-dibromooctane	61539-75-1	0.45224	0.25671	716.02	0.28571	286.34	716.02	1,2	298.15	1.4511
15005	C8H16Cl2	1,1-dichlorooctane	20395-24-8	0.31819	0.26131	672.06	0.28571	224.26	672.06	1,2	298.15	0.9900
15006	C8H16Cl2	2,5-dichloro-2,5-dimethylhexane	6223-78-5	0.31819	0.27425	672.06	0.28571	340.65	672.06	1,2	491.48	0.7738
15007	C8H16Cl2	1,8-dichlorooctane	2162-99-4	0.31819	0.25085	672.06	0.28571	260.99	672.06	1,2	298.15	1.0248
15008	C8H16Cl2	2,3-dichlorooctane	21948-47-0	0.31819	0.26864	672.06	0.28571	218.05	672.06	1,2	298.15	0.9671
15016	C8H16F2	1,1-difluorooctane	61350-03-6	0.29569	0.25820	580.30	0.28571	228.72	580.30	1,2	298.15	0.8900
15017	C8H16I2	1,1-diiodooctane	66225-22-7	0.56010	0.26407	799.06	0.28571	280.54	799.06	1,2	298.15	1.7960
15018	C8H16I2	1,8-diiodooctane	24772-63-2	0.56010	0.25687	799.06	0.28571	291.65	799.06	1,2	298.15	1.8400
15062	C8H16O	2-ethylhexanal	123-05-7	0.27050	0.26088	607.00	0.28570	246.00	607.00	1,2	298.15	0.8190
15063	C8H16O	1-octanal	124-13-0	0.27050	0.27253	621.00	0.24964	246.00	621.00	1,2	298.15	0.8160
15064	C8H16O	5-methylheptanal	75579-88-3	0.27050	0.26298	614.00	0.28571	246.00	614.00	1,2	298.15	0.8164
15065	C8H16O	2-propylpentanal	18295-59-5	0.27050	0.25914	614.00	0.28571	246.00	614.00	1,2	298.15	0.8264
15066	C8H16O	2-octanone	111-13-7	0.27340	0.26604	624.00	0.29628	252.85	624.00	1,2	298.15	0.8150
15067	C8H16O	2,5-dimethyl-3-hexanone	1888-57-9	0.27340	0.26382	624.00	0.28571	252.85	624.00	1,2	298.15	0.8269
15068	C8H16O	2,2-dimethyl-3-hexanone	5405-79-8	0.27340	0.27026	624.00	0.28571	252.85	624.00	1,2	298.15	0.8105
15069	C8H16O	3,3-dimethyl-2-hexanone	26118-38-7	0.27340	0.26581	624.00	0.28571	252.85	624.00	1,2	298.15	0.8217
15070	C8H16O	3,4-dimethyl-2-hexanone	19550-10-8	0.27340	0.26374	624.00	0.28571	252.85	624.00	1,2	298.15	0.8271
15071	C8H16O	4,4-dimethyl-3-hexanone	19550-14-2	0.27340	0.26473	624.00	0.28571	252.85	624.00	1,2	298.15	0.8245
15072	C8H16O	3-ethyl-4-methyl-2-pentanone	71172-57-1	0.27340	0.27119	624.00	0.28571	252.85	624.00	1,2	298.15	0.8082
15073	C8H16O	2-methyl-3-heptanone	13019-20-0	0.27340	0.26948	624.00	0.28571	252.85	624.00	1,2	298.15	0.8124
15074	C8H16O	2-methyl-4-heptanone	626-33-5	0.27340	0.27018	624.00	0.28571	252.85	624.00	1,2	298.15	0.8107
15075	C8H16O	3-methyl-2-heptanone	2371-19-9	0.27340	0.26732	624.00	0.28571	252.85	624.00	1,2	298.15	0.8179
15076	C8H16O	3-methyl-4-heptanone	15726-15-5	0.27340	0.26347	624.00	0.28571	252.85	624.00	1,2	298.15	0.8278
15077	C8H16O	5-methyl-3-heptanone	541-85-5	0.27340	0.25054	624.00	0.28571	252.85	624.00	2	298.15	0.8631
15078	C8H16O	6-methyl-2-heptanone	928-68-7	0.27340	0.26996	624.00	0.28571	252.85	624.00	1,2	298.15	0.8112
15079	C8H16O	6-methyl-3-heptanone	624-42-0	0.27340	0.26401	624.00	0.28571	252.85	624.00	1,2	298.15	0.8264
15080	C8H16O	3-octanone	106-68-3	0.27340	0.26571	624.00	0.28571	252.85	624.00	1,2	298.15	0.8220
15081	C8H16O	4-octanone	589-63-9	0.27340	0.26862	624.00	0.28571	252.85	624.00	1,2	298.15	0.8146
15082	C8H16O	2,2,4-trimethyl-3-pentanone	5857-36-3	0.27340	0.27341	624.00	0.28571	252.85	624.00	1,2	298.15	0.8027
15095	C8H16O	2,2-dimethylcyclohexanol	1193-46-0	0.28607	0.24852	645.00	0.28571	281.15	645.00	1,2	298.15	0.9181
15096	C8H16O	2,4-dimethylcyclohexanol	69542-91-2	0.28607	0.25593	645.00	0.28571	292.83	645.00	1,2	298.15	0.8958
15097	C8H16O	2,6-dimethylcyclohexanol	5337-72-4	0.28607	0.24041	645.00	0.28571	305.65	645.00	1,2	449.15	0.7886
15098	C8H16O	3,3-dimethylcyclohexanol	767-12-4	0.28607	0.25335	645.00	0.28571	284.65	645.00	1,2	298.15	0.9034
15099	C8H16O	3,4-dimethylcyclohexanol	5715-23-1	0.28607	0.25461	645.00	0.28571	292.83	645.00	1,2	298.15	0.8997
15100	C8H16O	3,5-dimethylcyclohexanol	5441-52-1	0.28607	0.25661	645.00	0.28571	284.75	645.00	1,2	298.15	0.8938
15101	C8H16O	4,4-dimethylcyclohexanol	932-01-4	0.28607	0.24773	645.00	0.28571	289.15	645.00	1,2	298.15	0.9206
15102	C8H16O	cis-1,2-dimethylcyclohexanol	19879-11-9	0.28607	0.24773	645.00	0.28571	296.35	645.00	1,2	298.15	0.9206
15103	C8H16O	trans-1,2-dimethyl cyclohexanol	19879-12-0	0.28607	0.24975	645.00	0.28571	286.35	645.00	1,2	298.15	0.9143
15104	C8H16O	cis-1,3-dimethylcyclohexanol	15466-94-1	0.28607	0.25519	645.00	0.28571	300.65	645.00	1,2	435.14	0.7706
15105	C8H16O	trans-1,3-dimethylcyclohexanol	15466-93-0	0.28607	0.25668	645.00	0.28571	287.65	645.00	1,2	298.15	0.8936
15106	C8H16O	cis-1,4-dimethylcyclohexanol	16980-61-3	0.28607	0.25269	645.00	0.28571	297.15	645.00	1,2	298.15	0.9054
15107	C8H16O	2,2-dimethyl-4-hexen-3-ol	37674-67-2	0.33091	0.32871	615.00	0.28571	245.15	615.00	1,2	298.15	0.8308
15108	C8H16O	2,5-dimethyl-4-hexen-3-ol	60703-31-3	0.33091	0.32396	615.00	0.28571	245.15	615.00	1,2	298.15	0.8409
15109	C8H16O	3,5-dimethyl-1-hexen-3-ol	3329-48-4	0.33091	0.32684	615.00	0.28571	245.15	615.00	1,2	298.15	0.8347
15110	C8H16O	3,5-dimethyl-4-hexen-3-ol	1569-43-3	0.33091	0.31786	615.00	0.28571	245.15	615.00	1,2	298.15	0.8542
15111	C8H16O	2-methyl-3-hepten-2-ol	116668-45-2	0.33091	0.32929	615.00	0.28571	245.15	615.00	1,2	298.15	0.8296
15112	C8H16O	2-methyl-4-hepten-2-ol	116668-44-1	0.33091	0.32681	615.00	0.28571	245.15	615.00	1,2	298.15	0.8348
15113	C8H16O	2-methyl-6-hepten-2-ol	77437-98-0	0.33091	0.32762	615.00	0.28571	245.15	615.00	1,2	298.15	0.8331
15114	C8H16O	3-methyl-4-hepten-3-ol	4048-30-0	0.33091	0.31819	615.00	0.28571	245.15	615.00	1,2	298.15	0.8535
15115	C8H16O	3-methyl-6-hepten-1-ol	4048-32-2	0.33091	0.31891	615.00	0.28571	245.15	615.00	1,2	298.15	0.8519
15116	C8H16O	4-methyl-1-hepten-4-ol	1186-31-8	0.33091	0.32859	615.00	0.28571	245.15	615.00	1,2	298.15	0.8311
15117	C8H16O	4-methyl-4-hepten-3-ol	81280-12-8	0.33091	0.32090	615.00	0.28571	245.15	615.00	1,2	298.15	0.8475
15118	C8H16O	5-methyl-2-hepten-4-ol	4048-31-1	0.33091	0.32262	615.00	0.28571	245.15	615.00	1,2	298.15	0.8438
15119	C8H16O	6-methyl-2-hepten-4-ol	4798-62-3	0.33091	0.33160	615.00	0.28571	245.15	615.00	1,2	298.15	0.8248
15120	C8H16O	6-methyl-5-hepten-2-ol	1569-60-4	0.33091	0.31935	615.00	0.28571	245.15	615.00	1,2	298.15	0.8509
15121	C8H16O	1-octen-4-ol	40575-42-6	0.33091	0.32726	615.00	0.28571	245.15	615.00	1,2	298.15	0.8338
15122	C8H16O	2-octen-1-ol	22104-78-5	0.33091	0.32139	615.00	0.28571	245.15	615.00	1,2	298.15	0.8464
15123	C8H16O	2-octen-4-ol	4798-61-2	0.33091	0.32633	615.00	0.28571	245.15	615.00	1,2	298.15	0.8358
15124	C8H16O	4-octen-1-ol	67700-26-9	0.33091	0.32414	615.00	0.28571	245.15	615.00	1,2	298.15	0.8405
15125	C8H16O	5-octen-1-ol	90200-83-2	0.33091	0.32143	615.00	0.28571	245.15	615.00	1,2	298.15	0.8463
15127	C8H16O	1-ethylcyclohexanol	1940-18-7	0.28607	0.24705	645.00	0.28571	307.65	645.00	1,2	439.15	0.7846
15128	C8H16O	4-ethylcyclohexanol	4534-74-1	0.28607	0.25827	645.00	0.28571	292.83	645.00	1,2	298.15	0.8890
15129	C8H16O	cis-2-ethylcyclohexanol, (±)	116697-35-9	0.28607	0.24668	645.00	0.28571	292.83	645.00	1,2	298.15	0.9238
15130	C8H16O	trans-2-ethylcyclohexanol, (±)	89886-25-9	0.28607	0.24927	645.00	0.28571	292.83	645.00	1,2	298.15	0.9158
15131	C8H16O	hexyl vinyl ether	5363-64-4	0.28342	0.28368	586.00	0.28571	290.00	586.00	1,2	298.15	0.7926
15141	C8H16O	2-ethylcyclohexanol	3760-20-1	0.28607	0.25249	645.00	0.28571	292.83	645.00	1,2	298.15	0.9060
15142	C8H16O	DL-6-methyl-5-hepten-2-ol	4630-06-2	0.33091	0.32436	615.00	0.28571	245.15	615.00	1,2	298.15	0.8400

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
15143	C8H16O	trans-2-octen-1-ol	18409-17-1	0.33091	0.31976	615.00	0.28571	245.15	615.00	1,2	298.15	0.8500
15144	C8H16O	1-octen-3-ol	3391-86-4	0.33091	0.32909	615.00	0.28571	245.15	615.00	1,2	298.15	0.8300
15145	C8H16O	(R)-(-)-1-octen-3-ol	3687-48-7	0.33091	0.31367	615.00	0.28571	245.15	615.00	2	298.15	0.8636
15147	C8H16O	3-ethyl-3-methyl-2-pentanone	19780-65-5	0.27340	0.25054	624.00	0.28571	252.85	624.00	2	298.15	0.8631
15148	C8H16O	5-methyl-2-heptanone	18217-12-4	0.27340	0.25054	624.00	0.28571	252.85	624.00	2	298.15	0.8631
15151	C8H16O	6-methyl-6-hepten-2-ol	1335-09-7	0.33091	0.31367	615.00	0.28571	245.15	615.00	2	298.15	0.8636
15156	C8H16O2	octanoic acid	124-07-2	0.29190	0.26647	692.00	0.28020	289.65	692.00	1,2	298.15	0.9030
15157	C8H16O2	2-ethylhexanoic acid	149-57-5	0.29190	0.26534	692.00	0.28571	289.65	692.00	1,2	298.15	0.9031
15158	C8H16O2	3-ethylhexanoic acid	41065-91-2	0.29190	0.26135	692.00	0.28571	289.65	692.00	1,2	298.15	0.9148
15159	C8H16O2	heptyl formate	112-23-2	0.27894	0.25420	633.60	0.28571	226.75	633.60	1,2	298.15	0.8740
15160	C8H16O2	hexyl acetate	142-92-7	0.29190	0.26548	618.00	0.29810	192.25	618.00	1,2	298.15	0.8680
15161	C8H16O2	1,1-dimethylbutyl acetate	34859-98-8	0.29190	0.25456	618.00	0.28571	192.25	618.00	1,2	298.15	0.9068
15162	C8H16O2	2-ethylbutyl acetate	10031-87-5	0.29190	0.26587	618.00	0.28571	192.25	618.00	1,2	298.15	0.8747
15163	C8H16O2	sec-hexyl acetate	108-84-9	0.29190	0.26377	618.00	0.28571	192.25	618.00	1,2	298.15	0.8805
15164	C8H16O2	2-methyl-1-pentyl acetate	7789-99-3	0.29190	0.26762	618.00	0.28571	192.25	618.00	1,2	298.15	0.8700
15165	C8H16O2	2-methyl-3-pentyl acetate	35897-16-6	0.29190	0.26963	618.00	0.28571	192.25	618.00	1,2	298.15	0.8646
15166	C8H16O2	3-methyl-3-pentyl acetate	10250-47-2	0.29190	0.26486	618.00	0.28571	192.25	618.00	1,2	298.15	0.8775
15167	C8H16O2	pentyl propanoate	624-54-4	0.27787	0.25284	617.80	0.28571	203.05	617.80	1,2	298.15	0.8680
15168	C8H16O2	1-methylbutyl propanoate	54004-43-2	0.29017	0.26547	597.00	0.28571	206.75	597.00	1,2	298.15	0.8616
15169	C8H16O2	2-methylbutyl propanoate	2438-20-2	0.29017	0.25705	609.00	0.28571	206.75	609.00	2	298.15	0.8902
15170	C8H16O2	isopentyl propanoate	105-68-0	0.29017	0.26648	611.00	0.28571	206.75	611.00	1,2	298.15	0.8650
15171	C8H16O2	1-ethylpropyl propanoate	---	0.29252	0.25766	597.00	0.28571	206.75	597.00	2	298.15	0.8901
15172	C8H16O2	1,1-dimethylpropyl propanoate	34949-22-9	0.29193	0.25569	589.00	0.28571	224.17	589.00	2	298.15	0.8901
15173	C8H16O2	1,2-dimethylpropyl propanoate	66576-70-3	0.29371	0.25828	593.00	0.28571	191.75	593.00	2	298.15	0.8901
15174	C8H16O2	2,2-dimethylpropyl propanoate	3581-69-9	0.28671	0.25079	593.00	0.28571	224.17	593.00	2	298.15	0.8901
15175	C8H16O2	butyl butanoate	109-21-7	0.29190	0.27096	616.00	0.27650	181.15	616.00	1,2	298.15	0.8660
15176	C8H16O2	isobutyl butanoate	539-90-2	0.28728	0.26490	611.00	0.28571	206.75	611.00	1,2	298.15	0.8606
15177	C8H16O2	isobutyl isobutyrate	97-85-8	0.29190	0.27192	602.00	0.28570	192.45	602.00	1,2	298.15	0.8520
15178	C8H16O2	sec-butyl butanoate	819-97-6	0.29017	0.25498	596.00	0.28571	206.75	596.00	2	298.15	0.8901
15179	C8H16O2	tert-butyl butanoate	2308-38-5	0.28671	0.24748	574.00	0.28571	224.17	574.00	2	298.15	0.8899
15180	C8H16O2	sec-butyl butanoate, (S)	116836-55-6	0.28901	0.26403	599.25	0.28571	181.65	599.25	1,2	298.15	0.8630
15181	C8H16O2	tert-butyl 2-methylpropanoate	16889-72-8	0.28916	0.25469	600.85	0.28571	208.77	600.85	2	298.15	0.8901
15185	C8H16O2	ethyl hexanoate	123-66-0	0.29190	0.26562	602.00	0.28571	206.15	602.00	1,2	298.15	0.8686
15186	C8H16O2	ethyl 4-methylpentanoate	25415-67-2	0.29190	0.26655	602.00	0.28571	204.55	602.00	1,2	298.15	0.8661
15191	C8H16O2	isopropyl 3-methylbutanoate	32665-23-9	0.28901	0.27015	599.25	0.28571	200.09	599.25	1,2	298.15	0.8469
15192	C8H16O2	isopropyl pentanoate	18362-97-5	0.29190	0.27129	602.00	0.28571	204.55	602.00	1,2	298.15	0.8536
15193	C8H16O2	propyl 3-methylbutanoate	557-00-6	0.28901	0.26618	599.25	0.28571	200.09	599.25	1,2	298.15	0.8573
15194	C8H16O2	propyl pentanoate	141-06-0	0.29190	0.26677	602.00	0.28571	202.45	602.00	1,2	298.15	0.8655
15195	C8H16O2	methyl heptanoate	106-73-0	0.29190	0.26253	602.00	0.28571	217.15	602.00	1,2	298.15	0.8770
15204	C8H16O2	2-methylheptanoic acid	1188-02-9	0.29190	0.26434	692.00	0.28571	289.65	692.00	1,2	298.15	0.9060
15205	C8H16O2	2-propylpentanoic acid	99-66-1	0.29190	0.23443	692.00	0.28571	289.65	692.00	1,2	298.15	1.0035
15207	C8H16O2	butyl isobutyrate	97-87-0	0.29190	0.25781	602.00	0.28571	204.55	602.00	2	298.15	0.8902
15232	C8H16O4	diethylene glycol ethyl ether acetate	112-15-2	0.31190	0.24897	660.00	0.28570	248.15	660.00	1,2	298.15	1.0060
15243	C8H16S	thiacyclononane	6007-54-1	0.32828	0.29480	751.38	0.28571	263.93	751.38	1,2	298.15	0.9449
15248	C8H17Br	1-bromooctane	111-83-1	0.35404	0.25889	665.09	0.28571	218.15	665.09	1,2	298.15	1.1072
15249	C8H17Br	2-bromooctane, (±)-	60251-57-2	0.35404	0.26437	665.09	0.28571	218.15	665.09	1,2	298.15	1.0878
15250	C8H17Br	2-ethylhexyl bromide	18908-66-2	0.35404	0.26576	665.09	0.28571	218.15	665.09	1,2	298.15	1.0830
15252	C8H17Cl	1-chlorooctane	111-85-3	0.27920	0.25738	642.41	0.28571	215.35	642.41	1,2	298.15	0.8692
15253	C8H17Cl	2-chloro-2,5-dimethylhexane	29342-44-7	0.27920	0.26726	642.41	0.28571	231.25	642.41	1,2	298.15	0.8422
15254	C8H17Cl	3-chloro-2,3-dimethylhexane	101654-30-2	0.27920	0.25268	642.41	0.28571	231.25	642.41	1,2	298.15	0.8827
15255	C8H17Cl	2-chloro-2-methylheptane	4325-49-9	0.27920	0.26184	642.41	0.28571	231.25	642.41	1,2	298.15	0.8568
15256	C8H17Cl	2-chloro-6-methylheptane	2350-19-8	0.27920	0.25864	642.41	0.28571	231.25	642.41	2	298.15	0.8656
15257	C8H17Cl	3-chloro-3-methylheptane	5272-02-6	0.27920	0.25629	642.41	0.28571	231.25	642.41	1,2	298.15	0.8723
15258	C8H17Cl	4-chloro-4-methylheptane	61764-94-1	0.27920	0.25889	642.41	0.28571	231.25	642.41	1,2	298.15	0.8650
15259	C8H17Cl	3-(chloromethyl)heptane	123-04-6	0.27920	0.25612	642.41	0.28571	231.25	642.41	1,2	298.15	0.8728
15260	C8H17Cl	2-chlorooctane	628-61-5	0.27920	0.26089	642.41	0.28571	231.25	642.41	1,2	298.15	0.8594
15261	C8H17Cl	2-chloro-2,4,4-trimethylpentane	6111-88-2	0.27920	0.25692	642.41	0.28571	247.15	642.41	1,2	298.15	0.8705
15262	C8H17Cl	(S)-2-chlorooctane	16844-08-9	0.27920	0.25864	642.41	0.28571	231.25	642.41	2	298.15	0.8656
15263	C8H17Cl	(<+->)-2-chlorooctane	51261-14-4	0.27920	0.25864	642.41	0.28571	231.25	642.41	2	298.15	0.8656
15264	C8H17Cl	2-ethylhexyl-6-chloride	2350-24-5	0.27920	0.25864	642.41	0.28571	231.25	642.41	2	298.15	0.8656
15273	C8H17F	1-fluorooctane	463-11-6	0.26550	0.25523	580.50	0.28571	209.15	580.50	1,2	298.15	0.8068
15276	C8H17I	1-iodooctane	629-27-6	0.47787	0.29893	665.98	0.28571	227.45	665.98	1,2	298.15	1.3241
15277	C8H17I	2-iodooctane, (±)	36049-78-2	0.47787	0.30006	665.98	0.28571	227.45	665.98	1,2	298.15	1.3199
15278	C8H17I	2-ethylhexyl iodide	1653-16-3	0.47787	0.29552	665.98	0.28571	227.45	665.98	1,2	298.15	1.3370
15279	C8H17I	2-octyl iodide	557-36-8	0.47787	0.29816	665.98	0.28571	227.45	665.98	2	298.15	1.3270
15282	C8H17N	cyclohexyldimethylamine	98-94-2	0.28358	0.27186	642.00	0.28571	258.15	642.00	2	298.15	0.8432
15283	C8H17N	cyclohexylethylamine	5459-93-8	0.28358	0.26259	642.00	0.28571	258.15	642.00	1,2	298.15	0.8680
15285	C8H17N	N,4-dimethylcyclohexylamine	90226-23-6	0.28358	0.28244	642.00	0.28571	258.15	642.00	1,2	298.15	0.8167
15286	C8H17N	2-ethylcyclohexanamine	6850-36-8	0.28358	0.26174	642.00	0.28571	258.15	642.00	1,2	298.15	0.8704
15295	C8H17N	(S)-(+)-1-cyclohexylethylamine	17430-98-7	0.28358	0.26700	642.00	0.28571	258.15	642.00	1,2	298.15	0.8560
15296	C8H17N	2,3-dimethylcyclohexylamine	42195-92-6	0.28358	0.27504	642.00	0.28571	258.15	642.00	1,2	298.15	0.8350
15297	C8H17N	R-(-)-cyclohexylethylamine	5913-13-3	0.28358	0.26700	642.00	0.28571	258.15	642.00	1,2	298.15	0.8560
15299	C8H17N	cyclohexaneethylamine	4442-85-7	0.28358	0.27186	642.00	0.28571	258.15	642.00	2	298.15	0.8432
15301	C8H17N	N-methyl-N-(cyclohexylmethyl) amine	25756-29-0	0.28358	0.27186	642.00	0.28571	258.15	642.00	2	298.15	0.8432
15328	C8H17NO2	1-nitrooctane	629-37-8	0.28157	0.24541	690.75	0.28571	288.15	690.75	1,2	298.15	0.9306
15332	C8H17NO2	2-nitrooctane, (±)	116836-12-5	0.28157	0.25106	690.75	0.28571	288.15	690.75	1,2	298.15	0.9127
15354	C8H18	octane	111-65-9	0.23220	0.26024	568.83	0.26940	216.38	568.83	1,2	298.15	0.6990
15355	C8H18	2-methylheptane	592-27-8	0.23410	0.26200	559.64	0.27130	164.16	559.64	1,2	298.15	0.6960
15356	C8H18	3-methylheptane	589-81-1	0.24620	0.27660	563.67	0.27130	152.60	563.67	1,2	298.15	0.7020
15357	C8H18	4-methylheptane	589-53-7	0.24000	0.25948	561.74	0.28324	152.20	561.74	1,2	298.15	0.7130

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
15358	C8H18	3-methyl-3-ethylpentane	1067-08-9	0.25100	0.27240	576.50	0.28169	182.28	576.50	1,2	298.15	0.7240
15359	C8H18	3-ethylhexane	619-99-8	0.25100	0.28114	565.40	0.26570	177.10	565.40	1,2	298.15	0.7100
15360	C8H18	3-ethyl-2-methylpentane	609-26-7	0.25650	0.28314	567.00	0.28571	158.20	567.00	1,2	298.15	0.7110
15361	C8H18	2,2-dimethylhexane	590-73-8	0.23900	0.26691	549.80	0.27774	151.97	549.80	1,2	298.15	0.6920
15362	C8H18	2,3-dimethylhexane	584-94-1	0.24400	0.27115	563.40	0.26950	149.42	563.40	1,2	298.15	0.7080
15363	C8H18	2,4-dimethylhexane	589-43-5	0.24200	0.26570	553.50	0.29850	149.42	553.50	1,2	298.15	0.6930
15364	C8H18	2,5-dimethylhexane	592-13-2	0.23700	0.26501	550.00	0.27820	182.00	550.00	1,2	298.15	0.6900
15365	C8H18	3,3-dimethylhexane	563-16-6	0.25800	0.29402	562.00	0.25680	147.05	562.00	1,2	298.15	0.7070
15366	C8H18	3,4-dimethylhexane	583-48-2	0.24500	0.27030	568.80	0.26761	177.10	568.80	1,2	298.15	0.7160
15367	C8H18	2,2,3-trimethylpentane	564-02-3	0.26200	0.29279	563.50	0.27340	160.89	563.50	1,2	298.15	0.7120
15368	C8H18	2,2,4-trimethylpentane	540-84-1	0.24410	0.27180	543.96	0.28460	165.78	543.96	1,2	298.15	0.6900
15369	C8H18	2,3,3-trimethylpentane	560-21-4	0.25100	0.27474	573.50	0.27410	172.22	573.50	1,2	298.15	0.7220
15370	C8H18	2,3,4-trimethylpentane	565-75-3	0.24800	0.27464	566.30	0.26474	163.95	566.30	1,2	298.15	0.7160
15371	C8H18	2,2,3,3-tetramethylbutane	594-82-1	0.24740	0.28015	567.80	0.28571	373.97	567.80	1,2	393.97	0.6130
15372	C8H18	octane, mixture	---	0.24603	0.27076	562.52	0.28571	168.25	562.52	2	298.15	0.7052
15430	C8H18O	1-octanol	111-87-5	0.26580	0.26141	652.50	0.28090	257.65	652.50	1,2	298.15	0.8230
15431	C8H18O	2-octanol	123-96-6	0.27770	0.27272	637.15	0.29430	241.55	637.15	1,2	298.15	0.8170
15432	C8H18O	2-octanol, (±)	4128-31-8	0.26688	0.25719	600.92	0.28571	241.55	600.92	1,2	298.15	0.8150
15433	C8H18O	3-octanol	589-98-0	0.26230	0.25099	601.72	0.28571	228.15	601.72	1,2	298.15	0.8176
15434	C8H18O	4-octanol	589-62-8	0.26230	0.25222	604.27	0.28571	232.45	604.27	1,2	298.15	0.8154
15435	C8H18O	4-octanol, (±)	74778-22-6	0.26688	0.25746	600.92	0.28571	232.45	600.92	1,2	298.15	0.8143
15436	C8H18O	2-methyl-1-heptanol	60435-70-3	0.26230	0.25846	602.93	0.28571	161.15	602.93	1,2	298.15	0.7986
15437	C8H18O	3-methyl-1-heptanol	1070-32-2	0.26230	0.26637	616.90	0.28571	183.15	616.90	1,2	298.15	0.7844
15438	C8H18O	4-methyl-1-heptanol	817-91-4	0.26230	0.25700	613.14	0.28571	225.24	613.14	1,2	298.15	0.8065
15439	C8H18O	5-methyl-1-heptanol	7212-53-5	0.26230	0.25434	617.71	0.28571	169.15	617.71	1,2	298.15	0.8153
15440	C8H18O	6-methyl-1-heptanol	1653-40-3	0.26230	0.25374	619.19	0.28571	167.15	619.19	1,2	298.15	0.8175
15441	C8H18O	2-methyl-2-heptanol	625-25-2	0.26497	0.25504	583.83	0.28571	222.75	583.83	1,2	298.15	0.8072
15442	C8H18O	3-methyl-2-heptanol	31367-46-1	0.26551	0.25330	593.34	0.28571	159.15	593.34	1,2	298.15	0.8177
15443	C8H18O	4-methyl-2-heptanol	56298-90-9	0.26551	0.26184	600.77	0.28571	171.15	600.77	1,2	298.15	0.7989
15444	C8H18O	5-methyl-2-heptanol	54630-50-1	0.26551	0.25762	601.18	0.28571	153.15	601.18	1,2	298.15	0.8098
15445	C8H18O	6-methyl-2-heptanol	4730-22-7	0.26551	0.26016	601.18	0.28571	168.15	601.18	1,2	298.15	0.8033
15446	C8H18O	2-methyl-3-heptanol	18720-62-2	0.26551	0.25259	595.37	0.28571	188.15	595.37	1,2	298.15	0.8205
15447	C8H18O	3-methyl-3-heptanol	5582-82-1	0.26497	0.24928	589.67	0.28571	190.15	589.67	1,2	298.15	0.8251
15448	C8H18O	4-methyl-3-heptanol	14979-39-6	0.26551	0.26000	578.89	0.28571	150.15	578.89	1,2	298.15	0.7940
15449	C8H18O	5-methyl-3-heptanol	18720-65-5	0.26551	0.25161	576.46	0.28571	181.95	576.46	1,2	298.15	0.8143
15450	C8H18O	6-methyl-3-heptanol	18720-66-6	0.26551	0.25206	584.90	0.28571	210.24	584.90	2	298.15	0.8171
15451	C8H18O	2-methyl-4-heptanol	21570-35-4	0.26551	0.25632	593.34	0.28571	192.15	593.34	1,2	298.15	0.8098
15452	C8H18O	3-methyl-4-heptanol	1838-73-9	0.26551	0.24735	591.45	0.28571	210.24	591.45	1,2	298.15	0.8329
15453	C8H18O	4-methyl-4-heptanol	598-01-6	0.26497	0.25143	589.80	0.28571	191.15	589.80	1,2	298.15	0.8194
15454	C8H18O	2-ethyl-1-hexanol	104-76-7	0.26850	0.26111	640.25	0.27730	203.15	640.25	1,2	298.15	0.8300
15455	C8H18O	3-ethyl-1-hexanol	41065-95-6	0.26230	0.24717	608.64	0.28571	225.24	608.64	1,2	298.15	0.8310
15456	C8H18O	4-ethyl-1-hexanol	---	0.26230	0.25225	608.64	0.28571	225.24	608.64	2	298.15	0.8172
15457	C8H18O	2,2-dimethyl-1-hexanol	2370-13-0	0.26497	0.25302	605.29	0.28571	221.15	605.29	1,2	298.15	0.8220
15458	C8H18O	2,3-dimethyl-1-hexanol	---	0.26551	0.25523	603.81	0.28571	210.24	603.81	2	298.15	0.8172
15459	C8H18O	2,4-dimethyl-1-hexanol	3965-59-1	0.26551	0.25548	605.36	0.28571	210.24	605.36	2	298.15	0.8172
15460	C8H18O	2,5-dimethyl-1-hexanol	6886-16-4	0.26551	0.25339	610.77	0.28571	210.24	610.77	1,2	298.15	0.8250
15461	C8H18O	3,3-dimethyl-1-hexanol	10524-70-6	0.26497	0.24999	616.63	0.28571	242.66	616.63	1,2	298.15	0.8350
15462	C8H18O	3,4-dimethyl-1-hexanol	---	0.26551	0.25671	613.27	0.28571	210.24	613.27	2	298.15	0.8172
15463	C8H18O	3,5-dimethyl-1-hexanol	13501-73-0	0.26551	0.25459	616.17	0.28571	210.24	616.17	1,2	298.15	0.8240
15464	C8H18O	4,4-dimethyl-1-hexanol	6481-95-4	0.26497	0.25679	617.99	0.28571	242.66	617.99	2	298.15	0.8172
15465	C8H18O	4,5-dimethyl-1-hexanol	---	0.26551	0.25691	614.62	0.28571	210.24	614.62	2	298.15	0.8172
15466	C8H18O	5,5-dimethyl-1-hexanol	2768-18-5	0.26497	0.25679	617.99	0.28571	242.66	617.99	2	298.15	0.8172
15467	C8H18O	3-ethyl-2-hexanol	24448-19-9	0.26551	0.25394	595.91	0.28571	210.24	595.91	2	298.15	0.8171
15468	C8H18O	4-ethyl-2-hexanol	---	0.26551	0.25391	595.71	0.28571	210.24	595.71	2	298.15	0.8171
15469	C8H18O	2,3-dimethyl-2-hexanol	19550-03-9	0.26824	0.25086	591.82	0.28571	227.66	591.82	1,2	298.15	0.8320
15470	C8H18O	2,4-dimethyl-2-hexanol	42328-76-7	0.26824	0.25850	578.98	0.28571	227.66	578.98	1,2	298.15	0.8060
15471	C8H18O	2,5-dimethyl-2-hexanol	3730-60-7	0.26824	0.25660	581.44	0.28571	227.66	581.44	1,2	298.15	0.8120
15472	C8H18O	3,3-dimethyl-2-hexanol	22025-20-3	0.26824	0.24717	591.48	0.28571	227.66	591.48	1,2	298.15	0.8420
15473	C8H18O	3,4-dimethyl-2-hexanol	19550-05-1	0.26879	0.25366	603.29	0.28571	195.24	603.29	1,2	298.15	0.8313
15474	C8H18O	3,5-dimethyl-2-hexanol	66576-27-0	0.26879	0.25649	588.35	0.28571	195.24	588.35	2	298.15	0.8171
15475	C8H18O	4,4-dimethyl-2-hexanol	---	0.26824	0.25684	594.21	0.28571	227.66	594.21	2	298.15	0.8172
15476	C8H18O	4,5-dimethyl-2-hexanol	---	0.26879	0.25692	590.87	0.28571	195.24	590.87	2	298.15	0.8171
15477	C8H18O	5,5-dimethyl-2-hexanol	31841-77-7	0.26824	0.25778	599.88	0.28571	227.66	599.88	2	298.15	0.8172
15478	C8H18O	3-ethyl-3-hexanol	597-76-2	0.26497	0.24582	586.95	0.28571	242.66	586.95	1,2	298.15	0.8333
15479	C8H18O	4-ethyl-3-hexanol	19780-44-0	0.26551	0.25303	590.50	0.28571	210.24	590.50	2	298.15	0.8171
15480	C8H18O	2,2-dimethyl-3-hexanol	4209-90-9	0.26824	0.25066	586.35	0.28571	227.66	586.35	1,2	298.15	0.8300
15481	C8H18O	2,3-dimethyl-3-hexanol	4166-46-5	0.26824	0.25005	589.22	0.28571	227.66	589.22	1,2	298.15	0.8330
15482	C8H18O	2,4-dimethyl-3-hexanol	13432-25-2	0.26879	0.25649	588.35	0.28571	195.24	588.35	2	298.15	0.8171
15483	C8H18O	2,5-dimethyl-3-hexanol	19550-07-3	0.26879	0.25723	587.00	0.28571	195.24	587.00	1,2	298.15	0.8146
15484	C8H18O	3,4-dimethyl-3-hexanol	19550-08-4	0.26824	0.24819	580.75	0.28571	227.66	580.75	1,2	298.15	0.8340
15485	C8H18O	3,5-dimethyl-3-hexanol	4209-91-0	0.26824	0.25227	580.75	0.28571	227.66	580.75	1,2	298.15	0.8230
15486	C8H18O	4,4-dimethyl-3-hexanol	19550-09-5	0.26824	0.25134	590.31	0.28571	227.66	590.31	1,2	298.15	0.8300
15487	C8H18O	4,5-dimethyl-3-hexanol	---	0.26879	0.25550	582.72	0.28571	195.24	582.72	2	298.15	0.8171
15488	C8H18O	5,5-dimethyl-3-hexanol	66576-31-6	0.26824	0.25475	582.12	0.28571	227.66	582.12	2	298.15	0.8171
15489	C8H18O	2-propyl-1-pentanol	58175-57-8	0.26230	0.25207	607.50	0.28571	225.24	607.50	2	298.15	0.8172
15490	C8H18O	2-isopropyl-1-pentanol	---	0.26551	0.26055	639.93	0.28571	210.24	639.93	2	298.15	0.8173
15491	C8H18O	2-methyl-2-ethyl-1-pentanol	5970-63-8	0.26497	0.25581	611.53	0.28571	242.66	611.53	2	298.15	0.8172
15492	C8H18O	3-methyl-2-ethyl-1-pentanol	---	0.26551	0.25587	607.86	0.28571	210.24	607.86	2	298.15	0.8172
15493	C8H18O	4-methyl-2-ethyl-1-pentanol	106-67-2	0.26551	0.25249	607.39	0.28571	210.24	607.39	1,2	298.15	0.8260
15494	C8H18O	2-methyl-3-ethyl-1-pentanol	---	0.26551	0.25544	605.16	0.28571	210.24	605.16	2	298.15	0.8172

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)			
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
15495	C8H18O	3-methyl-3-ethyl-1-pentanol	---	0.26497	0.25534	608.48	0.28571	242.66	608.48	2	298.15	0.8172
15496	C8H18O	4-methyl-3-ethyl-1-pentanol	---	0.26551	0.25544	605.16	0.28571	210.24	605.16	2	298.15	0.8172
15497	C8H18O	2,2,3-trimethyl-1-pentanol	57409-53-7	0.26824	0.25963	611.49	0.28571	227.66	611.49	2	298.15	0.8172
15498	C8H18O	2,2,4-trimethyl-1-pentanol	123-44-4	0.26824	0.25198	603.02	0.28571	203.15	603.02	1,2	298.15	0.8340
15499	C8H18O	2,3,3-trimethyl-1-pentanol	57409-53-7	0.26824	0.25992	613.33	0.28571	227.66	613.33	2	298.15	0.8172
15500	C8H18O	2,3,4-trimethyl-1-pentanol	6570-88-3	0.26879	0.25082	619.59	0.28571	195.24	619.59	1,2	298.15	0.8460
15501	C8H18O	2,4,4-trimethyl-1-pentanol	16325-63-6	0.26824	0.25441	606.71	0.28571	227.66	606.71	1,2	298.15	0.8290
15502	C8H18O	3,3,4-trimethyl-1-pentanol	---	0.26824	0.25885	606.50	0.28571	227.66	606.50	2	298.15	0.8172
15503	C8H18O	3,4,4-trimethyl-1-pentanol	16325-64-7	0.26824	0.25885	606.50	0.28571	227.66	606.50	2	298.15	0.8172
15504	C8H18O	2-methyl-3-ethyl-2-pentanol	19780-63-3	0.26824	0.24922	588.68	0.28571	227.66	588.68	1,2	298.15	0.8350
15505	C8H18O	3-methyl-3-ethyl-2-pentanol	66576-22-5	0.26824	0.24293	591.48	0.28571	227.66	591.48	1,2	298.15	0.8540
15506	C8H18O	4-methyl-3-ethyl-2-pentanol	66576-23-6	0.26879	0.25742	593.79	0.28571	195.24	593.79	2	298.15	0.8172
15507	C8H18O	2,3,3-trimethyl-2-pentanol	23171-85-9	0.27103	0.26171	598.76	0.28571	272.65	598.76	1,2	298.15	0.8150
15508	C8H18O	2,3,4-trimethyl-2-pentanol	66576-26-9	0.27160	0.26568	592.43	0.28571	212.66	592.43	1,2	298.15	0.8040
15509	C8H18O	2,4,4-trimethyl-2-pentanol	690-37-9	0.27103	0.25689	579.96	0.28571	253.15	579.96	1,2	298.15	0.8190
15510	C8H18O	3,3,4-trimethyl-2-pentanol	19411-41-7	0.27160	0.24910	602.05	0.28571	212.66	602.05	1,2	298.15	0.8520
15511	C8H18O	3,4,4-trimethyl-2-pentanol	10575-56-1	0.27160	0.26047	592.43	0.28571	300.15	592.43	2	431.15	0.6867
15512	C8H18O	2-methyl-3-ethyl-3-pentanol	597-05-7	0.26824	0.25306	591.68	0.28571	227.66	591.68	1,2	298.15	0.8260
15513	C8H18O	2,2,3-trimethyl-3-pentanol	7294-05-5	0.27103	0.24966	587.70	0.28571	267.15	587.70	1,2	298.15	0.8420
15514	C8H18O	2,2,4-trimethyl-3-pentanol	5162-48-1	0.27160	0.25463	582.81	0.28571	261.85	582.81	1,2	298.15	0.8280
15515	C8H18O	2,3,4-trimethyl-3-pentanol	3054-92-0	0.27160	0.24979	591.06	0.28571	212.66	591.06	1,2	298.15	0.8450
15516	C8H18O	3-methyl-2-isopropyl-1-butanol	18593-92-5	0.26879	0.25017	606.01	0.28571	195.24	606.01	1,2	298.15	0.8420
15517	C8H18O	2,2-diethyl-1-butanol	13023-60-4	0.26497	0.25491	605.76	0.28571	242.66	605.76	2	298.15	0.8172
15518	C8H18O	2,3-dimethyl-2-ethyl-1-butanol	---	0.26824	0.25928	609.23	0.28571	227.66	609.23	2	298.15	0.8172
15519	C8H18O	3,3-dimethyl-2-ethyl-1-butanol	66576-56-5	0.26824	0.24969	609.23	0.28571	227.66	609.23	1,2	298.15	0.8430
15520	C8H18O	2,2,3,3-tetramethyl-1-butanol	66576-24-7	0.27103	0.26368	616.52	0.28571	423.15	616.52	2	446.00	0.6824
15521	C8H18O	3,5-dimethyl-3-hexanol, (±)	19113-78-1	0.26688	0.25051	600.92	0.28571	216.48	600.92	1,2	298.15	0.8328
15522	C8H18O	2-methyl-1-heptanol, (±)	111675-77-5	0.26688	0.26384	600.92	0.28571	161.15	600.92	1,2	298.15	0.7981
15523	C8H18O	5-methyl-1-heptanol, (±)	111767-95-4	0.26688	0.25708	600.92	0.28571	169.15	600.92	1,2	298.15	0.8153
15524	C8H18O	2-methyl-3-heptanol, (±)	100296-26-2	0.26688	0.25560	600.92	0.28571	188.15	600.92	1,2	298.15	0.8192
15525	C8H18O	6-methyl-3-heptanol, (±)	100295-85-0	0.26688	0.25617	600.92	0.28571	212.15	600.92	1,2	298.15	0.8177
15526	C8H18O	3-methyl-4-heptanol, (R*,S*)-(±)	92737-91-2	0.26688	0.25027	600.92	0.28571	216.48	600.92	1,2	298.15	0.8335
15527	C8H18O	dibutyl ether	142-96-1	0.26740	0.27540	581.00	0.28570	177.95	581.00	1,2	298.15	0.7640
15528	C8H18O	di-sec-butyl ether	6863-58-7	0.26360	0.26851	559.00	0.28571	173.15	559.00	1,2	298.15	0.7590
15529	C8H18O	di-tert-butyl ether	6163-66-2	0.26740	0.27097	550.00	0.28571	195.00	550.00	1,2	298.15	0.7600
15530	C8H18O	butyl isobutyl ether	17071-47-5	0.26613	0.27458	563.33	0.28571	182.03	563.33	1,2	298.15	0.7546
15531	C8H18O	tert-butyl isobutyl ether	33021-02-2	0.26613	0.24879	563.33	0.28571	182.03	563.33	2	298.15	0.8171
15532	C8H18O	di-sec-butyl ether, (±)	17226-28-7	0.26613	0.27395	563.33	0.28571	182.03	563.33	1,2	298.15	0.7560
15533	C8H18O	ethyl hexyl ether	5756-43-4	0.26613	0.26872	563.33	0.28571	182.03	563.33	1,2	298.15	0.7678
15534	C8H18O	1-methoxyheptane	629-32-3	0.26613	0.26467	563.33	0.28571	182.03	563.33	1,2	298.15	0.7773
15535	C8H18O	isooctanol	26952-21-6	0.26688	0.25082	600.92	0.28571	156.05	600.92	1,2	298.15	0.8320
15536	C8H18O	(R)-(-)-2-octanol	5978-70-1	0.26688	0.24864	600.92	0.28571	216.48	600.92	1,2	298.15	0.8380
15537	C8H18O	(S)-(+)-2-octanol	6169-06-8	0.26688	0.25454	600.92	0.28571	216.48	600.92	1,2	298.15	0.8220
15538	C8H18O	octyl alcohol; mixed isomers	29063-28-3	0.26688	0.25637	600.92	0.28571	257.25	600.92	2	298.15	0.8172
15539	C8H18O	isobutyl ether	628-55-7	0.26613	0.24879	563.33	0.28571	182.03	563.33	2	298.15	0.8171
15544	C8H18O2	1,2-octanediol	1117-86-8	0.28367	0.25734	672.79	0.28571	303.15	672.79	2	525.15	0.6839
15545	C8H18O2	1,3-octanediol	23433-05-8	0.28367	0.25896	686.88	0.28571	286.06	686.88	2	298.15	0.8943
15546	C8H18O2	1,4-octanediol	51916-47-3	0.28367	0.26180	713.79	0.28571	286.06	713.79	2	298.15	0.8944
15547	C8H18O2	1,8-octanediol	629-41-4	0.28040	0.25631	694.71	0.28571	333.15	694.71	2	544.15	0.6757
15548	C8H18O2	2,4-octanediol	90162-24-6	0.28285	0.25083	692.04	0.28571	310.71	692.04	1,2	478.13	0.7603
15549	C8H18O2	4,5-octanediol, (±)	22520-40-7	0.28285	0.25865	692.04	0.28571	303.15	692.04	2	478.13	0.7438
15550	C8H18O2	3-methyl-2,4-heptanediol	6964-04-1	0.28285	0.24891	692.04	0.28571	310.71	692.04	1,2	478.13	0.7645
15551	C8H18O2	2-ethyl-1,3-hexanediol	94-96-2	0.28285	0.24701	692.04	0.28571	233.15	692.04	1,2	298.15	0.9301
15552	C8H18O2	2,5-dimethyl-2,5-hexanediol	110-03-2	0.28285	0.25867	692.04	0.28571	361.65	692.04	1,2	487.15	0.7350
15553	C8H18O2	2,2,4-trimethyl-1,4-pentanediol	80864-10-4	0.28285	0.25865	692.04	0.28571	359.15	692.04	2	483.15	0.7390
15554	C8H18O2	2,2,4-trimethyl-1,3-pentanediol	144-19-4	0.28285	0.24765	692.04	0.28571	324.65	692.04	1,2	508.15	0.7356
15555	C8H18O2	2-butyl-2-methyl-1,3-propanediol	3121-83-3	0.28285	0.24152	692.04	0.28571	316.95	692.04	1,2	535.15	0.7167
15556	C8H18O2	di-t-butyl peroxide	110-05-4	0.28790	0.28248	547.00	0.28570	233.15	547.00	1,2	298.15	0.7900
15558	C8H18O2	ethylene glycol monohexyl ether	112-25-4	0.27808	0.25033	636.00	0.28571	228.05	636.00	1,2	298.15	0.8835
15561	C8H18O2	(3R,6R)-3,6-octanediol	129619-37-0	0.28285	0.25865	692.04	0.28571	310.71	692.04	2	478.13	0.7438
15562	C8H18O2	(3S,6S)-3,6-octanediol	136705-66-3	0.28285	0.25865	692.04	0.28571	310.71	692.04	2	478.13	0.7438
15567	C8H18O2	2-(2-ethylbutoxy)ethanol	4468-93-3	0.27808	0.24671	636.00	0.28571	228.05	636.00	2	298.15	0.8943
15568	C8H18O2	ethylene glycol mono-2-methylpentyl ether	10137-96-9	0.27808	0.24671	636.00	0.28571	228.05	636.00	2	298.15	0.8943
15570	C8H18O2S	diisobutyl sulfone	10495-45-1	0.31330	0.26274	767.00	0.28571	290.15	767.00	1,2	298.15	1.0007
15571	C8H18O2S	dibutyl sulfone	598-04-9	0.31330	0.25794	767.00	0.30522	318.00	767.00	1,2	564.00	0.7730
15572	C8H18O2S	di-tert-butylsulfone	1886-75-5	0.31330	0.26221	767.00	0.28571	403.05	767.00	2	521.05	0.8242
15578	C8H18O3	diethylene glycol diethyl ether	112-36-7	0.29070	0.25514	624.00	0.28570	228.85	624.00	1,2	298.15	0.9040
15579	C8H18O3	diethylene glycol monobutyl ether	112-34-5	0.30840	0.26152	654.00	0.28570	205.15	654.00	1,2	298.15	0.9520
15587.1	C8H18O3	dipropylene glycol monoethyl ether	30025-38-8	0.31198	0.26951	617.00	0.28571	204.00	617.00	2	298.15	0.9240
15591	C8H18O4	triethylene glycol dimethyl ether	112-49-2	0.32520	0.24604	651.00	0.39180	229.35	651.00	1,2	298.15	0.9800
15598	C8H18O5	tetraethylene glycol	112-60-7	0.34440	0.25279	722.00	0.28570	268.15	722.00	1,2	298.15	1.1220
15602	C8H18S	octyl mercaptan	111-88-6	0.28240	0.27162	664.00	0.29980	223.95	664.00	1,2	298.15	0.8400
15603	C8H18S	2-octanethiol	3001-66-9	0.27760	0.27047	653.00	0.28571	194.15	653.00	1,2	298.15	0.8327
15604	C8H18S	tert-octyl mercaptan	141-59-3	0.27660	0.26259	627.00	0.28571	199.00	627.00	1,2	298.15	0.8410
15605	C8H18S	2-octanethiol, (±)	10435-81-1	0.27887	0.27121	648.00	0.28571	194.15	648.00	1,2	298.15	0.8329
15606	C8H18S	dibutyl sulfide	544-40-1	0.27220	0.26110	650.00	0.28571	193.45	650.00	1,2	298.15	0.8400
15607	C8H18S	methyl heptyl sulfide	20291-61-6	0.27220	0.26247	660.72	0.28571	209.86	660.72	1,2	298.15	0.8400
15608	C8H18S	ethyl hexyl sulfide	7309-44-6	0.27220	0.26247	660.72	0.28571	209.86	660.72	1,2	298.15	0.8400
15609	C8H18S	propyl pentyl sulfide	42841-80-5	0.27220	0.26247	660.72	0.28571	209.86	660.72	1,2	298.15	0.8400
15610	C8H18S	di-sec-butyl sulfide	626-26-6	0.27220	0.26546	658.04	0.28571	209.14	658.04	1,2	298.15	0.8311

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
15611	C8H18S	di-tert-butyl sulfide	107-47-1	0.27220	0.27171	658.04	0.28571	264.15	658.04	1,2	298.15	0.8150
15612	C8H18S	diisobutyl sulfide	592-65-4	0.27220	0.26762	658.04	0.28571	167.65	658.04	1,2	298.15	0.8255
15614	C8H18S2	dibutyl disulfide	629-45-8	0.30150	0.26624	704.16	0.28571	202.16	704.16	1,2	298.15	0.9340
15615	C8H18S2	di-tert-butyl disulfide	110-06-5	0.30150	0.27133	704.16	0.28571	270.65	704.16	1,2	298.15	0.9190
15617	C8H18S2	disulfide, bis(2-methylpropyl)	1518-72-5	0.30150	0.26337	704.16	0.28571	236.41	704.16	2	298.15	0.9427
15618	C8H18S2	disulfide, bis(1-methylpropyl)	5943-30-6	0.30150	0.25877	704.16	0.28571	236.41	704.16	1,2	298.15	0.9570
15631	C8H19N	octylamine	111-86-4	0.24670	0.25091	627.00	0.28571	272.75	627.00	1,2	298.15	0.7790
15632	C8H19N	2-ethylhexylamine	104-75-6	0.24974	0.25604	601.45	0.28571	283.05	601.45	2	298.15	0.7657
15633	C8H19N	6-methyl-2-heptanamine, (±)	5984-58-7	0.24974	0.25552	601.45	0.28571	283.05	601.45	1,2	298.15	0.7670
15634	C8H19N	2-octanamine, (±)	44855-57-4	0.24974	0.25417	601.45	0.28571	370.15	601.45	1,2	437.15	0.6428
15635	C8H19N	methylheptylamine	36343-05-2	0.25342	0.26235	609.80	0.28571	232.08	609.80	1,2	298.15	0.7648
15636	C8H19N	ethylhexylamine	20352-67-4	0.25342	0.26338	599.80	0.28571	232.08	599.80	1,2	298.15	0.7585
15637	C8H19N	dibutylamine	111-92-2	0.24670	0.25747	607.50	0.28270	211.15	607.50	1,2	298.15	0.7570
15638	C8H19N	diisobutylamine	110-96-3	0.24670	0.26142	580.00	0.27200	203.15	580.00	1,2	298.15	0.7430
15639	C8H19N	di-sec-butylamine	626-23-3	0.24974	0.26277	601.45	0.28571	235.32	601.45	1,2	298.15	0.7495
15640	C8H19N	N-methyl-2-heptanamine	540-43-2	0.24974	0.25604	601.45	0.28571	235.32	601.45	2	298.15	0.7657
15641	C8H19N	dimethylhexylamine	4385-04-0	0.25342	0.27109	608.70	0.28571	211.89	608.70	1,2	298.15	0.7440
15642	C8H19N	diethylbutylamine	4444-68-2	0.24783	0.25637	577.33	0.28571	211.89	577.33	1,2	298.15	0.7490
15643	C8H19N	N-ethyl-N-isopropyl-2-propanamine	7087-68-5	0.24974	0.26602	601.45	0.28571	211.89	601.45	1,2	298.15	0.7420
15644	C8H19N	N-ethyl-N-propyl-1-propanamine	20634-92-8	0.24974	0.24052	601.45	0.28571	211.89	601.45	1,2	298.15	0.8061
15645	C8H19N	2-amino-6-methylheptane	543-82-8	0.24974	0.25552	601.45	0.28571	298.15	601.45	1,2	428.15	0.6498
15646	C8H19N	(S)-2-amino-6-methylheptane	70419-10-2	0.24974	0.25552	601.45	0.28571	235.32	601.45	1,2	298.15	0.7670
15647	C8H19N	(R)-2-amino-6-methylheptane	70419-11-3	0.24974	0.25552	601.45	0.28571	235.32	601.45	1,2	298.15	0.7670
15648	C8H19N	(S)-2-aminooctane	34566-04-6	0.24974	0.25431	601.45	0.28571	283.05	601.45	1,2	298.15	0.7700
15649	C8H19N	(R)-2-aminooctane	34566-05-7	0.24974	0.25431	601.45	0.28571	283.05	601.45	1,2	298.15	0.7700
15650	C8H19N	2-aminooctane	693-16-3	0.24974	0.25390	601.45	0.28571	283.05	601.45	1,2	298.15	0.7710
15651	C8H19N	N-isopropyl-N-methyl-tert-butylamine	85523-00-8	0.24974	0.25552	601.45	0.28571	211.89	601.45	1,2	298.15	0.7670
15652	C8H19N	tert-octylamine	107-45-9	0.24974	0.24092	601.45	0.28571	206.25	601.45	1,2	298.15	0.8050
15653	C8H19NO	N,N-diisopropylethanolamine	96-80-0	0.28371	0.28997	741.00	0.28571	330.00	741.00	1,2	463.15	0.7229
15654	C8H19NO	2-(dipropylamino)ethanol	3238-75-3	0.28371	0.27877	741.00	0.28571	330.00	741.00	1,2	469.15	0.7403
15655	C8H19NO	6-amino-2-methyl-2-heptanol	372-66-7	0.28371	0.26424	741.00	0.28571	330.00	741.00	1,2	466.15	0.7731
15694	C8H20N2	2,5-dimethyl-2,5-hexanediamine	23578-35-0	0.27465	0.27060	715.00	0.28571	325.15	715.00	1,2	457.15	0.7294
15695	C8H20N2	1,8-octanediamine	373-44-4	0.27465	0.28436	715.00	0.28571	325.15	715.00	2	498.15	0.6717
15696	C8H20N2	N,N,N',N'-tetramethyl-1,4-butanediamine	111-51-3	0.27465	0.29215	715.00	0.28571	325.15	715.00	1,2	441.15	0.6998
15697	C8H20N2	N,N'-diisopropylethylenediamine	4013-94-9	0.27465	0.28811	715.00	0.28571	325.15	715.00	1,2	443.15	0.7059
15698	C8H20N2	N,N'-dimethyl-1,6-hexanediamine	13093-04-4	0.27465	0.28437	715.00	0.28571	325.15	715.00	1,2	430.41	0.7220
15699	C8H20N2	N-hexylethylenediamine	7261-70-3	0.27465	0.27442	715.00	0.28571	325.15	715.00	1,2	430.41	0.7420
15700	C8H20N2	N,N,N',N'-tetramethyl-1,3-butanediamine	97-84-7	0.27465	0.29281	715.00	0.28571	325.15	715.00	1,2	437.70	0.7010
15701	C8H20N2	N,N,N'-triethylethylenediamine	105-04-4	0.27465	0.28560	715.00	0.28571	325.15	715.00	1,2	327.65	0.7863
15703	C8H20N2	N,N-diisopropyl ethylenediamine	121-05-1	0.27465	0.28436	715.00	0.28571	325.15	715.00	2	394.15	0.7467
15704	C8H20N2	N'-isopropyl-N,N'-dimethyl-1,3-propane-diamine	63905-13-5	0.27465	0.28436	715.00	0.28571	325.15	715.00	2	430.41	0.7220
15747	C8H23N5	tetraethylenepentamine	112-57-2	0.29760	0.25012	774.00	0.28571	243.00	774.00	1,2	298.15	0.9940
15756	C8H24O4Si4	octamethylcyclotetrasiloxane	556-67-2	0.30580	0.25195	586.50	0.27690	290.80	586.50	1,2	298.15	0.9490
15803	C9H4O5	trimellitic anhydride	552-30-7	0.41590	0.23873	890.00	0.28571	438.15	890.00	2	663.00	1.0966
15903	C9H6N2O2	toluene diisocyanate	584-84-9	0.33170	0.24580	737.00	0.14390	287.04	737.00	1,2	298.15	1.2200
16010	C9H7N	isoquinoline	119-65-3	0.32050	0.24707	803.15	0.27890	299.45	803.15	1,2	516.40	0.9150
16011	C9H7N	quinoline	91-22-5	0.27540	0.21420	782.15	0.23616	258.25	782.15	1,2	298.15	1.0900
16018	C9H7NO	8-hydroxyquinoline	148-24-3	0.35060	0.29003	788.00	0.29000	346.00	788.00	1,2	540.00	0.8497
16090	C9H8	indene	95-13-6	0.31570	0.25455	687.00	0.31000	271.70	687.00	1,2	298.15	0.9940
16185	C9H8O	2-methylbenzofuran	4265-25-2	0.32630	0.25373	698.00	0.28570	290.00	698.00	1,2	298.15	1.0510
16246.1	C9H8S	2-methyl benzothiophene	1195-14-8	0.33842	0.26175	780.00	0.28571	324.65	780.00	2	298.15	1.0882
16508	C9H10	indane	496-11-7	0.31020	0.26114	684.90	0.30223	221.74	684.90	1,2	298.15	0.9600
16509	C9H10	cis-1-propenylbenzene	766-90-5	0.28720	0.25685	664.60	0.28571	211.47	664.60	1,2	298.15	0.9040
16510	C9H10	trans-1-propenylbenzene	873-66-5	0.28720	0.25753	664.60	0.28571	243.82	664.60	1,2	298.15	0.9020
16511	C9H10	2-propenylbenzene	300-57-2	0.28649	0.25859	640.92	0.28571	233.15	640.92	1,2	298.15	0.8878
16512	C9H10	alpha-methylstyrene	98-83-9	0.27940	0.24499	654.00	0.29512	249.95	654.00	1,2	298.15	0.9050
16513	C9H10	m-methylstyrene	100-80-1	0.29040	0.25688	657.00	0.29075	186.81	657.00	1,2	298.15	0.9080
16514	C9H10	o-methylstyrene	611-15-4	0.29040	0.25665	659.00	0.29306	204.58	659.00	1,2	298.15	0.9080
16515	C9H10	p-methylstyrene	622-97-9	0.27420	0.22711	665.00	0.34660	239.02	665.00	1,2	298.15	0.9160
16516	C9H10	1-propenylbenzene	637-50-3	0.28696	0.25633	656.71	0.28571	246.05	656.71	1,2	298.15	0.9019
16519	C9H10	methylstyrene	25013-15-4	0.28360	0.25534	658.75	0.28571	196.25	658.75	1,2	298.15	0.8950
16520	C9H10	3(4)-methylstyrene, isomers	39294-88-7	0.28360	0.25500	658.75	0.28571	215.32	658.75	1,2	298.15	0.8960
16539	C9H10Cl2	2,4-dichloro-1,3,5-trimethylbenzene	57386-83-1	0.37430	0.27036	760.00	0.28571	332.15	760.00	2	516.65	0.9627
16676	C9H10O2	ethyl benzoate	93-89-0	0.30710	0.23886	698.00	0.28487	238.45	698.00	1,2	298.15	1.0420
16680	C9H10O2	benzyl acetate	140-11-4	0.33450	0.25377	699.00	0.33360	221.65	699.00	1,2	298.15	1.0450
16707.1	C9H10O2	phenyl ethyl formate	7775-38-4	0.33447	0.26132	690.00	0.28571	238.00	690.00	2	298.15	1.0476
16711	C9H10O3	ethyl vanillin	121-32-4	0.35580	0.25614	748.00	0.28571	350.65	748.00	2	567.00	0.8822
16905	C9H11NO	p-dimethylaminobenzaldehyde	100-10-7	0.31680	0.24852	832.00	0.28570	348.00	832.00	1,2	588.00	0.8447
17004	C9H12	cumene	98-82-8	0.28100	0.26016	631.15	0.29000	177.14	631.15	1,2	298.15	0.8600
17005	C9H12	m-ethyltoluene	620-14-4	0.24530	0.22816	637.15	0.25957	177.61	637.15	1,2	298.15	0.8600
17006	C9H12	o-ethyltoluene	611-14-3	0.26130	0.23951	651.15	0.27075	192.35	651.15	1,2	298.15	0.8770
17007	C9H12	p-ethyltoluene	622-96-8	0.25570	0.23829	640.15	0.27196	210.83	640.15	1,2	298.15	0.8570
17008	C9H12	1,2,3-trimethylbenzene	526-73-8	0.29030	0.26987	664.53	0.26080	247.79	664.53	1,2	298.15	0.8910
17009	C9H12	1,2,4-trimethylbenzene	95-63-6	0.27950	0.25943	649.13	0.27724	229.38	649.13	1,2	298.15	0.8720
17010	C9H12	trimethyl benzene	25551-13-7	0.27049	0.25162	643.63	0.28571	204.65	643.63	2	298.15	0.8586
17011	C9H12	mesitylene	108-67-8	0.27760	0.25914	637.36	0.27982	228.46	637.36	1,2	298.15	0.8610
17012	C9H12	propylbenzene	103-65-1	0.27320	0.25222	638.38	0.29130	173.67	638.38	1,2	298.15	0.8600
17077	C9H12O	benzyl ethyl ether	539-30-0	0.30810	0.26929	662.00	0.26320	275.65	662.00	1,2	298.15	0.9450
17090	C9H12O	2-phenyl-2-propanol	617-94-7	0.30950	0.26312	660.00	0.26019	309.15	660.00	1,2	475.15	0.8073
17101	C9H12O	2-propylphenol	644-35-9	0.37262	0.31079	716.37	0.28571	280.15	716.37	1,2	298.15	1.0150

Table 3 Density of Liquid - Organic Compounds

			density = A B ^ (1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
17102	C9H12O	3-propylphenol	621-27-2	0.37262	0.32371	730.33	0.28571	299.15	730.33	1,2	502.15	0.8367
17103	C9H12O	4-propylphenol	645-56-7	0.37262	0.31616	736.87	0.28571	295.15	736.87	1,2	298.15	1.0058
17104	C9H12O	2-isopropylphenol	88-69-7	0.37884	0.32488	714.75	0.28571	288.65	714.75	1,2	298.15	0.9930
17105	C9H12O	3-isopropylphenol	618-45-1	0.37884	0.33231	734.54	0.28571	299.15	734.54	2	501.15	0.8380
17106	C9H12O	4-isopropylphenol	99-89-8	0.37884	0.32938	736.30	0.28571	335.15	736.30	1,2	502.35	0.8434
17107	C9H12O	2-methyl-3-ethylphenol	1123-73-5	0.37262	0.32521	726.44	0.28571	344.15	726.44	2	500.15	0.8334
17108	C9H12O	2-methyl-4-ethylphenol	2219-73-0	0.37262	0.32530	727.31	0.28571	315.11	727.31	2	500.75	0.8332
17109	C9H12O	2-methyl-5-ethylphenol	1687-65-6	0.37262	0.32531	727.45	0.28571	288.15	727.45	2	298.15	0.9789
17110	C9H12O	2-methyl-6-ethylphenol	1687-64-5	0.37262	0.32329	707.55	0.28571	315.11	707.55	2	487.15	0.8369
17111	C9H12O	3-methyl-4-ethylphenol	1123-94-0	0.37262	0.32564	730.79	0.28571	299.15	730.79	2	503.15	0.8326
17112	C9H12O	3-methyl-5-ethylphenol	698-71-5	0.37262	0.32647	739.51	0.28571	328.15	739.51	2	509.15	0.8311
17113	C9H12O	3-methyl-6-ethylphenol	1687-61-2	0.37262	0.32481	722.37	0.28571	315.85	722.37	2	497.35	0.8341
17114	C9H12O	4-methyl-2-ethylphenol	3855-26-3	0.37262	0.32455	719.75	0.28571	298.85	719.75	2	495.55	0.8346
17115	C9H12O	4-methyl-3-ethylphenol	6161-67-7	0.37262	0.32647	739.51	0.28571	306.15	739.51	2	509.15	0.8311
17116	C9H12O	2,3,4-trimethylphenol	526-85-2	0.37262	0.32651	739.96	0.28571	354.15	739.96	2	510.15	0.8304
17117	C9H12O	2,3,5-trimethylphenol	697-82-5	0.37262	0.32629	737.64	0.28571	368.15	737.64	2	508.55	0.8308
17118	C9H12O	2,3,6-trimethylphenol	2416-94-6	0.37262	0.32649	739.74	0.28571	335.15	739.74	2	510.00	0.8305
17119	C9H12O	2,4,5-trimethylphenol	496-78-6	0.37262	0.32629	737.64	0.28571	345.15	737.64	2	508.55	0.8308
17120	C9H12O	2,4,6-trimethylphenol	527-60-6	0.37262	0.32421	716.46	0.28571	345.15	716.46	2	493.95	0.8347
17121	C9H12O	3,4,5-trimethylphenol	527-54-8	0.37262	0.32844	761.43	0.28571	381.15	761.43	2	524.95	0.8269
17138	C9H12O2	cumene hydroperoxide	80-15-9	0.36320	0.27777	605.00	0.28600	264.26	605.00	1,2	298.15	1.0430
17213	C9H12S	propyl phenyl sulfide	874-79-3	0.31362	0.26047	720.19	0.28571	228.15	720.19	1,2	298.15	0.9952
17214	C9H12S	isopropyl phenyl sulfide	3019-20-3	0.31754	0.26752	708.21	0.28571	124.44	708.21	1,2	298.15	0.9810
17215	C9H12S	3-methyl-(1-thiapropyl)-benzene	34786-24-8	0.31362	0.26038	717.74	0.28571	123.07	717.74	1,2	298.15	0.9947
17216	C9H12S	4-methyl-(1-thiapropyl)-benzene	622-63-9	0.31362	0.26025	719.20	0.28571	123.07	719.20	1,2	298.15	0.9956
17217	C9H12S	2-ethyl-(1-thiaethyl)-benzene	20760-06-9	0.31362	0.25384	730.87	0.28571	123.07	730.87	1,2	298.15	1.0210
17218	C9H12S	3-ethyl-(1-thiaethyl)-benzene	---	0.31362	0.25446	737.59	0.28571	123.07	737.59	1,2	298.15	1.0210
17219	C9H12S	4-ethyl-(1-thiaethyl)-benzene	---	0.31362	0.25446	737.59	0.28571	123.07	737.59	1,2	298.15	1.0210
17220	C9H12S	2,3-dimethyl-(1-thiaethyl)-benzene	---	0.31362	0.25503	743.84	0.28571	106.70	743.84	1,2	298.15	1.0210
17221	C9H12S	2,4-dimethyl-(1-thiaethyl)-benzene	---	0.31362	0.25677	743.84	0.28571	106.70	743.84	1,2	298.15	1.0150
17222	C9H12S	2,5-dimethyl-(1-thiaethyl)-benzene	---	0.31362	0.25677	743.84	0.28571	106.70	743.84	1,2	298.15	1.0150
17223	C9H12S	2,6-dimethyl-(1-thiaethyl)-benzene	---	0.31362	0.25677	743.84	0.28571	106.70	743.84	1,2	298.15	1.0150
17224	C9H12S	3,4-dimethyl-(1-thiaethyl)-benzene	---	0.31362	0.25677	743.84	0.28571	106.70	743.84	1,2	298.15	1.0150
17225	C9H12S	3,5-dimethyl-(1-thiaethyl)-benzene	---	0.31362	0.25677	743.84	0.28571	106.70	743.84	1,2	298.15	1.0150
17226	C9H12S	benzenepropanethiol	24734-68-7	0.32264	0.26652	740.00	0.28571	400.00	740.00	1,2	502.13	0.8394
17227	C9H12S	2-isopropylbenzenethiol	6262-87-9	0.32264	0.26806	740.00	0.28571	400.00	740.00	1,2	493.15	0.8444
17228	C9H12S	[(ethylthio)methyl]benzene	6263-62-3	0.32264	0.26671	740.00	0.28571	400.00	740.00	2	502.13	0.8389
17258	C9H13N	2-butylpyridine	5058-19-5	0.28803	0.25819	673.00	0.28571	370.15	673.00	1,2	465.15	0.7582
17259	C9H13N	2-tert-butylpyridine	5944-41-2	0.28803	0.24908	673.00	0.28571	240.15	673.00	2	298.15	0.9336
17260	C9H13N	3-tert-butylpyridine	38031-78-6	0.28803	0.24908	673.00	0.28571	229.15	673.00	2	298.15	0.9336
17261	C9H13N	4-butylpyridine	5335-75-1	0.28803	0.25616	673.00	0.28571	304.48	673.00	1,2	482.15	0.7449
17262	C9H13N	4-tert-butylpyridine	3978-81-2	0.28803	0.25507	673.00	0.28571	232.15	673.00	1,2	298.15	0.9150
17263	C9H13N	2,4-diethylpyridine	626-21-1	0.28803	0.24901	673.00	0.28571	385.15	673.00	1,2	460.65	0.7829
17264	C9H13N	2-ethyl-3,5-dimethylpyridine	1123-96-2	0.28803	0.24901	673.00	0.28571	304.48	673.00	1,2	471.15	0.7717
17265	C9H13N	3-ethyl-2,6-dimethylpyridine	23580-52-1	0.28803	0.25791	673.00	0.28571	304.48	673.00	1,2	461.15	0.7629
17266	C9H13N	4-ethyl-2,6-dimethylpyridine	36917-36-9	0.28803	0.25710	673.00	0.28571	370.15	673.00	1,2	460.65	0.7651
17267	C9H13N	2,3,4,6-tetramethylpyridine	20820-82-0	0.28803	0.24952	673.00	0.28571	304.48	673.00	1,2	476.15	0.7652
17268	C9H13N	2-ethyl-6-methylaniline	24549-06-2	0.26215	0.21692	705.58	0.28571	240.15	705.58	1,2	298.15	0.9680
17269	C9H13N	N-ethyl-2-methylaniline	94-68-8	0.26215	0.22228	705.58	0.28571	266.28	705.58	1,2	298.15	0.9480
17270	C9H13N	N-ethyl-3-methylaniline	102-27-2	0.26215	0.23073	705.58	0.28571	266.28	705.58	1,2	298.15	0.9183
17271	C9H13N	N-ethyl-4-methylaniline	622-57-1	0.26215	0.22685	705.58	0.28571	266.28	705.58	1,2	298.15	0.9317
17272	C9H13N	N-ethyl-N-methylaniline	613-97-8	0.26215	0.22287	705.58	0.28571	266.28	705.58	1,2	298.15	0.9459
17273	C9H13N	2-isopropylaniline	643-28-7	0.26215	0.21781	705.58	0.28571	266.28	705.58	1,2	298.15	0.9646
17274	C9H13N	4-isopropylaniline	99-88-7	0.26215	0.22208	705.58	0.28571	266.28	705.58	1,2	298.15	0.9487
17275	C9H13N	N-isopropylaniline	768-52-5	0.26215	0.22103	705.58	0.28571	266.28	705.58	1,2	298.15	0.9526
17276	C9H13N	2-methyl-N,N-dimethylaniline	609-72-3	0.26215	0.22890	705.58	0.28571	213.15	705.58	1,2	298.15	0.9245
17277	C9H13N	3-methyl-N,N-dimethylaniline	121-72-2	0.26215	0.22539	705.58	0.28571	266.28	705.58	1,2	298.15	0.9368
17278	C9H13N	4-methyl-N,N-dimethylaniline	99-97-8	0.26215	0.22662	705.58	0.28571	266.28	705.58	1,2	298.15	0.9325
17279	C9H13N	2-propylaniline	1821-39-2	0.26215	0.22014	705.58	0.28571	266.28	705.58	1,2	298.15	0.9559
17280	C9H13N	N-propylaniline	622-80-0	0.26215	0.22447	705.58	0.28571	266.28	705.58	1,2	298.15	0.9401
17281	C9H13N	2,4,5-trimethylaniline	137-17-7	0.26215	0.21984	705.58	0.28571	341.15	705.58	1,2	507.65	0.7518
17282	C9H13N	2,4,6-trimethylaniline	88-05-1	0.26215	0.21816	705.58	0.28571	270.65	705.58	1,2	298.15	0.9633
17283	C9H13N	3-butylpyridine	539-32-2	0.28803	0.25640	673.00	0.28571	304.48	673.00	1,2	479.75	0.7469
17294	C9H13N	4-propylaniline	2696-84-6	0.28803	0.25053	673.00	0.28571	304.48	673.00	1,2	497.15	0.7398
17295	C9H13N	2,6-diethylpyridine	935-28-4	0.28803	0.24908	673.00	0.28571	304.48	673.00	2	479.94	0.7620
17297	C9H13N	2,3,5,6-tetramethylpyridine	3748-84-3	0.28803	0.24908	673.00	0.28571	304.48	673.00	2	470.70	0.7720
17388	C9H14	1-nonen-3-yne	57223-18-4	0.28660	0.29742	595.00	0.28571	310.00	595.00	1,2	418.44	0.6753
17389	C9H14	1-nonen-4-yne	31508-12-0	0.28770	0.29430	595.00	0.28571	310.00	595.00	1,2	418.44	0.6829
17390	C9H14	2-nonen-4-yne	90644-60-3	0.28770	0.29477	595.00	0.28571	310.00	595.00	1,2	418.44	0.6821
17391	C9H14	6,6-dimethyl-1-hepten-4-yne	31508-08-4	0.28770	0.30849	595.00	0.28571	310.00	595.00	1,2	398.15	0.6781
17392	C9H14	3-propyl-3-hexen-1-yne	688-52-8	0.28770	0.29629	595.00	0.28571	310.00	595.00	1,2	409.15	0.6883
17395.1	C9H14	ethylnorbene	15403-89-1	0.27966	0.25693	625.00	0.28571	200.00	625.00	2	298.15	0.8650
17395.2	C9H14	1-methyl-4-vinylcyclohexene	17699-86-4	0.27966	0.26205	626.00	0.28571	200.00	626.00	2	298.15	0.8513
17395.3	C9H14	propenyl cyclohexene	13511-13-2	0.27966	0.26770	636.00	0.28571	199.00	636.00	2	298.15	0.8401
17436	C9H14O	isophorone	78-59-1	0.30310	0.27380	715.00	0.28570	265.05	715.00	1,2	298.15	0.9200
17450	C9H14O	2-allylcyclohexanone	94-66-6	0.28886	0.25396	690.00	0.28571	280.00	690.00	1,2	298.15	0.9270
17457	C9H14O	2-amylfuran	3777-69-3	0.33884	0.30888	650.00	0.28571	310.00	650.00	2	476.20	0.7586
17513	C9H14O6	glyceryl triacetate	102-76-1	0.34910	0.24575	704.00	0.28570	277.25	704.00	1,2	298.15	1.1580
17518.1	C9H14O7	trilatic acid	78024-33-6	0.37775	0.24824	777.00	0.28571	312.15	777.00	1,2	298.15	1.2711
17520	C9H14S	2-isopentylthiophene	26963-33-7	0.30970	0.27120	685.00	0.28571	310.00	685.00	1,2	469.15	0.7914

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
17590	C9H16	1-butylcyclopentene	2423-01-0	0.26629	0.26494	626.53	0.28571	184.75	626.53	1,2	298.15	0.8035
17591	C9H16	4-isopropyl-1-methylcyclopentene	90769-70-3	0.26629	0.26978	626.53	0.28571	184.75	626.53	1,2	298.15	0.7915
17592	C9H16	3-methyl-1-isopropylcyclopentene	51115-02-7	0.26629	0.27090	626.53	0.28571	184.75	626.53	1,2	298.15	0.7888
17593	C9H16	1-nonyne	3452-09-3	0.24770	0.26062	610.81	0.28571	223.16	610.81	1,2	298.15	0.7520
17594	C9H16	2-nonyne	19447-29-1	0.24771	0.25838	630.31	0.28571	296.79	630.31	1,2	298.15	0.7645
17595	C9H16	3-nonyne	20184-89-8	0.24771	0.26103	623.36	0.28571	296.79	623.36	1,2	298.15	0.7556
17596	C9H16	4-nonyne	20184-91-2	0.24771	0.26017	621.49	0.28571	272.25	621.49	1,2	298.15	0.7570
17597	C9H16	7-methyl-3-octyne	37050-06-9	0.24771	0.26051	621.49	0.28571	272.25	621.49	1,2	298.15	0.7562
17598	C9H16	2,6-dimethyl-3-heptyne	19549-97-4	0.24771	0.25055	621.49	0.28571	272.25	621.49	1,2	298.15	0.7810
17599	C9H16	5,5-dimethyl-3-heptyne	23097-98-5	0.24771	0.26006	621.49	0.28571	272.25	621.49	1,2	298.15	0.7573
17605	C9H16	1,8-nonadiene	4900-30-5	0.31003	0.34498	616.00	0.28571	202.32	616.00	1,2	298.15	0.7481
17606	C9H16	2,7-nonadiene	51333-70-1	0.31003	0.34565	616.00	0.28571	200.65	616.00	1,2	298.15	0.7470
17607	C9H16	4-methyl-3,5-octadiene	36903-95-4	0.31003	0.33635	616.00	0.28571	202.32	616.00	1,2	298.15	0.7640
17608	C9H16	7-methyl-2,4-octadiene	2216-70-8	0.31003	0.34508	616.00	0.28571	202.32	616.00	1,2	298.15	0.7480
17609	C9H16	2,4-dimethyl-2,4-heptadiene	74421-05-9	0.31003	0.33729	616.00	0.28571	202.32	616.00	1,2	298.15	0.7622
17610	C9H16	2,6-dimethyl-1,3-heptadiene	2436-84-2	0.31003	0.34076	616.00	0.28571	202.32	616.00	1,2	298.15	0.7558
17611	C9H16	2,6-dimethyl-1,5-heptadiene	6709-39-3	0.31003	0.33593	616.00	0.28571	203.15	616.00	1,2	298.15	0.7648
17612	C9H16	3,5-dimethyl-2,4-heptadiene	101935-28-8	0.31003	0.33693	616.00	0.28571	202.32	616.00	1,2	298.15	0.7629
17613	C9H16	3-ethyl-2-methyl-1,5-hexadiene	73398-15-9	0.31003	0.33882	616.00	0.28571	203.15	616.00	1,2	298.15	0.7594
17615	C9H16	1,2,3-trimethylcyclohexene	72312-48-2	0.27493	0.26629	620.00	0.28571	181.60	620.00	1,2	298.15	0.8236
17616	C9H16	1,3,5-trimethylcyclohexene	3643-64-9	0.27493	0.27907	620.00	0.28571	181.60	620.00	1,2	298.15	0.7922
17617	C9H16	1,4,4-trimethylcyclohexene	3419-71-4	0.27493	0.27633	620.00	0.28571	181.60	620.00	1,2	298.15	0.7987
17618	C9H16	1,4,5-trimethylcyclohexene	20030-32-4	0.27493	0.27528	620.00	0.28571	181.60	620.00	1,2	298.15	0.8012
17619	C9H16	1,5,5-trimethylcyclohexene	503-46-8	0.27493	0.27720	620.00	0.28571	181.60	620.00	1,2	298.15	0.7966
17620	C9H16	1,5,6-trimethylcyclohexene	116724-18-6	0.27493	0.26419	620.00	0.28571	181.60	620.00	1,2	298.15	0.8290
17621	C9H16	1,6,6-trimethylcyclohexene	69745-49-9	0.27493	0.26807	620.00	0.28571	181.60	620.00	1,2	298.15	0.8190
17622	C9H16	1-ethyl-4-methylcyclohexene	62088-36-2	0.27493	0.27170	620.00	0.28571	181.60	620.00	1,2	298.15	0.8099
17627	C9H16	1-isopropyl-1-cyclohexene	4292-04-0	0.27493	0.26612	620.00	0.28571	181.60	620.00	1,2	298.15	0.8240
17628	C9H16	7-methyl-1,6-octadiene	42152-47-6	0.31003	0.34230	616.00	0.28571	202.32	616.00	1,2	298.15	0.7530
17629	C9H16	3,5,5-trimethylcyclohexene	933-12-0	0.27493	0.27978	620.00	0.28571	181.60	620.00	2	298.15	0.7905
17670	C9H16O	2-ethyl-2-methylcyclohexanone	17206-52-9	0.29548	0.27077	690.00	0.28571	280.00	690.00	1,2	298.15	0.8979
17671	C9H16O	2-isopropylcyclohexanone	1004-77-9	0.29548	0.26475	690.00	0.28571	345.65	690.00	1,2	456.52	0.7835
17672	C9H16O	4-isopropylcyclohexanone	5432-85-9	0.29548	0.26529	690.00	0.28571	280.00	690.00	1,2	298.15	0.9137
17673	C9H16O	2-propylcyclohexanone	94-65-5	0.29548	0.26208	690.00	0.28571	280.00	690.00	1,2	298.15	0.9232
17674	C9H16O	4-propylcyclohexanone	40649-36-3	0.29548	0.26904	690.00	0.28571	280.00	690.00	1,2	298.15	0.9028
17675	C9H16O	2,2,3-trimethylcyclohexanone	39257-08-4	0.29548	0.26453	690.00	0.28571	280.00	690.00	1,2	298.15	0.9159
17676	C9H16O	2,2,4-trimethylcyclohexanone	35413-38-8	0.29548	0.27488	690.00	0.28571	330.15	690.00	1,2	456.52	0.7622
17677	C9H16O	2,2,5-trimethylcyclohexanone	933-36-8	0.29548	0.27491	690.00	0.28571	280.00	690.00	1,2	298.15	0.8864
17678	C9H16O	2,2,6-trimethylcyclohexanone	2408-37-9	0.29548	0.27031	690.00	0.28571	241.35	690.00	1,2	298.15	0.8992
17679	C9H16O	2,3,6-trimethylcyclohexanone	42185-47-7	0.29548	0.26733	690.00	0.28571	280.00	690.00	1,2	298.15	0.9077
17680	C9H16O	2,4,4-trimethylcyclohexanone	2230-70-8	0.29548	0.27061	690.00	0.28571	280.00	690.00	1,2	298.15	0.8984
17681	C9H16O	2,4,5-trimethylcyclohexanone	51299-55-9	0.29548	0.27237	690.00	0.28571	280.00	690.00	1,2	298.15	0.8934
17682	C9H16O	2,4,6-trimethylcyclohexanone	90645-54-8	0.29548	0.27159	690.00	0.28571	280.00	690.00	1,2	298.15	0.8956
17683	C9H16O	3,3,5-trimethylcyclohexanone	873-94-9	0.29548	0.27445	690.00	0.28571	280.00	690.00	1,2	298.15	0.8876
17684	C9H16O	3,4,4-trimethylcyclohexanone	40441-35-8	0.29548	0.26620	690.00	0.28571	280.00	690.00	1,2	298.15	0.9110
17690	C9H16O	2-methyl-5-octen-4-one	17577-93-4	0.27432	0.26454	655.00	0.28571	220.00	655.00	1,2	298.15	0.8390
17691	C9H16O	2-methyl-7-octen-4-one	54298-97-4	0.27432	0.26924	655.00	0.28571	220.00	655.00	1,2	298.15	0.8267
17692	C9H16O	5-methyl-1-octen-3-one	116836-13-6	0.27432	0.26398	655.00	0.28571	220.00	655.00	1,2	298.15	0.8405
17693	C9H16O	7-methyl-5-octen-4-one	32064-78-1	0.27432	0.24652	655.00	0.28571	220.00	655.00	1,2	298.15	0.8903
17698	C9H16O	2-nonenal	2463-53-8	0.29211	0.28328	650.00	0.28571	220.00	650.00	1,2	298.15	0.8418
17699	C9H16O	trans-2-nonenal	18829-56-6	0.29211	0.26503	650.00	0.28571	220.00	650.00	2	298.15	0.8902
17704	C9H16O	2,6-dimethyl-5-heptenal	106-72-9	0.29211	0.27425	650.00	0.28571	220.00	650.00	1,2	298.15	0.8650
17705	C9H16O	(Z)-6-nonenal	2277-19-2	0.29211	0.28401	650.00	0.28571	220.00	650.00	1,2	298.15	0.8400
17706	C9H16O	trans-3-nonen-2-one	18402-83-0	0.27432	0.26120	655.00	0.28571	220.00	655.00	1,2	298.15	0.8480
17711	C9H16O2	allyl hexanoate	123-68-2	0.30947	0.28362	628.00	0.28571	215.70	628.00	1,2	298.15	0.8829
17716	C9H16O2	ethyl 2-methyl-2-hexenoate	26311-33-1	0.30947	0.27754	628.00	0.28571	215.70	628.00	1,2	298.15	0.8990
17717	C9H16O2	ethyl 2-methyl-3-hexenoate	21994-78-5	0.30947	0.28714	628.00	0.28571	215.70	628.00	1,2	298.15	0.8739
17718	C9H16O2	ethyl 3-methyl-3-hexenoate	21994-77-4	0.30947	0.28014	628.00	0.28571	215.70	628.00	1,2	298.15	0.8920
17719	C9H16O2	hexyl acrylate	2499-95-8	0.30947	0.28707	628.00	0.28571	228.15	628.00	1,2	298.15	0.8741
17724	C9H16O2	2-nonenoic acid	3760-11-0	0.28616	0.25759	756.00	0.28571	272.20	756.00	2	298.15	0.9269
17725	C9H16O2	3-nonenoic acid	4124-88-3	0.28616	0.25917	756.00	0.28571	268.75	756.00	1,2	298.15	0.9220
17726	C9H16O2	8-nonenoic acid	31642-67-8	0.28616	0.26356	756.00	0.28571	275.65	756.00	1,2	298.15	0.9087
17729	C9H16O2	2-ethylbutyl acrylate	3593-10-4	0.30947	0.27865	628.00	0.28571	203.25	628.00	1,2	298.15	0.8960
17734	C9H16O2	3,5-dimethyl-3-hydroxyhexane-4-carboxylic acid b-lactone	69928-30-9	0.28616	0.25759	756.00	0.28571	272.20	756.00	2	298.15	0.9269
17735	C9H16O2	2-ethylbutylacrylate	3953-10-4	0.30947	0.26773	628.00	0.28571	215.70	628.00	2	298.15	0.9263
17736	C9H16O2	cis-3-hexenyl propionate	33467-74-2	0.30947	0.26773	628.00	0.28571	215.70	628.00	2	298.15	0.9263
17737	C9H16O2	trans-2-hexenyl propionate	53398-80-4	0.30947	0.26773	628.00	0.28571	215.70	628.00	2	298.15	0.9263
17755	C9H16O4	azelaic acid	123-99-9	0.30860	0.20773	811.00	0.28571	379.65	811.00	1,2	633.36	0.8544
17785	C9H17Br	cis-1-bromo-1-nonene	39924-58-8	0.35277	0.26170	666.86	0.28571	245.41	666.86	1,2	298.15	1.0940
17786	C9H17Br	trans-1-bromo-1-nonene	53434-75-6	0.35277	0.26170	666.86	0.28571	245.41	666.86	1,2	298.15	1.0940
17790	C9H17Br3	1,1,1-tribromononane	62127-66-6	0.51077	0.25748	777.84	0.28571	372.51	777.84	2	570.15	1.2951
17791	C9H17Cl	cis-1-chloro-1-nonene	66688-72-0	0.28265	0.25860	662.93	0.28571	215.53	662.93	1,2	298.15	0.8840
17792	C9H17Cl	trans-1-chloro-1-nonene	66688-73-1	0.28265	0.25860	662.93	0.28571	215.53	662.93	1,2	298.15	0.8840
17793	C9H17Cl	(3-chloropropyl)cyclohexane	1124-62-5	0.28265	0.23743	662.93	0.28571	220.35	662.93	1,2	298.15	0.9500
17804	C9H17Cl3	1,1,1-trichlorononane	1071-84-7	0.34284	0.26200	710.31	0.28571	282.87	710.31	1,2	298.15	1.0790
17805	C9H17F	cis-1-fluoro-1-nonene	66688-74-2	0.26834	0.24950	571.18	0.28571	217.76	571.18	1,2	298.15	0.8260
17806	C9H17F	trans-1-fluoro-1-nonene	66688-75-3	0.26834	0.24950	571.18	0.28571	217.76	571.18	1,2	298.15	0.8260
17808	C9H17F3	1,1,1-trifluorononane	55757-34-1	0.31582	0.25475	578.40	0.28571	289.56	578.40	1,2	298.15	0.9600
17809	C9H17I	cis-1-iodo-1-nonene	27370-94-1	0.41504	0.26544	708.62	0.28571	243.67	708.62	1,2	298.15	1.2910
17810	C9H17I	trans-1-iodo-1-nonene	26143-08-8	0.41504	0.26544	708.62	0.28571	243.67	708.62	1,2	298.15	1.2910

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
17812	C9H17I3	1,1,1-triiodononane	---	0.63842	0.27060	944.80	0.28571	367.29	944.80	2	681.51	1.5818
17813	C9H17N	nonanenitrile	2243-27-8	0.24623	0.24410	677.19	0.28571	238.95	677.19	1,2	298.15	0.8132
17859	C9H18	butylcyclopentane	2040-95-1	0.26270	0.26949	625.05	0.28571	165.18	625.05	1,2	298.15	0.7810
17860	C9H18	isobutylcyclopentane	3788-32-7	0.26605	0.27419	617.21	0.28571	157.93	617.21	1,2	298.15	0.7769
17861	C9H18	sec-butylcyclopentane	4850-32-2	0.26605	0.26990	626.59	0.28571	186.59	626.59	1,2	298.15	0.7905
17862	C9H18	tert-butylcyclopentane	3875-52-3	0.26889	0.27423	622.56	0.28571	177.35	622.56	1,2	298.15	0.7870
17863	C9H18	1-methyl-1-propylcyclopentane	16631-63-3	0.26383	0.26410	618.03	0.28571	225.49	618.03	1,2	298.15	0.7950
17864	C9H18	1-methyl-cis-2-propylcyclopentane	932-43-4	0.26328	0.26665	620.88	0.28571	169.15	620.88	1,2	298.15	0.7881
17865	C9H18	1-methyl-trans-2-propylcyclopentane	932-44-5	0.26328	0.27134	611.82	0.28571	153.15	611.82	1,2	298.15	0.7735
17866	C9H18	1-methyl-cis-3-propylcyclopentane	2443-04-1	0.26328	0.27065	614.20	0.28571	197.35	614.20	1,2	298.15	0.7760
17867	C9H18	1-methyl-trans-3-propylcyclopentane	2443-03-0	0.26328	0.27065	614.20	0.28571	197.35	614.20	1,2	298.15	0.7760
17868	C9H18	1-methyl-1-isopropylcyclopentane	61828-00-0	0.26718	0.26935	626.05	0.28571	210.49	626.05	1,2	298.15	0.7950
17869	C9H18	1-methyl-cis-2-isopropylcyclopentane	61868-01-7	0.26661	0.27049	619.02	0.28571	182.35	619.02	1,2	298.15	0.7880
17870	C9H18	1-methyl-trans-2-isopropylcyclopentane	61828-01-1	0.26661	0.27394	608.73	0.28571	182.35	608.73	1,2	298.15	0.7760
17871	C9H18	1-methyl-cis-3-isopropylcyclopentane	61828-02-2	0.26661	0.27375	610.20	0.28571	182.35	610.20	1,2	298.15	0.7770
17872	C9H18	1-methyl-trans-3-isopropylcyclopentane	61828-03-3	0.26661	0.27375	610.20	0.28571	182.35	610.20	1,2	298.15	0.7770
17873	C9H18	1,1-diethylcyclopentane	2721-38-2	0.26383	0.26358	624.67	0.28571	177.55	624.67	1,2	298.15	0.7988
17874	C9H18	1,cis-2-diethylcyclopentane	932-39-8	0.26328	0.26529	622.31	0.28571	155.15	622.31	1,2	298.15	0.7920
17875	C9H18	1,trans-2-diethylcyclopentane	932-40-1	0.26328	0.26920	613.51	0.28571	178.15	613.51	1,2	298.15	0.7792
17876	C9H18	1,3-diethylcyclopentane	19398-75-5	0.26451	0.26874	610.99	0.28571	195.55	610.99	1,2	298.15	0.7830
17877	C9H18	1,cis-3-diethylcyclopentane	62016-59-5	0.26328	0.26818	617.12	0.28571	197.35	617.12	1,2	298.15	0.7830
17878	C9H18	1,trans-3-diethylcyclopentane	62016-60-8	0.26328	0.26777	617.12	0.28571	197.35	617.12	1,2	298.15	0.7840
17879	C9H18	1,1-dimethyl-2-ethylcyclopentane	54549-80-3	0.26438	0.26770	607.98	0.28571	221.25	607.98	1,2	298.15	0.7840
17880	C9H18	1,1-dimethyl-3-ethylcyclopentane	62016-61-9	0.26438	0.27438	602.06	0.28571	221.25	602.06	1,2	298.15	0.7660
17881	C9H18	1,cis-2-dimethyl-1-ethylcyclopentane	62016-63-1	0.26438	0.26459	616.85	0.28571	221.25	616.85	1,2	298.15	0.7950
17882	C9H18	1,trans-2-dimethyl-1-ethylcyclopentane	62016-62-0	0.26438	0.26580	616.85	0.28571	221.25	616.85	1,2	298.15	0.7920
17883	C9H18	1,cis-2-dimethyl-cis-3-ethylcyclopentane	---	0.26383	0.26587	621.75	0.28571	193.11	621.75	1,2	298.15	0.7920
17884	C9H18	1,cis-2-dimethyl-trans-3-ethylcyclopentane	---	0.26383	0.26758	611.51	0.28571	193.11	611.51	1,2	298.15	0.7840
17885	C9H18	1,trans-2-dimethyl-cis-3-ethylcyclopentane	---	0.26383	0.27442	601.27	0.28571	193.11	601.27	1,2	298.15	0.7640
17886	C9H18	1,trans-2-dimethyl-trans-3-ethylcyclopentane	---	0.26383	0.26924	611.51	0.28571	193.11	611.51	1,2	298.15	0.7800
17887	C9H18	1,cis-2-dimethyl-cis-4-ethylcyclopentane	62016-64-2	0.26383	0.26476	614.43	0.28571	193.11	614.43	1,2	298.15	0.7920
17888	C9H18	1,cis-2-dimethyl-trans-4-ethylcyclopentane	62016-65-3	0.26383	0.27095	614.43	0.28571	193.11	614.43	1,2	298.15	0.7770
17889	C9H18	1,trans-2-dimethyl-cis-4-ethylcyclopentane	62016-66-4	0.26383	0.27447	604.20	0.28571	193.11	604.20	1,2	298.15	0.7650
17890	C9H18	1,cis-3-dimethyl-1-ethylcyclopentane	62016-68-6	0.26438	0.27313	605.02	0.28571	221.25	605.02	1,2	298.15	0.7700
17891	C9H18	1,trans-3-dimethyl-1-ethylcyclopentane	62016-67-5	0.26438	0.27142	605.02	0.28571	221.25	605.02	1,2	298.15	0.7740
17892	C9H18	1,cis-3-dimethyl-cis-2-ethylcyclopentane	19903-00-5	0.26383	0.26873	621.75	0.28571	193.11	621.75	1,2	298.15	0.7850
17893	C9H18	1,cis-3-dimethyl-trans-2-ethylcyclopentane	19902-98-8	0.26383	0.27505	599.81	0.28571	193.11	599.81	1,2	298.15	0.7620
17894	C9H18	1,trans-3-dimethyl-cis-2-ethylcyclopentane	19902-99-9	0.26383	0.26901	610.05	0.28571	193.11	610.05	1,2	298.15	0.7800
17895	C9H18	1,cis-3-dimethyl-cis-4-ethylcyclopentane	---	0.26383	0.26716	611.51	0.28571	193.11	611.51	1,2	298.15	0.7850
17896	C9H18	1,cis-3-dimethyl-trans-4-ethylcyclopentane	---	0.26383	0.27505	599.81	0.28571	193.11	599.81	1,2	298.15	0.7620
17897	C9H18	1,trans-3-dimethyl-cis-4-ethylcyclopentane	---	0.26383	0.28482	678.78	0.28571	193.11	678.78	1,2	298.15	0.7650
17898	C9H18	1,trans-3-dimethyl-trans-4-ethylcyclopentane	---	0.26383	0.27177	611.51	0.28571	193.11	611.51	1,2	298.15	0.7740
17899	C9H18	1,1,2,2-tetramethylcyclopentane	52688-89-8	0.26549	0.26681	609.38	0.28571	245.15	609.38	1,2	298.15	0.7900
17900	C9H18	1,1,cis-2,cis-3-tetramethylcyclopentane	62016-70-0	0.26494	0.27244	609.74	0.28571	217.01	609.74	1,2	298.15	0.7750
17901	C9H18	1,1,cis-2,trans-3-tetramethylcyclopentane	---	0.26494	0.27569	597.88	0.28571	217.01	597.88	1,2	298.15	0.7630
17902	C9H18	1,1,cis-2,cis-4-tetramethylcyclopentane	62016-72-2	0.26494	0.27264	597.88	0.28571	217.01	597.88	1,2	298.15	0.7700
17903	C9H18	1,1,cis-2,trans-4-tetramethylcyclopentane	---	0.26494	0.27746	597.88	0.28571	217.01	597.88	1,2	298.15	0.7590
17904	C9H18	1,1,3,3-tetramethylcyclopentane	50876-33-0	0.26549	0.28174	586.82	0.28571	184.86	586.82	1,2	298.15	0.7469
17905	C9H18	1,1,cis-3,cis-4-tetramethylcyclopentane	20309-77-7	0.26494	0.27644	602.33	0.28571	166.75	602.33	1,2	298.15	0.7630
17906	C9H18	1,1,cis-3,trans-4-tetramethylcyclopentane	---	0.26494	0.28169	585.42	0.28571	217.01	585.42	1,2	298.15	0.7449
17907	C9H18	1,2,2,cis-3-tetramethylcyclopentane	62016-73-3	0.26494	0.27159	609.74	0.28571	217.01	609.74	1,2	298.15	0.7770
17908	C9H18	1,2,2,trans-3-tetramethylcyclopentane	---	0.26494	0.26824	609.74	0.28571	217.01	609.74	1,2	298.15	0.7850
17909	C9H18	1,cis-2,cis-3,cis-4-tetramethylcyclopentane	2532-65-2	0.26438	0.26977	613.22	0.28571	188.87	613.22	1,2	298.15	0.7810
17910	C9H18	1,cis-2,cis-3,trans-4-tetramethylcyclopentane	2532-69-6	0.26438	0.27366	602.95	0.28571	188.87	602.95	1,2	298.15	0.7680
17911	C9H18	1,cis-2,trans-3,cis-4-tetramethylcyclopentane	2532-68-5	0.26438	0.27193	592.68	0.28571	188.87	592.68	1,2	298.15	0.7680
17912	C9H18	1,cis-2,trans-3,trans-4-tetramethylcyclopentane	2532-64-1	0.26438	0.27236	602.95	0.28571	188.87	602.95	1,2	298.15	0.7710
17913	C9H18	1,trans-2,cis-3,trans-4-tetramethylcyclopentane	2532-67-4	0.26438	0.28174	587.41	0.28571	188.87	587.41	1,2	298.15	0.7440
17914	C9H18	1,trans-2,trans-3,cis-4-tetramethylcyclopentane	19907-40-5	0.26438	0.27454	592.68	0.28571	188.87	592.68	1,2	298.15	0.7620
17915	C9H18	1-methyl-2-isopropylcyclopentane	89223-57-4	0.26451	0.27184	610.99	0.28571	195.55	610.99	1,2	298.15	0.7756
17916	C9H18	propylcyclohexane	1678-92-8	0.26470	0.26703	639.15	0.30020	178.28	639.15	1,2	298.15	0.7900
17917	C9H18	isopropylcyclohexane	696-29-7	0.27210	0.27141	627.00	0.29805	183.76	627.00	1,2	298.15	0.7980
17918	C9H18	1-methyl-1-ethylcyclohexane	4926-90-3	0.26831	0.26875	633.38	0.28571	221.97	633.38	1,2	298.15	0.8025
17919	C9H18	1-methyl-cis-2-ethylcyclohexane	4923-77-7	0.26775	0.26648	632.03	0.28571	193.83	632.03	1,2	298.15	0.8060
17920	C9H18	1-methyl-trans-2-ethylcyclohexane	4923-78-8	0.26775	0.27203	625.55	0.28571	193.83	625.55	1,2	298.15	0.7900
17921	C9H18	1-methyl-cis-3-ethylcyclohexane	19489-10-2	0.26775	0.27499	620.10	0.28571	193.83	620.10	1,2	298.15	0.7810
17922	C9H18	1-methyl-trans-3-ethylcyclohexane	4926-76-5	0.26775	0.27146	624.52	0.28571	193.83	624.52	1,2	298.15	0.7910
17923	C9H18	1-methyl-cis-4-ethylcyclohexane	4926-78-7	0.26775	0.27023	624.52	0.28571	193.83	624.52	1,2	298.15	0.7940
17924	C9H18	1-methyl-trans-4-ethylcyclohexane	6236-88-0	0.26775	0.27541	620.10	0.28571	192.35	620.10	1,2	298.15	0.7800
17925	C9H18	1,1,2-trimethylcyclohexane	7094-26-0	0.26889	0.27072	624.87	0.28571	244.15	624.87	1,2	298.15	0.7963
17926	C9H18	1,1,3-trimethylcyclohexane	3073-66-3	0.26889	0.27775	612.06	0.28571	207.40	612.06	1,2	298.15	0.7750
17927	C9H18	1,1,4-trimethylcyclohexane	7094-27-1	0.26889	0.28020	609.63	0.28571	217.73	609.63	1,2	298.15	0.7685
17928	C9H18	1,2,3-trimethylcyclohexane	1678-97-3	0.26824	0.27364	621.31	0.28571	197.59	621.31	1,2	298.15	0.7861
17929	C9H18	1,cis-2,cis-3-trimethylcyclohexane	1839-88-9	0.26831	0.27161	629.26	0.28571	188.15	629.26	1,2	298.15	0.7940
17930	C9H18	1,cis-2,trans-3-trimethylcyclohexane	7667-55-2	0.26831	0.26753	626.30	0.28571	187.45	626.30	1,2	298.15	0.8030
17931	C9H18	1,trans-2,cis-3-trimethylcyclohexane	1678-81-5	0.26831	0.27677	615.97	0.28571	206.25	615.97	1,2	298.15	0.7770
17932	C9H18	1,2,4-trimethylcyclohexane, isomers	2234-75-5	0.26824	0.27367	621.31	0.28571	186.85	621.31	1,2	298.15	0.7860
17933	C9H18	1,cis-2,cis-4-trimethylcyclohexane	1678-80-4	0.26831	0.27511	621.87	0.28571	195.65	621.87	1,2	298.15	0.7830
17934	C9H18	1,cis-2,trans-4-trimethylcyclohexane	7667-58-5	0.26831	0.27511	621.87	0.28571	181.35	621.87	1,2	298.15	0.7830
17935	C9H18	1,trans-2,cis-4-trimethylcyclohexane	7667-59-6	0.26831	0.27401	617.44	0.28571	187.15	617.44	1,2	298.15	0.7840
17936	C9H18	1,trans-2,trans-4-trimethylcyclohexane	7667-60-9	0.26831	0.27992	611.86	0.28571	187.15	611.86	1,2	298.15	0.7683

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
17937	C9H18	1,3,5,-trimethylcyclohexane	1839-63-0	0.26824	0.27880	621.31	0.28571	197.59	621.31	2	298.15	0.7740
17938	C9H18	cis,cis-1,3,5-trimethylcyclohexane	1795-27-3	0.26830	0.27984	607.86	0.28571	223.46	607.86	1,2	298.15	0.7670
17939	C9H18	cis,trans-1,3,5-trimethylcyclohexane	1795-26-2	0.26830	0.30222	602.20	0.28571	188.76	602.20	1,2	298.15	0.7180
17940	C9H18	1-ethyl-2-methylcyclohexane	3728-54-9	0.26824	0.27880	621.31	0.28571	197.59	621.31	2	298.15	0.7740
17941	C9H18	cyclononane	293-55-0	0.27624	0.26729	682.00	0.28571	284.15	682.00	1,2	298.15	0.8463
17942	C9H18	1-nonene	124-11-8	0.23910	0.25815	593.25	0.28571	191.78	593.25	1,2	298.15	0.7250
17943	C9H18	trans-2-nonene	6434-78-2	0.24059	0.25628	593.62	0.28571	183.97	593.62	1,2	298.15	0.7340
17944	C9H18	trans-3-nonene	20063-92-7	0.24059	0.25848	593.62	0.28571	183.97	593.62	1,2	298.15	0.7289
17945	C9H18	4-nonene; (cis+trans)	2198-23-4	0.24059	0.25714	593.62	0.28571	183.97	593.62	1,2	298.15	0.7320
17946	C9H18	2-methyl-1-octene	4588-18-5	0.24207	0.26005	594.00	0.28571	195.47	594.00	1,2	298.15	0.7299
17947	C9H18	3-methyl-2-octene	113426-22-5	0.24059	0.25337	593.62	0.28571	183.97	593.62	1,2	298.15	0.7409
17948	C9H18	7-methyl-3-octene	86668-33-9	0.24059	0.26063	593.62	0.28571	183.97	593.62	1,2	298.15	0.7240
17948.1	C9H18	7-methyl-1-octene	13151-06-9	0.24851	0.25081	579.00	0.28571	194.00	579.00	1,2	298.15	0.7653
17949	C9H18	2-methyl-4-octene	64501-77-5	0.24059	0.25626	593.62	0.28571	183.97	593.62	1,2	298.15	0.7341
17950	C9H18	2,3-dimethyl-2-heptene	3074-64-4	0.24059	0.25757	593.62	0.28571	164.65	593.62	1,2	298.15	0.7310
17951	C9H18	2,6-dimethylhept-3-ene	2738-18-3	0.24059	0.26467	593.62	0.28571	183.97	593.62	1,2	298.15	0.7149
17955	C9H18Br2	1,1-dibromononane	62168-27-8	0.43506	0.26215	729.44	0.28571	295.29	729.44	1,2	298.15	1.3770
17956	C9H18Br2	1,2-dibromononane	73642-91-8	0.43506	0.25873	729.44	0.28571	272.97	729.44	1,2	298.15	1.3926
17957	C9H18Br2	1,9-dibromononane	4549-33-1	0.43506	0.25349	729.44	0.28571	250.65	729.44	1,2	298.15	1.4174
17959	C9H18Cl2	1,1-dichlorononane	821-88-5	0.31219	0.26112	688.79	0.28571	235.53	688.79	1,2	298.15	0.9780
17960	C9H18Cl2	2,6-dichloro-2,6-dimethylheptane	35951-36-1	0.31219	0.25508	688.79	0.28571	316.15	688.79	2	517.15	0.7822
17961	C9H18Cl2	1,9-dichlorononane	821-99-8	0.31219	0.24930	688.79	0.28571	275.84	688.79	1,2	298.15	1.0173
17964	C9H18F2	1,1-difluorononane	62127-42-8	0.29172	0.25771	602.20	0.28571	239.99	602.20	1,2	298.15	0.8900
17967	C9H18I2	1,1-diiodononane	66703-05-7	0.53566	0.26395	817.53	0.28571	291.81	817.53	1,2	298.15	1.7260
17997	C9H18O	1-nonanal	124-19-6	0.26990	0.27293	640.00	0.25011	255.15	640.00	1,2	298.15	0.8190
17998	C9H18O	diisobutyl ketone	108-83-8	0.27250	0.27230	615.00	0.28130	227.17	615.00	1,2	298.15	0.8020
17999	C9H18O	2-nonanone	821-55-6	0.26075	0.25576	644.29	0.28571	265.65	644.29	1,2	298.15	0.8167
18000	C9H18O	di-tert-butyl ketone	815-24-7	0.26663	0.25996	629.65	0.28571	247.95	629.65	1,2	298.15	0.8185
18001	C9H18O	3,5-dimethyl-4-heptanone	19549-84-9	0.26663	0.26038	629.65	0.28571	255.05	629.65	1,2	298.15	0.8174
18002	C9H18O	3-methyl-2-octanone	6137-08-2	0.26663	0.26020	629.65	0.28571	255.05	629.65	1,2	298.15	0.8178
18003	C9H18O	3-methyl-4-octanone	20754-04-5	0.26663	0.25926	629.65	0.28571	255.05	629.65	1,2	298.15	0.8203
18004	C9H18O	4-methyl-3-octanone	6137-15-1	0.26663	0.25938	629.65	0.28571	255.05	629.65	1,2	298.15	0.8200
18005	C9H18O	5-methyl-2-octanone	58654-67-4	0.26663	0.24240	629.65	0.28571	255.05	629.65	2	298.15	0.8676
18006	C9H18O	7-methyl-3-octanone	5408-57-1	0.26663	0.25368	629.65	0.28571	255.05	629.65	1,2	298.15	0.8353
18007	C9H18O	7-methyl-4-octanone	20809-46-5	0.26663	0.25940	629.65	0.28571	255.05	629.65	1,2	298.15	0.8199
18008	C9H18O	3-nonanone	925-78-0	0.26663	0.25933	629.65	0.28571	265.15	629.65	1,2	298.15	0.8201
18009	C9H18O	4-nonanone	4485-09-0	0.26663	0.25976	629.65	0.28571	255.05	629.65	1,2	298.15	0.8190
18010	C9H18O	5-nonanone	502-56-7	0.26663	0.26023	629.65	0.28571	269.35	629.65	1,2	298.15	0.8178
18011	C9H18O	1-ethyl-2-methylcyclohexanol	102370-18-3	0.29706	0.26085	655.00	0.28571	310.05	655.00	1,2	455.15	0.7737
18012	C9H18O	1-ethyl-3-methylcyclohexanol	62067-44-1	0.29706	0.26848	655.00	0.28571	310.05	655.00	1,2	456.62	0.7565
18013	C9H18O	1-isopropylcyclohexanol	3552-01-0	0.29706	0.25986	655.00	0.28571	299.15	655.00	1,2	449.15	0.7822
18014	C9H18O	cis-2-isopropylcyclohexanol	10488-25-2	0.29706	0.25986	655.00	0.28571	325.65	655.00	1,2	456.62	0.7743
18015	C9H18O	cis-4-isopropylcyclohexanol	22900-08-9	0.29706	0.26203	655.00	0.28571	311.15	655.00	1,2	456.62	0.7697
18016	C9H18O	trans-4-isopropylcyclohexanol	15890-36-5	0.29706	0.26373	655.00	0.28571	283.15	655.00	1,2	298.15	0.9109
18017	C9H18O	1-propylcyclohexanol	5445-24-9	0.29706	0.25957	655.00	0.28571	310.05	655.00	1,2	456.62	0.7749
18018	C9H18O	cis-2-propylcyclohexanol	5857-86-3	0.29706	0.26291	655.00	0.28571	310.05	655.00	1,2	474.15	0.7491
18019	C9H18O	trans-2-propylcyclohexanol	5846-43-5	0.29706	0.26579	655.00	0.28571	310.05	655.00	1,2	456.62	0.7619
18020	C9H18O	cis-4-propylcyclohexanol	98790-22-8	0.29706	0.26648	655.00	0.28571	310.05	655.00	1,2	456.62	0.7605
18021	C9H18O	trans-4-propylcyclohexanol	77866-58-1	0.29706	0.26761	655.00	0.28571	310.05	655.00	1,2	481.15	0.7324
18022	C9H18O	1,2,2-trimethylcyclohexanol	31720-69-1	0.29706	0.26102	655.00	0.28571	310.05	655.00	1,2	456.62	0.7718
18023	C9H18O	1,2,6-trimethylcyclohexanol	96244-13-2	0.29706	0.26593	655.00	0.28571	310.05	655.00	1,2	456.62	0.7617
18024	C9H18O	1,3,5-trimethylcyclohexanol	90760-75-1	0.29706	0.27424	655.00	0.28571	310.05	655.00	1,2	454.15	0.7476
18025	C9H18O	2,2,5-trimethylcyclohexanol	73210-25-0	0.29706	0.26998	655.00	0.28571	310.05	655.00	1,2	461.15	0.7489
18026	C9H18O	2,2,6-trimethylcyclohexanol	10130-91-3	0.29706	0.26448	655.00	0.28571	324.15	655.00	1,2	460.15	0.7609
18027	C9H18O	2,3,3-trimethylcyclohexanol	116724-17-5	0.29706	0.26747	655.00	0.28571	301.15	655.00	1,2	470.15	0.7445
18028	C9H18O	2,3,6-trimethylcyclohexanol	58210-03-0	0.29706	0.26569	655.00	0.28571	310.05	655.00	1,2	468.15	0.7501
18029	C9H18O	cis-3,3,5-trimethylcyclohexanol	933-48-2	0.29706	0.26984	655.00	0.28571	310.45	655.00	1,2	475.15	0.7347
18030	C9H18O	trans-3,3,5-trimethylcyclohexanol	767-54-4	0.29706	0.27072	655.00	0.28571	328.95	655.00	1,2	462.35	0.7462
18031	C9H18O	3-methyl-4-octen-3-ol	90676-55-4	0.31797	0.31015	629.00	0.28571	330.00	629.00	1,2	444.15	0.7256
18032	C9H18O	4-methyl-1-octen-4-ol	62108-06-9	0.31797	0.31103	629.00	0.28571	330.00	629.00	1,2	451.15	0.7177
18033	C9H18O	5-methyl-5-octen-4-ol	36903-92-1	0.31797	0.30825	629.00	0.28571	330.00	629.00	1,2	456.62	0.7169
18034	C9H18O	7-methyl-2-octen-4-ol	4798-64-5	0.31797	0.31006	629.00	0.28571	330.00	629.00	1,2	456.62	0.7140
18035	C9H18O	cis-2-methyl-3-octen-2-ol	18521-07-8	0.31797	0.31379	629.00	0.28571	330.00	629.00	1,2	450.15	0.7142
18036	C9H18O	1-nonen-3-ol	21964-44-3	0.26663	0.25907	629.65	0.28571	330.00	629.65	1,2	466.65	0.6677
18037	C9H18O	8-nonen-1-ol	13038-21-6	0.26663	0.25220	629.65	0.28571	330.00	629.65	1,2	456.62	0.6911
18042	C9H18O	cis-3-nonen-1-ol	10340-23-5	0.26663	0.25090	629.65	0.28571	330.00	629.65	1,2	456.62	0.6935
18043	C9H18O	3,5,5-trimethylcyclohexanol	116-02-9	0.29706	0.27118	655.00	0.28571	306.65	655.00	1,2	468.65	0.7389
18044	C9H18O	3,5,5-trimethylhexanal	5435-64-3	0.26990	0.26582	640.00	0.28571	255.15	640.00	1,2	298.15	0.8170
18045	C9H18O	2,6-dimethyl-3-heptanone	19549-83-8	0.26663	0.24240	629.65	0.28571	255.05	629.65	2	298.15	0.8676
18046	C9H18O	4-(1-methylethyl)cyclohexanol	4621-04-9	0.29706	0.27931	655.00	0.28571	310.05	655.00	2	396.15	0.7901
18047	C9H18O	2-methyl-3-octanone	923-28-4	0.26663	0.24240	629.65	0.28571	255.05	629.65	2	298.15	0.8676
18048	C9H18O	2-methyloctanal	7786-29-0	0.26990	0.24736	640.00	0.28571	255.15	640.00	2	298.15	0.8677
18049	C9H18O	3-methyl-1-octen-ol	24089-00-7	0.31797	0.29924	629.00	0.28571	330.00	629.00	2	456.62	0.7318
18052	C9H18O2	nonanoic acid	112-05-0	0.28930	0.25824	703.00	0.31610	285.55	703.00	1,2	298.15	0.9020
18053	C9H18O2	2-ethylheptanoic acid	3274-29-1	0.28930	0.27463	703.00	0.28571	285.55	703.00	2	298.15	0.8724
18054	C9H18O2	3-ethyl-3-methylhexanoic acid	50902-82-4	0.28930	0.25792	703.00	0.28571	285.55	703.00	1,2	298.15	0.9205
18055	C9H18O2	2-ethyl-3-methylhexanoic acid	74581-94-5	0.28930	0.26276	703.00	0.28571	285.55	703.00	1,2	298.15	0.9060
18056	C9H18O2	3-methyloctanoic acid	6061-10-5	0.28930	0.26565	703.00	0.28571	285.55	703.00	1,2	298.15	0.8976
18057	C9H18O2	2-methyloctanoic acid	3004-93-1	0.28930	0.27463	703.00	0.28571	285.55	703.00	2	298.15	0.8724
18058	C9H18O2	octyl formate	112-32-3	0.28930	0.26353	645.00	0.30888	234.05	645.00	1,2	298.15	0.8700

Table 3 Density of Liquid - Organic Compounds

			density = A B^-(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
18059	C9H18O2	heptyl acetate	112-06-1	0.27425	0.25338	643.90	0.28571	222.95	643.90	1,2	298.15	0.8656
18060	C9H18O2	4-heptyl acetate	5921-84-6	0.27425	0.25044	643.90	0.28571	222.95	643.90	1,2	298.15	0.8741
18061	C9H18O2	hexyl propanoate	2445-76-3	0.27425	0.25293	640.00	0.28571	215.65	640.00	1,2	298.15	0.8654
18062	C9H18O2	pentyl butanoate	540-18-1	0.27425	0.25378	636.70	0.28571	200.15	636.70	1,2	298.15	0.8617
18063	C9H18O2	1-methylbutyl butanoate	60415-61-4	0.31648	0.29291	610.00	0.28571	218.02	610.00	2	298.15	0.8721
18064	C9H18O2	2-methylbutyl butanoate	51115-64-1	0.31648	0.29446	620.00	0.28571	218.02	620.00	2	298.15	0.8722
18065	C9H18O2	3-methylbutyl butanoate	106-27-4	0.31648	0.29940	619.00	0.28571	218.02	619.00	1,2	298.15	0.8599
18066	C9H18O2	1-ethylpropyl butanoate	---	0.31648	0.29291	610.00	0.28571	218.02	610.00	2	298.15	0.8721
18067	C9H18O2	1,1-dimethylpropyl butanoate	2050-00-2	0.31648	0.29178	603.00	0.28571	235.44	603.00	2	298.15	0.8721
18068	C9H18O2	1,2-dimethylpropyl butanoate	88736-68-9	0.31648	0.29259	608.00	0.28571	203.02	608.00	2	298.15	0.8721
18069	C9H18O2	2,2-dimethylpropyl butanoate	23361-69-5	0.31648	0.29243	607.00	0.28571	235.44	607.00	2	298.15	0.8721
18070	C9H18O2	isopentyl 2-methylpropanoate	2050-01-3	0.27425	0.25532	640.00	0.28571	215.65	640.00	1,2	298.15	0.8586
18071	C9H18O2	butyl valerate	591-68-4	0.28930	0.26652	629.00	0.29650	180.35	629.00	1,2	298.15	0.8630
18072	C9H18O2	butyl 2-methylbutanoate	15706-73-7	0.31120	0.29338	614.21	0.28571	218.27	614.21	1,2	298.15	0.8581
18073	C9H18O2	butyl 3-methylbutanoate	109-19-3	0.31120	0.28768	614.21	0.28571	218.27	614.21	2	298.15	0.8721
18074	C9H18O2	sec-butyl pentanoate	116836-32-9	0.28930	0.27142	629.00	0.28571	206.25	629.00	1,2	298.15	0.8565
18075	C9H18O2	isobutyl 3-methylbutanoate	589-59-3	0.31120	0.29711	614.21	0.28571	218.27	614.21	1,2	298.15	0.8492
18076	C9H18O2	propyl hexanoate	626-77-7	0.28930	0.26891	629.00	0.28571	204.45	629.00	1,2	298.15	0.8631
18077	C9H18O2	isobutyl pentanoate	10588-10-0	0.28930	0.26915	629.00	0.28571	206.25	629.00	1,2	298.15	0.8625
18078	C9H18O2	ethyl heptanoate	106-30-9	0.28930	0.26363	629.00	0.28571	207.05	629.00	1,2	298.15	0.8775
18079	C9H18O2	ethyl 3-methylhexanoate	41692-47-1	0.28930	0.26866	629.00	0.28571	206.25	629.00	1,2	298.15	0.8638
18080	C9H18O2	ethyl 4-methylhexanoate	1561-10-0	0.28930	0.26759	629.00	0.28571	206.25	629.00	1,2	298.15	0.8667
18081	C9H18O2	methyl octanoate	111-11-5	0.28930	0.26514	629.00	0.28571	233.15	629.00	1,2	298.15	0.8733
18082	C9H18O2	3,5,5-trimethylhexanoic acid	3302-10-1	0.28930	0.27463	703.00	0.28571	285.55	703.00	2	298.15	0.8724
18083	C9H18O2	7-methyloctanoic acid	693-19-6	0.28930	0.27463	703.00	0.28571	285.55	703.00	2	298.15	0.8724
18087	C9H18O2	4-octanecarboxylic acid	3274-28-0	0.28930	0.27463	703.00	0.28571	285.55	703.00	2	298.15	0.8724
18099.1	C9H18O3	triacetone alcohol	3682-91-5	0.30949	0.31161	618.00	0.28571	330.40	618.00	2	298.15	0.8131
18111	C9H18S	thiacyclodecane	6048-83-5	0.32473	0.29716	771.03	0.28571	271.68	771.03	1,2	298.15	0.9329
18115	C9H19Br	1-bromononane	693-58-3	0.34440	0.25885	682.65	0.28571	244.15	682.65	1,2	298.15	1.0845
18117	C9H19Cl	1-chlorononane	2473-01-0	0.27647	0.25772	661.88	0.28571	233.75	661.88	1,2	298.15	0.8668
18118	C9H19Cl	3-chloro-3-ethyl-2,2-dimethylpentane	86661-53-2	0.27647	0.25667	661.88	0.28571	233.75	661.88	2	298.15	0.8698
18119	C9H19Cl	3-chloro-3-ethylheptane	28320-89-0	0.27647	0.25260	661.88	0.28571	233.75	661.88	1,2	298.15	0.8816
18120	C9H19Cl	3-chloro-3-methyloctane	28320-88-9	0.27647	0.25730	661.88	0.28571	233.75	661.88	1,2	298.15	0.8680
18121	C9H19Cl	4-chloro-4-methyloctane	36903-89-6	0.27647	0.25716	661.88	0.28571	233.75	661.88	1,2	298.15	0.8684
18122	C9H19Cl	2-chlorononane	2216-36-6	0.27647	0.26284	661.88	0.28571	233.75	661.88	1,2	298.15	0.8525
18123	C9H19Cl	5-chlorononane	28123-70-8	0.27647	0.26146	661.88	0.28571	233.75	661.88	1,2	298.15	0.8563
18124	C9H19Cl	3-chloro-2,2,3-trimethylhexane	102449-95-6	0.27647	0.24815	661.88	0.28571	233.75	661.88	1,2	298.15	0.8949
18127	C9H19F	1-fluorononane	463-18-3	0.26446	0.25610	602.90	0.28571	233.15	602.90	1,2	298.15	0.8113
18129	C9H19I	1-iodononane	4282-42-2	0.45507	0.29484	683.84	0.28571	253.15	683.84	1,2	298.15	1.2836
18139	C9H19N	cyclohexylisopropylamine	1195-42-2	0.27684	0.26092	662.00	0.28571	193.25	662.00	1,2	298.15	0.8590
18143	C9H19N	3,3,5-trimethylcyclohexylamine	15901-42-5	0.27684	0.26825	662.00	0.28571	193.25	662.00	2	298.15	0.8392
18155	C9H19NO2	1-nitrononane	2216-21-9	0.27877	0.25117	703.70	0.28571	334.30	703.70	2	522.15	0.7123
18176	C9H20	nonane	111-84-2	0.23420	0.25641	595.65	0.28571	219.63	595.65	1,2	298.15	0.7150
18177	C9H20	2-methyloctane	3221-61-2	0.23710	0.26099	586.75	0.28570	192.78	586.75	1,2	298.15	0.7100
18178	C9H20	3-methyloctane	2216-33-3	0.24250	0.26708	590.15	0.28007	165.55	590.15	1,2	298.15	0.7170
18179	C9H20	4-methyloctane	2216-34-4	0.24520	0.26579	587.65	0.29984	159.95	587.65	1,2	298.15	0.7160
18180	C9H20	3-ethylheptane	15869-80-4	0.24290	0.26514	590.00	0.27904	158.25	590.00	1,2	298.15	0.7230
18181	C9H20	4-ethylheptane	2216-32-2	0.24040	0.25885	584.95	0.28571	159.96	584.95	1,2	298.15	0.7240
18182	C9H20	2,2-dimethylheptane	1071-26-7	0.24710	0.27206	576.80	0.29376	160.15	576.80	1,2	298.15	0.7070
18183	C9H20	2,3-dimethylheptane	3074-71-3	0.24900	0.27200	589.60	0.28571	160.16	589.60	1,2	298.15	0.7220
18184	C9H20	2,4-dimethylheptane	2213-23-2	0.24810	0.27360	576.80	0.28571	160.16	576.80	1,2	298.15	0.7110
18185	C9H20	2,5-dimethylheptane	2216-30-0	0.24570	0.27021	581.10	0.28571	160.16	581.10	1,2	298.15	0.7130
18186	C9H20	2,6-dimethylheptane	1072-05-5	0.24670	0.27279	579.00	0.29230	170.25	579.00	1,2	298.15	0.7060
18187	C9H20	3,4-dimethylheptane	922-28-1	0.25500	0.27808	591.90	0.28571	170.26	591.90	1,2	298.15	0.7270
18188	C9H20	3,5-dimethylheptane	926-82-9	0.25150	0.27560	583.20	0.28571	170.26	583.20	1,2	298.15	0.7190
18189	C9H20	4,4-dimethylheptane	1068-19-5	0.25600	0.28110	585.40	0.28571	170.26	585.40	1,2	298.15	0.7210
18190	C9H20	3-ethyl-2-methylhexane	16789-46-1	0.25810	0.28060	588.10	0.28571	160.16	588.10	1,2	298.15	0.7290
18191	C9H20	4-ethyl-2-methylhexane	3074-75-7	0.25450	0.27905	580.00	0.28571	160.16	580.00	1,2	298.15	0.7190
18192	C9H20	3-ethyl-3-methylhexane	3074-76-8	0.26340	0.28549	597.50	0.28571	160.16	597.50	1,2	298.15	0.7370
18193	C9H20	3-ethyl-4-methylhexane	3074-77-9	0.26170	0.28307	593.70	0.28571	160.16	593.70	1,2	298.15	0.7360
18194	C9H20	2,2,3-trimethylhexane	16747-25-4	0.25710	0.28114	588.00	0.28571	153.16	588.00	1,2	298.15	0.7250
18195	C9H20	2,2,4-trimethylhexane	16747-26-5	0.25320	0.27894	573.50	0.28571	153.00	573.50	1,2	298.15	0.7130
18196	C9H20	2,2,5-trimethylhexane	3522-94-9	0.24710	0.26990	568.05	0.29540	167.39	568.05	1,2	298.15	0.7070
18197	C9H20	2,3,3-trimethylhexane	16747-28-7	0.26120	0.28374	596.00	0.28571	156.36	596.00	1,2	298.15	0.7340
18198	C9H20	2,3,4-trimethylhexane	921-47-1	0.25960	0.28090	594.50	0.28571	156.36	594.50	1,2	298.15	0.7350
18199	C9H20	2,3,5-trimethylhexane	1069-53-0	0.25200	0.27601	579.20	0.28571	145.36	579.20	1,2	298.15	0.7180
18200	C9H20	2,4,4-trimethylhexane	16747-30-1	0.25650	0.28154	581.50	0.28571	159.78	581.50	1,2	298.15	0.7200
18201	C9H20	3,3,4-trimethylhexane	16747-31-2	0.26500	0.28653	602.30	0.28571	171.96	602.30	1,2	298.15	0.7410
18202	C9H20	3,3-diethylpentane	1067-20-5	0.27120	0.28982	610.05	0.29339	240.12	610.05	1,2	298.15	0.7500
18203	C9H20	2,2-dimethyl-3-ethylpentane	16747-32-3	0.25100	0.27061	590.00	0.28571	173.68	590.00	1,2	298.15	0.7310
18204	C9H20	2,3-dimethyl-3-ethylpentane	16747-33-4	0.26890	0.28769	606.80	0.28571	173.67	606.80	1,2	298.15	0.7510
18205	C9H20	2,4-dimethyl-3-ethylpentane	1068-87-7	0.25050	0.26878	591.00	0.28571	150.79	591.00	1,2	298.15	0.7340
18206	C9H20	2,2,3,3-tetramethylpentane	7154-79-2	0.26830	0.28390	610.85	0.29712	263.26	610.85	1,2	298.15	0.7530
18207	C9H20	2,2,3,4-tetramethylpentane	1186-53-4	0.26180	0.28182	592.15	0.29201	152.06	592.15	1,2	298.15	0.7350
18208	C9H20	2,2,4,4-tetramethylpentane	1070-87-7	0.25450	0.27869	571.35	0.28631	206.95	571.35	1,2	298.15	0.7160
18209	C9H20	2,3,3,4-tetramethylpentane	16747-38-9	0.24830	0.26820	607.50	0.28571	171.10	607.50	1,2	298.15	0.7350
18210	C9H20	3,3-dimethylheptane	4032-86-4	0.25310	0.27749	588.85	0.28571	170.98	588.85	1,2	298.15	0.7217
18236	C9H20O	1-nonanol	143-08-8	0.26400	0.26508	673.00	0.26313	268.15	673.00	1,2	298.15	0.8240
18237	C9H20O	2-nonanol	628-99-9	0.26810	0.26322	623.00	0.27220	238.15	623.00	1,2	298.15	0.8200
18238	C9H20O	2-nonanol, (±)	74683-66-2	0.26566	0.24769	614.43	0.28571	238.15	614.43	1,2	298.15	0.8427

Table 3 Density of Liquid - Organic Compounds

			density = A B ^ (1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
18239	C9H20O	3-nonanol	624-51-1	0.26110	0.25107	620.40	0.28571	295.15	620.40	1,2	298.15	0.8214
18240	C9H20O	3-nonanol, (±)	74742-08-8	0.26566	0.25570	614.43	0.28571	295.15	614.43	1,2	298.15	0.8208
18241	C9H20O	4-nonanol	5932-79-6	0.26110	0.25052	618.15	0.28571	236.51	618.15	1,2	298.15	0.8220
18242	C9H20O	4-nonanol, (S)	52708-03-9	0.26566	0.25451	614.43	0.28571	240.06	614.43	1,2	298.15	0.8240
18243	C9H20O	5-nonanol	623-93-8	0.26110	0.25230	620.93	0.28571	278.75	620.93	1,2	298.15	0.8183
18244	C9H20O	2-methyl-1-octanol	818-81-5	0.26110	0.24896	627.23	0.28571	236.51	627.23	2	298.15	0.8299
18245	C9H20O	3-methyl-1-octanol	38514-02-2	0.26110	0.25039	627.23	0.28571	236.51	627.23	1,2	298.15	0.8260
18246	C9H20O	4-methyl-1-octanol	38514-03-3	0.26110	0.25185	627.23	0.28571	236.51	627.23	1,2	298.15	0.8220
18247	C9H20O	5-methyl-1-octanol	38514-04-4	0.26110	0.25002	627.23	0.28571	236.51	627.23	1,2	298.15	0.8270
18248	C9H20O	6-methyl-1-octanol	38514-05-5	0.26110	0.25044	635.39	0.28571	236.51	635.39	1,2	298.15	0.8290
18249	C9H20O	7-methyl-1-octanol	2430-22-0	0.26110	0.25153	635.39	0.28571	337.65	635.39	1,2	479.15	0.6581
18250	C9H20O	2-methyl-2-octanol	628-44-4	0.26348	0.25345	604.24	0.28571	253.93	604.24	1,2	298.15	0.8158
18251	C9H20O	3-methyl-2-octanol	27644-49-1	0.26397	0.24778	605.01	0.28571	221.51	605.01	1,2	298.15	0.8330
18252	C9H20O	5-methyl-2-octanol	66793-81-5	0.26397	0.25219	605.01	0.28571	221.51	605.01	1,2	298.15	0.8210
18253	C9H20O	7-methyl-2-octanol	66793-83-7	0.26397	0.24890	605.01	0.28571	221.51	605.01	2	298.15	0.8299
18254	C9H20O	2-methyl-3-octanol	26533-34-6	0.26397	0.25140	609.21	0.28571	221.51	609.21	1,2	298.15	0.8249
18255	C9H20O	3-methyl-3-octanol	5340-36-3	0.26348	0.25123	618.98	0.28571	253.93	618.98	1,2	298.15	0.8279
18256	C9H20O	4-methyl-3-octanol	66793-80-4	0.26397	0.24491	611.68	0.28571	221.51	611.68	1,2	298.15	0.8440
18257	C9H20O	6-methyl-3-octanol	40225-75-0	0.26397	0.24915	611.68	0.28571	221.51	611.68	1,2	298.15	0.8321
18258	C9H20O	7-methyl-3-octanol	66793-84-8	0.26397	0.24991	611.68	0.28571	221.51	611.68	1,2	298.15	0.8300
18259	C9H20O	2-methyl-4-octanol	40575-41-5	0.26397	0.25511	609.21	0.28571	221.51	609.21	1,2	298.15	0.8150
18260	C9H20O	3-methyl-4-octanol	26533-35-7	0.26397	0.24942	603.88	0.28571	221.51	603.88	1,2	298.15	0.8280
18261	C9H20O	4-methyl-4-octanol	23418-37-3	0.26348	0.25114	608.26	0.28571	253.93	608.26	1,2	298.15	0.8237
18262	C9H20O	5-methyl-4-octanol	59734-23-5	0.26397	0.25428	606.35	0.28571	221.51	606.35	1,2	298.15	0.8160
18263	C9H20O	6-methyl-4-octanol	66793-82-6	0.26397	0.25277	606.35	0.28571	221.51	606.35	1,2	298.15	0.8200
18264	C9H20O	7-methyl-4-octanol	33933-77-6	0.26397	0.25656	606.35	0.28571	221.51	606.35	1,2	298.15	0.8100
18265	C9H20O	2-ethyl-1-heptanol	817-60-7	0.26110	0.24877	625.91	0.28571	236.51	625.91	2	298.15	0.8299
18266	C9H20O	3-ethyl-1-heptanol	3525-25-5	0.26110	0.24954	636.71	0.28571	236.51	636.71	1,2	298.15	0.8320
18267	C9H20O	5-ethyl-1-heptanol	998-65-2	0.26110	0.24241	625.91	0.28571	236.51	625.91	1,2	298.15	0.8480
18268	C9H20O	2,2-dimethyl-1-heptanol	14250-79-4	0.26348	0.25108	623.00	0.28571	253.93	623.00	2	298.15	0.8299
18269	C9H20O	4,6-dimethyl-1-heptanol	820-05-3	0.26397	0.24911	606.35	0.28571	221.51	606.35	2	298.15	0.8299
18270	C9H20O	6,6-dimethyl-1-heptanol	65769-10-0	0.26348	0.24542	609.40	0.28571	253.93	609.40	1,2	298.15	0.8400
18271	C9H20O	2-ethyl-2-heptanol	5340-36-3	0.26348	0.24903	609.40	0.28571	253.93	609.40	2	298.15	0.8299
18272	C9H20O	3-ethyl-2-heptanol	19780-39-3	0.26397	0.24911	606.35	0.28571	221.51	606.35	2	298.15	0.8299
18273	C9H20O	2,3-dimethyl-2-heptanol	66794-00-1	0.26640	0.25288	612.62	0.28571	238.93	612.62	2	298.15	0.8299
18274	C9H20O	2,4-dimethyl-2-heptanol	65822-93-7	0.26640	0.25359	612.62	0.28571	238.93	612.62	1,2	298.15	0.8280
18275	C9H20O	2,5-dimethyl-2-heptanol	---	0.26640	0.25359	612.62	0.28571	238.93	612.62	1,2	298.15	0.8280
18276	C9H20O	2,6-dimethyl-2-heptanol	13254-34-7	0.26640	0.25616	598.01	0.28571	238.93	598.01	1,2	298.15	0.8150
18277	C9H20O	4,6-dimethyl-2-heptanol	51079-52-8	0.26690	0.24504	625.72	0.28571	206.51	625.72	1,2	298.15	0.8590
18278	C9H20O	5,6-dimethyl-2-heptanol	58795-24-7	0.26690	0.25536	623.04	0.28571	206.51	623.04	1,2	298.15	0.8290
18279	C9H20O	3-ethyl-3-heptanol	19780-41-7	0.26348	0.24656	609.87	0.28571	253.93	609.87	1,2	298.15	0.8370
18280	C9H20O	2,2-dimethyl-3-heptanol	19549-70-3	0.26640	0.25424	607.23	0.28571	238.93	607.23	1,2	298.15	0.8240
18281	C9H20O	2,3-dimethyl-3-heptanol	19549-71-4	0.26640	0.25009	602.05	0.28571	238.93	602.05	1,2	298.15	0.8330
18282	C9H20O	2,6-dimethyl-3-heptanol	19549-73-6	0.26690	0.25634	600.27	0.28571	206.51	600.27	1,2	298.15	0.8170
18283	C9H20O	3,5-dimethyl-3-heptanol	19549-74-7	0.26640	0.25554	605.89	0.28571	238.93	605.89	1,2	298.15	0.8200
18284	C9H20O	3,6-dimethyl-3-heptanol	1573-28-0	0.26640	0.25516	605.89	0.28571	238.93	605.89	1,2	298.15	0.8210
18285	C9H20O	4-ethyl-4-heptanol	597-90-0	0.26348	0.24805	605.58	0.28571	253.93	605.58	1,2	298.15	0.8310
18286	C9H20O	2,2-dimethyl-4-heptanol	66793-99-5	0.26640	0.25122	602.05	0.28571	238.93	602.05	2	298.15	0.8299
18287	C9H20O	2,4-dimethyl-4-heptanol	19549-77-0	0.26640	0.25397	598.55	0.28571	238.93	598.55	1,2	298.15	0.8210
18288	C9H20O	2,6-dimethyl-4-heptanol	108-82-7	0.26810	0.26209	603.00	0.28570	208.00	603.00	1,2	298.15	0.8070
18289	C9H20O	3,3-dimethyl-4-heptanol	19549-78-1	0.26640	0.25165	604.74	0.28571	238.93	604.74	2	298.15	0.8299
18290	C9H20O	3,5-dimethyl-4-heptanol	19549-79-2	0.26690	0.24505	616.34	0.28571	206.51	616.34	1,2	298.15	0.8550
18291	C9H20O	2-propyl-1-hexanol	817-46-9	0.26110	0.24681	612.65	0.28571	236.51	612.65	2	298.15	0.8299
18292	C9H20O	3-propyl-1-hexanol	66793-85-9	0.26110	0.24681	612.65	0.28571	236.51	612.65	2	298.15	0.8299
18293	C9H20O	1-methyl-2-ethyl-1-hexanol	---	0.26397	0.25055	615.67	0.28571	221.51	615.67	2	298.15	0.8299
18294	C9H20O	1-methyl-3-ethyl-1-hexanol	---	0.26397	0.24543	619.87	0.28571	221.51	619.87	1,2	298.15	0.8460
18295	C9H20O	3-methyl-2-ethyl-1-hexanol	66794-04-5	0.26397	0.24915	621.00	0.28571	221.51	621.00	1,2	298.15	0.8360
18296	C9H20O	4-methyl-2-ethyl-1-hexanol	66794-06-7	0.26397	0.25358	623.87	0.28571	221.51	623.87	1,2	298.15	0.8250
18297	C9H20O	5-methyl-2-ethyl-1-hexanol	66794-07-8	0.26397	0.25464	621.00	0.28571	221.51	621.00	1,2	298.15	0.8210
18298	C9H20O	3,3,5-trimethyl-1-hexanol	1484-87-3	0.26640	0.25507	627.43	0.28571	238.93	627.43	2	298.15	0.8299
18299	C9H20O	3,4,4-trimethyl-1-hexanol	66793-73-5	0.26640	0.25472	624.94	0.28571	238.93	624.94	2	298.15	0.8299
18300	C9H20O	3,5,5-trimethyl-1-hexanol	3452-97-9	0.26640	0.25732	627.63	0.28571	238.93	627.63	1,2	298.15	0.8240
18301	C9H20O	4,5,5-trimethyl-1-hexanol	66793-75-7	0.26640	0.25679	639.75	0.28571	238.93	639.75	2	298.15	0.8300
18302	C9H20O	2-methyl-3-ethyl-2-hexanol	66794-02-3	0.26640	0.25080	607.43	0.28571	238.93	607.43	1,2	298.15	0.8334
18303	C9H20O	2,3,4-trimethyl-2-hexanol	21102-13-6	0.26939	0.26011	630.85	0.28571	223.93	630.85	1,2	298.15	0.8270
18304	C9H20O	2,4,4-trimethyl-2-hexanol	66793-91-7	0.26889	0.25376	634.35	0.28571	256.35	634.35	1,2	298.15	0.8440
18305	C9H20O	2,4,5-trimethyl-2-hexanol	66793-93-9	0.26939	0.25974	630.85	0.28571	223.93	630.85	1,2	298.15	0.8280
18306	C9H20O	2,5,5-trimethyl-2-hexanol	66793-71-3	0.26889	0.25891	634.35	0.28571	256.35	634.35	2	298.15	0.8300
18307	C9H20O	2-methyl-3-ethyl-3-hexanol	66794-03-4	0.26640	0.24807	615.65	0.28571	238.93	615.65	1,2	298.15	0.8445
18308	C9H20O	2-methyl-4-ethyl-3-hexanol	33943-21-4	0.26690	0.25453	605.43	0.28571	206.51	605.43	1,2	298.15	0.8240
18309	C9H20O	3-methyl-4-ethyl-3-hexanol	66794-05-6	0.26640	0.22884	608.58	0.28571	238.93	608.58	1,2	298.15	0.8994
18310	C9H20O	4-methyl-3-ethyl-3-hexanol	51200-80-7	0.26640	0.24401	608.58	0.28571	238.93	608.58	1,2	298.15	0.8530
18311	C9H20O	5-methyl-3-ethyl-3-hexanol	597-77-3	0.26640	0.24820	599.36	0.28571	238.93	599.36	1,2	298.15	0.8370
18312	C9H20O	2,2,3-trimethyl-3-hexanol	5340-41-0	0.26889	0.25051	607.47	0.28571	256.35	607.47	1,2	298.15	0.8420
18313	C9H20O	2,2,4-trimethyl-3-hexanol	66793-89-3	0.26939	0.25407	598.56	0.28571	223.93	598.56	2	298.15	0.8299
18314	C9H20O	2,2,5-trimethyl-3-hexanol	3970-60-3	0.26939	0.26978	586.38	0.28571	290.15	586.38	1,2	298.15	0.7850
18315	C9H20O	2,3,4-trimethyl-3-hexanol	66793-90-6	0.26939	0.25336	594.30	0.28571	223.93	594.30	2	298.15	0.8299
18316	C9H20O	2,3,5-trimethyl-3-hexanol	65927-60-8	0.26939	0.25559	594.30	0.28571	223.93	594.30	1,2	298.15	0.8240
18317	C9H20O	2,4,4-trimethyl-3-hexanol	66793-92-8	0.26939	0.24900	601.27	0.28571	223.93	601.27	1,2	298.15	0.8450
18318	C9H20O	2,5,5-trimethyl-3-hexanol	66793-72-4	0.26939	0.25741	598.36	0.28571	223.93	598.36	1,2	298.15	0.8210

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
18319	C9H20O	3,4,4-trimethyl-3-hexanol	66793-74-6	0.26889	0.25371	597.80	0.28571	296.65	597.80	1,2	298.15	0.8290
18320	C9H20O	3,5,5-trimethyl-3-hexanol	66810-87-5	0.26889	0.25294	597.60	0.28571	256.35	597.60	1,2	298.15	0.8310
18321	C9H20O	4-methyl-2-propyl-1-pentanol	54004-41-0	0.27142	0.26294	620.94	0.28571	222.88	620.94	1,2	298.15	0.8220
18322	C9H20O	4-methyl-2-isopropyl-1-pentanol	55505-24-3	0.25969	0.24559	615.26	0.28571	205.14	615.26	2	298.15	0.8299
18323	C9H20O	2,2-dimethyl-3-ethyl-1-pentanol	66793-95-1	0.26640	0.25409	620.70	0.28571	238.93	620.70	2	298.15	0.8299
18324	C9H20O	2,4-dimethyl-2-ethyl-1-pentanol	66793-98-4	0.26640	0.25154	620.90	0.28571	238.93	620.90	1,2	298.15	0.8370
18325	C9H20O	3,3-diethyl-2-pentanol	66793-94-0	0.26640	0.25409	620.70	0.28571	238.93	620.70	2	298.15	0.8299
18326	C9H20O	2,3-dimethyl-3-ethyl-2-pentanol	66793-97-3	0.26889	0.25795	627.54	0.28571	256.35	627.54	2	298.15	0.8300
18327	C9H20O	4,4-dimethyl-3-ethyl-2-pentanol	21102-09-0	0.26939	0.25803	624.08	0.28571	223.93	624.08	2	298.15	0.8299
18328	C9H20O	2,3,3,4-tetramethyl-2-pentanol	66793-86-0	0.27193	0.26039	620.23	0.28571	241.35	620.23	2	298.15	0.8299
18329	C9H20O	2,3,4,4-tetramethyl-2-pentanol	66793-87-1	0.27193	0.26039	620.23	0.28571	241.35	620.23	2	298.15	0.8299
18330	C9H20O	3,3,4,4-tetramethyl-2-pentanol	66793-88-2	0.27193	0.26042	620.44	0.28571	323.15	620.44	2	453.15	0.6859
18331	C9H20O	2-methyl-3-isopropyl-3-pentanol	---	0.26205	0.23832	609.60	0.28571	222.56	609.60	1,2	298.15	0.8560
18332	C9H20O	2,2-dimethyl-3-ethyl-3-pentanol	66793-96-2	0.26889	0.24693	608.69	0.28571	254.15	608.69	1,2	298.15	0.8526
18333	C9H20O	2,4-dimethyl-3-ethyl-3-pentanol	3970-59-0	0.26939	0.24719	610.61	0.28571	257.15	610.61	1,2	298.15	0.8543
18334	C9H20O	2,2,3,4-tetramethyl-3-pentanol	62185-29-9	0.27193	0.25101	612.50	0.28571	285.95	612.50	1,2	298.15	0.8523
18335	C9H20O	2,2,4,4-tetramethyl-3-pentanol	14609-79-1	0.27193	0.25766	602.64	0.28571	323.15	602.64	2	440.15	0.6909
18336	C9H20O	ethyl heptyl ether	1969-43-3	0.26652	0.26833	592.67	0.28571	204.85	592.67	1,2	298.15	0.7827
18339	C9H20O2	1,2-nonanediol	42789-13-9	0.28041	0.26863	684.73	0.28571	297.33	684.73	2	298.15	0.8563
18340	C9H20O2	1,3-nonanediol	23433-07-0	0.28041	0.27020	698.70	0.28571	297.33	698.70	2	298.15	0.8562
18341	C9H20O2	1,4-nonanediol	2430-73-1	0.28041	0.27298	725.37	0.28571	297.33	725.37	2	298.15	0.8561
18342	C9H20O2	1,9-nonanediol	3937-56-2	0.27750	0.26776	706.66	0.28571	318.15	706.66	2	558.15	0.6452
18343	C9H20O2	2-butyl-2-ethyl-1,3-propanediol	115-84-4	0.27969	0.23972	703.86	0.28571	316.95	703.86	1,2	535.15	0.7230
18347	C9H20O2	heptyloxyethanol	7409-44-1	0.29637	0.28291	654.00	0.28571	320.00	654.00	2	520.68	0.6606
18348	C9H20O2	2-(1-ethylamyloxy)ethanol	10138-47-3	0.29637	0.28291	654.00	0.28571	320.00	654.00	2	520.68	0.6606
18349	C9H20O2	2-ethylbutoxypropanol, mixed isomers	63716-41-6	0.29637	0.28291	654.00	0.28571	320.00	654.00	2	520.68	0.6606
18365	C9H20S	nonyl mercaptan	1455-21-6	0.28080	0.27033	681.00	0.30570	253.05	681.00	1,2	298.15	0.8410
18366	C9H20S	2-nonanethiol	13281-11-3	0.27547	0.26995	672.00	0.28571	204.15	672.00	1,2	298.15	0.8338
18367	C9H20S	methyl octyl sulfide	3698-95-1	0.27010	0.26255	681.56	0.28571	231.16	681.56	1,2	298.15	0.8400
18368	C9H20S	ethyl heptyl sulfide	24768-44-3	0.27010	0.26255	681.56	0.28571	231.16	681.56	1,2	298.15	0.8400
18369	C9H20S	propyl hexyl sulfide	24768-43-2	0.27010	0.26255	681.56	0.28571	231.16	681.56	1,2	298.15	0.8400
18370	C9H20S	butyl pentyl sulfide	24768-42-1	0.27010	0.26255	681.56	0.28571	231.16	681.56	1,2	298.15	0.8400
18371	C9H20S	tert-nonyl mercaptan, isomers	25360-10-5	0.27814	0.26522	676.50	0.28571	228.60	676.50	1,2	298.15	0.8560
18388	C9H21N	nonylamine	112-20-9	0.24830	0.25342	648.00	0.28571	273.15	648.00	1,2	298.15	0.7850
18389	C9H21N	methyloctylamine	2439-54-5	0.25358	0.26237	630.60	0.28571	260.15	630.60	1,2	298.15	0.7728
18390	C9H21N	ethylheptylamine	66793-76-8	0.25358	0.26337	622.20	0.28571	243.35	622.20	1,2	298.15	0.7674
18391	C9H21N	dimethylheptylamine	5277-11-2	0.25358	0.27022	630.70	0.28571	223.16	630.70	1,2	298.15	0.7541
18392	C9H21N	diethylpentylamine	2162-91-6	0.24809	0.25428	595.41	0.28571	223.16	595.41	1,2	298.15	0.7625
18393	C9H21N	tripropylamine	102-69-2	0.24870	0.26577	577.50	0.24500	179.65	577.50	1,2	298.15	0.7540
18394	C9H21N	tert-amyl-tert-butylamine	2085-66-7	0.25097	0.25833	617.40	0.28571	251.75	617.40	1,2	298.15	0.7700
18395	C9H21N	N-methyldibutylamine	3405-45-6	0.25097	0.26539	617.40	0.28571	211.25	617.40	1,2	298.15	0.7530
18396	C9H21NO	5-diethylamino-2-pentanol	5412-69-1	0.28595	0.28097	760.00	0.28571	330.00	760.00	1,2	476.65	0.7451
18423	C9H22N2	N1,N1-diethyl-1,4-pentanediamine	140-80-7	0.26496	0.27361	741.00	0.28571	310.65	741.00	1,2	474.15	0.6976
18424	C9H22N2	N,N,N',N'-tetraethylmethanediamine	102-53-4	0.26496	0.27915	741.00	0.28571	310.65	741.00	1,2	438.95	0.7112
18425	C9H22N2	1,9-diaminononane	646-24-2	0.26496	0.27016	741.00	0.28571	310.65	741.00	2	531.65	0.6596
18426	C9H22N2	N,N'-diisopropyl-1,3-propanediamine	63737-71-3	0.26496	0.27601	741.00	0.28571	310.65	741.00	1,2	487.48	0.6834
18427	C9H22N2	2,2,4(2,4,4)-trimethyl-1,6-hexanediamine	25620-58-0	0.26496	0.25328	741.00	0.28571	310.65	741.00	1,2	505.15	0.7132
18598	C10H6O8	pyromellitic acid	89-05-4	0.43520	0.23750	893.00	0.28571	554.00	893.00	2	722.00	1.0666
18601	C10H7Br	1-bromonaphthalene	90-11-9	0.45710	0.26064	824.00	0.30299	279.35	824.00	1,2	298.15	1.4780
18606	C10H7Cl	1-chloronaphthalene	90-13-1	0.37470	0.26600	785.00	0.31459	269.15	785.00	1,2	298.15	1.1710
18607	C10H7Cl	2-chloronaphthalene	91-58-7	0.37470	0.26991	785.00	0.28571	331.15	785.00	1,2	529.15	0.9696
18608	C10H7Cl	monochloronaphthalene	25586-43-0	0.37470	0.25843	785.00	0.28571	300.15	785.00	1,2	532.15	0.9973
18669	C10H8	naphthalene	91-20-3	0.31030	0.22416	748.35	0.27300	353.43	748.35	1,2	491.14	0.9484
18670	C10H8	azulene	275-51-4	0.31300	0.24802	773.48	0.28571	373.00	773.48	1,2	515.16	0.8673
18849	C10H9N	2-methylquinoline	91-63-4	0.29220	0.22863	773.00	0.28571	272.15	773.00	1,2	298.15	1.0550
18850	C10H9N	3-methylquinoline	612-58-8	0.31230	0.24440	770.99	0.28571	337.15	770.99	1,2	525.45	0.8626
18851	C10H9N	4-methylquinoline	491-35-0	0.31230	0.24237	790.59	0.28571	282.15	790.59	1,2	298.15	1.0770
18852	C10H9N	5-methylquinoline	7661-55-4	0.31230	0.24116	782.28	0.28571	292.15	782.28	1,2	298.15	1.0793
18853	C10H9N	6-methylquinoline	91-62-3	0.31230	0.24633	789.75	0.28571	305.55	789.75	1,2	538.24	0.8578
18854	C10H9N	7-methylquinoline	612-60-2	0.31230	0.24671	778.95	0.28571	311.15	778.95	1,2	530.88	0.8568
18855	C10H9N	8-methylquinoline	611-32-5	0.31230	0.24269	764.56	0.28571	246.50	764.56	1,2	298.15	1.0679
18856	C10H9N	1-methylisoquinoline	1721-93-3	0.30943	0.23974	778.59	0.28571	283.15	778.59	1,2	298.15	1.0737
18857	C10H9N	3-methylisoquinoline	1125-80-0	0.30943	0.24439	778.59	0.28571	341.15	778.59	2	522.15	0.8632
18858	C10H9N	4-methylisoquinoline	1196-39-0	0.30943	0.24439	778.59	0.28571	318.90	778.59	2	529.15	0.8562
18859	C10H9N	6-methylisoquinoline	42398-73-2	0.30943	0.24439	778.59	0.28571	358.65	778.59	2	538.65	0.8467
18860	C10H9N	8-methylisoquinoline	62882-00-2	0.30943	0.24439	778.59	0.28571	478.15	778.59	2	531.15	0.8542
18958	C10H10	m-divinylbenzene	108-57-6	0.29590	0.25873	692.00	0.30295	206.25	692.00	1,2	298.15	0.9250
18963	C10H10	1-methylindene	767-59-9	0.29590	0.26319	703.00	0.21234	353.15	703.00	1,2	471.65	0.8492
18964	C10H10	2-methylindene	2177-47-1	0.30350	0.26253	684.00	0.23950	353.15	684.00	1,2	458.00	0.8466
18965	C10H10	3-methyl-1H-indene	767-60-2	0.29970	0.25120	693.50	0.28571	353.15	693.50	1,2	471.15	0.8132
18966	C10H10	4-methyl-1H-indene	7344-34-5	0.29970	0.24614	693.50	0.28571	353.15	693.50	1,2	482.15	0.8133
18967	C10H10	6-methyl-1H-indene	20232-11-5	0.29970	0.24969	693.50	0.28571	353.15	693.50	1,2	480.15	0.8072
18968	C10H10	7-methyl-1H-indene	7372-92-1	0.29970	0.24614	693.50	0.28571	353.15	693.50	1,2	482.15	0.8133
19195	C10H10O4	dimethyl phthalate	131-11-3	0.36640	0.25420	766.00	0.30720	272.15	766.00	1,2	298.15	1.1890
19196	C10H10O4	dimethyl terephthalate	120-61-6	0.36710	0.26890	772.00	0.26120	413.80	772.00	1,2	561.15	0.9358
19358	C10H12	1,3-dicyclopentadiene	77-73-6	0.29710	0.26627	660.00	0.28570	307.00	660.00	2	443.00	0.7783
19359	C10H12	1,2,3,4-tetrahydronaphthalene	119-64-2	0.29980	0.25893	720.15	0.26770	237.40	720.15	1,2	298.15	0.9670
19360	C10H12	cis-(1-butenyl)benzene	1560-09-4	0.28279	0.25304	678.55	0.28571	232.31	678.55	1,2	298.15	0.9064
19361	C10H12	trans-(1-butenyl)benzene	1005-64-7	0.28279	0.25749	692.76	0.28571	230.15	692.76	1,2	298.15	0.8978
19362	C10H12	cis-(1-methyl-1-propenyl)benzene	767-99-7	0.28219	0.25517	660.85	0.28571	232.31	660.85	1,2	298.15	0.8918

Table 3 Density of Liquid - Organic Compounds

			density = A B^-(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
19363	C10H12	trans-(1-methyl-1-propenyl)benzene	768-00-3	0.28219	0.25143	691.44	0.28571	249.65	691.44	1,2	298.15	0.9138
19364	C10H12	(2-methyl-1-propenyl)benzene	768-49-0	0.28219	0.25622	681.41	0.28571	222.05	681.41	1,2	298.15	0.8959
19365	C10H12	cis-1-methyl-2-(1-propenyl)benzene	2077-33-0	0.28279	0.25630	682.61	0.28571	232.31	682.61	1,2	298.15	0.8980
19366	C10H12	cis-1-methyl-3-(1-propenyl)benzene	2077-31-8	0.28279	0.25867	682.61	0.28571	232.31	682.61	1,2	298.15	0.8910
19367	C10H12	cis-1-methyl-4-(1-propenyl)benzene	2077-29-4	0.28279	0.26112	687.86	0.28571	232.31	687.86	1,2	298.15	0.8856
19368	C10H12	trans-1-methyl-4-(1-propenyl)benzene	2077-30-7	0.28279	0.25638	695.19	0.28571	255.15	695.19	1,2	298.15	0.9019
19369	C10H12	1-methyl-2-(1-methylethenyl)benzene	7399-49-7	0.25158	0.22292	647.11	0.28571	232.31	647.11	1,2	298.15	0.8853
19370	C10H12	1-methyl-3-(1-methylethenyl)benzene	1124-20-5	0.25158	0.22053	665.71	0.28571	232.31	665.71	1,2	298.15	0.9010
19371	C10H12	1-methyl-4-(1-methylethenyl)benzene	1195-32-0	0.25158	0.22219	667.16	0.28571	204.85	667.16	1,2	298.15	0.8959
19372	C10H12	o-ethylstyrene	7564-63-8	0.28219	0.25329	672.78	0.28571	197.65	672.78	1,2	298.15	0.9017
19373	C10H12	m-ethylstyrene	7525-62-4	0.28219	0.25756	676.81	0.28571	172.15	676.81	1,2	298.15	0.8904
19374	C10H12	p-ethylstyrene	3454-07-7	0.28219	0.25863	680.10	0.28571	223.45	680.10	1,2	298.15	0.8884
19375	C10H12	1-ethenyl-2,4-dimethylbenzene	2234-20-0	0.28219	0.25586	693.48	0.28571	208.85	693.48	1,2	298.15	0.9010
19376	C10H12	1-ethenyl-3,5-dimethylbenzene	5379-20-4	0.28219	0.25663	679.34	0.28571	212.95	679.34	1,2	298.15	0.8940
19377	C10H12	2-ethenyl-1,3-dimethylbenzene	2039-90-9	0.28219	0.25428	679.34	0.28571	234.55	679.34	1,2	298.15	0.9010
19378	C10H12	2-ethenyl-1,4-dimethylbenzene	2039-89-6	0.28219	0.25405	680.23	0.28571	237.75	680.23	1,2	298.15	0.9020
19379	C10H12	4-ethenyl-1,2-dimethylbenzene	27831-13-6	0.28219	0.25263	679.34	0.28571	232.75	679.34	1,2	298.15	0.9060
19380	C10H12	2,3-dimethylstyrene	40243-75-2	0.28219	0.25277	679.34	0.28571	232.31	679.34	2	298.15	0.9056
19381	C10H12	3,4-dimethylstyrene	---	0.28219	0.25263	679.34	0.28571	232.31	679.34	1,2	298.15	0.9060
19382	C10H12	2,6-dimethylstyrene	2039-90-9	0.28219	0.25428	679.34	0.28571	232.31	679.34	1,2	298.15	0.9010
19383	C10H12	3,5-dimethylstyrene	80648-26-6	0.28219	0.25663	679.34	0.28571	232.31	679.34	1,2	298.15	0.8940
19384	C10H12	2-butenylbenzene	1560-06-1	0.28292	0.26282	682.45	0.28571	232.01	682.45	1,2	298.15	0.8794
19385	C10H12	3-butenylbenzene	768-56-9	0.28292	0.26282	682.45	0.28571	203.15	682.45	1,2	298.15	0.8794
19386	C10H12	1-methyl-2-allylbenzene	1587-04-8	0.28292	0.25686	682.45	0.28571	232.01	682.45	1,2	298.15	0.8967
19387	C10H12	(1-methylenepropyl)benzene	2039-93-2	0.28585	0.26204	671.26	0.28571	232.31	671.26	1,2	298.15	0.8870
19397	C10H12	trans-1-butenylbenzene	824-90-8	0.28292	0.25389	682.45	0.28571	230.15	682.45	2	298.15	0.9056
19398	C10H12	a,2-dimethylstyrene	26444-18-8	0.27607	0.24968	675.92	0.28571	221.25	675.92	1,2	298.15	0.8940
19484	C10H12O	anethole	104-46-1	0.30750	0.25644	723.00	0.29525	294.50	723.00	1,2	298.15	0.9840
19675	C10H12O4	diallyl maleate	999-21-3	0.32380	0.24488	693.00	0.28571	226.15	693.00	1,2	298.15	1.0730
19865	C10H14	butylbenzene	104-51-8	0.27010	0.25277	660.55	0.28960	185.30	660.55	1,2	298.15	0.8580
19866	C10H14	isobutylbenzene	538-93-2	0.29430	0.27493	650.15	0.32244	221.70	650.15	1,2	298.15	0.8490
19867	C10H14	sec-butylbenzene	135-98-8	0.27010	0.25407	664.54	0.28570	197.72	664.54	1,2	298.15	0.8580
19868	C10H14	tert-butylbenzene	98-06-6	0.27280	0.25476	660.00	0.28570	215.27	660.00	1,2	298.15	0.8630
19869	C10H14	cymene	25155-15-1	0.27564	0.25799	664.65	0.28571	205.25	664.65	2	298.15	0.8644
19870	C10H14	m-cymene	535-77-3	0.27670	0.25907	657.00	0.29420	209.44	657.00	1,2	298.15	0.8570
19871	C10H14	o-cymene	527-84-4	0.27450	0.25293	662.00	0.28800	201.64	662.00	1,2	298.15	0.8730
19872	C10H14	p-cymene	99-87-6	0.27280	0.25742	653.15	0.28750	205.25	653.15	1,2	298.15	0.8520
19873	C10H14	1-methyl-2-propylbenzene	1074-17-5	0.27847	0.25876	660.70	0.28571	212.85	660.70	1,2	298.15	0.8697
19874	C10H14	1-methyl-3-propylbenzene	1074-43-7	0.27847	0.26281	656.40	0.28571	190.57	656.40	1,2	298.15	0.8569
19875	C10H14	1-methyl-4-propylbenzene	1074-55-1	0.27847	0.26399	658.50	0.28571	212.46	658.50	1,2	298.15	0.8544
19876	C10H14	(S)-(1-methylpropyl)benzene	5787-28-0	0.27564	0.25799	664.65	0.28571	221.44	664.65	2	298.15	0.8644
19877	C10H14	diethylbenzene	25340-17-4	0.27564	0.25637	664.65	0.28571	221.44	664.65	1,2	298.15	0.8690
19878	C10H14	o-diethylbenzene	135-01-3	0.26740	0.24538	668.00	0.28570	241.93	668.00	1,2	298.15	0.8760
19879	C10H14	m-diethylbenzene	141-93-5	0.27500	0.25864	663.00	0.28571	189.26	663.00	1,2	298.15	0.8600
19880	C10H14	p-diethylbenzene	105-05-5	0.27010	0.25326	657.96	0.28571	230.32	657.96	1,2	298.15	0.8580
19881	C10H14	3-ethyl-o-xylene	933-98-2	0.26470	0.24012	680.00	0.28485	223.64	680.00	1,2	298.15	0.8880
19882	C10H14	4-ethyl-o-xylene	934-80-5	0.27390	0.25405	667.00	0.28571	206.22	667.00	1,2	298.15	0.8710
19883	C10H14	2-ethyl-m-xylene	2870-04-4	0.27850	0.25325	671.00	0.29133	256.89	671.00	1,2	298.15	0.8860
19884	C10H14	4-ethyl-m-xylene	874-41-9	0.27850	0.25651	665.00	0.29537	210.27	665.00	1,2	298.15	0.8720
19885	C10H14	5-ethyl-m-xylene	934-74-7	0.27850	0.25929	655.00	0.29461	188.82	655.00	1,2	298.15	0.8610
19886	C10H14	2-ethyl-p-xylene	1758-88-9	0.27850	0.25636	663.00	0.29320	219.52	663.00	1,2	298.15	0.8730
19887	C10H14	1,2,3,4-tetramethylbenzene	488-23-3	0.27530	0.24871	695.10	0.28571	266.91	695.10	1,2	298.15	0.9010
19888	C10H14	1,2,3,5-tetramethylbenzene	527-53-7	0.27850	0.25499	679.00	0.28571	249.46	679.00	1,2	298.15	0.8870
19889	C10H14	1,2,4,5-tetramethylbenzene	95-93-2	0.27850	0.25607	675.15	0.28571	352.38	675.15	1,2	469.99	0.7342
19982	C10H14O	3-butylphenol	4074-43-5	0.35640	0.31331	742.23	0.28571	342.75	742.23	1,2	520.15	0.8109
19983	C10H14O	4-butylphenol	1638-22-8	0.35640	0.31228	743.65	0.28571	295.15	743.65	1,2	298.15	0.9740
19984	C10H14O	2-isobutylphenol	4167-75-3	0.36154	0.31914	733.00	0.28571	294.15	733.00	2	298.15	0.9670
19985	C10H14O	3-isobutylphenol	30749-25-8	0.36154	0.31914	733.00	0.28571	327.75	733.00	2	510.00	0.8151
19986	C10H14O	4-isobutylphenol	4167-74-2	0.36154	0.31627	733.21	0.28571	324.15	733.21	1,2	510.15	0.8204
19987	C10H14O	2-sec-butylphenol	89-72-5	0.36154	0.31282	720.28	0.28571	289.15	720.28	1,2	298.15	0.9804
19988	C10H14O	3-sec-butylphenol	3522-86-9	0.36154	0.31914	733.00	0.28571	327.75	733.00	2	510.00	0.8151
19989	C10H14O	4-sec-butylphenol	99-71-8	0.36154	0.31391	740.54	0.28571	332.15	740.54	1,2	515.25	0.8247
19990	C10H14O	2-tert-butylphenol	88-18-6	0.36595	0.31979	725.38	0.28571	267.53	725.38	1,2	298.15	0.9751
19991	C10H14O	3-tert-butylphenol	585-34-2	0.36595	0.32511	748.61	0.28571	314.15	748.61	2	513.15	0.8205
19992	C10H14O	4-tert-butylphenol	98-54-4	0.36595	0.33599	748.21	0.28570	371.56	748.21	1,2	512.88	0.8013
19993	C10H14O	2-methyl-3-propylphenol	66142-78-7	0.35640	0.31397	733.95	0.28571	326.38	733.95	2	515.00	0.8091
19994	C10H14O	2-methyl-4-propylphenol	18441-56-0	0.35640	0.31400	734.16	0.28571	316.15	734.16	2	515.15	0.8091
19995	C10H14O	2-methyl-5-propylphenol	499-75-2	0.35640	0.31397	733.95	0.28571	326.38	733.95	2	515.00	0.8091
19996	C10H14O	2-methyl-6-propylphenol	---	0.35640	0.31397	733.95	0.28571	326.38	733.95	2	515.00	0.8091
19997	C10H14O	3-methyl-2-propylphenol	3228-01-1	0.35640	0.31656	762.45	0.28571	326.38	762.45	2	535.00	0.8045
19998	C10H14O	3-methyl-4-propylphenol	30388-40-0	0.35640	0.31656	762.45	0.28571	289.15	762.45	2	298.15	0.9671
19999	C10H14O	3-methyl-5-propylphenol	36186-96-6	0.35640	0.31608	756.97	0.28571	284.15	756.97	2	298.15	0.9671
20000	C10H14O	4-methyl-2-propylphenol	4074-46-8	0.35640	0.31809	780.80	0.28571	326.38	780.80	2	547.87	0.8017
20001	C10H14O	4-methyl-3-propylphenol	---	0.35640	0.31809	780.80	0.28571	326.38	780.80	2	547.87	0.8017
20002	C10H14O	5-methyl-2-propylphenol	89-83-8	0.35640	0.31809	780.80	0.28571	326.38	780.80	2	547.87	0.8017
20003	C10H14O	2-methyl-3-isopropylphenol	4371-48-6	0.36154	0.32376	785.78	0.28571	311.38	785.78	2	547.43	0.8063
20004	C10H14O	2-methyl-4-isopropylphenol	1740-97-2	0.36154	0.31918	785.78	0.28571	281.75	785.78	1,2	298.15	0.9793
20005	C10H14O	2-methyl-5-isopropylphenol	499-75-2	0.36154	0.31604	732.26	0.28571	273.65	732.26	1,2	298.15	0.9750
20006	C10H14O	2-methyl-6-isopropylphenol	3228-04-4	0.36154	0.31618	746.40	0.28571	258.65	746.40	1,2	298.15	0.9782
20007	C10H14O	3-methyl-2-isopropylphenol	3228-01-1	0.36154	0.31780	719.35	0.28571	342.15	719.35	2	501.15	0.8170

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
20008	C10H14O	3-methyl-4-isopropylphenol	3228-02-2	0.36154	0.31905	732.05	0.28571	385.15	732.05	2	510.00	0.8147
20009	C10H14O	3-methyl-5-isopropylphenol	3228-03-3	0.36154	0.31962	738.01	0.28571	322.15	738.01	2	514.15	0.8137
20010	C10H14O	4-methyl-2-isopropylphenol	4427-56-9	0.36154	0.31006	719.35	0.28571	308.15	719.35	1,2	501.15	0.8314
20011	C10H14O	5-methyl-2-isopropylphenol	89-83-8	0.36154	0.31729	725.81	0.28571	322.85	725.81	1,2	505.65	0.8179
20012	C10H14O	2,3-diethylphenol	---	0.35640	0.31258	719.70	0.28571	326.38	719.70	2	505.00	0.8117
20013	C10H14O	2,4-diethylphenol	936-89-0	0.35640	0.31202	714.21	0.28571	326.38	714.21	2	501.15	0.8127
20014	C10H14O	2,5-diethylphenol	876-20-0	0.35640	0.31186	712.57	0.28571	326.38	712.57	2	500.00	0.8130
20015	C10H14O	2,6-diethylphenol	1006-59-3	0.35640	0.31052	699.96	0.28571	310.65	699.96	2	491.15	0.8155
20016	C10H14O	3,4-diethylphenol	875-85-4	0.35640	0.31809	780.80	0.28571	326.38	780.80	2	547.87	0.8017
20017	C10H14O	3,5-diethylphenol	1197-34-8	0.35640	0.31480	742.72	0.28571	349.15	742.72	2	521.15	0.8077
20018	C10H14O	2,3-dimethyl-4-ethylphenol	---	0.35640	0.31320	725.91	0.28571	310.01	725.91	2	510.00	0.8100
20019	C10H14O	2,3-dimethyl-5-ethylphenol	---	0.35640	0.31320	725.91	0.28571	310.01	725.91	2	510.00	0.8100
20020	C10H14O	2,3-dimethyl-6-ethylphenol	---	0.35640	0.31320	725.91	0.28571	326.15	725.91	2	510.00	0.8100
20021	C10H14O	2,4-dimethyl-3-ethylphenol	62126-74-3	0.35640	0.31389	733.03	0.28571	343.15	733.03	2	515.00	0.8087
20022	C10H14O	2,4-dimethyl-5-ethylphenol	18441-55-9	0.35640	0.31391	733.24	0.28571	312.15	733.24	2	515.15	0.8087
20023	C10H14O	2,4-dimethyl-6-ethylphenol	2219-79-6	0.35640	0.31179	711.89	0.28571	310.01	711.89	2	500.15	0.8126
20024	C10H14O	2,5-dimethyl-3-ethylphenol	---	0.35640	0.31176	711.68	0.28571	310.01	711.68	2	500.00	0.8126
20025	C10H14O	2,5-dimethyl-4-ethylphenol	32018-76-1	0.35640	0.31176	711.68	0.28571	312.15	711.68	2	500.00	0.8126
20026	C10H14O	2,5-dimethyl-6-ethylphenol	---	0.35640	0.31176	711.68	0.28571	310.01	711.68	2	500.00	0.8126
20027	C10H14O	2,6-dimethyl-3-ethylphenol	---	0.35640	0.31176	711.68	0.28571	310.01	711.68	2	500.00	0.8126
20028	C10H14O	2,6-dimethyl-4-ethylphenol	10570-69-1	0.35640	0.31193	713.32	0.28571	309.15	713.32	2	501.15	0.8123
20029	C10H14O	3,4-dimethyl-2-ethylphenol	---	0.35640	0.31389	733.03	0.28571	310.01	733.03	2	515.00	0.8087
20030	C10H14O	3,4-dimethyl-5-ethylphenol	62126-75-4	0.35640	0.31391	733.24	0.28571	351.15	733.24	2	515.15	0.8087
20031	C10H14O	3,4-dimethyl-6-ethylphenol	2219-78-5	0.35640	0.31389	733.03	0.28571	324.15	733.03	2	515.00	0.8087
20032	C10H14O	3,5-dimethyl-2-ethylphenol	62126-76-5	0.35640	0.31648	761.50	0.28571	353.15	761.50	2	535.00	0.8041
20033	C10H14O	3,5-dimethyl-4-ethylphenol	62126-77-6	0.35640	0.31612	757.44	0.28571	363.65	757.44	2	532.15	0.8047
20034	C10H14O	2,3,4,5-tetramethylphenol	488-70-0	0.35640	0.31617	757.92	0.28571	355.15	757.92	2	533.15	0.8041
20035	C10H14O	2,3,4,6-tetramethylphenol	3238-38-8	0.35640	0.31489	743.70	0.28571	353.15	743.70	2	523.15	0.8064
20036	C10H14O	2,3,5,6-tetramethylphenol	527-35-5	0.35640	0.31463	740.86	0.28571	390.15	740.86	2	521.15	0.8068
20037	C10H14O	2-butylphenol	3180-09-4	0.35640	0.31019	713.69	0.28571	253.15	713.69	1,2	298.15	0.9717
20089	C10H14O2	p-tert-butylcatechol	98-29-3	0.32530	0.26569	776.00	0.28570	325.00	776.00	2	558.00	0.8181
20178	C10H14S	4-tert-butylthiophenol	2396-68-1	0.31693	0.27053	755.00	0.28571	262.25	755.00	2	298.15	0.9836
20179	C10H14S	2,4,6-trimethylbenzyl mercaptan	21411-42-7	0.31693	0.27053	755.00	0.28571	320.15	755.00	2	511.15	0.8167
20195	C10H15N	N,N-dietyhlaniline	91-66-7	0.26840	0.23748	702.00	0.26203	235.15	702.00	1,2	298.15	0.9310
20196	C10H15N	2,6-diethylaniline	579-66-8	0.30150	0.27441	678.00	0.28571	276.65	678.00	1,2	298.15	0.9020
20197	C10H15N	2-sec-butylaniline	55751-54-7	0.28495	0.24186	690.00	0.28571	274.23	690.00	1,2	298.15	0.9532
20198	C10H15N	2-tert-butylaniline	6310-21-0	0.28495	0.23741	690.00	0.28571	274.23	690.00	1,2	298.15	0.9684
20199	C10H15N	4-butylaniline	104-13-2	0.28495	0.24558	690.00	0.28571	274.23	690.00	1,2	298.15	0.9409
20200	C10H15N	4-sec-butylaniline	30273-11-1	0.28495	0.24560	690.00	0.28571	274.23	690.00	1,2	298.15	0.9408
20201	C10H15N	4-tert-butylaniline	769-92-6	0.28495	0.24455	690.00	0.28571	290.15	690.00	1,2	298.15	0.9443
20202	C10H15N	N-sec-butylaniline	6068-69-5	0.28495	0.25037	690.00	0.28571	274.23	690.00	2	298.15	0.9256
20203	C10H15N	N-tert-butylaniline	937-33-7	0.28495	0.25037	690.00	0.28571	274.23	690.00	2	298.15	0.9256
20204	C10H15N	N-butylaniline	1126-78-9	0.28495	0.24950	690.00	0.28571	258.75	690.00	1,2	298.15	0.9283
20205	C10H15N	4-isobutylaniline	30090-17-6	0.28495	0.24560	690.00	0.28571	274.23	690.00	1,2	298.15	0.9408
20206	C10H15N	N-isobutylaniline	588-47-6	0.28495	0.24761	690.00	0.28571	274.23	690.00	1,2	298.15	0.9344
20207	C10H15N	4-methyl-N-isopropylaniline	10436-75-6	0.28495	0.25258	690.00	0.28571	274.23	690.00	1,2	298.15	0.9187
20208	C10H15N	2-methyl-5-isopropylaniline	2051-53-8	0.28495	0.23141	690.00	0.28571	257.15	690.00	1,2	298.15	0.9897
20209	C10H15N	4-methyl-N-propylaniline	54837-90-0	0.28495	0.25203	690.00	0.28571	274.23	690.00	1,2	298.15	0.9204
20210	C10H15N	2,3,4,5-tetramethylaniline	2217-45-0	0.28495	0.25037	690.00	0.28571	342.15	690.00	2	532.65	0.7063
20211	C10H15N	2,3,4,6-tetramethylaniline	488-71-1	0.28495	0.23492	690.00	0.28571	296.65	690.00	1,2	298.15	0.9771
20212	C10H15N	N,N,2,6-tetramethylaniline	769-06-2	0.28495	0.25513	690.00	0.28571	237.15	690.00	1,2	298.15	0.9109
20220	C10H15N	2-(1-ethylpropyl)pyridine	7399-50-0	0.27896	0.25458	693.00	0.28571	398.65	693.00	1,2	468.55	0.7518
20221	C10H15N	4-(1-ethylpropyl)pyridine	35182-51-5	0.27896	0.24992	693.00	0.28571	398.65	693.00	1,2	490.15	0.7404
20230	C10H15N	3,5,N,N-tetramethylaniline	4913-13-7	0.28495	0.25509	690.00	0.28571	274.23	690.00	1,2	298.15	0.9110
20231	C10H15N	aniline, p-isopropyl-N-methyl-,	6950-79-4	0.28495	0.25037	690.00	0.28571	274.23	690.00	2	298.15	0.9256
20315	C10H16	camphene	79-92-5	0.27300	0.26341	638.00	0.26469	320.15	638.00	2	433.65	0.7325
20316	C10H16	D-limonene	5989-27-5	0.26000	0.25166	660.00	0.27210	199.00	660.00	1,2	298.15	0.8390
20317	C10H16	limonene	138-86-3	0.26000	0.24949	660.00	0.28571	178.15	660.00	1,2	298.15	0.8371
20318	C10H16	L-limonene	5989-54-8	0.26000	0.24878	660.00	0.28571	188.58	660.00	1,2	298.15	0.8391
20319	C10H16	alpha-phellandrene	99-83-2	0.27250	0.26020	649.00	0.28570	220.00	649.00	1,2	298.15	0.8430
20320	C10H16	beta-phellandrene	555-10-2	0.27970	0.26421	648.00	0.31500	220.00	648.00	1,2	298.15	0.8370
20321	C10H16	alpha-pinene	80-56-8	0.27030	0.25601	632.00	0.26040	209.15	632.00	1,2	298.15	0.8570
20322	C10H16	alpha-pinene, (-)	7785-26-4	0.26963	0.25239	647.00	0.28571	209.15	647.00	1,2	298.15	0.8550
20323	C10H16	beta-pinene	127-91-3	0.26920	0.26436	643.00	0.20685	211.61	643.00	1,2	298.15	0.8670
20324	C10H16	beta-pinene, (1R)	19902-08-0	0.26963	0.25017	647.00	0.28571	223.15	647.00	1,2	298.15	0.8613
20325	C10H16	alpha-terpinene	99-86-5	0.26920	0.26164	652.00	0.28571	214.12	652.00	1,2	298.15	0.8300
20326	C10H16	gamma-terpinene	99-85-4	0.26980	0.25794	661.00	0.28570	214.12	661.00	1,2	298.15	0.8450
20327	C10H16	terpinolene	586-62-9	0.26770	0.25229	672.00	0.28571	330.00	672.00	1,2	458.15	0.7226
20331	C10H16	1-decen-3-yne	33622-26-3	0.28034	0.28867	615.00	0.28571	330.00	615.00	1,2	439.95	0.6676
20332	C10H16	1-decen-4-yne	24948-66-1	0.28034	0.28836	615.00	0.28571	330.00	615.00	1,2	439.95	0.6681
20333	C10H16	2-decen-4-yne	116668-40-7	0.28034	0.28808	615.00	0.28571	330.00	615.00	1,2	439.95	0.6686
20349	C10H16	2-methyl-5-isopropyl-1,3-cyclohexadiene, (±)	13811-01-3	0.26963	0.25825	647.00	0.28571	330.00	647.00	1,2	448.65	0.7082
20356	C10H16	(+)-camphene	5794-03-6	0.27300	0.25674	638.00	0.28571	319.15	638.00	1,2	432.65	0.7299
20357	C10H16	(-)-camphene	5794-04-7	0.27300	0.26040	638.00	0.28571	310.15	638.00	1,2	439.95	0.7153
20365	C10H16	(-)-a-pinene	1330-16-1	0.26963	0.25133	647.00	0.28571	218.25	647.00	1,2	298.15	0.8580
20366	C10H16	(1S)-(-)-b-pinene	18172-67-3	0.26963	0.24959	647.00	0.28571	212.25	647.00	1,2	298.15	0.8630
20367	C10H16	(±)-a-pinene	2437-95-8	0.26963	0.25133	647.00	0.28571	218.25	647.00	1,2	298.15	0.8580
20368	C10H16	(+)-a-pinene	7785-70-8	0.26963	0.25168	647.00	0.28571	211.15	647.00	1,2	298.15	0.8570
20423	C10H16O	camphor	76-22-2	0.33090	0.29372	709.00	0.28571	453.25	709.00	2	480.57	0.8029
20540	C10H16S	3-hexylthiophene	1693-86-3	0.29546	0.25945	705.00	0.28571	350.00	705.00	1,2	502.15	0.7603

Table 3 Density of Liquid - Organic Compounds

			density = A B^-(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
20593	C10H18	1-decyne	764-93-2	0.24800	0.26008	632.49	0.28571	229.16	632.49	1,2	298.15	0.7620
20594	C10H18	2-decyne	2384-70-5	0.24799	0.24479	650.86	0.28571	308.06	650.86	2	457.75	0.6705
20595	C10H18	3-decyne	2384-85-2	0.24799	0.26159	643.32	0.28571	308.06	643.32	1,2	452.45	0.6397
20596	C10H18	4-decyne	2384-86-3	0.24799	0.25966	642.22	0.28571	261.36	642.22	1,2	298.15	0.7663
20597	C10H18	5-decyne	1942-46-7	0.24799	0.26001	642.22	0.28571	200.15	642.22	1,2	298.15	0.7654
20598	C10H18	2,2-dimethyl-3-octyne	19482-57-6	0.24799	0.26825	642.22	0.28571	261.36	642.22	1,2	298.15	0.7457
20599	C10H18	8-methyl-4-nonyne	70732-43-3	0.24799	0.26037	642.22	0.28571	261.36	642.22	1,2	298.15	0.7645
20600	C10H18	5-ethyl-5-methyl-3-heptyne	61228-10-2	0.24799	0.25905	642.22	0.28571	261.36	642.22	1,2	298.15	0.7678
20601	C10H18	cis-decahydronaphthalene	493-01-6	0.28800	0.26512	702.25	0.28720	230.20	702.25	1,2	298.15	0.8940
20602	C10H18	trans-decahydronaphthalene	493-02-7	0.28800	0.27116	687.05	0.29520	242.79	687.05	1,2	298.15	0.8680
20603	C10H18	1-pentylcyclopentene	4291-98-9	0.26460	0.26386	647.47	0.28571	190.15	647.47	1,2	298.15	0.8085
20604	C10H18	1,5-dimethyl-4-isopropylcyclopentene	6912-05-6	0.26460	0.26472	647.47	0.28571	190.15	647.47	1,2	298.15	0.8063
20608	C10H18	1,3-decadiene	2051-25-4	0.30209	0.33522	646.00	0.28571	203.55	646.00	1,2	298.15	0.7548
20609	C10H18	1,9-decadiene	1647-16-1	0.30209	0.33780	646.00	0.28571	203.55	646.00	1,2	298.15	0.7500
20610	C10H18	2,6-dimethyl-2,5-octadiene	116668-48-5	0.30209	0.32733	646.00	0.28571	203.55	646.00	1,2	298.15	0.7701
20611	C10H18	2,7-dimethyl-2,6-octadiene	16736-42-8	0.30209	0.32144	646.00	0.28571	198.75	646.00	1,2	298.15	0.7819
20612	C10H18	3,6-dimethyl-2,6-octadiene	116668-49-6	0.30209	0.32548	646.00	0.28571	203.55	646.00	1,2	298.15	0.7737
20613	C10H18	3,7-dimethyl-2,4-octadiene	56523-26-3	0.30209	0.31740	646.00	0.28571	203.55	646.00	1,2	298.15	0.7902
20614	C10H18	4,5-dimethyl-2,6-octadiene	18476-57-8	0.30209	0.33193	646.00	0.28571	208.35	646.00	1,2	298.15	0.7611
20615	C10H18	cis-2,6-dimethyl-2,6-octadiene	2492-22-0	0.30209	0.32603	646.00	0.28571	203.55	646.00	1,2	298.15	0.7726
20625	C10H18	1-methyl-4-isopropylcyclohexene	5502-88-5	0.27053	0.25866	640.00	0.28571	240.00	640.00	1,2	298.15	0.8378
20626	C10H18	1-methyl-4-isopropylcyclohexene, (R)	1195-31-9	0.27053	0.26567	640.00	0.28571	240.00	640.00	1,2	298.15	0.8193
20627	C10H18	4-methyl-1-isopropylcyclohexene, (R)	619-52-3	0.27053	0.27167	640.00	0.28571	240.00	640.00	1,2	298.15	0.8041
20628	C10H18	trans-3-methyl-6-isopropylcyclohexene, (3R)	5113-93-9	0.27053	0.27071	640.00	0.28571	240.00	640.00	1,2	298.15	0.8065
20635	C10H18	1-tert-butyl-1-cyclohexene	3419-66-7	0.27053	0.26158	640.00	0.28571	240.00	640.00	1,2	298.15	0.8300
20636	C10H18	decahydronaphthalene; (cis+trans)	91-17-8	0.28800	0.26494	694.65	0.28571	236.50	694.65	1,2	298.15	0.8930
20637	C10H18	3,7-dimethyl-1,6-octadiene	2436-90-0	0.30444	0.33718	646.00	0.28571	203.55	646.00	1,2	298.15	0.7570
20638	C10H18	4-methyl-1-(1-methylethyl)cyclohexene	500-00-5	0.27053	0.27003	640.00	0.28571	240.00	640.00	2	298.15	0.8082
20678	C10H18O	2-butylcyclohexanone	1126-18-7	0.29690	0.27281	710.00	0.28571	280.00	710.00	1,2	298.15	0.9025
20679	C10H18O	4-isobutylcyclohexanone	42061-72-3	0.29690	0.27703	710.00	0.28571	280.00	710.00	1,2	298.15	0.8907
20680	C10H18O	cis-5-methyl-2-isopropylcyclohexanone, (2R)	1196-31-2	0.29690	0.27682	710.00	0.28571	280.00	710.00	1,2	298.15	0.8913
20681	C10H18O	trans-2-methyl-5-isopropylcyclohexanone, (2S)	13163-73-0	0.29690	0.27351	710.00	0.28571	280.00	710.00	1,2	298.15	0.9005
20682	C10H18O	trans-5-methyl-2-isopropylcyclohexanone, (2S)	14073-97-3	0.29690	0.27657	710.00	0.28571	267.15	710.00	1,2	298.15	0.8920
20688	C10H18O	2-decenal	3913-71-1	0.26491	0.25560	670.00	0.28571	350.00	670.00	1,2	503.15	0.6627
20689	C10H18O	3-decenal	58474-80-9	0.26491	0.25435	670.00	0.28571	350.00	670.00	1,2	480.98	0.6875
20690	C10H18O	3,7-dimethyl-6-octenal	106-23-0	0.26491	0.25304	670.00	0.28571	350.00	670.00	1,2	480.98	0.6900
20691	C10H18O	3-decen-2-one	10519-33-2	0.26404	0.25359	675.00	0.28571	347.65	675.00	1,2	480.98	0.6902
20692	C10H18O	3-ethyl-4-methyl-3-hepten-2-one	54244-90-5	0.26404	0.25059	675.00	0.28571	347.65	675.00	1,2	463.15	0.7133
20693	C10H18O	3-ethyl-4-methyl-4-hepten-2-one	53252-08-7	0.26404	0.25440	675.00	0.28571	347.65	675.00	1,2	480.98	0.6887
20694	C10H18O	4-ethyl-6-methyl-5-hepten-2-one	104035-66-7	0.26404	0.25511	675.00	0.28571	347.65	675.00	1,2	480.98	0.6873
20695	C10H18O	5-ethyl-4-methyl-4-hepten-3-one	22319-28-4	0.26404	0.25100	675.00	0.28571	347.65	675.00	1,2	480.98	0.6952
20696	C10H18O	5-ethyl-4-methyl-5-hepten-3-one	74764-56-0	0.26404	0.25016	675.00	0.28571	347.65	675.00	1,2	480.98	0.6968
20697	C10H18O	6-methyl-5-nonen-4-one	7036-98-8	0.26404	0.24891	675.00	0.28571	347.65	675.00	1,2	468.15	0.7119
20698	C10H18O	6-methyl-6-nonen-4-one	53252-20-3	0.26404	0.25546	675.00	0.28571	347.65	675.00	1,2	480.98	0.6867
20716	C10H18O	2-tert-butylcyclohexanone	1728-46-7	0.29690	0.27621	710.00	0.28571	311.70	710.00	1,2	480.98	0.7534
20717	C10H18O	4-tert-butylcyclohexanone	98-53-3	0.29690	0.27215	710.00	0.28571	322.15	710.00	2	480.98	0.7615
20723	C10H18O	cis-4-decenal	21662-09-9	0.26491	0.25102	670.00	0.28571	350.00	670.00	1,2	480.98	0.6938
20745	C10H18O	2,2,6,6-tetramethylcyclohexanone	1195-93-3	0.29690	0.27215	710.00	0.28571	280.00	710.00	2	298.15	0.9044
20746	C10H18O	3,3,5,5-tetramethylcyclohexanone	14376-79-5	0.29690	0.28061	710.00	0.28571	280.00	710.00	1,2	298.15	0.8810
20760	C10H18O	2-(1-methylpropyl)cyclohexanone	14765-30-1	0.29690	0.27215	710.00	0.28571	280.00	710.00	2	298.15	0.9044
20769	C10H18O2	2-decenoic acid	3913-85-7	0.28208	0.25612	776.00	0.28571	285.15	776.00	1,2	298.15	0.9234
20770	C10H18O2	3-decenoic acid	15469-77-9	0.28208	0.26123	776.00	0.28571	291.15	776.00	1,2	298.15	0.9077
20771	C10H18O2	4-decenoic acid	26303-90-2	0.28208	0.25835	776.00	0.28571	291.98	776.00	1,2	298.15	0.9165
20772	C10H18O2	9-decenoic acid	14436-32-9	0.28208	0.25807	776.00	0.28571	299.65	776.00	1,2	540.00	0.7397
20788	C10H18O2	trans-2-decenoic acid	334-49-6	0.28338	0.25697	776.00	0.28571	291.98	776.00	1,2	298.15	0.9250
20795	C10H18O2	vinyl 2-ethylhexanoate	94-04-2	0.31516	0.29616	650.00	0.28571	183.25	650.00	1,2	298.15	0.8750
20800	C10H18O2	heptyl acrylate	2499-58-3	0.31516	0.27653	650.00	0.28571	183.25	650.00	2	298.15	0.9268
20801	C10H18O2	3-hexenyl isobutyrate	57859-47-9	0.31516	0.27653	650.00	0.28571	183.25	650.00	2	298.15	0.9268
20802	C10H18O2	cis-3-hexenyl isobutyrate	41519-23-7	0.31516	0.27653	650.00	0.28571	183.25	650.00	2	298.15	0.9268
20803	C10H18O2	hexyl-2-butenoate	19089-92-0	0.31516	0.27653	650.00	0.28571	183.25	650.00	2	298.15	0.9268
20805	C10H18O2	methyl nonylenate	111-79-5	0.31516	0.27653	650.00	0.28571	183.25	650.00	2	298.15	0.9268
20806	C10H18O2	1-octen-3-ol acetate	2442-10-6	0.31516	0.27653	650.00	0.28571	183.25	650.00	2	298.15	0.9268
20820	C10H18O4	sebacic acid	111-20-6	0.30740	0.19953	815.00	0.28571	407.65	815.00	1,2	642.09	0.8653
20856	C10H19Br	cis-1-bromo-1-decene	66291-72-3	0.34379	0.26169	683.71	0.28571	256.68	683.71	1,2	298.15	1.0730
20857	C10H19Br	trans-1-bromo-1-decene	66291-73-4	0.34379	0.26169	683.71	0.28571	256.68	683.71	1,2	298.15	1.0730
20858	C10H19Br	1-bromo-2-decene	14304-30-4	0.34379	0.26290	683.71	0.28571	256.68	683.71	1,2	298.15	1.0688
20859	C10H19Br	2-bromo-1-decene	3017-67-2	0.34379	0.25974	683.71	0.28571	256.68	683.71	1,2	298.15	1.0798
20867	C10H19Br3	1,1,1-tribromodecane	62127-67-7	0.49185	0.25723	786.93	0.28571	383.78	786.93	2	585.15	1.2346
20868	C10H19Cl	cis-1-chloro-1-decene	66291-47-2	0.27977	0.25882	682.53	0.28571	226.80	682.53	1,2	298.15	0.8810
20869	C10H19Cl	trans-1-chloro-1-decene	66291-48-3	0.27977	0.25882	682.53	0.28571	226.80	682.53	1,2	298.15	0.8810
20870	C10H19Cl	(1R)-(-)-menthyl chloride	16052-42-9	0.27977	0.24100	682.53	0.28571	255.00	682.53	1,2	298.15	0.9360
20876	C10H19Cl3	1,1,1-trichlorodecane	62108-56-9	0.33577	0.26186	724.19	0.28571	294.14	724.19	1,2	298.15	1.0620
20877	C10H19F	cis-1-fluoro-1-decene	66291-49-4	0.26665	0.25080	593.48	0.28571	229.03	593.48	1,2	298.15	0.8280
20878	C10H19F	trans-1-fluoro-1-decene	66291-50-7	0.26665	0.25080	593.48	0.28571	229.03	593.48	1,2	298.15	0.8280
20882	C10H19F3	1,1,1-trifluorodecane	26288-16-4	0.31053	0.25513	600.10	0.28571	300.83	600.10	2	442.15	0.7893
20883	C10H19I	cis-1-iodo-1-decene	66291-51-8	0.40115	0.26499	721.89	0.28571	254.94	721.89	1,2	298.15	1.2550
20884	C10H19I	trans-1-iodo-1-decene	66291-52-9	0.40115	0.26499	721.89	0.28571	254.94	721.89	1,2	298.15	1.2550
20885	C10H19I3	1,1,1-triiododecane	---	0.61282	0.27035	961.43	0.28571	378.56	961.43	2	704.39	1.5032
20886	C10H19N	decanenitrile	1975-78-6	0.24661	0.24527	692.64	0.28571	258.65	692.64	1,2	298.15	0.8160
20922	C10H20	pentylcyclopentane	3741-00-2	0.26150	0.26869	647.49	0.28571	190.16	647.49	1,2	298.15	0.7870

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^{\wedge}n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
20923	C10H20	butylcyclohexane	1678-93-9	0.26270	0.26552	667.00	0.30240	198.42	667.00	1,2	298.15	0.7960
20924	C10H20	tert-butylcyclohexane	3178-22-1	0.26270	0.26382	667.00	0.28571	231.95	667.00	1,2	298.15	0.8092
20925	C10H20	sec-butylcyclohexane	7058-01-7	0.26270	0.26367	667.00	0.28571	191.06	667.00	1,2	298.15	0.8096
20926	C10H20	isobutylcyclohexane	1678-98-4	0.26270	0.27068	667.00	0.28571	178.15	667.00	1,2	298.15	0.7918
20927	C10H20	1-methyl-1-propylcyclohexane	4258-93-9	0.26270	0.26482	667.00	0.28571	191.06	667.00	1,2	298.15	0.8066
20928	C10H20	1-methyl-2-propylcyclohexane	4291-79-6	0.26270	0.26397	667.00	0.28571	191.06	667.00	1,2	298.15	0.8088
20929	C10H20	1-methyl-3-propylcyclohexane	4291-80-9	0.26270	0.27272	667.00	0.28571	191.06	667.00	1,2	298.15	0.7868
20930	C10H20	1-methyl-4-propylcyclohexane	4291-81-0	0.26270	0.26996	667.00	0.28571	191.06	667.00	1,2	298.15	0.7936
20931	C10H20	1-methyl-2-isopropylcyclohexane	16580-23-7	0.26270	0.26301	667.00	0.28571	191.06	667.00	1,2	298.15	0.8113
20932	C10H20	1-methyl-3-isopropylcyclohexane	16580-24-8	0.26270	0.27024	667.00	0.28571	191.06	667.00	1,2	298.15	0.7929
20933	C10H20	1-methyl-4-isopropylcyclohexane	99-82-1	0.26270	0.26860	667.00	0.28571	185.55	667.00	1,2	298.15	0.7970
20934	C10H20	cis-1-methyl-4-isopropylcyclohexane	6069-98-3	0.26270	0.26723	667.00	0.28571	183.25	667.00	1,2	298.15	0.8005
20935	C10H20	trans-1-methyl-4-isopropylcyclohexane	1678-82-6	0.26270	0.27165	667.00	0.28571	186.85	667.00	1,2	298.15	0.7894
20936	C10H20	1,1,3,4-tetramethylcyclohexane	24612-75-7	0.26270	0.26972	667.00	0.28571	191.06	667.00	1,2	298.15	0.7942
20937	C10H20	trans-1,1,3,5-tetramethylcyclohexane	50876-31-8	0.26270	0.27459	667.00	0.28571	191.06	667.00	2	298.15	0.7823
20938	C10H20	cis-1,1,3,5-tetramethylcyclohexane	50876-32-9	0.26270	0.27637	667.00	0.28571	191.06	667.00	1,2	298.15	0.7780
20939	C10H20	diethylcyclohexane; (mixed isomers)	1331-43-7	0.26270	0.26583	667.00	0.28571	173.25	667.00	1,2	298.15	0.8040
20942	C10H20	cyclodecane	293-96-9	0.27721	0.26856	709.00	0.28571	284.15	709.00	1,2	298.15	0.8538
20943	C10H20	1-decene	872-05-9	0.23980	0.25776	617.05	0.28562	206.89	617.05	1,2	298.15	0.7370
20944	C10H20	4-decene	19689-18-0	0.24134	0.25985	616.98	0.28571	219.00	616.98	1,2	298.15	0.7367
20945	C10H20	cis-5-decene	7433-78-5	0.24134	0.25813	616.98	0.28571	161.15	616.98	1,2	298.15	0.7408
20946	C10H20	trans-5-decene	7433-56-9	0.24134	0.25998	616.98	0.28571	200.15	616.98	1,2	298.15	0.7364
20947	C10H20	2-methyl-1-nonene	2980-71-4	0.24289	0.25994	616.91	0.28571	208.92	616.91	1,2	298.15	0.7412
20947.1	C10H20	cis-2-decene	20348-51-0	0.24565	0.24090	621.00	0.28571	207.00	621.00	2	298.15	0.8000
20947.2	C10H20	trans-2-decene	20063-97-2	0.24565	0.24216	619.00	0.28571	220.00	619.00	2	298.15	0.7958
20947.3	C10H20	8-methyl-1-nonene	26741-24-2	0.24915	0.24052	619.00	0.28571	199.00	619.00	1,2	298.15	0.8116
20947.4	C10H20	1,1-diethylcyclohexane	78-01-3	0.26268	0.25676	643.00	0.28571	173.15	643.00	1,2	298.15	0.8196
20947.5	C10H20	1,2,3,4-tetramethylcyclohexane	3726-45-2	0.26566	0.26068	642.00	0.28571	195.00	642.00	2	298.15	0.8181
20948	C10H20	2-methyl-3-nonene	53966-53-3	0.24134	0.26258	616.98	0.28571	219.00	616.98	1,2	298.15	0.7304
20949	C10H20	5-methyl-4-nonene	15918-07-7	0.24134	0.24190	616.98	0.28571	219.00	616.98	2	298.15	0.7817
20950	C10H20	3,7-dimethyl-1-octene	4984-01-4	0.24134	0.26019	616.98	0.28571	219.00	616.98	1,2	298.15	0.7359
20951	C10H20	2,6-dimethyl-2-octene	4057-42-5	0.24134	0.25689	616.98	0.28571	219.00	616.98	1,2	298.15	0.7438
20952	C10H20	4-propyl-3-heptene	4485-13-6	0.24134	0.25604	616.98	0.28571	219.00	616.98	1,2	298.15	0.7458
20953	C10H20	2,4,6-trimethyl-3-heptene, isomer	123434-07-1	0.24134	0.24190	616.98	0.28571	219.00	616.98	2	298.15	0.7817
20954	C10H20	2,2,5,5-tetramethylhex-3-ene	22808-06-6	0.24134	0.24190	616.98	0.28571	268.65	616.98	2	298.15	0.7817
20955	C10H20	cis-1,2-di-tert-butylethene	692-47-7	0.24134	0.24190	616.98	0.28571	219.00	616.98	2	298.15	0.7817
20956	C10H20	(E)-2,2,5,5-tetramethylhex-3-ene	692-48-8	0.24134	0.24190	616.98	0.28571	268.25	616.98	2	298.15	0.7817
20958	C10H20Br2	1,1-dibromodecane	59104-80-2	0.42057	0.26090	741.82	0.28571	306.56	741.82	2	550.15	1.0477
20959	C10H20Br2	1,10-dibromodecane	4101-68-2	0.42057	0.26129	741.82	0.28571	301.15	741.82	1,2	550.15	1.0467
20960	C10H20Br2	5,6-dibromodecane	77928-86-0	0.42057	0.26052	741.82	0.28571	303.86	741.82	1,2	550.15	1.0487
20962	C10H20Cl2	1,1-dichlorodecane	3162-62-7	0.30716	0.26097	704.32	0.28571	246.80	704.32	1,2	298.15	0.9680
20963	C10H20Cl2	1,10-dichlorodecane	2162-98-3	0.30716	0.25285	704.32	0.28571	288.75	704.32	1,2	298.15	0.9945
20966	C10H20F2	1,1-difluorodecane	62127-43-9	0.28846	0.25727	622.00	0.28571	251.26	622.00	1,2	298.15	0.8900
20968	C10H20I2	1,1-diiododecane	66291-57-4	0.51480	0.26530	836.20	0.28571	303.08	836.20	2	614.04	1.2771
20969	C10H20I2	1,10-diiododecane	16355-92-3	0.51480	0.26530	836.20	0.28571	304.65	836.20	2	614.04	1.2771
20992	C10H20O	decanal	112-31-2	0.26940	0.26963	657.00	0.26840	267.15	657.00	1,2	298.15	0.8210
20993	C10H20O	2-decanone	693-54-9	0.25980	0.25510	656.59	0.28571	276.25	656.59	1,2	298.15	0.8198
20994	C10H20O	3-decanone	928-80-3	0.25980	0.25453	656.59	0.28571	274.45	656.59	1,2	298.15	0.8213
20995	C10H20O	4-decanone	624-16-8	0.25980	0.25493	656.59	0.28571	264.15	656.59	1,2	298.15	0.8203
20996	C10H20O	2-methyl-5-nonanone	22287-02-1	0.25980	0.25592	656.59	0.28571	269.70	656.59	1,2	298.15	0.8176
20997	C10H20O	2-tert-butylcyclohexanol	13491-79-7	0.29495	0.26584	665.00	0.28571	318.15	665.00	1,2	480.78	0.7387
20998	C10H20O	trans-2-butylcyclohexanol	35242-05-8	0.29495	0.26720	665.00	0.28571	339.96	665.00	1,2	480.78	0.7361
20999	C10H20O	citronellol, (±)	26489-01-0	0.25980	0.24368	656.59	0.28571	298.15	656.59	1,2	497.15	0.6666
21004	C10H20O	9-decen-1-ol	13019-22-2	0.29616	0.27369	643.00	0.28571	298.15	643.00	1,2	509.15	0.6775
21005	C10H20O	3,7-dimethyl-6-octen-3-ol	18479-51-1	0.29616	0.27904	643.00	0.28571	298.15	643.00	1,2	480.78	0.7007
21006	C10H20O	3,7-dimethyl-7-octen-1-ol, (S)	6812-78-8	0.29616	0.28325	643.00	0.28571	298.15	643.00	1,2	480.78	0.6937
21007	C10H20O	2-ethylhexyl vinyl ether	103-44-6	0.29587	0.30037	636.00	0.28571	173.15	636.00	1,2	298.15	0.8074
21008	C10H20O	octyl vinyl ether	929-62-4	0.29587	0.30430	636.00	0.28571	173.15	636.00	1,2	298.15	0.7987
21011	C10H20O	1-methyl-4-isopropylcyclohexanol	21129-27-1	0.29495	0.26790	665.00	0.28571	339.96	665.00	1,2	481.65	0.7339
21012	C10H20O	2-methyl-5-isopropylcyclohexanol, [1R-(1alpha,2alpha,5beta)]	5563-78-0	0.29495	0.26748	665.00	0.28571	339.96	665.00	1,2	490.65	0.7252
21013	C10H20O	2-methyl-1-propylcyclohexanol	24580-48-1	0.29495	0.26347	665.00	0.28571	339.96	665.00	1,2	480.78	0.7433
21014	C10H20O	3-methyl-1-propylcyclohexanol	24580-52-7	0.29495	0.27108	665.00	0.28571	339.96	665.00	1,2	472.15	0.7375
21015	C10H20O	4-tert-butylcyclohexanol; (cis+trans)	98-52-2	0.29495	0.27952	665.00	0.28571	338.15	665.00	2	480.78	0.7135
21016	C10H20O	(±)-b-citronellol	106-22-9	0.25980	0.24266	656.59	0.28571	298.15	656.59	1,2	496.40	0.6693
21017	C10H20O	(R)-(+)-b-citronellol	1117-61-9	0.25980	0.24199	656.59	0.28571	298.15	656.59	1,2	480.78	0.6879
21018	C10H20O	(-)-b-citronellol	7540-51-4	0.25980	0.24232	656.59	0.28571	298.15	656.59	1,2	498.65	0.6674
21019	C10H20O	5-decanone	820-29-1	0.25980	0.23956	656.59	0.28571	263.95	656.59	2	298.15	0.8643
21020	C10H20O	trans-5-decen-1-ol	56578-18-8	0.29616	0.27806	643.00	0.28571	298.15	643.00	2	480.78	0.7024
21021	C10H20O	cis-4-decen-1-ol	57074-37-0	0.29616	0.28372	643.00	0.28571	298.15	643.00	1,2	480.78	0.6929
21025	C10H20O	isodecanal	1321-89-7	0.26940	0.26289	657.00	0.28571	267.15	657.00	1,2	298.15	0.8290
21031	C10H20O	trans-4-(1,1-dimethylethyl)cyclohexanol	21862-63-5	0.29495	0.27952	665.00	0.28571	348.45	665.00	2	480.78	0.7135
21032	C10H20O	cis-4-(1,1-dimethylethyl)cyclohexanol	937-05-3	0.29495	0.27952	665.00	0.28571	355.10	665.00	2	480.78	0.7135
21033	C10H20O	[1R-(1a,2a,5b)]-5-methyl-2-(1-methylethyl)cyclohexanol	20747-49-3	0.29495	0.27952	665.00	0.28571	339.96	665.00	2	480.78	0.7135
21034	C10H20O	2-methyl-3-nonanone	5445-31-8	0.25980	0.23956	656.59	0.28571	269.70	656.59	2	298.15	0.8643
21035	C10H20O	2,6-dimethyl-1-octen-8-ol	141-25-3	0.29616	0.27806	643.00	0.28571	298.15	643.00	2	480.78	0.7024
21036	C10H20O	2-isopropyl-5-methyl-2-hexen-1-ol	40853-53-0	0.29616	0.27806	643.00	0.28571	298.15	643.00	2	480.78	0.7024
21038	C10H20O	tetrahydroneral	5988-91-0	0.25980	0.23956	656.59	0.28571	300.00	656.59	2	403.15	0.7717
21040	C10H20O2	decanoic acid	334-48-5	0.28710	0.26820	713.00	0.26860	304.75	713.00	1,2	543.15	0.7028
21041	C10H20O2	2,2-dimethyloctanoic acid	29662-90-6	0.28710	0.27421	713.00	0.28571	314.95	713.00	2	473.73	0.7402
21042	C10H20O2	3-methylnonanoic acid	35205-79-9	0.28710	0.26469	713.00	0.28571	314.95	713.00	1,2	473.73	0.7596

Table 3 Density of Liquid - Organic Compounds

			density = A B^-(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
21043	C10H20O2	nonyl formate	5451-92-3	0.27215	0.25300	669.90	0.28571	260.66	669.90	2	298.15	0.8694
21044	C10H20O2	2-ethylhexyl acetate	103-09-3	0.28710	0.26571	639.00	0.28570	180.15	639.00	1,2	298.15	0.8690
21045	C10H20O2	octyl acetate	112-14-1	0.27129	0.25336	662.20	0.28571	234.65	662.20	1,2	298.15	0.8630
21046	C10H20O2	6-methyl-2-heptyl acetate	67952-57-2	0.27919	0.26781	650.60	0.28571	207.40	650.60	1,2	298.15	0.8436
21047	C10H20O2	6-methyl-3-heptyl acetate	32764-34-4	0.27919	0.26484	650.60	0.28571	207.40	650.60	1,2	298.15	0.8516
21048	C10H20O2	2-methylheptyl acetate, (±)	74112-36-0	0.27919	0.26389	650.60	0.28571	207.40	650.60	1,2	298.15	0.8541
21049	C10H20O2	heptyl propanoate	2216-81-1	0.27129	0.25283	659.60	0.28571	222.25	659.60	1,2	298.15	0.8636
21050	C10H20O2	hexyl butanoate	2639-63-6	0.27129	0.25347	657.20	0.28571	195.15	657.20	1,2	298.15	0.8609
21051	C10H20O2	1-methylpentyl butanoate, (S)	116723-96-7	0.27129	0.24992	657.20	0.28571	195.15	657.20	1,2	298.15	0.8712
21052	C10H20O2	isopentyl isovalerate	659-70-1	0.28710	0.28040	637.00	0.24390	215.00	637.00	1,2	298.15	0.8540
21053	C10H20O2	1,1-dimethylpropyl 3-methylbutanoate	542-37-0	0.27129	0.24933	657.20	0.28571	195.15	657.20	1,2	298.15	0.8729
21054	C10H20O2	isopentyl pentanoate	2050-09-1	0.28710	0.26531	637.00	0.28571	211.58	637.00	2	298.15	0.8693
21055	C10H20O2	pentyl pentanoate	2173-56-0	0.28710	0.26882	637.00	0.28571	194.35	637.00	1,2	298.15	0.8598
21056	C10H20O2	butyl hexanoate	626-82-4	0.28710	0.26827	637.00	0.28571	208.85	637.00	1,2	298.15	0.8613
21057	C10H20O2	isobutyl 4-methylpentanoate	25415-70-7	0.28710	0.27266	637.00	0.28571	211.58	637.00	1,2	298.15	0.8497
21058	C10H20O2	propyl heptanoate	7778-87-2	0.28710	0.27017	637.00	0.28571	209.65	637.00	1,2	298.15	0.8563
21059	C10H20O2	ethyl 2-ethylhexanoate	2983-37-1	0.28710	0.26929	637.00	0.28571	211.58	637.00	1,2	298.15	0.8586
21060	C10H20O2	ethyl octanoate	106-32-1	0.28710	0.26860	637.00	0.28571	230.05	637.00	1,2	298.15	0.8604
21063	C10H20O2	methyl nonanoate	1731-84-6	0.28710	0.26442	637.00	0.28571	211.58	637.00	1,2	298.15	0.8718
21066	C10H20O2	8-methylnonanoic acid	5963-14-4	0.28710	0.27421	713.00	0.28571	314.95	713.00	2	473.73	0.7402
21067	C10H20O2	neodecanoic acid	26896-20-8	0.28710	0.25681	713.00	0.28571	314.95	713.00	1,2	528.15	0.7236
21068	C10H20O2	tert-decanoic acid	52627-73-3	0.28710	0.27421	713.00	0.28571	314.95	713.00	2	473.73	0.7402
21071	C10H20O2	n-hexyl isobutyrate	2349-07-7	0.28710	0.26531	637.00	0.28571	211.58	637.00	2	298.15	0.8693
21073	C10H20O2	isobutyl hexanoate	105-79-3	0.28710	0.26531	637.00	0.28571	211.58	637.00	2	298.15	0.8693
21074	C10H20O2	2-(4-isobutylphenyl)butyric acid	55837-18-8	0.28710	0.27421	713.00	0.28571	325.15	713.00	2	473.73	0.7402
21077	C10H20O2	4-nonanecarboxylic acid	31080-39-4	0.28710	0.27421	713.00	0.28571	314.95	713.00	2	473.73	0.7402
21088	C10H20S	thiacycloundecane	408-32-2	0.32182	0.29962	784.51	0.28571	279.43	784.51	1,2	298.15	0.9209
21090	C10H21Br	1-bromodecane	112-29-8	0.33640	0.25878	698.43	0.28571	243.95	698.43	1,2	298.15	1.0656
21091	C10H21Br	2-bromodecane	39563-53-6	0.33640	0.26300	698.43	0.28571	243.95	698.43	1,2	298.15	1.0510
21093	C10H21Cl	1-chlorodecane	1002-69-3	0.27421	0.25775	679.88	0.28571	241.85	679.88	1,2	298.15	0.8657
21094	C10H21Cl	decyl chloride (mixed isomers)	28519-06-4	0.27421	0.25490	679.88	0.28571	241.85	679.88	2	298.15	0.8739
21097	C10H21F	1-fluorodecane	334-56-5	0.26361	0.25680	623.10	0.28571	238.15	623.10	1,2	298.15	0.8150
21100	C10H21I	1-iododecane	2050-77-3	0.43642	0.29159	700.35	0.28571	256.85	700.35	1,2	298.15	1.2494
21117	C10H21NO2	1-nitrodecane	4609-87-4	0.27643	0.24180	716.97	0.28571	345.57	716.97	2	539.15	0.7170
21133	C10H22	decane	124-18-5	0.23590	0.25668	618.45	0.28570	243.49	618.45	1,2	298.15	0.7280
21134	C10H22	2-methylnonane	871-83-0	0.24410	0.26483	610.00	0.30083	198.50	610.00	1,2	298.15	0.7230
21135	C10H22	3-methylnonane	5911-04-6	0.24410	0.26592	613.00	0.28692	188.35	613.00	1,2	298.15	0.7290
21136	C10H22	4-methylnonane	17301-94-9	0.24410	0.26171	610.00	0.30463	174.45	610.00	1,2	298.15	0.7280
21137	C10H22	5-methylnonane	15869-85-9	0.24410	0.26365	610.00	0.29452	185.45	610.00	1,2	298.15	0.7290
21138	C10H22	3-ethyloctane	5881-17-4	0.25360	0.27567	613.60	0.28571	185.46	613.60	1,2	298.15	0.7360
21139	C10H22	4-ethyloctane	15869-86-0	0.25780	0.28150	609.60	0.28571	185.46	609.60	1,2	298.15	0.7340
21140	C10H22	2,2-dimethyloctane	15869-87-1	0.24790	0.27130	602.00	0.29314	204.38	602.00	1,2	298.15	0.7210
21141	C10H22	2,3-dimethyloctane	7146-60-3	0.25090	0.27296	613.20	0.28571	219.16	613.20	1,2	298.15	0.7340
21142	C10H22	2,4-dimethyloctane	4032-94-4	0.25140	0.27642	599.40	0.28571	219.16	599.40	1,2	298.15	0.7230
21143	C10H22	2,5-dimethyloctane	15869-89-3	0.25010	0.27390	603.00	0.28571	219.16	603.00	1,2	298.15	0.7260
21144	C10H22	2,6-dimethyloctane	2051-30-1	0.24700	0.27116	603.10	0.28571	219.16	603.10	1,2	298.15	0.7230
21145	C10H22	2,7-dimethyloctane	1072-16-8	0.24120	0.26474	602.90	0.28571	219.16	602.90	1,2	298.15	0.7200
21146	C10H22	3,3-dimethyloctane	4110-44-5	0.25540	0.27826	612.10	0.28571	219.16	612.10	1,2	298.15	0.7350
21147	C10H22	3,4-dimethyloctane	15869-92-8	0.25820	0.27950	614.00	0.28571	219.16	614.00	1,2	298.15	0.7410
21148	C10H22	3,5-dimethyloctane	15869-93-9	0.25640	0.27957	606.30	0.28571	219.16	606.30	1,2	298.15	0.7330
21149	C10H22	3,6-dimethyloctane	15869-94-0	0.25320	0.27613	608.30	0.28571	219.16	608.30	1,2	298.15	0.7320
21150	C10H22	4,4-dimethyloctane	15869-95-1	0.25960	0.28485	606.90	0.28571	219.16	606.90	1,2	298.15	0.7310
21151	C10H22	4,5-dimethyloctane	15869-96-2	0.26060	0.28144	612.20	0.28571	219.16	612.20	1,2	298.15	0.7430
21152	C10H22	4-propylheptane	3178-29-8	0.26110	0.28540	601.00	0.28571	219.16	601.00	1,2	298.15	0.7320
21153	C10H22	4-isopropylheptane	52896-87-4	0.26500	0.29024	607.60	0.28571	219.16	607.60	1,2	298.15	0.7350
21154	C10H22	3-ethyl-2-methylheptane	14676-29-0	0.26160	0.28393	610.90	0.28571	219.16	610.90	1,2	298.15	0.7400
21155	C10H22	4-ethyl-2-methylheptane	52896-88-5	0.26110	0.28554	601.80	0.28571	219.16	601.80	1,2	298.15	0.7320
21156	C10H22	5-ethyl-2-methylheptane	13475-78-0	0.25640	0.28010	606.70	0.28571	219.16	606.70	1,2	298.15	0.7320
21157	C10H22	3-ethyl-3-methylheptane	17302-01-1	0.26750	0.29028	620.00	0.28571	219.16	620.00	1,2	298.15	0.7460
21158	C10H22	4-ethyl-3-methylheptane	52896-89-6	0.26850	0.29071	614.30	0.28571	219.16	614.30	1,2	298.15	0.7460
21159	C10H22	3-ethyl-5-methylheptane	52896-90-9	0.26300	0.28648	606.60	0.28571	219.16	606.60	1,2	298.15	0.7370
21160	C10H22	3-ethyl-4-methylheptane	52896-91-0	0.26690	0.28834	615.50	0.28571	219.16	615.50	1,2	298.15	0.7470
21161	C10H22	4-ethyl-4-methylheptane	17302-04-4	0.27100	0.29373	615.70	0.28571	219.16	615.70	1,2	298.15	0.7470
21162	C10H22	2,2,3-trimethylheptane	52896-92-1	0.26060	0.28367	611.70	0.28571	219.16	611.70	1,2	298.15	0.7380
21163	C10H22	2,2,4-trimethylheptane	14720-74-2	0.25780	0.28370	594.50	0.28571	219.16	594.50	1,2	298.15	0.7240
21164	C10H22	2,2,5-trimethylheptane	20291-95-6	0.25450	0.27987	598.00	0.28571	219.16	598.00	1,2	298.15	0.7240
21165	C10H22	2,2,6-trimethylheptane	1190-83-6	0.24830	0.27264	593.40	0.28571	219.16	593.40	1,2	298.15	0.7200
21166	C10H22	2,3,3-trimethylheptane	52896-93-2	0.26450	0.28644	617.50	0.28571	219.16	617.50	1,2	298.15	0.7450
21167	C10H22	2,3,4-trimethylheptane	52896-95-4	0.26450	0.28585	613.70	0.28571	219.16	613.70	1,2	298.15	0.7450
21168	C10H22	2,3,5-trimethylheptane	20278-85-7	0.26010	0.28180	612.80	0.28571	219.16	612.80	1,2	298.15	0.7410
21169	C10H22	2,3,6-trimethylheptane	4032-93-3	0.25410	0.27709	604.10	0.28571	219.16	604.10	1,2	298.15	0.7310
21170	C10H22	2,4,4-trimethylheptane	4032-92-2	0.26300	0.28829	600.30	0.28571	219.16	600.30	1,2	298.15	0.7310
21171	C10H22	2,4,5-trimethylheptane	20278-84-6	0.26160	0.28468	606.90	0.28571	219.16	606.90	1,2	298.15	0.7370
21172	C10H22	2,4,6-trimethylheptane	2613-61-8	0.25410	0.28037	590.30	0.28571	219.16	590.30	1,2	298.15	0.7190
21173	C10H22	2,5,5-trimethylheptane	1189-99-7	0.25870	0.28067	602.90	0.28571	219.16	602.90	1,2	298.15	0.7360
21174	C10H22	3,3,4-trimethylheptane	20278-87-9	0.27050	0.29171	622.10	0.28571	219.16	622.10	1,2	298.15	0.7520
21175	C10H22	3,3,5-trimethylheptane	7154-80-5	0.24600	0.26377	609.50	0.28571	219.16	609.50	1,2	298.15	0.7390
21176	C10H22	3,4,4-trimethylheptane	20278-88-0	0.27150	0.29235	620.90	0.28571	219.16	620.90	1,2	298.15	0.7530
21177	C10H22	3,4,5-trimethylheptane	20278-89-1	0.26010	0.27682	612.80	0.28571	219.16	612.80	1,2	298.15	0.7520
21178	C10H22	3-isopropyl-2-methylhexane	62016-13-1	0.26900	0.29371	623.40	0.28571	219.16	623.40	1,2	298.15	0.7440

Table 3 Density of Liquid - Organic Compounds

			density = A B ^ (1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
21179	C10H22	3,3-diethylhexane	17302-02-2	0.27900	0.30124	627.80	0.28571	219.16	627.80	1,2	298.15	0.7570
21180	C10H22	3,4-diethylhexane	19398-77-7	0.27420	0.29841	618.80	0.28571	219.16	618.80	1,2	298.15	0.7470
21181	C10H22	3-ethyl-2,2-dimethylhexane	20291-91-2	0.27050	0.29339	611.70	0.28571	219.16	611.70	1,2	298.15	0.7450
21182	C10H22	4-ethyl-2,2-dimethylhexane	52896-99-8	0.26400	0.28913	594.60	0.28571	219.16	594.60	1,2	298.15	0.7300
21183	C10H22	3-ethyl-2,3-dimethylhexane	52897-00-4	0.27570	0.29540	626.80	0.28571	219.16	626.80	1,2	298.15	0.7600
21184	C10H22	4-ethyl-2,3-dimethylhexane	52897-01-5	0.27150	0.29227	617.30	0.28571	219.16	617.30	1,2	298.15	0.7520
21185	C10H22	3-ethyl-2,4-dimethylhexane	7220-26-0	0.27260	0.29398	616.10	0.28571	219.16	616.10	1,2	298.15	0.7510
21186	C10H22	4-ethyl-2,4-dimethylhexane	52897-03-7	0.27150	0.29282	620.90	0.28571	219.16	620.90	1,2	298.15	0.7520
21187	C10H22	3-ethyl-2,5-dimethylhexane	52897-04-8	0.26500	0.28862	603.50	0.28571	219.16	603.50	1,2	298.15	0.7370
21188	C10H22	4-ethyl-3,3-dimethylhexane	52897-05-9	0.27740	0.29743	625.70	0.28571	219.16	625.70	1,2	298.15	0.7600
21189	C10H22	3-ethyl-3,4-dimethylhexane	52897-06-0	0.27840	0.29854	624.50	0.28571	219.16	624.50	1,2	298.15	0.7600
21190	C10H22	2,2,3,3-tetramethylhexane	13475-81-5	0.24810	0.25924	623.00	0.28571	219.16	623.00	1,2	298.15	0.7610
21191	C10H22	2,2,3,4-tetramethylhexane	52897-08-2	0.27100	0.29257	620.40	0.28571	219.16	620.40	1,2	298.15	0.7510
21192	C10H22	2,2,3,5-tetramethylhexane	52897-09-3	0.26350	0.28817	601.30	0.28571	219.16	601.30	1,2	298.15	0.7330
21193	C10H22	2,2,4,4-tetramethylhexane	51750-65-3	0.26600	0.28866	610.20	0.28571	219.16	610.20	1,2	298.15	0.7420
21194	C10H22	2,2,4,5-tetramethylhexane	16747-42-5	0.26160	0.28612	598.50	0.28571	219.16	598.50	1,2	298.15	0.7310
21195	C10H22	2,2,5,5-tetramethylhexane	1071-81-4	0.24810	0.27257	581.40	0.28571	260.56	581.40	1,2	298.15	0.7150
21196	C10H22	2,3,3,4-tetramethylhexane	52897-10-6	0.27680	0.29541	633.10	0.28571	260.56	633.10	1,2	298.15	0.7650
21197	C10H22	2,3,3,5-tetramethylhexane	52897-11-7	0.26800	0.28986	610.10	0.28571	260.56	610.10	1,2	298.15	0.7450
21198	C10H22	2,3,4,4-tetramethylhexane	52897-12-8	0.27470	0.28548	626.60	0.28571	260.56	626.60	1,2	298.15	0.7790
21199	C10H22	2,3,4,5-tetramethylhexane	52897-15-1	0.26850	0.29053	613.20	0.28571	260.56	613.20	1,2	298.15	0.7460
21200	C10H22	3,3,4,4-tetramethylhexane	5171-84-6	0.28120	0.29649	646.70	0.28571	260.56	646.70	1,2	298.15	0.7790
21201	C10H22	2,4-dimethyl-3-isopropylpentane	13475-79-1	0.27310	0.29295	614.40	0.28571	191.46	614.40	1,2	298.15	0.7540
21202	C10H22	3,3-diethyl-2-methylpentane	52897-16-2	0.28400	0.30092	639.90	0.28571	191.46	639.90	1,2	298.15	0.7750
21203	C10H22	3-ethyl-2,2,3-trimethylpentane	52897-17-3	0.28290	0.29899	646.00	0.28571	191.46	646.00	1,2	298.15	0.7780
21204	C10H22	3-ethyl-2,2,4-trimethylpentane	52897-18-4	0.27470	0.29564	615.30	0.28571	191.46	615.30	1,2	298.15	0.7530
21205	C10H22	3-ethyl-2,3,4-trimethylpentane	52897-19-5	0.28120	0.29863	642.30	0.28571	191.46	642.30	1,2	298.15	0.7730
21206	C10H22	2,2,3,3,4-pentamethylpentane	16747-44-7	0.28010	0.29561	643.80	0.28571	236.71	643.80	1,2	298.15	0.7770
21207	C10H22	2,2,3,4,4-pentamethylpentane	16747-45-8	0.27310	0.29029	627.30	0.28571	234.41	627.30	1,2	298.15	0.7640
21224	C10H22O	1-decanol	112-30-1	0.26400	0.26108	690.00	0.29040	280.05	690.00	1,2	298.15	0.8250
21225	C10H22O	isodecanol	25339-17-7	0.26780	0.25638	644.00	0.28571	213.15	644.00	1,2	298.15	0.8370
21226	C10H22O	2-decanol	1120-06-5	0.26249	0.25968	673.20	0.28571	270.75	673.20	1,2	298.15	0.8214
21227	C10H22O	2-decanol, (±)	74742-10-2	0.26473	0.25670	629.00	0.28571	271.95	629.00	1,2	298.15	0.8210
21228	C10H22O	3-decanol	1565-81-7	0.26012	0.25115	632.85	0.28571	268.15	632.85	1,2	298.15	0.8230
21229	C10H22O	4-decanol	2051-31-2	0.26012	0.25228	633.05	0.28571	261.75	633.05	1,2	298.15	0.8200
21230	C10H22O	5-decanol	5205-34-5	0.26012	0.25059	621.25	0.28571	281.85	621.25	1,2	298.15	0.8200
21231	C10H22O	2-methyl-1-nonanol	40589-14-8	0.26012	0.25097	648.77	0.28571	247.78	648.77	2	298.15	0.8294
21232	C10H22O	4-methyl-1-nonanol	1489-47-0	0.26012	0.25005	638.09	0.28571	247.78	638.09	1,2	298.15	0.8280
21233	C10H22O	5-methyl-1-nonanol	2768-16-3	0.26012	0.24933	638.09	0.28571	247.78	638.09	1,2	298.15	0.8300
21234	C10H22O	7-methyl-1-nonanol	33234-93-4	0.26012	0.25005	638.09	0.28571	247.78	638.09	1,2	298.15	0.8280
21235	C10H22O	3-methyl-1-nonanol	22663-64-5	0.26012	0.24933	638.09	0.28571	247.78	638.09	1,2	298.15	0.8300
21236	C10H22O	2-methyl-2-nonanol	10297-57-1	0.26228	0.25282	643.93	0.28571	265.20	643.93	2	298.15	0.8294
21237	C10H22O	3-methyl-2-nonanol	60671-32-1	0.26271	0.25233	640.97	0.28571	232.78	640.97	1,2	298.15	0.8310
21238	C10H22O	5-methyl-2-nonanol	66731-95-1	0.26271	0.25293	640.97	0.28571	232.78	640.97	2	298.15	0.8294
21239	C10H22O	6-methyl-2-nonanol	66256-60-8	0.26271	0.25306	640.97	0.28571	232.78	640.97	1,2	298.15	0.8290
21240	C10H22O	7-methyl-2-nonanol	66256-61-9	0.26271	0.25293	640.97	0.28571	232.78	640.97	2	298.15	0.8294
21241	C10H22O	8-methyl-2-nonanol	14779-92-1	0.26271	0.25601	640.97	0.28571	232.78	640.97	1,2	298.15	0.8210
21242	C10H22O	2-methyl-3-nonanol	26533-33-5	0.26271	0.25373	633.80	0.28571	232.78	633.80	1,2	298.15	0.8245
21243	C10H22O	3-methyl-3-nonanol	21078-72-8	0.26228	0.25279	637.32	0.28571	265.20	637.32	1,2	298.15	0.8270
21244	C10H22O	5-methyl-3-nonanol	66719-43-5	0.26271	0.25203	634.39	0.28571	232.78	634.39	2	298.15	0.8294
21245	C10H22O	2-methyl-4-nonanol	26533-31-3	0.26271	0.25548	634.39	0.28571	232.78	634.39	1,2	298.15	0.8200
21246	C10H22O	4-methyl-4-nonanol	23418-38-4	0.26228	0.25316	637.32	0.28571	265.20	637.32	1,2	298.15	0.8260
21247	C10H22O	5-methyl-4-nonanol	66719-44-6	0.26271	0.25252	634.39	0.28571	232.78	634.39	1,2	298.15	0.8280
21248	C10H22O	7-methyl-4-nonanol	26981-98-6	0.26271	0.25203	634.39	0.28571	232.78	634.39	2	298.15	0.8294
21249	C10H22O	2-methyl-5-nonanol	29843-62-7	0.26271	0.25661	634.39	0.28571	232.78	634.39	1,2	298.15	0.8170
21250	C10H22O	3-methyl-5-nonanol	66779-42-4	0.26271	0.25511	634.39	0.28571	232.78	634.39	1,2	298.15	0.8210
21251	C10H22O	5-methyl-5-nonanol	33933-78-7	0.26228	0.25353	637.32	0.28571	265.20	637.32	1,2	298.15	0.8250
21252	C10H22O	2-ethyl-1-octanol	20592-10-3	0.26012	0.24866	631.54	0.28571	247.78	631.54	2	298.15	0.8293
21253	C10H22O	3-ethyl-1-octanol	66719-36-6	0.26012	0.25170	631.54	0.28571	247.78	631.54	1,2	298.15	0.8210
21254	C10H22O	2,2-dimethyl-1-octanol	2370-14-1	0.26228	0.25300	636.20	0.28571	265.20	636.20	1,2	298.15	0.8260
21255	C10H22O	2,6-dimethyl-1-octanol	62417-08-7	0.26271	0.25418	635.71	0.28571	232.78	635.71	1,2	298.15	0.8240
21256	C10H22O	3,7-dimethyl-1-octanol	106-21-8	0.26271	0.25164	638.54	0.28571	232.78	638.54	1,2	298.15	0.8320
21257	C10H22O	4,5-dimethyl-1-octanol	66719-32-2	0.26271	0.25257	638.34	0.28571	232.78	638.34	2	298.15	0.8294
21258	C10H22O	4,6-dimethyl-1-octanol	66719-33-3	0.26271	0.25257	638.34	0.28571	232.78	638.34	2	298.15	0.8294
21259	C10H22O	4,7-dimethyl-1-octanol	66719-34-4	0.26271	0.25257	638.34	0.28571	232.78	638.34	2	298.15	0.8294
21260	C10H22O	7,7-dimethyl-1-octanol	66719-35-5	0.26228	0.25247	641.29	0.28571	265.20	641.29	2	298.15	0.8294
21261	C10H22O	2,4-dimethyl-2-octanol	18675-20-2	0.26491	0.25866	644.39	0.28571	250.20	644.39	1,2	298.15	0.8220
21262	C10H22O	2,6-dimethyt-2-octanol	18479-57-7	0.26491	0.25791	644.39	0.28571	250.20	644.39	1,2	298.15	0.8240
21263	C10H22O	2,7-dimethyl-2-octanol	42007-73-8	0.26491	0.25591	644.39	0.28571	250.20	644.39	2	298.15	0.8294
21264	C10H22O	3,7-dimethyl-2-octanol	15340-96-2	0.26535	0.25764	641.33	0.28571	217.78	641.33	1,2	298.15	0.8250
21265	C10H22O	3-ethyl-3-octanol	2051-32-3	0.26228	0.24771	624.30	0.28571	265.20	624.30	1,2	298.15	0.8360
21266	C10H22O	6-ethyl-3-octanol	19781-27-2	0.26271	0.25016	621.23	0.28571	232.78	621.23	2	298.15	0.8293
21267	C10H22O	2,2-dimethyl-3-octanol	19841-72-6	0.26491	0.25257	620.48	0.28571	250.20	620.48	2	298.15	0.8293
21268	C10H22O	2,3-dimethyl-3-octanol	19781-10-3	0.26491	0.25326	614.17	0.28571	250.20	614.17	1,2	298.15	0.8249
21269	C10H22O	2,7-dimethyl-3-octanol	66719-55-9	0.26535	0.25958	617.73	0.28571	217.78	617.73	1,2	298.15	0.8110
21270	C10H22O	3,5-dimethyl-3-octanol	56065-42-0	0.26491	0.24959	619.15	0.28571	250.20	619.15	1,2	298.15	0.8370
21271	C10H22O	3,6-dimethyl-3-octanol	151-19-9	0.26491	0.25233	618.02	0.28571	205.65	618.02	1,2	298.15	0.8290
21272	C10H22O	3,7-dimethyl-3-octanol	78-69-3	0.26491	0.25422	623.33	0.28571	250.20	623.33	1,2	298.15	0.8260
21273	C10H22O	3-ethyl-4-octanol	63126-48-7	0.26271	0.24898	613.33	0.28571	232.78	613.33	2	298.15	0.8293
21274	C10H22O	4-ethyl-4-octanol	38395-42-5	0.26228	0.24722	616.17	0.28571	265.20	616.17	1,2	298.15	0.8340

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
21275	C10H22O	2,2-dimethyl-4-octanol	66719-52-6	0.26491	0.25641	615.36	0.28571	250.20	615.36	1,2	298.15	0.8170
21276	C10H22O	2,4-dimethyl-4-octanol	33933-79-8	0.26491	0.25582	616.49	0.28571	250.20	616.49	1,2	298.15	0.8190
21277	C10H22O	2,5-dimethyl-4-octanol	66719-53-7	0.26535	0.25856	613.56	0.28571	217.78	613.56	1,2	298.15	0.8120
21278	C10H22O	2,6-dimethyl-4-octanol	66719-54-8	0.26535	0.26037	613.56	0.28571	217.78	613.56	1,2	298.15	0.8073
21279	C10H22O	2,7-dimethyl-4-octanol	19781-11-4	0.26535	0.25856	613.56	0.28571	217.78	613.56	1,2	298.15	0.8120
21280	C10H22O	3,4-dimethyl-4-octanol	66719-30-0	0.26491	0.25198	616.49	0.28571	250.20	616.49	2	298.15	0.8293
21281	C10H22O	3,6-dimethyl-4-octanol	66719-31-1	0.26535	0.25070	613.56	0.28571	217.78	613.56	1,2	298.15	0.8330
21282	C10H22O	4,6-dimethyl-4-octanol	56065-43-1	0.26491	0.25247	616.49	0.28571	250.20	616.49	1,2	298.15	0.8280
21283	C10H22O	4,7-dimethyl-4-octanol	19781-13-6	0.26491	0.25492	618.02	0.28571	250.20	618.02	1,2	298.15	0.8220
21284	C10H22O	2-propyl-1-heptanol	10042-59-8	0.26012	0.25076	643.40	0.28571	247.78	643.40	1,2	298.15	0.8280
21285	C10H22O	3-isopropyl-1-heptanol	38514-15-7	0.26271	0.25005	642.75	0.28571	232.78	642.75	1,2	298.15	0.8380
21286	C10H22O	2,4,6-trimethyl-2-heptanol	66256-47-1	0.26760	0.25592	622.25	0.28571	235.20	622.25	2	298.15	0.8293
21287	C10H22O	2,5,6-trimethyl-2-heptanol	66256-48-2	0.26760	0.25683	622.45	0.28571	235.20	622.45	1,2	298.15	0.8270
21288	C10H22O	4,6,6-trimethyl-2-heptanol	51079-79-9	0.26760	0.25592	622.25	0.28571	235.20	622.25	2	298.15	0.8293
21289	C10H22O	2-methyl-3-ethyl-3-heptanol	66719-37-7	0.26491	0.24783	619.35	0.28571	250.20	619.35	1,2	298.15	0.8420
21290	C10H22O	4-methyl-5-ethyl-3-heptanol	66731-94-0	0.26535	0.24195	616.21	0.28571	217.78	616.21	1,2	298.15	0.8590
21291	C10H22O	5-methyl-3-ethyl-3-heptanol	---	0.26491	0.25140	619.15	0.28571	250.20	619.15	1,2	298.15	0.8320
21292	C10H22O	2,2,3-trimethyl-3-heptanol	29772-40-5	0.26715	0.25025	616.23	0.28571	267.62	616.23	1,2	298.15	0.8410
21293	C10H22O	2,2,6-trimethyl-3-heptanol	66256-43-7	0.26760	0.25884	618.25	0.28571	235.20	618.25	1,2	298.15	0.8200
21294	C10H22O	2,3,6-trimethyl-3-heptanol	58046-40-5	0.26760	0.25287	618.25	0.28571	235.20	618.25	1,2	298.15	0.8360
21295	C10H22O	3,5,5-trimethyl-3-heptanol	66256-50-6	0.26715	0.24823	629.12	0.28571	267.62	629.12	1,2	298.15	0.8520
21296	C10H22O	4-propyl-4-heptanol	2198-72-3	0.26228	0.24998	617.69	0.28571	265.20	617.69	1,2	298.15	0.8270
21297	C10H22O	4-isopropyl-4-heptanol	51200-82-9	0.26491	0.24759	615.36	0.28571	250.20	615.36	1,2	298.15	0.8410
21298	C10H22O	2,2,4-trimethyl-4-heptanol	57233-31-5	0.26715	0.25360	609.52	0.28571	267.62	609.52	1,2	298.15	0.8290
21299	C10H22O	2,2,5-trimethyl-4-heptanol	66256-42-6	0.26760	0.25270	607.56	0.28571	235.20	607.56	1,2	298.15	0.8320
21300	C10H22O	2,2,6-trimethyl-4-heptanol	66256-44-8	0.26760	0.25369	607.56	0.28571	235.20	607.56	2	298.15	0.8293
21301	C10H22O	2,4,5-trimethyl-4-heptanol	66256-46-0	0.26760	0.25369	607.56	0.28571	235.20	607.56	2	298.15	0.8293
21302	C10H22O	2,4,6-trimethyl-4-heptanol	60836-07-9	0.26760	0.25914	607.76	0.28571	235.20	607.76	1,2	298.15	0.8150
21303	C10H22O	3,3,6-trimethyl-4-heptanol	---	0.26760	0.25051	607.56	0.28571	235.20	607.56	1,2	298.15	0.8380
21304	C10H22O	4-methyl-2-propyl-1-hexanol	66256-62-0	0.26271	0.25347	633.27	0.28571	232.78	633.27	1,2	298.15	0.8250
21305	C10H22O	4-methyl-2-isopropyl-1-hexanol	66719-41-3	0.25885	0.24641	625.97	0.28571	216.41	625.97	2	298.15	0.8293
21306	C10H22O	5-methyl-2-isopropyl-1-hexanol	2051-33-4	0.26535	0.25636	642.85	0.28571	217.78	642.85	1,2	298.15	0.8290
21307	C10H22O	5,5-dimethyl-2-ethyl-1-hexanol	---	0.26491	0.25403	645.72	0.28571	250.20	645.72	1,2	298.15	0.8350
21308	C10H22O	2,3,4,4-tetramethyl-2-hexanol	66256-66-4	0.26988	0.25894	624.93	0.28571	252.62	624.93	2	298.15	0.8293
21309	C10H22O	3,3,5,5-tetramethyl-2-hexanol	66256-69-7	0.26988	0.25891	624.72	0.28571	252.62	624.72	2	298.15	0.8293
21310	C10H22O	2-methyl-3-isopropyl-3-hexanol	51200-81-8	0.26098	0.24211	620.04	0.28571	233.83	620.04	1,2	298.15	0.8460
21311	C10H22O	2,2-dimethyl-4-ethyl-3-hexanol	66719-47-9	0.26760	0.25451	614.44	0.28571	235.20	614.44	1,2	298.15	0.8300
21312	C10H22O	2,4-dimethyl-4-ethyl-3-hexanol	66719-48-0	0.26760	0.24482	614.24	0.28571	235.20	614.24	1,2	298.15	0.8570
21313	C10H22O	5,5-dimethyl-3-ethyl-3-hexanol	5340-62-5	0.26715	0.25223	617.38	0.28571	267.62	617.38	1,2	298.15	0.8360
21314	C10H22O	2,2,3,4-tetramethyl-3-hexanol	66256-63-1	0.26988	0.25036	627.63	0.28571	252.62	627.63	1,2	298.15	0.8540
21315	C10H22O	2,2,3,5-tetramethyl-3-hexanol	66256-64-2	0.26988	0.26542	692.84	0.28571	252.62	692.84	1,2	298.15	0.8350
21316	C10H22O	2,2,4,4-tetramethyl-3-hexanol	66256-65-3	0.26988	0.25104	624.93	0.28571	277.15	624.93	1,2	298.15	0.8510
21317	C10H22O	2,2,5,5-tetramethyl-3-hexanol	55073-86-4	0.26988	0.25477	597.94	0.28571	325.15	597.94	2	443.15	0.6836
21318	C10H22O	2,3,4,4-tetramethyl-3-hexanol	66256-67-5	0.26988	0.24652	639.77	0.28571	252.62	639.77	1,2	298.15	0.8700
21319	C10H22O	2,3,5,5-tetramethyl-3-hexanol	5396-09-8	0.26988	0.25946	640.92	0.28571	252.62	640.92	1,2	298.15	0.8340
21320	C10H22O	2,4,4,5-tetramethyl-3-hexanol	66256-68-6	0.27034	0.26126	637.55	0.28571	220.20	637.55	2	298.15	0.8294
21321	C10H22O	3,4,4,5-tetramethyl-3-hexanol	66256-39-1	0.26988	0.24670	641.12	0.28571	252.62	641.12	1,2	298.15	0.8700
21322	C10H22O	3,4,5,5-tetramethyl-3-hexanol	66256-40-4	0.26988	0.24953	631.67	0.28571	252.62	631.67	1,2	298.15	0.8580
21323	C10H22O	4-methyl-2-isobutyl-1-pentanol	22417-45-4	0.25885	0.24674	629.93	0.28571	216.41	629.93	1,2	298.15	0.8300
21324	C10H22O	4,4-dimethyl-3-isopropyl-1-pentanol	66719-51-5	0.26760	0.25390	608.90	0.28571	235.20	608.90	2	298.15	0.8293
21325	C10H22O	3,4-dimethyl-3-isopropyl-2-pentanol	66719-50-4	0.26359	0.24962	610.96	0.28571	218.83	610.96	2	298.15	0.8293
21326	C10H22O	2,4-dimethyl-3-propyl-3-pentanol	---	0.26760	0.24667	610.43	0.28571	235.20	610.43	1,2	298.15	0.8500
21327	C10H22O	2,4-dimethyl-3-isopropyl-3-pentanol	51200-83-0	0.26359	0.24148	626.57	0.28571	258.45	626.57	1,2	298.15	0.8591
21328	C10H22O	2,2,4-trimethyl-3-ethyl-3-pentanol	66256-41-5	0.26988	0.24877	626.28	0.28571	252.62	626.28	1,2	298.15	0.8580
21329	C10H22O	2,2,3,4,4-pentamethyl-3-pentanol	5857-69-2	0.27220	0.26346	637.91	0.28571	315.25	637.91	2	467.55	0.6794
21330	C10H22O	2,3-dimethyl-2-tert-butyl-1-butanol	81931-81-9	0.26988	0.25950	628.77	0.28571	327.15	628.77	2	466.00	0.6751
21331	C10H22O	3,7-dimethyl-3-octanol, (±)	57706-88-4	0.26473	0.25558	629.00	0.28571	304.65	629.00	1,2	469.65	0.6653
21332	C10H22O	3,7-dimethyl-1-octanol, (±)	59204-02-3	0.26473	0.25748	629.00	0.28571	246.36	629.00	1,2	298.15	0.8189
21333	C10H22O	3-ethyl-6-methyl-3-heptanol	66719-40-2	0.26473	0.25271	629.00	0.28571	246.36	629.00	1,2	298.15	0.8318
21334	C10H22O	8-methyl-1-nonanol	55505-26-5	0.26473	0.25359	629.00	0.28571	246.36	629.00	2	298.15	0.8293
21335	C10H22O	di-pentyl ether	693-65-2	0.26690	0.27148	622.00	0.29940	203.72	622.00	1,2	298.15	0.7800
21336	C10H22O	diisopentyl ether	544-01-4	0.26690	0.27718	622.00	0.28571	244.69	622.00	1,2	298.15	0.7741
21337	C10H22O	ethyl octyl ether	929-61-3	0.26690	0.27422	622.00	0.28571	285.65	622.00	1,2	298.15	0.7810
21338	C10H22O	(S)-(+)-2-decanol	33758-16-6	0.26473	0.25446	629.00	0.28571	246.36	629.00	1,2	298.15	0.8270
21339	C10H22O	(R)-3,7-dimethyl-1-octanol	1117-60-8	0.26473	0.25359	629.00	0.28571	246.36	629.00	2	298.15	0.8293
21340	C10H22O	s-3,7-dimethyl-1-octanol	68680-98-8	0.26473	0.25359	629.00	0.28571	246.36	629.00	2	298.15	0.8293
21341	C10H22O	decyl alcohol (mixed isomers)	85566-12-7	0.26473	0.25359	629.00	0.28571	246.36	629.00	2	298.15	0.8293
21347	C10H22O2	1,2-decanediol	1119-86-4	0.27774	0.26399	697.08	0.28571	322.15	697.08	2	553.15	0.6489
21348	C10H22O2	1,4-decanediol	37810-94-9	0.27774	0.26793	737.41	0.28571	301.15	737.41	2	585.15	0.6428
21349	C10H22O2	1,10-decanediol	112-47-0	0.27511	0.26328	719.06	0.28571	345.15	719.06	2	572.15	0.6422
21350	C10H22O2	2,9-decanediol	14021-92-2	0.27709	0.26519	716.12	0.28571	306.15	716.12	2	503.47	0.7081
21351	C10H22O2	3,7-dimethyl-1,7-octanediol	107-74-4	0.27709	0.24265	716.12	0.28571	320.44	716.12	1,2	538.15	0.7175
21352	C10H22O2	3,4-diethyl-3,4-hexanediol	6931-71-1	0.27709	0.23744	716.12	0.28571	301.15	716.12	1,2	503.15	0.7659
21355	C10H22O2	ethylene glycol dibutyl ether	112-48-1	0.27908	0.27487	672.00	0.28571	204.05	672.00	1,2	298.15	0.8319
21356	C10H22O2	ethylene glycol diisobutyl ether	54922-86-0	0.27908	0.28095	672.00	0.28571	204.05	672.00	1,2	298.15	0.8167
21357	C10H22O2	(S)-1,2-decanediol	84276-14-2	0.27709	0.26519	716.12	0.28571	333.15	716.12	2	503.47	0.7081
21358	C10H22O2	(R)-1,2-decanediol	87827-60-9	0.27709	0.26519	716.12	0.28571	334.15	716.12	2	503.47	0.7081
21359	C10H22O2	2-(2-ethylhexyloxy)ethanol	1559-35-9	0.27908	0.25651	672.00	0.28571	204.05	672.00	1,2	298.15	0.8820
21360	C10H22O2	2-(octyloxy)ethanol	10020-43-6	0.27908	0.25720	672.00	0.28571	204.05	672.00	1,2	298.15	0.8800
21362	C10H22O2	1,3-decanediol	6071-27-8	0.27774	0.26541	710.95	0.28571	320.44	710.95	2	503.47	0.7061

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
21380	C10H22O5	tetraethylene glycol dimethyl ether	143-24-8	0.32980	0.25824	705.00	0.35270	243.45	705.00	1,2	298.15	1.0060
21385	C10H22S	decyl mercaptan	143-10-2	0.27940	0.27935	696.00	0.26122	247.56	696.00	1,2	298.15	0.8410
21386	C10H22S	2-decanethiol	13402-60-3	0.27371	0.26960	690.00	0.28571	231.15	690.00	1,2	298.15	0.8348
21387	C10H22S	dipentyl sulfide	872-10-6	0.26840	0.26238	701.03	0.28571	221.85	701.03	1,2	298.15	0.8410
21388	C10H22S	methyl nonyl sulfide	59973-07-8	0.26840	0.26238	701.03	0.28571	238.16	701.03	1,2	298.15	0.8410
21389	C10H22S	ethyl octyl sulfide	3698-94-0	0.26840	0.26238	701.03	0.28571	238.16	701.03	1,2	298.15	0.8410
21390	C10H22S	propyl heptyl sulfide	24768-46-5	0.26840	0.26238	701.03	0.28571	238.16	701.03	1,2	298.15	0.8410
21391	C10H22S	butyl hexyl sulfide	16967-04-7	0.26840	0.26238	701.03	0.28571	238.16	701.03	1,2	298.15	0.8410
21392	C10H22S	bis(2-methylbutyl) sulfide	96034-00-3	0.26840	0.26591	701.03	0.28571	228.84	701.03	1,2	298.15	0.8315
21393	C10H22S	diisopentyl sulfide	544-02-5	0.26840	0.26684	701.03	0.28571	198.55	701.03	1,2	298.15	0.8290
21394	C10H22S2	dipentyl disulfide	112-51-6	0.29340	0.26545	726.94	0.28571	214.16	726.94	1,2	298.15	0.9180
21395	C10H22S2	diisopentyl disulfide	2051-04-9	0.29340	0.26621	726.94	0.28571	214.16	726.94	1,2	298.15	0.9157
21400	C10H23N	decylamine	2016-57-1	0.25010	0.25521	663.00	0.28570	288.85	663.00	1,2	298.15	0.7910
21401	C10H23N	methylnonylamine	39093-27-1	0.25371	0.26259	649.40	0.28571	254.62	649.40	1,2	298.15	0.7790
21402	C10H23N	dimethyloctylamine	7378-99-6	0.25371	0.26962	650.60	0.28571	198.15	650.60	1,2	298.15	0.7623
21403	C10H23N	diethylhexylamine	44979-90-0	0.24830	0.25665	617.59	0.28571	234.43	617.59	1,2	298.15	0.7660
21404	C10H23N	ethyloctylamine	4088-36-2	0.25371	0.26352	642.40	0.28571	254.62	642.40	1,2	298.15	0.7744
21405	C10H23N	dipentylamine	2050-92-2	0.25289	0.26290	644.40	0.28571	240.15	644.40	1,2	298.15	0.7741
21406	C10H23N	diisopentylamine	544-00-3	0.25207	0.26587	644.56	0.28571	229.15	644.56	1,2	298.15	0.7644
21407	C10H23N	N,N-diisopropylisobutylamine	44976-81-0	0.25207	0.26480	644.56	0.28571	216.29	644.56	1,2	298.15	0.7670
21408	C10H23NO	N,N-diisobutylethanolamine	4535-66-4	0.28814	0.29291	770.00	0.28571	290.00	770.00	1,2	487.15	0.7247
21409	C10H23NO	2-dibutylaminoethanol	102-81-8	0.28814	0.28821	770.00	0.28571	290.00	770.00	2	487.15	0.7336
21601	C11H10	1-methylnaphthalene	90-12-0	0.27190	0.22413	772.04	0.25709	242.67	772.04	1,2	298.15	1.0170
21602	C11H10	2-methylnaphthalene	91-57-6	0.28050	0.23545	761.00	0.25590	307.73	761.00	1,2	514.20	0.8294
21603	C11H10	methylnaphthalene	1321-94-4	0.27620	0.22495	766.52	0.28571	307.15	766.52	2	515.15	0.8173
21702	C11H11N	3-ethylquinoline	1873-54-7	0.30557	0.24304	775.67	0.28571	305.55	775.67	1,2	539.15	0.8369
21703	C11H11N	6-ethylquinoline	19655-60-8	0.30557	0.24373	771.14	0.28571	316.82	771.14	1,2	536.00	0.8352
21704	C11H11N	8-ethylquinoline	19655-56-2	0.30557	0.24218	761.28	0.28571	316.82	761.28	2	529.15	0.8390
21705	C11H11N	2,3-dimethylquinoline	1721-89-7	0.30557	0.22922	774.45	0.28571	343.15	774.45	1,2	536.15	0.8749
21706	C11H11N	2,4-dimethylquinoline	1198-37-4	0.30557	0.24335	776.40	0.28571	288.00	776.40	1,2	298.15	1.0460
21707	C11H11N	2,6-dimethylquinoline	877-43-0	0.30557	0.24318	773.81	0.28571	330.45	773.81	2	538.56	0.8358
21708	C11H11N	2,7-dimethylquinoline	93-37-8	0.30557	0.24323	774.45	0.28571	334.15	774.45	2	537.65	0.8371
21709	C11H11N	2,8-dimethylquinoline	1463-17-8	0.30557	0.24416	751.67	0.28571	334.15	751.67	1,2	523.15	0.8334
21710	C11H11N	3,4-dimethylquinoline	2436-92-2	0.30557	0.24255	765.83	0.28571	347.15	765.83	2	564.15	0.8041
21711	C11H11N	3,6-dimethylquinoline	20668-26-2	0.30557	0.24368	780.41	0.28571	330.15	780.41	2	543.15	0.8346
21712	C11H11N	3,7-dimethylquinoline	20668-28-4	0.30557	0.24379	781.85	0.28571	352.15	781.85	2	544.15	0.8343
21713	C11H11N	3,8-dimethylquinoline	20668-29-5	0.30557	0.24234	767.48	0.28571	300.45	767.48	1,2	534.15	0.8379
21714	C11H11N	4,5-dimethylquinoline	59129-74-7	0.30557	0.24311	773.01	0.28571	351.15	773.01	2	538.00	0.8360
21715	C11H11N	4,6-dimethylquinoline	826-77-7	0.30557	0.24180	783.28	0.28571	295.15	783.28	1,2	298.15	1.0539
21716	C11H11N	4,8-dimethylquinoline	13362-80-6	0.30557	0.24399	784.50	0.28571	330.15	784.50	2	546.00	0.8338
21717	C11H11N	5,6-dimethylquinoline	20668-30-8	0.30557	0.24399	784.50	0.28571	323.15	784.50	2	546.00	0.8338
21718	C11H11N	5,7-dimethylquinoline	20150-89-4	0.30557	0.24412	786.16	0.28571	295.15	786.16	2	298.15	1.0460
21719	C11H11N	6,7-dimethylquinoline	20668-33-1	0.30557	0.24410	785.94	0.28571	331.15	785.94	2	547.00	0.8336
21720	C11H11N	2,5-dimethylquinoline	26190-82-9	0.30557	0.24328	775.10	0.28571	334.15	775.10	2	537.65	0.8374
21721	C11H11N	5,8-dimethylquinoline	2623-50-9	0.30557	0.23780	775.10	0.28571	275.45	775.10	1,2	298.15	1.0668
21722	C11H11N	6,8-dimethylquinoline	2436-93-3	0.30557	0.24210	775.10	0.28571	321.72	775.10	1,2	541.65	0.8362
21723	C11H11N	2-ethylquinoline	1613-34-9	0.30557	0.24381	775.10	0.28571	321.72	775.10	1,2	518.65	0.8550
21791.1	C11H12	p-isopropylenylstyrene	16262-48-9	0.27159	0.23962	741.00	0.28571	200.00	741.00	2	298.15	0.9323
22025	C11H14	1-methyl-[1,2,3,4-tetrahydronaphthalene]	1559-81-5	0.29692	0.25666	722.13	0.28571	232.30	722.13	1,2	298.15	0.9548
22026	C11H14	2-methyl-[1,2,3,4-tetrahydronaphthalene]	3877-19-8	0.29692	0.26145	721.27	0.28571	230.15	721.27	1,2	298.15	0.9395
22027	C11H14	1,2,3,4-tetrahydro-5-methylnaphthalene	2809-64-5	0.29692	0.25250	721.70	0.28571	250.15	721.70	1,2	298.15	0.9681
22028	C11H14	1,2,3,4-tetrahydro-6-methylnaphthalene	1680-51-9	0.29692	0.25814	721.70	0.28571	233.15	721.70	1,2	298.15	0.9500
22035	C11H14	(1-ethylallyl)benzene	19947-22-9	0.28054	0.27521	703.00	0.28571	236.15	703.00	1,2	298.15	0.8445
22036	C11H14	(1-ethyl-1-propenyl)benzene	4701-36-4	0.28054	0.25419	703.00	0.28571	236.15	703.00	1,2	298.15	0.9038
22037	C11H14	4-isopropylstyrene	2055-40-5	0.27638	0.25534	685.00	0.28571	228.45	685.00	1,2	298.15	0.8812
22038	C11H14	(1-methyl-1-butenyl)benzene	53172-84-2	0.28054	0.25687	703.00	0.28571	236.15	703.00	1,2	298.15	0.8957
22039	C11H14	1-pentenylbenzene	826-18-6	0.28054	0.26362	703.00	0.28571	236.15	703.00	1,2	298.15	0.8761
22040	C11H14	3-pentenylbenzene	1745-16-0	0.28054	0.26155	703.00	0.28571	236.15	703.00	1,2	298.15	0.8820
22041	C11H14	4-pentenylbenzene	1075-74-7	0.28054	0.26041	703.00	0.28571	236.15	703.00	1,2	298.15	0.8853
22042	C11H14	2-vinyl-1,3,5-trimethylbenzene	769-25-5	0.28054	0.25478	703.00	0.28571	236.15	703.00	1,2	298.15	0.9020
22054	C11H14Cl2	2,4-bis(chloromethyl)-1,3,5-trimethylbenzene	1585-17-7	0.33748	0.25680	810.00	0.28571	378.65	810.00	2	570.00	0.8817
22113	C11H14O2	butyl benzoate	136-60-7	0.32110	0.26416	724.00	0.29710	251.65	724.00	1,2	298.15	1.0010
22304	C11H16	pentylbenzene	538-68-1	0.26950	0.25716	679.90	0.28130	198.15	679.90	1,2	298.15	0.8550
22305	C11H16	2-phenylpentane	2719-52-0	0.27581	0.26157	663.62	0.28571	224.65	663.62	1,2	298.15	0.8546
22306	C11H16	3-phenylpentane	1196-58-3	0.27581	0.26342	665.05	0.28571	224.65	665.05	1,2	298.15	0.8500
22307	C11H16	1-phenyl-2-methylbutane	3968-85-2	0.27581	0.26263	673.65	0.28571	224.65	673.65	1,2	298.15	0.8550
22308	C11H16	1-phenyl-3-methylbutane	2049-94-7	0.27581	0.26404	676.37	0.28571	224.65	676.37	1,2	298.15	0.8520
22309	C11H16	2-phenyl-2-methylbutane	2049-95-8	0.27840	0.26021	676.93	0.28571	242.07	676.93	1,2	298.15	0.8709
22310	C11H16	2-phenyl-3-methylbutane	4481-30-5	0.27892	0.26118	665.60	0.28571	209.65	665.60	1,2	298.15	0.8660
22311	C11H16	1-phenyl-2,2-dimethylpropane	1007-26-7	0.27840	0.26630	667.65	0.28571	242.07	667.65	1,2	298.15	0.8510
22312	C11H16	1-methyl-2-butylbenzene	1595-11-5	0.27277	0.25613	683.67	0.28571	252.17	683.67	1,2	298.15	0.8670
22313	C11H16	1-methyl-3-butylbenzene	1595-04-6	0.27277	0.25988	679.41	0.28571	252.17	679.41	1,2	298.15	0.8550
22314	C11H16	1-methyl-4-butylbenzene	1595-05-7	0.27277	0.25878	682.25	0.28571	188.15	682.25	1,2	298.15	0.8590
22315	C11H16	1-methyl-2-sec-butylbenzene	1595-06-8	0.27581	0.25737	671.35	0.28571	237.17	671.35	1,2	298.15	0.8690
22316	C11H16	1-methyl-3-sec-butylbenzene	1772-10-7	0.27581	0.26238	668.49	0.28571	237.17	668.49	1,2	298.15	0.8540
22317	C11H16	1-methyl-4-sec-butylbenzene	1595-16-0	0.27581	0.26001	672.78	0.28571	237.17	672.78	1,2	298.15	0.8620
22318	C11H16	1-methyl-2-isobutylbenzene	36301-29-8	0.27581	0.26020	671.35	0.28571	199.85	671.35	1,2	298.15	0.8610
22319	C11H16	1-methyl-3-isobutylbenzene	5160-99-6	0.27581	0.26395	668.49	0.28571	237.17	668.49	1,2	298.15	0.8497
22320	C11H16	1-methyl-4-isobutylbenzene	5161-04-6	0.27581	0.26500	671.35	0.28571	237.17	671.35	1,2	298.15	0.8478
22321	C11H16	1-methyl-2-tert-butyl benzene	1074-92-6	0.27840	0.25628	687.73	0.28571	222.83	687.73	1,2	298.15	0.8858

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
22322	C11H16	1-methyl-3-tert-butylbenzene	1075-38-3	0.27840	0.26282	671.48	0.28571	231.78	671.48	1,2	298.15	0.8618
22323	C11H16	1-methyl-4-tert-butylbenzene	98-51-1	0.27840	0.26505	676.56	0.28571	220.64	676.56	1,2	298.15	0.8573
22324	C11H16	1-ethyl-2-propylbenzene	16021-20-8	0.27277	0.25410	676.56	0.28571	252.17	676.56	1,2	298.15	0.8705
22325	C11H16	1-ethyl-3-propylbenzene	20024-91-3	0.27277	0.25857	673.72	0.28571	252.17	673.72	1,2	298.15	0.8568
22326	C11H16	1-ethyl-4-propylbenzene	20024-90-2	0.27277	0.25970	679.41	0.28571	252.17	679.41	1,2	298.15	0.8555
22327	C11H16	1-ethyl-2-isopropylbenzene	18970-44-0	0.27581	0.25118	662.77	0.28571	237.17	662.77	1,2	298.15	0.8840
22328	C11H16	1-ethyl-3-isopropylbenzene	4920-99-4	0.27581	0.26167	665.63	0.28571	237.17	665.63	1,2	298.15	0.8550
22329	C11H16	1-ethyl-4-isopropylbenzene	4218-48-8	0.27581	0.26261	672.21	0.28571	237.17	672.21	1,2	298.15	0.8546
22330	C11H16	1,2-dimethyl-3-propylbenzene	17059-44-8	0.27277	0.25117	686.65	0.28571	264.69	686.65	1,2	298.15	0.8825
22331	C11H16	1,2-dimethyl-4-propylbenzene	3982-66-9	0.27277	0.25597	684.10	0.28571	253.15	684.10	1,2	298.15	0.8676
22332	C11H16	1,3-dimethyl-2-propylbenzene	17059-45-9	0.27277	0.25095	682.26	0.28571	264.69	682.26	1,2	298.15	0.8817
22333	C11H16	1,3-dimethyl-4-propylbenzene	61827-85-8	0.27277	0.25532	680.84	0.28571	264.69	680.84	1,2	298.15	0.8684
22334	C11H16	1,3-dimethyl-5-propylbenzene	3982-64-7	0.27277	0.25868	674.65	0.28571	214.05	674.65	1,2	298.15	0.8568
22335	C11H16	1,4-dimethyl-2-propylbenzene	3042-50-0	0.27277	0.25515	677.57	0.28571	264.69	677.57	1,2	298.15	0.8678
22336	C11H16	1,2-dimethyl-3-isopropylbenzene	22539-65-7	0.27581	0.25321	679.93	0.28571	249.69	679.93	1,2	298.15	0.8840
22337	C11H16	1,2-dimethyl-4-isopropylbenzene	4132-77-8	0.27581	0.25929	678.79	0.28571	249.69	678.79	1,2	298.15	0.8660
22338	C11H16	1,3-dimethyl-2-isopropylbenzene	14411-75-7	0.27581	0.25194	674.78	0.28571	249.69	674.78	1,2	298.15	0.8860
22339	C11H16	1,3-dimethyl-4-isopropylbenzene	4706-89-2	0.27581	0.25779	674.93	0.28571	191.15	674.93	1,2	298.15	0.8690
22340	C11H16	1,3-dimethyl-5-isopropylbenzene	4706-90-5	0.27581	0.26091	668.35	0.28571	249.69	668.35	1,2	298.15	0.8580
22341	C11H16	1,4-dimethyl-2-isopropylbenzene	4132-72-3	0.27581	0.25698	670.78	0.28571	249.69	670.78	1,2	298.15	0.8699
22342	C11H16	1-methyl-2,3-diethylbenzene	13632-93-4	0.27277	0.24899	680.84	0.28571	264.69	680.84	1,2	298.15	0.8871
22343	C11H16	1-methyl-2,4-diethylbenzene	1758-85-6	0.27277	0.25420	678.57	0.28571	264.69	678.57	1,2	298.15	0.8709
22344	C11H16	1-methyl-2,5-diethylbenzene	13632-94-5	0.27277	0.25419	681.55	0.28571	264.69	681.55	1,2	298.15	0.8719
22345	C11H16	1-methyl-2,6-diethyl benzene	13632-95-6	0.27277	0.24944	683.96	0.28571	264.69	683.96	1,2	298.15	0.8868
22346	C11H16	1-methyl-3,4-diethylbenzene	13732-80-4	0.27277	0.25349	676.58	0.28571	264.69	676.58	1,2	298.15	0.8723
22347	C11H16	1-methyl-3,5-diethylbenzene	2050-24-0	0.27277	0.25761	672.46	0.28571	199.03	672.46	1,2	298.15	0.8591
22348	C11H16	1,2,3-trimethyl-4-ethylbenzene	61827-86-9	0.27277	0.24746	699.56	0.28571	277.21	699.56	1,2	298.15	0.8980
22349	C11H16	1,2,3-trimethyl-5-ethylbenzene	31366-00-4	0.27277	0.25190	693.04	0.28571	277.21	693.04	1,2	298.15	0.8824
22350	C11H16	1,2,4-trimethyl-3-ethylbenzene	61827-87-0	0.27277	0.24917	694.17	0.28571	277.21	694.17	1,2	298.15	0.8910
22351	C11H16	1,2,4-trimethyl-5-ethylbenzene	17851-27-3	0.27277	0.25261	689.07	0.28571	259.65	689.07	1,2	298.15	0.8790
22352	C11H16	1,2,4-trimethyl-6-ethylbenzene	---	0.27277	0.25033	689.07	0.28571	259.65	689.07	1,2	298.15	0.8858
22353	C11H16	1,3,5-trimethyl-2-ethylbenzene	3982-67-0	0.27277	0.25252	688.22	0.28571	257.65	688.22	1,2	298.15	0.8790
22354	C11H16	pentamethylbenzene	700-12-9	0.27277	0.24418	714.84	0.28571	327.45	714.84	1,2	504.95	0.7365
22355	C11H16	1-ethyl-2,3,5-trimethylbenzene	18262-85-6	0.27451	0.25097	678.03	0.28571	243.06	678.03	1,2	298.15	0.8858
22356	C11H16	sec-pentylbenzene	29316-05-0	0.27451	0.25755	678.03	0.28571	203.25	678.03	2	298.15	0.8666
22399	C11H16O	p-tert-amylphenol	80-46-6	0.30080	0.26115	751.00	0.28571	366.00	751.00	2	535.15	0.7703
22400	C11H16O	2-butyl-4-methylphenol	6891-45-8	0.30080	0.26020	751.00	0.28571	292.15	751.00	1,2	298.15	0.9645
22401	C11H16O	2-tert-butyl-4-methylphenol	2409-55-4	0.30080	0.26139	751.00	0.28571	324.65	751.00	1,2	510.15	0.7931
22402	C11H16O	2-tert-butyl-5-methylphenol	88-60-8	0.30080	0.26105	751.00	0.28571	319.65	751.00	1,2	486.71	0.8149
22403	C11H16O	2-tert-butyl-6-methylphenol	2219-82-1	0.30080	0.26037	751.00	0.28571	304.15	751.00	1,2	503.15	0.8017
22404	C11H16O	4-tert-butyl-2-methylphenol	98-27-1	0.30080	0.26113	751.00	0.28571	300.65	751.00	1,2	510.15	0.7937
22405	C11H16O	4-isopentylphenol	1805-61-4	0.30080	0.26324	751.00	0.28571	302.15	751.00	1,2	528.15	0.7725
22406	C11H16O	5-methyl-2-sec-butylphenol	29472-95-5	0.30080	0.26907	751.00	0.28571	322.97	751.00	1,2	519.15	0.7688
22407	C11H16O	pentamethylphenol	2819-86-5	0.30080	0.26115	751.00	0.28571	401.15	751.00	2	540.15	0.7654
22408	C11H16O	4-pentylphenol	14938-35-3	0.30080	0.26270	751.00	0.28571	296.15	751.00	1,2	298.15	0.9565
22439	C11H16O	2-(1-methylbutyl)phenol	87-26-3	0.30080	0.26115	751.00	0.28571	322.97	751.00	2	515.74	0.7885
22440	C11H16O	o-amylphenol	136-81-2	0.30080	0.26115	751.00	0.28571	322.97	751.00	2	486.71	0.8146
22441	C11H16O	2-sec-amylphenol	26401-74-1	0.30080	0.26115	751.00	0.28571	322.97	751.00	2	407.65	0.8801
22442	C11H16O	4-sec-amylphenol	25735-67-5	0.30080	0.26115	751.00	0.28571	322.97	751.00	2	409.65	0.8786
22492	C11H17N	N,N-diethyl-2-methylaniline	606-46-2	0.28842	0.25529	700.00	0.28571	213.15	700.00	1,2	298.15	0.9248
22493	C11H17N	N,N-diethyl-4-methylaniline	613-48-9	0.28842	0.25768	700.00	0.28571	319.40	700.00	1,2	502.15	0.7421
22494	C11H17N	4-isopentylaniline	104177-72-2	0.28842	0.25670	700.00	0.28571	319.40	700.00	1,2	530.15	0.7146
22495	C11H17N	N-isopentylaniline	2051-84-5	0.28842	0.25881	700.00	0.28571	319.40	700.00	1,2	527.65	0.7134
22496	C11H17N	2,3,4,5,6-pentamethylaniline	2243-30-3	0.28842	0.25877	700.00	0.28571	425.65	700.00	2	550.65	0.6880
22497	C11H17N	p-tert-pentylaniline	2049-92-5	0.28842	0.25877	700.00	0.28571	319.40	700.00	2	533.65	0.7070
22501	C11H17N	N,N-diethyl-m-toluidine	91-67-8	0.28842	0.25652	700.00	0.28571	319.40	700.00	1,2	504.65	0.7419
22502	C11H17N	N-ethyl-N-isopropylaniline	54813-77-3	0.28842	0.25489	700.00	0.28571	319.40	700.00	1,2	497.15	0.7529
22503	C11H17N	N,N,2,4,6-pentamethylaniline	13021-15-3	0.28842	0.26116	700.00	0.28571	319.40	700.00	1,2	487.15	0.7499
22504	C11H17N	4-pentylaniline	33228-44-3	0.28842	0.25717	700.00	0.28571	319.40	700.00	1,2	489.00	0.7563
22505	C11H17N	N-pentylaniline	2655-27-8	0.28842	0.25877	700.00	0.28571	319.40	700.00	2	531.15	0.7097
22554	C11H18	1-undecen-3-yne	74744-28-8	0.27617	0.28327	640.00	0.28571	330.00	640.00	1,2	474.15	0.6511
22586	C11H18O	2-heptylfuran	3777-71-7	0.33520	0.29694	660.00	0.28571	330.00	660.00	2	466.65	0.7882
22634	C11H18S	3-heptylthiophene	65016-61-7	0.28844	0.26071	725.00	0.28571	330.00	725.00	1,2	519.15	0.7371
22665	C11H20	1-methyl-cis-decahydronaphthalene	---	0.28597	0.26861	752.51	0.28571	225.04	752.51	1,2	298.15	0.8924
22666	C11H20	1-methyl-trans-decahydronaphthalene	---	0.28597	0.26757	740.84	0.28571	237.65	740.84	1,2	298.15	0.8924
22667	C11H20	2-methyl-cis-decahydronaphthalene	---	0.28597	0.26490	713.14	0.28571	225.04	713.14	1,2	298.15	0.8924
22668	C11H20	2-methyl-trans-decahydronaphthalene	4683-94-7	0.28597	0.26369	701.48	0.28571	237.65	701.48	1,2	298.15	0.8924
22669	C11H20	4a-methyl-cis-decahydronaphthalene	2547-26-4	0.28597	0.26475	711.69	0.28571	225.04	711.69	1,2	298.15	0.8924
22670	C11H20	4a-methyl-trans-decahydronaphthalene	2547-27-5	0.28597	0.26560	697.11	0.28571	237.65	697.11	1,2	298.15	0.8856
22671	C11H20	1-hexylcyclopentene	4291-99-0	0.26323	0.26299	665.48	0.28571	189.32	665.48	1,2	298.15	0.8125
22672	C11H20	1-undecyne	2243-98-3	0.24820	0.25999	650.99	0.28571	248.16	650.99	1,2	298.15	0.7690
22673	C11H20	2-undecyne	60212-29-5	0.24821	0.25823	669.50	0.28571	243.05	669.50	1,2	298.15	0.7793
22674	C11H20	3-undecyne	60212-30-8	0.24821	0.23532	661.12	0.28571	319.33	661.12	2	473.15	0.6816
22675	C11H20	4-undecyne	60212-31-9	0.24821	0.26011	660.54	0.28571	198.45	660.54	1,2	298.15	0.7718
22676	C11H20	5-undecyne	2294-72-6	0.24821	0.26007	660.54	0.28571	199.05	660.54	1,2	298.15	0.7719
22677	C11H20	3,3-dimethyl-4-nonyne	29022-31-9	0.24821	0.26352	660.54	0.28571	241.61	660.54	1,2	298.15	0.7633
22701	C11H20O2	2-ethylhexyl acrylate	103-11-7	0.28840	0.24215	655.00	0.39520	183.15	655.00	1,2	298.15	0.8800
22704	C11H20O2	cis-9-undecenoic acid	116836-30-7	0.27302	0.25183	796.00	0.28571	275.65	796.00	1,2	298.15	0.9119
22705	C11H20O2	trans-9-undecenoic acid	37973-84-5	0.27302	0.25185	796.00	0.28571	292.15	796.00	1,2	298.15	0.9118
22706	C11H20O2	10-undecenoic acid	112-38-9	0.27302	0.25351	796.00	0.28571	297.65	796.00	1,2	298.15	0.9066

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$									(density - g/ml, T - K)
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
22707	C11H20O2	vinyl nonanoate	6280-03-1	0.31860	0.30396	672.00	0.28571	330.00	672.00	1,2	512.58	0.7016
22708	C11H20O2	allyl octanoate	4230-97-1	0.31860	0.31123	672.00	0.28571	330.00	672.00	1,2	498.15	0.7043
22713	C11H20O2	N-octyl acrylate	2499-59-4	0.31860	0.28672	672.00	0.28571	330.00	672.00	2	512.58	0.7293
22714	C11H20O2	citronellyl formate	105-85-1	0.31860	0.28672	672.00	0.28571	330.00	672.00	2	512.58	0.7293
22715	C11H20O2	cis-3-hexenyl 2-methylbutyrate	53398-85-9	0.31860	0.28672	672.00	0.28571	330.00	672.00	2	512.58	0.7293
22716	C11H20O2	cis-3-hexenyl valerate	35852-46-1	0.31860	0.28672	672.00	0.28571	330.00	672.00	2	512.58	0.7293
22718	C11H20O2	isooctyl acrylate	29590-42-9	0.31860	0.28672	672.00	0.28571	330.00	672.00	2	512.58	0.7293
22749	C11H21Br	cis-1-bromo-1-undecene	66142-59-4	0.33625	0.26297	699.36	0.28571	267.95	699.36	1,2	298.15	1.0510
22750	C11H21Br	trans-1-bromo-1-undecene	66142-60-7	0.33625	0.26297	699.36	0.28571	267.95	699.36	1,2	298.15	1.0510
22751	C11H21Br	11-bromo-1-undecene	7766-50-9	0.33625	0.25949	699.36	0.28571	267.95	699.36	1,2	298.15	1.0630
22755	C11H21Br3	1,1,1-tribromoundecane	62127-68-8	0.47550	0.25704	795.21	0.28571	395.05	795.21	2	599.15	1.1820
22756	C11H21Cl	cis-1-chloro-1-undecene	66172-73-4	0.27736	0.25924	700.84	0.28571	238.07	700.84	1,2	298.15	0.8780
22757	C11H21Cl	trans-1-chloro-1-undecene	66142-61-8	0.27736	0.25924	700.84	0.28571	238.07	700.84	1,2	298.15	0.8780
22762	C11H21Cl3	1,1,1-trichloroundecane	3922-25-6	0.32971	0.25712	738.37	0.28571	305.41	738.37	2	553.15	0.8231
22764	C11H21F	cis-1-fluoro-1-undecene	66172-74-5	0.26526	0.25201	615.67	0.28571	240.30	615.67	1,2	298.15	0.8300
22765	C11H21F	trans-1-fluoro-1-undecene	66142-62-9	0.26526	0.25201	615.67	0.28571	240.30	615.67	1,2	298.15	0.8300
22767	C11H21F3	1,1,1-trifluoroundecane	62126-97-0	0.30609	0.25617	620.00	0.28571	312.10	620.00	2	462.15	0.7691
22768	C11H21I	cis-1-iodo-1-undecene	66142-63-0	0.38943	0.26460	735.45	0.28571	266.21	735.45	1,2	298.15	1.2250
22769	C11H21I	trans-1-iodo-1-undecene	66142-64-1	0.38943	0.26460	735.45	0.28571	266.21	735.45	1,2	298.15	1.2250
22770	C11H21I3	1,1,1-triiodoundecane	---	0.59038	0.27021	978.49	0.28571	389.83	978.49	2	727.27	1.4338
22771	C11H21N	undecanenitrile	2244-07-7	0.24544	0.24455	706.20	0.28571	267.35	706.20	1,2	298.15	0.8182
22791	C11H22	hexylcyclopentane	4457-00-5	0.26040	0.26749	667.67	0.28571	200.16	667.67	1,2	298.15	0.7930
22792	C11H22	pentylcyclohexane	4292-92-6	0.26400	0.26982	674.01	0.28571	215.66	674.01	1,2	298.15	0.8000
22793	C11H22	isopentylcyclohexane	54105-76-9	0.26400	0.27024	674.01	0.28571	215.66	674.01	1,2	298.15	0.7989
22794	C11H22	cycloundecane	294-41-7	0.28285	0.27499	728.78	0.28571	251.45	728.78	1,2	298.15	0.8590
22795	C11H22	1-undecene	821-95-4	0.24030	0.25621	638.00	0.29033	223.99	638.00	1,2	298.15	0.7470
22796	C11H22	cis-2-undecene	821-96-5	0.24193	0.25641	637.84	0.28571	206.65	637.84	1,2	298.15	0.7540
22797	C11H22	trans-2-undecene	693-61-8	0.24193	0.25837	637.84	0.28571	224.85	637.84	1,2	298.15	0.7492
22798	C11H22	3-undecene	60669-40-1	0.24193	0.25886	637.84	0.28571	211.15	637.84	1,2	298.15	0.7481
22799	C11H22	cis-4-undecene	821-98-7	0.24193	0.25783	637.84	0.28571	176.15	637.84	1,2	298.15	0.7505
22800	C11H22	trans-4-undecene	693-62-9	0.24193	0.25919	637.84	0.28571	209.45	637.84	1,2	298.15	0.7473
22801	C11H22	cis-5-undecene	764-96-5	0.24193	0.25800	637.84	0.28571	166.65	637.84	1,2	298.15	0.7501
22802	C11H22	trans-5-undecene	764-97-6	0.24193	0.25964	637.84	0.28571	212.05	637.84	1,2	298.15	0.7462
22803	C11H22	2-methyl-1-decene	13151-27-4	0.24356	0.25987	637.68	0.28571	221.67	637.68	1,2	298.15	0.7506
22805	C11H22Br2	1,1-dibromoundecane	62168-28-9	0.40819	0.25631	754.56	0.28571	317.83	754.56	2	567.15	1.0186
22806	C11H22Br2	1,11-dibromoundecane	16696-65-4	0.40819	0.25744	754.56	0.28571	439.15	754.56	1,2	567.15	1.0156
22807	C11H22Cl2	1,1-dichloroundecane	822-01-5	0.30289	0.26115	720.08	0.28571	258.07	720.08	1,2	298.15	0.9590
22809	C11H22F2	1,1-difluoroundecane	62127-44-0	0.28572	0.26040	640.20	0.28571	262.53	640.20	1,2	298.15	0.8800
22810	C11H22I2	1,1-diiodoundecane	66142-53-8	0.49678	0.26538	855.13	0.28571	314.35	855.13	2	636.92	1.2194
22822	C11H22O	undecanal	112-44-7	0.26950	0.26220	672.00	0.30963	273.15	672.00	1,2	298.15	0.8230
22823	C11H22O	2-undecanone	112-12-9	0.25900	0.25593	678.01	0.28571	285.95	678.01	1,2	298.15	0.8220
22824	C11H22O	3-undecanone	2216-87-7	0.25900	0.25535	678.01	0.28571	285.15	678.01	1,2	298.15	0.8236
22825	C11H22O	4-undecanone	14476-37-0	0.25900	0.25397	678.01	0.28571	275.45	678.01	1,2	298.15	0.8274
22826	C11H22O	5-undecanone	33083-83-9	0.25900	0.25539	678.01	0.28571	274.15	678.01	1,2	298.15	0.8235
22827	C11H22O	6-undecanone	927-49-1	0.25900	0.25405	678.01	0.28571	287.65	678.01	1,2	298.15	0.8272
22828	C11H22O	10-undecen-1-ol	112-43-6	0.27953	0.26959	657.00	0.28571	272.15	657.00	1,2	298.15	0.8421
22829	C11H22O	2-undecen-4-ol	22381-86-8	0.27953	0.27010	657.00	0.28571	275.65	657.00	1,2	298.15	0.8408
22830	C11H22O	9-undecen-1-ol	112-46-9	0.27953	0.26914	657.00	0.28571	279.15	657.00	1,2	298.15	0.8433
22831	C11H22O	4-tert-amylcyclohexanol	5349-51-9	0.28887	0.26021	675.00	0.28571	298.65	675.00	1,2	507.63	0.7133
22834	C11H22O	2-methyl-1-decanal	19009-56-4	0.26950	0.26148	672.00	0.28571	273.15	672.00	2	298.15	0.8380
22835	C11H22O2	undecanoic acid	112-37-8	0.27579	0.25681	725.00	0.28571	301.65	725.00	1,2	557.35	0.6747
22836	C11H22O2	decyl formate	5451-52-5	0.26960	0.25363	685.60	0.28571	271.93	685.60	2	298.15	0.8647
22837	C11H22O2	nonyl acetate	143-13-5	0.26882	0.25321	678.70	0.28571	247.15	678.70	1,2	298.15	0.8612
22838	C11H22O2	octyl propanoate	142-60-9	0.26882	0.25269	677.20	0.28571	231.55	677.20	1,2	298.15	0.8622
22839	C11H22O2	heptyl butanoate	5870-93-9	0.26882	0.25322	675.50	0.28571	215.65	675.50	1,2	298.15	0.8601
22840	C11H22O2	butyl heptanoate	5454-28-4	0.28353	0.26680	652.00	0.28571	205.65	652.00	1,2	298.15	0.8600
22841	C11H22O2	ethyl nonanoate	123-29-5	0.28353	0.26611	652.00	0.28571	236.45	652.00	1,2	298.15	0.8618
22842	C11H22O2	hexyl pentanoate	1117-59-5	0.28353	0.26691	652.00	0.28571	210.05	652.00	1,2	298.15	0.8597
22843	C11H22O2	isopentyl hexanoate	2198-61-0	0.28353	0.26783	652.00	0.28571	226.73	652.00	1,2	298.15	0.8572
22844	C11H22O2	pentyl hexanoate	540-07-8	0.28353	0.26634	652.00	0.28571	226.15	652.00	1,2	298.15	0.8612
22845	C11H22O2	isobutyl heptanoate	7779-80-8	0.28353	0.26846	652.00	0.28571	226.73	652.00	1,2	298.15	0.8555
22846	C11H22O2	isopropyl octanoate	5458-59-3	0.28353	0.26987	652.00	0.28571	226.73	652.00	1,2	298.15	0.8517
22847	C11H22O2	propyl octanoate	624-13-5	0.28353	0.26603	652.00	0.28571	226.95	652.00	1,2	298.15	0.8620
22848	C11H22O2	methyl decanoate	110-42-9	0.28353	0.26347	652.00	0.28571	255.15	652.00	1,2	298.15	0.8691
22851	C11H22O2	6-methyldecanoic acid	53696-14-3	0.27579	0.26452	725.00	0.28571	301.65	725.00	2	489.73	0.7233
22853	C11H22O2	hexyl 2,2-dimethylpropanoate	5434-57-1	0.26882	0.25184	677.20	0.28571	231.55	677.20	2	298.15	0.8647
22854	C11H22O2	hexyl isovalerate	10032-13-0	0.28353	0.26509	652.00	0.28571	226.73	652.00	2	298.15	0.8646
22855	C11H22O2	hexyl 2-methylbutyrate	10032-15-2	0.28353	0.26509	652.00	0.28571	226.73	652.00	2	298.15	0.8646
22856	C11H22O2	3,5,5-trimethylhexyl acetate	58430-94-7	0.26882	0.25201	678.70	0.28571	247.15	678.70	2	298.15	0.8647
22866	C11H22S	thiacyclododecane	294-65-5	0.31939	0.30246	796.44	0.28571	287.18	796.44	1,2	298.15	0.9089
22870	C11H23Br	1-bromoundecane	693-67-4	0.32965	0.25881	713.07	0.28571	263.45	713.07	1,2	298.15	1.0494
22872	C11H23Cl	1-chloroundecane	2473-03-2	0.27231	0.25797	696.43	0.28571	256.25	696.43	1,2	298.15	0.8643
22875	C11H23F	1-fluoroundecane	506-05-8	0.26290	0.25740	641.60	0.28571	257.15	641.60	1,2	298.15	0.8181
22876	C11H23I	1-iodoundecane	4282-44-4	0.42089	0.28894	715.99	0.28571	275.15	715.99	1,2	298.15	1.2203
22885	C11H23NO2	1-nitroundecane	2216-25-3	0.27445	0.24276	729.26	0.28571	356.84	729.26	2	555.15	0.7028
22890	C11H24	undecane	1120-21-4	0.23790	0.25839	638.76	0.28571	247.57	638.76	1,2	298.15	0.7370
22891	C11H24	2-methyldecane	6975-98-0	0.24216	0.26464	631.76	0.28571	224.29	631.76	1,2	298.15	0.7331
22892	C11H24	3-methyldecane	13151-34-3	0.24216	0.26200	632.86	0.28571	180.25	632.86	1,2	298.15	0.7396
22893	C11H24	4-methyldecane	2847-72-5	0.24216	0.26206	629.99	0.28571	181.15	629.99	1,2	298.15	0.7385
22894	C11H24	5-methyldecane	13151-35-4	0.24216	0.26139	627.40	0.28571	198.23	627.40	1,2	298.15	0.7392

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
22895	C11H24	3-ethylnonane	17302-11-3	0.24216	0.25909	630.13	0.28571	198.23	630.13	1,2	298.15	0.7456
22896	C11H24	4-ethylnonane	5911-05-7	0.24216	0.25864	624.66	0.28571	198.23	624.66	1,2	298.15	0.7448
22897	C11H24	5-ethylnonane	17302-12-4	0.24216	0.25795	619.20	0.28571	198.23	619.20	1,2	298.15	0.7445
22898	C11H24	2,2-dimethylnonane	17302-14-6	0.24405	0.26708	626.62	0.28571	215.65	626.62	1,2	298.15	0.7315
22899	C11H24	2,3-dimethylnonane	2884-06-2	0.24443	0.26291	631.11	0.28571	183.23	631.11	1,2	298.15	0.7438
22900	C11H24	2,4-dimethylnonane	17302-24-8	0.24443	0.26517	620.12	0.28571	183.23	620.12	1,2	298.15	0.7348
22901	C11H24	2,5-dimethylnonane	17302-27-1	0.24443	0.26464	621.49	0.28571	183.23	621.49	1,2	298.15	0.7365
22902	C11H24	2,6-dimethylnonane	17302-28-2	0.24443	0.26451	621.49	0.28571	183.23	621.49	1,2	298.15	0.7368
22903	C11H24	2,7-dimethylnonane	17302-29-3	0.24443	0.26450	622.87	0.28571	183.23	622.87	1,2	298.15	0.7373
22904	C11H24	2,8-dimethylnonane	17302-30-6	0.24443	0.26843	626.99	0.28571	183.23	626.99	1,2	298.15	0.7297
22905	C11H24	3,3-dimethylnonane	17302-15-7	0.24405	0.26226	629.38	0.28571	215.65	629.38	1,2	298.15	0.7436
22906	C11H24	3,4-dimethylnonane	17302-22-6	0.24443	0.26116	629.74	0.28571	183.23	629.74	1,2	298.15	0.7475
22907	C11H24	3,5-dimethylnonane	17302-25-9	0.24443	0.26223	622.87	0.28571	183.23	622.87	1,2	298.15	0.7426
22908	C11H24	3,6-dimethylnonane	17302-31-7	0.24443	0.26250	625.61	0.28571	183.23	625.61	1,2	298.15	0.7429
22909	C11H24	3,7-dimethylnonane	17302-32-8	0.24443	0.26265	628.36	0.28571	183.23	628.36	1,2	298.15	0.7435
22910	C11H24	4,4-dimethylnonane	17302-18-0	0.24405	0.26167	623.85	0.28571	215.65	623.85	1,2	298.15	0.7431
22911	C11H24	4,5-dimethylnonane	17302-23-7	0.24443	0.26056	625.61	0.28571	183.23	625.61	1,2	298.15	0.7475
22912	C11H24	4,6-dimethylnonane	17302-26-0	0.24443	0.26211	621.49	0.28571	183.23	621.49	1,2	298.15	0.7424
22913	C11H24	5,5-dimethylnonane	6414-96-6	0.24405	0.26159	622.47	0.28571	215.65	622.47	1,2	298.15	0.7428
22914	C11H24	4-propyloctane	17302-13-5	0.24216	0.25942	619.20	0.28571	198.23	619.20	1,2	298.15	0.7410
22915	C11H24	4-isopropyloctane	62016-15-3	0.24443	0.25941	620.12	0.28571	183.23	620.12	1,2	298.15	0.7483
22916	C11H24	2-methyl-3-ethyloctane	62016-16-4	0.24443	0.25985	625.61	0.28571	183.23	625.61	1,2	298.15	0.7492
22917	C11H24	2-methyl-4-ethyloctane	62016-17-5	0.24443	0.26174	617.37	0.28571	183.23	617.37	1,2	298.15	0.7418
22918	C11H24	2-methyl-5-ethyloctane	62016-18-6	0.24443	0.26203	620.12	0.28571	183.23	620.12	1,2	298.15	0.7421
22919	C11H24	2-methyl-6-ethyloctane	62016-19-7	0.24443	0.26250	625.61	0.28571	183.23	625.61	1,2	298.15	0.7429
22920	C11H24	3-methyl-3-ethyloctane	17302-16-8	0.24405	0.25893	634.50	0.28571	215.65	634.50	1,2	298.15	0.7533
22921	C11H24	3-methyl-4-ethyloctane	62016-20-0	0.24443	0.25737	625.61	0.28571	183.23	625.61	1,2	298.15	0.7552
22922	C11H24	3-methyl-5-ethyloctane	62016-21-1	0.24443	0.26043	617.37	0.28571	183.23	617.37	1,2	298.15	0.7449
22923	C11H24	3-methyl-6-ethyloctane	62016-22-2	0.24443	0.25985	625.61	0.28571	183.23	625.61	1,2	298.15	0.7492
22924	C11H24	4-methyl-3-ethyloctane	62016-23-3	0.24443	0.25744	626.99	0.28571	183.23	626.99	1,2	298.15	0.7555
22925	C11H24	4-methyl-4-ethyloctane	17302-19-1	0.24405	0.25682	626.62	0.28571	215.65	626.62	1,2	298.15	0.7557
22926	C11H24	4-methyl-5-ethyloctane	62016-24-4	0.24443	0.25709	622.87	0.28571	183.23	622.87	1,2	298.15	0.7549
22927	C11H24	4-methyl-6-ethyloctane	62016-25-5	0.24443	0.25970	622.87	0.28571	183.23	622.87	1,2	298.15	0.7486
22928	C11H24	2,2,3-trimethyloctane	62016-26-6	0.24635	0.26329	629.17	0.28571	200.65	629.17	1,2	298.15	0.7481
22929	C11H24	2,2,4-trimethyloctane	18932-14-4	0.24635	0.26766	618.73	0.28571	200.65	618.73	1,2	298.15	0.7344
22930	C11H24	2,2,5-trimethyloctane	62016-27-7	0.24635	0.26756	618.03	0.28571	200.65	618.03	1,2	298.15	0.7344
22931	C11H24	2,2,6-trimethyloctane	62016-28-8	0.24635	0.26796	622.21	0.28571	200.65	622.21	1,2	298.15	0.7349
22932	C11H24	2,2,7-trimethyloctane	62016-29-9	0.24635	0.26978	616.64	0.28571	200.65	616.64	1,2	298.15	0.7289
22933	C11H24	2,3,3-trimethyloctane	62016-30-2	0.24635	0.26112	633.34	0.28571	200.65	633.34	1,2	298.15	0.7547
22934	C11H24	2,3,4-trimethyloctane	62016-31-3	0.24674	0.26112	626.67	0.28571	168.23	626.67	1,2	298.15	0.7536
22935	C11H24	2,3,5-trimethyloctane	62016-32-4	0.24674	0.26342	622.52	0.28571	168.23	622.52	1,2	298.15	0.7467
22936	C11H24	2,3,6-trimethyloctane	62016-33-5	0.24674	0.26377	626.67	0.28571	168.23	626.67	1,2	298.15	0.7473
22937	C11H24	2,3,7-trimethyloctane	62016-34-6	0.24674	0.26623	625.29	0.28571	168.23	625.29	1,2	298.15	0.7411
22938	C11H24	2,4,4-trimethyloctane	62016-35-7	0.24635	0.26576	618.03	0.28571	200.65	618.03	1,2	298.15	0.7385
22939	C11H24	2,4,5-trimethyloctane	62016-36-8	0.24674	0.26330	621.14	0.28571	168.23	621.14	1,2	298.15	0.7465
22940	C11H24	2,4,6-trimethyloctane	62016-37-9	0.24674	0.26567	618.37	0.28571	168.23	618.37	1,2	298.15	0.7400
22941	C11H24	2,4,7-trimethyloctane	62016-38-0	0.24674	0.26952	614.22	0.28571	168.23	614.22	1,2	298.15	0.7298
22942	C11H24	2,5,5-trimethyloctane	62016-39-1	0.24635	0.26511	619.43	0.28571	200.65	619.43	1,2	298.15	0.7405
22943	C11H24	2,5,6-trimethyloctane	62016-14-2	0.24674	0.26349	623.90	0.28571	168.23	623.90	1,2	298.15	0.7470
22944	C11H24	2,6,6-trimethyloctane	54166-32-4	0.24635	0.26559	624.99	0.28571	200.65	624.99	1,2	298.15	0.7413
22945	C11H24	3,3,4-trimethyloctane	62016-40-4	0.24635	0.25849	633.34	0.28571	200.65	633.34	1,2	298.15	0.7611
22946	C11H24	3,3,5-trimethyloctane	62016-41-5	0.24635	0.26274	622.21	0.28571	200.65	622.21	1,2	298.15	0.7470
22947	C11H24	3,3,6-trimethyloctane	62016-42-6	0.24635	0.26315	626.38	0.28571	200.65	626.38	1,2	298.15	0.7475
22948	C11H24	3,4,4-trimethyloctane	62016-43-7	0.24635	0.25838	631.95	0.28571	200.65	631.95	1,2	298.15	0.7609
22949	C11H24	3,4,5-trimethyloctane	62016-44-8	0.24674	0.25868	628.05	0.28571	168.23	628.05	1,2	298.15	0.7600
22950	C11H24	3,4,6-trimethyloctane	62016-45-9	0.24674	0.26105	625.29	0.28571	168.23	625.29	1,2	298.15	0.7533
22951	C11H24	3,5,5-trimethyloctane	61868-94-8	0.24635	0.26203	616.64	0.28571	200.65	616.64	1,2	298.15	0.7467
22952	C11H24	4,4,5-trimethyloctane	61868-95-9	0.24635	0.25830	630.56	0.28571	200.65	630.56	1,2	298.15	0.7606
22953	C11H24	4-tert-butylheptane	60302-21-8	0.24635	0.26022	622.21	0.28571	200.65	622.21	1,2	298.15	0.7530
22954	C11H24	2-methyl-4-propylheptane	61868-96-0	0.24443	0.26158	614.62	0.28571	183.23	614.62	1,2	298.15	0.7412
22955	C11H24	3-methyl-4-propylheptane	61868-97-1	0.24443	0.25701	621.49	0.28571	183.23	621.49	1,2	298.15	0.7546
22956	C11H24	4-methyl-4-propylheptane	17302-20-4	0.24405	0.25663	623.85	0.28571	215.65	623.85	1,2	298.15	0.7552
22957	C11H24	2-methyl-3-isopropylheptane	6876-18-2	0.24674	0.26136	624.32	0.28571	168.23	624.32	1,2	298.15	0.7522
22958	C11H24	2-methyl-4-isopropylheptane	61868-98-2	0.24674	0.26284	615.61	0.28571	168.23	615.61	1,2	298.15	0.7456
22959	C11H24	3-methyl-4-isopropylheptane	61868-99-3	0.24674	0.25820	622.52	0.28571	168.23	622.52	1,2	298.15	0.7592
22960	C11H24	4-methyl-4-isopropylheptane	61869-00-9	0.24635	0.25568	630.56	0.28571	200.65	630.56	1,2	298.15	0.7671
22961	C11H24	3,3-diethylheptane	17302-17-9	0.24405	0.25378	636.16	0.28571	215.65	636.16	1,2	298.15	0.7666
22962	C11H24	3,4-diethylheptane	61869-01-0	0.24443	0.25445	622.87	0.28571	183.23	622.87	1,2	298.15	0.7614
22963	C11H24	3,5-diethylheptane	61869-02-1	0.24443	0.25689	621.49	0.28571	183.23	621.49	1,2	298.15	0.7549
22964	C11H24	4,4-diethylheptane	17302-21-5	0.24405	0.25369	627.03	0.28571	215.65	627.03	1,2	298.15	0.7636
22965	C11H24	2,2-dimethyl-3-ethylheptane	61869-03-2	0.24635	0.25791	624.99	0.28571	200.65	624.99	1,2	298.15	0.7596
22966	C11H24	2,2-dimethyl-4-ethylheptane	62016-46-0	0.24635	0.26465	613.86	0.28571	200.65	613.86	1,2	298.15	0.7396
22967	C11H24	2,2-dimethyl-5-ethylheptane	62016-47-1	0.24635	0.26511	619.43	0.28571	200.65	619.43	1,2	298.15	0.7405
22968	C11H24	2,3-dimethyl-3-ethylheptane	61868-21-1	0.24635	0.25544	630.56	0.28571	200.65	630.56	1,2	298.15	0.7677
22969	C11H24	2,3-dimethyl-4-ethylheptane	61868-22-2	0.24674	0.25852	625.29	0.28571	168.23	625.29	1,2	298.15	0.7594
22970	C11H24	2,3-dimethyl-5-ethylheptane	61868-23-3	0.24674	0.26097	623.90	0.28571	168.23	623.90	1,2	298.15	0.7530
22971	C11H24	2,4-dimethyl-3-ethylheptane	61868-24-4	0.24674	0.25852	625.29	0.28571	168.23	625.29	1,2	298.15	0.7594
22972	C11H24	2,4-dimethyl-4-ethylheptane	61868-25-5	0.24635	0.25939	616.64	0.28571	247.15	616.64	1,2	298.15	0.7530
22973	C11H24	2,4-dimethyl-5-ethylheptane	61868-26-6	0.24674	0.26064	621.14	0.28571	168.23	621.14	1,2	298.15	0.7528
22974	C11H24	2,5-dimethyl-3-ethylheptane	61868-27-7	0.24674	0.26064	621.14	0.28571	168.23	621.14	1,2	298.15	0.7528

Table 3 Density of Liquid - Organic Compounds

			density = A B^-(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
22975	C11H24	2,5-dimethyl-4-ethylheptane	61868-28-8	0.24674	0.26056	619.75	0.28571	168.23	619.75	1,2	298.15	0.7525
22976	C11H24	2,5-dimethyl-5-ethylheptane	61868-29-9	0.24635	0.26070	627.77	0.28571	200.65	627.77	1,2	298.15	0.7538
22977	C11H24	2,6-dimethyl-3-ethylheptane	61868-30-2	0.24674	0.26330	621.14	0.28571	168.23	621.14	1,2	298.15	0.7465
22978	C11H24	2,6-dimethyl-4-ethylheptane	61868-31-3	0.24674	0.26521	612.84	0.28571	168.23	612.84	1,2	298.15	0.7391
22979	C11H24	3,3-dimethyl-4-ethylheptane	61868-32-4	0.24635	0.25568	630.56	0.28571	200.65	630.56	1,2	298.15	0.7671
22980	C11H24	3,3-dimethyl-5-ethylheptane	61868-33-5	0.24635	0.26030	623.60	0.28571	200.65	623.60	1,2	298.15	0.7533
22981	C11H24	3,4-dimethyl-3-ethylheptane	61868-34-6	0.24635	0.25364	637.52	0.28571	200.65	637.52	1,2	298.15	0.7747
22982	C11H24	3,4-dimethyl-4-ethylheptane	61868-35-7	0.24635	0.25952	631.95	0.28571	200.65	631.95	1,2	298.15	0.7581
22983	C11H24	3,4-dimethyl-5-ethylheptane	61868-36-8	0.24674	0.25620	629.43	0.28571	168.23	629.43	1,2	298.15	0.7666
22984	C11H24	3,5-dimethyl-3-ethylheptane	61868-37-9	0.24635	0.25892	630.56	0.28571	200.65	630.56	1,2	298.15	0.7591
22985	C11H24	3,5-dimethyl-4-ethylheptane	61868-38-0	0.24674	0.25612	628.05	0.28571	168.23	628.05	1,2	298.15	0.7663
22986	C11H24	4,4-dimethyl-3-ethylheptane	61868-39-1	0.24635	0.25488	624.99	0.28571	200.65	624.99	1,2	298.15	0.7671
22987	C11H24	2,2,3,3-tetramethylheptane	61868-40-4	0.24831	0.26037	638.82	0.28571	218.07	638.82	1,2	298.15	0.7644
22988	C11H24	2,2,3,4-tetramethylheptane	61868-41-5	0.24871	0.26200	629.04	0.28571	185.65	629.04	1,2	298.15	0.7583
22989	C11H24	2,2,3,5-tetramethylheptane	61868-42-6	0.24871	0.26436	626.24	0.28571	185.65	626.24	1,2	298.15	0.7517
22990	C11H24	2,2,3,6-tetramethylheptane	61868-43-7	0.24871	0.26622	620.64	0.28571	185.65	620.64	1,2	298.15	0.7454
22991	C11H24	2,2,4,4-tetramethylheptane	61868-44-8	0.24831	0.26389	624.72	0.28571	218.07	624.72	1,2	298.15	0.7511
22992	C11H24	2,2,4,5-tetramethylheptane	61868-45-9	0.24871	0.26640	619.24	0.28571	185.65	619.24	1,2	298.15	0.7445
22993	C11H24	2,2,4,6-tetramethylheptane	61868-46-0	0.24871	0.27141	609.72	0.28571	185.65	609.72	1,2	298.15	0.7298
22994	C11H24	2,2,5,5-tetramethylheptane	61868-47-1	0.24831	0.26834	619.08	0.28571	218.07	619.08	1,2	298.15	0.7388
22995	C11H24	2,2,5,6-tetramethylheptane	61868-48-2	0.24871	0.26897	619.24	0.28571	185.65	619.24	1,2	298.15	0.7386
22996	C11H24	2,2,6,6-tetramethylheptane	40117-45-1	0.24831	0.27318	614.86	0.28571	218.07	614.86	1,2	298.15	0.7265
22997	C11H24	2,3,3,4-tetramethylheptane	61868-49-3	0.24871	0.25732	637.45	0.28571	185.65	637.45	1,2	298.15	0.7727
22998	C11H24	2,3,3,5-tetramethylheptane	61868-50-6	0.24871	0.26200	629.04	0.28571	185.65	629.04	1,2	298.15	0.7583
22999	C11H24	2,3,3,6-tetramethylheptane	61868-51-7	0.24871	0.26444	627.64	0.28571	185.65	627.64	1,2	298.15	0.7520
23000	C11H24	2,3,4,4-tetramethylheptane	61868-52-8	0.24871	0.25960	631.84	0.28571	185.65	631.84	1,2	298.15	0.7651
23001	C11H24	2,3,4,5-tetramethylheptane	61868-53-9	0.24910	0.25993	629.22	0.28571	153.23	629.22	1,2	298.15	0.7646
23002	C11H24	2,3,4,6-tetramethylheptane	61868-54-0	0.24910	0.26462	622.26	0.28571	153.23	622.26	1,2	298.15	0.7509
23003	C11H24	2,3,5,5-tetramethylheptane	61868-55-1	0.24871	0.26408	623.44	0.28571	185.65	623.44	1,2	298.15	0.7514
23004	C11H24	2,3,5,6-tetramethylheptane	52670-32-3	0.24910	0.26470	623.65	0.28571	153.23	623.65	1,2	298.15	0.7512
23005	C11H24	2,4,4,5-tetramethylheptane	61868-56-2	0.24871	0.26172	626.24	0.28571	185.65	626.24	1,2	298.15	0.7580
23006	C11H24	2,4,4,6-tetramethylheptane	61868-57-3	0.24871	0.26829	612.24	0.28571	185.65	612.24	1,2	298.15	0.7377
23007	C11H24	2,4,5,5-tetramethylheptane	61868-58-4	0.24871	0.26200	629.04	0.28571	185.65	629.04	1,2	298.15	0.7583
23008	C11H24	3,3,4,4-tetramethylheptane	61868-59-5	0.24831	0.25467	644.46	0.28571	218.07	644.46	1,2	298.15	0.7806
23009	C11H24	3,3,4,5-tetramethylheptane	61868-60-8	0.24871	0.25725	636.04	0.28571	185.65	636.04	1,2	298.15	0.7724
23010	C11H24	3,3,5,5-tetramethylheptane	61868-61-9	0.24831	0.26008	638.82	0.28571	218.07	638.82	1,2	298.15	0.7651
23011	C11H24	3,4,4,5-tetramethylheptane	61868-62-0	0.24871	0.25509	641.65	0.28571	185.65	641.65	1,2	298.15	0.7798
23012	C11H24	2,2-dimethyl-3-isopropylhexane	61868-63-1	0.24871	0.26152	623.44	0.28571	185.65	623.44	1,2	298.15	0.7575
23013	C11H24	2,3-dimethyl-3-isopropylhexane	61868-64-2	0.24871	0.25429	634.64	0.28571	185.65	634.64	1,2	298.15	0.7794
23014	C11H24	2,4-dimethyl-3-isopropylhexane	61868-65-3	0.24910	0.25949	623.65	0.28571	153.23	623.65	1,2	298.15	0.7637
23015	C11H24	2,5-dimethyl-3-isopropylhexane	61868-66-4	0.24910	0.26417	616.70	0.28571	153.23	616.70	1,2	298.15	0.7500
23016	C11H24	2-methyl-3,3-diethylhexane	61868-67-5	0.24635	0.25118	638.91	0.28571	200.65	638.91	1,2	298.15	0.7815
23017	C11H24	2-methyl-3,4-diethylhexane	61868-68-6	0.24674	0.25585	625.29	0.28571	168.23	625.29	1,2	298.15	0.7660
23018	C11H24	2-methyl-4,4-diethylhexane	61868-69-7	0.24635	0.25560	629.17	0.28571	200.65	629.17	1,2	298.15	0.7668
23019	C11H24	3-methyl-3,4-diethylhexane	61868-70-0	0.24635	0.25118	638.91	0.28571	200.65	638.91	1,2	298.15	0.7815
23020	C11H24	3-methyl-4,4-diethylhexane	61868-71-1	0.24635	0.24907	644.47	0.28571	200.65	644.47	1,2	298.15	0.7890
23021	C11H24	2,2,3-trimethyl-3-ethylhexane	61868-72-2	0.24831	0.25403	638.82	0.28571	218.07	638.82	1,2	298.15	0.7803
23022	C11H24	2,2,3-trimethyl-4-ethylhexane	61868-73-3	0.24871	0.25933	629.04	0.28571	185.65	629.04	1,2	298.15	0.7648
23023	C11H24	2,2,4-trimethyl-3-ethylhexane	61868-74-4	0.24871	0.25925	627.64	0.28571	185.65	627.64	1,2	298.15	0.7645
23024	C11H24	2,2,4-trimethyl-4-ethylhexane	61868-75-5	0.24831	0.25981	636.00	0.28571	218.07	636.00	1,2	298.15	0.7648
23025	C11H24	2,2,5-trimethyl-3-ethylhexane	61868-76-6	0.24871	0.26391	620.64	0.28571	185.65	620.64	1,2	298.15	0.7508
23026	C11H24	2,2,5-trimethyl-4-ethylhexane	61868-77-7	0.24871	0.26597	615.04	0.28571	185.65	615.04	1,2	298.15	0.7440
23027	C11H24	2,3,3-trimethyl-4-ethylhexane	61868-78-8	0.24871	0.25487	638.85	0.28571	185.65	638.85	1,2	298.15	0.7794
23028	C11H24	2,3,4-trimethyl-3-ethylhexane	61868-79-9	0.24871	0.25272	644.45	0.28571	185.65	644.45	1,2	298.15	0.7869
23029	C11H24	2,3,4-trimethyl-4-ethylhexane	61868-80-2	0.24871	0.25429	634.64	0.28571	185.65	634.64	1,2	298.15	0.7794
23030	C11H24	2,3,5-trimethyl-3-ethylhexane	61868-81-3	0.24871	0.25933	629.04	0.28571	185.65	629.04	1,2	298.15	0.7648
23031	C11H24	2,3,5-trimethyl-4-ethylhexane	61868-82-4	0.24910	0.25978	626.44	0.28571	153.23	626.44	1,2	298.15	0.7640
23032	C11H24	2,4,4-trimethyl-3-ethylhexane	61868-83-5	0.24871	0.25690	631.84	0.28571	185.65	631.84	1,2	298.15	0.7718
23033	C11H24	3,3,4-trimethyl-4-ethylhexane	61868-84-6	0.24831	0.25008	652.92	0.28571	218.07	652.92	1,2	298.15	0.7955
23034	C11H24	2,2,3,3,4-pentamethylhexane	61868-85-7	0.25070	0.25615	648.89	0.28571	203.07	648.89	1,2	298.15	0.7858
23035	C11H24	2,2,3,3,5-pentamethylhexane	61868-86-8	0.25070	0.25997	629.72	0.28571	203.07	629.72	1,2	298.15	0.7696
23036	C11H24	2,2,3,4,4-pentamethylhexane	61868-87-9	0.25070	0.25687	651.73	0.28571	203.07	651.73	1,2	298.15	0.7849
23037	C11H24	2,2,3,4,5-pentamethylhexane	61868-88-0	0.25110	0.26332	630.42	0.28571	170.65	630.42	1,2	298.15	0.7629
23038	C11H24	2,2,3,5,5-pentamethylhexane	14739-73-2	0.25070	0.26799	623.34	0.28571	203.07	623.34	1,2	298.15	0.7482
23039	C11H24	2,2,4,4,5-pentamethylhexane	60302-23-0	0.25070	0.26381	637.53	0.28571	203.07	637.53	1,2	298.15	0.7629
23040	C11H24	2,3,3,4,4-pentamethylhexane	61868-89-1	0.25070	0.25378	653.15	0.28571	203.07	653.15	1,2	298.15	0.7934
23041	C11H24	2,3,3,4,5-pentamethylhexane	52670-33-4	0.25110	0.25880	640.29	0.28571	170.65	640.29	1,2	298.15	0.7774
23042	C11H24	2,2,4-trimethyl-3-isopropylpentane	61868-90-4	0.25110	0.26287	624.78	0.28571	170.65	624.78	1,2	298.15	0.7620
23043	C11H24	2,3,4-trimethyl-3-isopropylpentane	61868-91-5	0.25110	0.25397	647.34	0.28571	170.65	647.34	1,2	298.15	0.7922
23044	C11H24	2,2-dimethyl-3,3-diethylpentane	60302-28-5	0.24831	0.25005	651.51	0.28571	218.07	651.51	1,2	298.15	0.7951
23045	C11H24	2,4-dimethyl-3,3-diethylpentane	61868-92-6	0.24871	0.25028	647.25	0.28571	185.65	647.25	1,2	298.15	0.7943
23046	C11H24	2,2,3,4-tetramethyl-3-ethylpentane	61868-93-7	0.25070	0.25375	651.73	0.28571	203.07	651.73	1,2	298.15	0.7930
23047	C11H24	2,2,4,4-tetramethyl-3-ethylpentane	---	0.25070	0.25894	643.21	0.28571	203.07	643.21	1,2	298.15	0.7768
23048	C11H24	2,2,3,3,4,4-hexamethylpentane	60302-27-4	0.25273	0.25350	672.56	0.28571	220.49	672.56	1,2	298.15	0.8069
23055	C11H24O	1-undecanol	112-42-5	0.26800	0.26278	704.00	0.30200	289.05	704.00	1,2	298.15	0.8310
23056	C11H24O	2-undecanol	1653-30-1	0.26187	0.26009	689.70	0.28571	273.15	689.70	1,2	298.15	0.8234
23057	C11H24O	2-undecanol, (±)	113666-64-1	0.26494	0.26468	696.85	0.28571	285.15	696.85	1,2	298.15	0.8228
23058	C11H24O	3-undecanol, (R)-	107494-37-1	0.26494	0.26343	696.85	0.28571	290.15	696.85	1,2	298.15	0.8261
23059	C11H24O	5-undecanol	37493-70-2	0.26494	0.26354	696.85	0.28571	271.35	696.85	1,2	298.15	0.8258
23060	C11H24O	6-undecanol	23708-56-7	0.26494	0.26199	696.85	0.28571	298.15	696.85	1,2	501.15	0.6727

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$				(density - g/ml, T - K)					
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
23061	C11H24O	2,8-dimethyl-5-nonanol	19780-96-2	0.26494	0.26503	696.85	0.28571	285.15	696.85	1,2	298.15	0.8219
23062	C11H24O	undecanol	30207-98-8	0.26494	0.26353	696.85	0.28571	289.05	696.85	2	298.15	0.8259
23063	C11H24O	5-ethyl-2-nonanol	103-08-2	0.26494	0.26353	696.85	0.28571	285.15	696.85	2	298.15	0.8259
23064	C11H24O	1-methoxydecane	7289-52-3	0.26695	0.25918	640.00	0.28571	290.00	640.00	2	298.15	0.8253
23065	C11H24O2	1,2-undecanediol	13006-29-6	0.27551	0.26197	709.89	0.28571	319.87	709.89	2	567.15	0.6427
23066	C11H24O2	1,3-undecanediol	6071-32-5	0.27551	0.26334	723.65	0.28571	319.87	723.65	2	578.15	0.6406
23067	C11H24O2	1,4-undecanediol	---	0.27551	0.26578	749.94	0.28571	319.87	749.94	2	599.15	0.6369
23068	C11H24O2	1,11-undecanediol	765-04-8	0.27311	0.26147	731.93	0.28571	335.15	731.93	2	586.15	0.6364
23069	C11H24O2	2,2-dibutyl-1,3-propanediol	24765-57-9	0.27491	0.26317	728.85	0.28571	315.15	728.85	2	437.05	0.7683
23071	C11H24O2	2-(isobutyl-3-methylbutoxy)ethanol	10086-50-7	0.26455	0.24775	690.00	0.28571	330.00	690.00	2	553.53	0.6367
23076	C11H24O3	2-(2-(1-ethylamyloxy)ethoxy)ethanol	10138-87-1	0.28703	0.25530	690.00	0.28571	330.00	690.00	2	553.53	0.6778
23077	C11H24O3	2-(2-(heptyloxy)ethoxy)ethanol	25961-87-9	0.28703	0.25530	690.00	0.28571	330.00	690.00	2	553.53	0.6778
23081.1	C11H24O4	tripropylene glycol monoethyl ether	75899-69-3	0.31294	0.27038	664.00	0.28571	256.50	664.00	2	298.15	0.9431
23084	C11H24S	1-undecanethiol	5332-52-5	0.27870	0.28072	710.00	0.25705	270.15	710.00	1,2	298.15	0.8410
23085	C11H24S	2-undecanethiol	62155-02-6	0.27222	0.26923	706.00	0.28571	239.15	706.00	1,2	298.15	0.8358
23086	C11H24S	methyl decyl sulfide	22438-39-7	0.26700	0.26251	717.91	0.28571	254.66	717.91	1,2	298.15	0.8410
23087	C11H24S	ethyl nonyl sulfide	59973-08-9	0.26700	0.26251	717.91	0.28571	254.66	717.91	1,2	298.15	0.8410
23088	C11H24S	propyl octyl sulfide	3698-93-9	0.26700	0.26251	717.91	0.28571	254.66	717.91	1,2	298.15	0.8410
23089	C11H24S	butyl heptyl sulfide	40813-84-1	0.26700	0.26251	717.91	0.28571	254.66	717.91	1,2	298.15	0.8410
23090	C11H25N	undecylamine	7307-55-3	0.25382	0.26153	692.40	0.28571	288.26	692.40	1,2	298.15	0.7951
23091	C11H25N	methyldecylamine	7516-82-7	0.25382	0.26251	666.60	0.28571	277.15	666.60	1,2	298.15	0.7850
23092	C11H25N	ethylnonylamine	66563-84-6	0.25382	0.26338	660.80	0.28571	265.89	660.80	1,2	298.15	0.7810
23093	C11H25N	dimethylnonylamine	17373-27-2	0.25382	0.26916	668.70	0.28571	245.70	668.70	1,2	298.15	0.7692
23094	C11H25N	diethylheptylamine	26981-81-7	0.24848	0.25649	634.32	0.28571	245.70	634.32	1,2	298.15	0.7730
23095	C11H25N	4-ethyl-1-methyloctylamine	10024-78-9	0.25275	0.26267	664.56	0.28571	271.52	664.56	2	298.15	0.7807
23335	C12H8O	dibenzofuran	132-64-9	0.31560	0.22947	837.80	0.29450	355.65	837.80	1,2	557.86	0.9163
23394	C12H9N	dibenzopyrrole	86-74-8	0.34690	0.26990	899.00	0.28571	517.95	899.00	2	627.86	0.8792
23437.1	C12H9N3O4	4,4'-dinitrodiphenylamine	1821-27-8	0.36510	0.27922	926.00	0.28571	491.05	926.00	2	298.15	1.1435
23444	C12H10	acenaphthene	83-32-9	0.27890	0.19250	803.15	0.24020	366.56	803.15	1,2	550.54	0.9715
23445	C12H10	phenylbenzene (biphenyl)	92-52-4	0.30750	0.24983	789.26	0.27892	342.37	789.26	1,2	528.15	0.8517
23519	C12H10O	diphenyl ether	101-84-8	0.33850	0.26900	763.00	0.26661	300.02	763.00	1,2	531.46	0.8800
23607	C12H11N	p-aminodiphenyl	92-67-1	0.31400	0.24649	817.00	0.28571	326.00	817.00	2	575.00	0.8444
23609	C12H11N	diphenylamine	122-39-4	0.31400	0.22723	817.00	0.28330	326.15	817.00	1,2	575.15	0.8969
23656	C12H11N3	p-aminoazobenzene	60-09-3	0.30720	0.22026	877.00	0.28571	401.00	877.00	2	633.00	0.8776
23657	C12H11N3	1,3-diphenyltriazene	136-35-6	0.30720	0.21839	845.00	0.28571	372.00	845.00	2	610.00	0.8827
23675	C12H12	1,2-dimethylnaphthalene	573-98-8	0.29960	0.24646	775.34	0.28571	272.16	775.34	1,2	298.15	1.0140
23676	C12H12	1,3-dimethylnaphthalene	575-41-7	0.29960	0.24944	773.76	0.28571	269.16	773.76	1,2	298.15	1.0030
23677	C12H12	1,4-dimethylnaphthalene	571-58-4	0.29960	0.24685	776.78	0.28571	280.82	776.78	1,2	298.15	1.0130
23678	C12H12	1,5-dimethylnaphthalene	571-61-9	0.29960	0.24962	773.47	0.28571	355.16	773.47	2	538.16	0.8045
23679	C12H12	1,6-dimethylnaphthalene	575-43-9	0.29960	0.25033	770.60	0.28571	259.16	770.60	1,2	298.15	0.9990
23680	C12H12	1,7-dimethylnaphthalene	575-37-1	0.29960	0.25033	770.60	0.28571	260.16	770.60	1,2	298.15	0.9990
23681	C12H12	1,8-dimethylnaphthalene	569-41-5	0.30218	0.25433	792.00	0.28571	337.15	792.00	1,2	543.15	0.8080
23682	C12H12	2,3-dimethylnaphthalene	581-40-8	0.29960	0.25078	777.78	0.28571	378.16	777.78	1,2	541.16	0.8019
23683	C12H12	2,6-dimethylnaphthalene	581-42-0	0.30040	0.24602	777.00	0.31910	384.55	777.00	1,2	535.15	0.7895
23684	C12H12	2,7-dimethylnaphthalene	582-16-1	0.30040	0.24597	778.00	0.31993	370.15	778.00	1,2	536.15	0.7886
23685	C12H12	1-ethylnaphthalene	1127-76-0	0.30040	0.25375	776.00	0.26400	259.34	776.00	1,2	298.15	1.0040
23686	C12H12	2-ethylnaphthalene	939-27-5	0.29960	0.25388	774.90	0.28571	265.76	774.90	1,2	298.15	0.9880
23687	C12H12	dimethylnaphthalene, isomers	28804-88-8	0.30002	0.24805	776.35	0.28571	307.64	776.35	1,2	537.28	0.8121
23718	C12H12N2	p-aminodiphenylamine	101-54-2	0.30910	0.21400	867.00	0.28571	341.15	867.00	2	627.15	0.8993
23719	C12H12N2	hydrazobenzene	122-66-7	0.33140	0.24063	792.00	0.28571	404.15	792.00	1,2	573.00	0.8889
23887	C12H14	1,2,3-trimethylindene	4773-83-5	0.29910	0.26410	726.00	0.28571	344.65	726.00	2	509.00	0.7679
23897	C12H14	2-propyl-1H-indene	92013-11-1	0.29910	0.26076	726.00	0.28571	344.65	726.00	1,2	510.46	0.7735
24002	C12H14O4	diethyl phthalate	84-66-2	0.35000	0.25154	757.00	0.35250	269.15	757.00	1,2	298.15	1.1130
24022.1	C12H14O6	terephthalic acid diethylene glycol ester	959-26-2	0.21991	0.24646	846.00	0.28571	385.15	846.00	2	298.15	0.7577
24111	C12H16	cyclohexylbenzene	827-52-1	0.28870	0.24874	744.00	0.32273	280.14	744.00	1,2	298.15	0.9390
24112	C12H16	1-ethyl-[1,2,3,4-tetrahydronaphthalene]	13556-58-6	0.29218	0.25482	735.44	0.28571	243.57	735.44	1,2	298.15	0.9494
24113	C12H16	2-ethyl-[1,2,3,4-tetrahydronaphthalene]	32367-54-7	0.29218	0.25872	739.79	0.28571	224.75	739.79	1,2	298.15	0.9383
24114	C12H16	5-ethyl-1,2,3,4-tetrahydronaphthalene	42775-75-7	0.29218	0.24898	737.62	0.28571	228.65	737.62	1,2	298.15	0.9692
24115	C12H16	6-ethyl-1,2,3,4-tetrahydronaphthalene	22531-20-0	0.29218	0.25258	737.62	0.28571	203.15	737.62	1,2	298.15	0.9573
24116	C12H16	1,2,3,4-tetrahydro-1,3-dimethylnaphthalene	5195-37-9	0.29218	0.25911	737.62	0.28571	253.92	737.62	1,2	298.15	0.9365
24117	C12H16	1,2,3,4-tetrahydro-1,4-dimethylnaphthalene	4175-54-6	0.29218	0.25911	737.62	0.28571	253.92	737.62	1,2	298.15	0.9365
24118	C12H16	1,2,3,4-tetrahydro-1,5-dimethylnaphthalene	21564-91-0	0.29218	0.25880	737.62	0.28571	253.92	737.62	1,2	298.15	0.9375
24119	C12H16	1,2,3,4-tetrahydro-2,2-dimethylnaphthalene	13556-55-3	0.29218	0.26072	737.62	0.28571	253.92	737.62	1,2	298.15	0.9315
24120	C12H16	1,2,3,4-tetrahydro-2,3-dimethylnaphthalene	21564-92-1	0.29218	0.25911	737.62	0.28571	270.65	737.62	1,2	298.15	0.9365
24121	C12H16	1,2,3,4-tetrahydro-2,5-dimethylnaphthalene	25419-37-8	0.29218	0.25722	737.62	0.28571	253.92	737.62	1,2	298.15	0.9424
24122	C12H16	1,2,3,4-tetrahydro-2,6-dimethylnaphthalene	7524-63-2	0.29218	0.25880	737.62	0.28571	293.15	737.62	1,2	298.15	0.9375
24123	C12H16	1,2,3,4-tetrahydro-2,7-dimethylnaphthalene	13065-07-1	0.29218	0.25880	737.62	0.28571	253.92	737.62	1,2	298.15	0.9375
24124	C12H16	1,2,3,4-tetrahydro-2,8-dimethylnaphthalene	25419-36-7	0.29218	0.25880	737.62	0.28571	253.92	737.62	1,2	298.15	0.9375
24125	C12H16	1,2,3,4-tetrahydro-5,6-dimethylnaphthalene	20027-77-4	0.29218	0.24839	737.62	0.28571	253.92	737.62	1,2	298.15	0.9712
24126	C12H16	1,2,3,4-tetrahydro-5,7-dimethylnaphthalene	21693-54-9	0.29218	0.25340	737.62	0.28571	267.15	737.62	1,2	298.15	0.9546
24127	C12H16	1,2,3,4-tetrahydro-5,8-dimethylnaphthalene	14108-88-4	0.29218	0.25077	737.62	0.28571	271.05	737.62	1,2	298.15	0.9633
24128	C12H16	1,2,3,4-tetrahydro-6,7-dimethylnaphthalene	1076-61-5	0.29218	0.25472	737.62	0.28571	283.15	737.62	1,2	298.15	0.9504
24129	C12H16	1,2,3,4-tetrahydro-1,1-dimethylnaphthalene	1985-59-7	0.29218	0.25596	737.62	0.28571	253.92	737.62	1,2	298.15	0.9464
24130	C12H16	1,2,3,4-tetrahydro-1,2-dimethylnaphthalene	5195-40-4	0.29218	0.25690	737.62	0.28571	253.92	737.62	1,2	298.15	0.9434
24134	C12H16	2-hexenylbenzene	67590-77-6	0.27333	0.25519	723.00	0.28571	242.55	723.00	1,2	298.15	0.8836
24135	C12H16	3-hexenylbenzene	35008-86-7	0.27333	0.25790	723.00	0.28571	242.55	723.00	1,2	298.15	0.8756
24136	C12H16	5-hexenylbenzene	1588-44-9	0.27333	0.25624	723.00	0.28571	242.55	723.00	1,2	298.15	0.8804
24137	C12H16	p-isopropenylisopropylbenzene	2388-14-9	0.27333	0.25302	723.00	0.28571	242.55	723.00	1,2	298.15	0.8901
24138	C12H16	(1-methyl-1-pentenyl)benzene	20247-89-6	0.27333	0.24774	723.00	0.28571	242.55	723.00	1,2	298.15	0.9064
24139	C12H16	4-tert-butylstyrene	1746-23-2	0.27089	0.25257	695.00	0.28571	250.00	695.00	1,2	298.15	0.8750

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
24139.1	C12H16	4-isobutylstyrene	63444-56-4	0.25807	0.24158	735.00	0.28571	230.00	735.00	2	298.15	0.8779
24357	C12H18	hexylbenzene	1077-16-3	0.26260	0.25054	698.00	0.28570	212.00	698.00	1,2	298.15	0.8550
24358	C12H18	1,4-dipropylbenzene	4815-57-0	0.26961	0.25934	697.15	0.28571	249.75	697.15	1,2	298.15	0.8521
24359	C12H18	diisopropylbenzene	25321-09-9	0.26961	0.25655	697.15	0.28571	249.75	697.15	1,2	298.15	0.8600
24360	C12H18	1,2-diisopropylbenzene	577-55-9	0.26961	0.25430	697.15	0.28571	216.15	697.15	1,2	298.15	0.8665
24361	C12H18	m-diisopropylbenzene	99-62-7	0.27050	0.23554	684.00	0.40400	210.02	684.00	1,2	298.15	0.8520
24362	C12H18	p-diisopropylbenzene	100-18-5	0.27140	0.26015	689.00	0.28570	256.08	689.00	1,2	298.15	0.8530
24363	C12H18	triethylbenzene; (mixed isomers)	25340-18-5	0.26961	0.25394	697.15	0.28571	249.75	697.15	2	298.15	0.8675
24364	C12H18	1,2,3-triethylbenzene	42205-08-3	0.27070	0.25289	684.37	0.28571	206.66	684.37	1,2	298.15	0.8700
24365	C12H18	1,2,4-triethylbenzene	877-44-1	0.27070	0.25289	684.37	0.28571	206.66	684.37	1,2	298.15	0.8700
24366	C12H18	1,3,5-triethylbenzene	102-25-0	0.27070	0.24696	682.28	0.28571	206.66	682.28	1,2	298.15	0.8870
24367	C12H18	1-tert-butyl-3,5-dimethylbenzene	98-19-1	0.26961	0.25543	697.15	0.28571	255.15	697.15	1,2	298.15	0.8632
24368	C12H18	(1,1-dimethylbutyl)benzene	1985-57-5	0.26961	0.25352	697.15	0.28571	249.75	697.15	1,2	298.15	0.8688
24369	C12H18	2,4-dimethyl-1-sec-butylbenzene	1483-60-9	0.26961	0.25557	697.15	0.28571	249.75	697.15	1,2	298.15	0.8628
24370	C12H18	(1-ethylbutyl)benzene	4468-42-2	0.26961	0.26978	697.15	0.28571	217.75	697.15	1,2	298.15	0.8239
24371	C12H18	(1-ethyl-1-methylpropyl)benzene	1985-97-3	0.26961	0.25308	697.15	0.28571	249.75	697.15	1,2	298.15	0.8700
24372	C12H18	(1-methylpentyl)benzene	6031-02-3	0.26961	0.25590	697.15	0.28571	249.75	697.15	1,2	298.15	0.8619
24373	C12H18	(3-methylpentyl)benzene	54410-69-4	0.26961	0.25773	697.15	0.28571	249.75	697.15	1,2	298.15	0.8566
24374	C12H18	(4-methylpentyl)benzene	4215-86-5	0.26961	0.25990	697.15	0.28571	249.75	697.15	1,2	298.15	0.8505
24375	C12H18	1,2,4-trimethyl-5-isopropylbenzene	10222-95-4	0.26961	0.25088	697.15	0.28571	294.15	697.15	1,2	298.15	0.8765
24376	C12H18	4-tert-butyl-o-xylene	7397-06-0	0.26961	0.25275	697.15	0.28571	249.75	697.15	1,2	298.15	0.8710
24377	C12H18	hexamethyldewarbenzene	7641-77-2	0.26961	0.27844	697.15	0.28571	277.00	697.15	1,2	298.15	0.8020
24378	C12H18	hexamethylbenzene	87-85-4	0.27070	0.20643	758.00	0.28571	438.66	758.00	1,2	536.60	0.8214
24378.1	C12H18	p-tert-butyl ethylbenzene	7364-19-4	0.26822	0.25341	684.00	0.28571	234.80	684.00	2	298.15	0.8604
24378.2	C12H18	1,5,9-cyclododecatriene	706-31-0	0.28823	0.27169	745.00	0.28571	256.35	745.00	2	298.15	0.8887
24378.3	C12H18	1,2,3-triethylebenzene	42205-08-3	0.27365	0.24955	683.00	0.28571	215.00	683.00	2	298.15	0.8890
24433	C12H18O	2-tert-butyl-4,5-dimethylphenol	1445-23-4	0.29823	0.25960	755.67	0.28571	319.15	755.67	1,2	531.65	0.7733
24434	C12H18O	2-tert-butyl-4,6-dimethylphenol	1879-09-0	0.29823	0.26062	755.67	0.28571	295.45	755.67	1,2	298.15	0.9562
24435	C12H18O	4-tert-butyl-2,5-dimethylphenol	17696-37-6	0.29823	0.25332	755.67	0.28571	344.35	755.67	1,2	537.15	0.7814
24436	C12H18O	4-tert-butyl-2,6-dimethylphenol	879-97-0	0.29823	0.26096	755.67	0.28571	355.55	755.67	1,2	521.15	0.7802
24446	C12H18O	4-(1,1-dimethylpropyl)-2-methylphenol	71745-63-6	0.29823	0.25773	755.67	0.28571	288.15	755.67	1,2	298.15	0.9655
24447	C12H18O	2,6-dipropylphenol	6626-32-0	0.29823	0.25881	755.67	0.28571	300.15	755.67	1,2	529.15	0.7774
24448	C12H18O	5-methyl-2-pentylphenol	1300-94-3	0.29823	0.26346	755.67	0.28571	297.15	755.67	2	298.15	0.9472
24451	C12H18O	6-n-amyl-m-cresol	53043-14-4	0.29823	0.25634	755.67	0.28571	297.15	755.67	1,2	298.15	0.9700
24452	C12H18O	2-tert-butyl-4-ethylphenol	96-70-8	0.29823	0.26614	755.67	0.28571	303.15	755.67	1,2	523.15	0.7675
24457	C12H18O	3,5-bis(1-methylethyl)phenol	26886-05-5	0.29823	0.26346	755.67	0.28571	311.14	755.67	2	524.28	0.7720
24458	C12H18O	2,4-bis(1-methylethyl)phenol	2934-05-6	0.29823	0.26346	755.67	0.28571	311.14	755.67	2	524.28	0.7720
24461	C12H18O	2-hexylphenol	3226-32-2	0.29823	0.26346	755.67	0.28571	311.14	755.67	2	524.28	0.7720
24477.1	C12H18O2	m-diisopropylbenzene hydroperoxide	26762-93-6	0.28237	0.25104	812.00	0.28571	280.00	812.00	2	298.15	0.9496
24477.2	C12H18O2	p-diisopropylbenzene hydroperoxide	98-49-7	0.29039	0.24705	810.00	0.28571	280.00	810.00	2	298.15	0.9899
24505	C12H19N	2,6-diisopropylaniline	24544-04-5	0.28280	0.24577	710.00	0.28571	228.15	710.00	1,2	298.15	0.9400
24506	C12H19N	N,N-dipropylaniline	2217-07-4	0.28280	0.25633	710.00	0.28571	228.15	710.00	1,2	298.15	0.9067
24507	C12H19N	4-tert-butyl-N,N-dimethylaniline	2909-79-7	0.28280	0.25658	710.00	0.28571	228.15	710.00	1,2	298.15	0.9060
24508	C12H19N	N,N-diisopropylaniline	4107-98-6	0.28280	0.25526	710.00	0.28571	228.15	710.00	1,2	298.15	0.9100
24509	C12H19N	4-hexylaniline	33228-45-4	0.28280	0.25363	710.00	0.28571	228.15	710.00	1,2	298.15	0.9150
24531	C12H20	1-dodecen-3-yne	74744-36-8	0.26064	0.26625	655.00	0.28571	250.00	655.00	1,2	298.15	0.7929
24560	C12H20O	2,5-di-tert-butylfuran	4789-40-6	0.32308	0.32562	670.00	0.28571	250.00	670.00	1,2	298.15	0.8340
24594	C12H20O4	dibutyl maleate	105-76-0	0.31750	0.26102	716.00	0.30740	188.15	716.00	1,2	298.15	0.9910
24619	C12H20S	3-octylthiophene	65016-62-8	0.27819	0.25054	745.00	0.28571	330.00	745.00	1,2	536.15	0.7283
24652	C12H22	bicyclohexyl	92-51-3	0.27810	0.26177	727.00	0.28130	276.78	727.00	1,2	298.15	0.8830
24653	C12H22	1-dodecyne	765-03-7	0.24840	0.25999	668.16	0.28571	254.16	668.16	1,2	298.15	0.7750
24654	C12H22	2-dodecyne	629-49-2	0.24840	0.25814	686.26	0.28571	264.15	686.26	1,2	298.15	0.7851
24655	C12H22	3-dodecyne	6790-27-8	0.24840	0.25764	677.19	0.28571	330.60	677.19	1,2	492.55	0.6331
24656	C12H22	6-dodecyne	6975-99-1	0.24840	0.25845	677.20	0.28571	282.97	677.20	1,2	298.15	0.7816
24657	C12H22	3,3-dimethyl-4-decyne	70732-45-5	0.24840	0.26313	677.20	0.28571	282.97	677.20	1,2	298.15	0.7698
24658	C12H22	4a-ethyl-cis-decahydronaphthalene	66553-61-5	0.28259	0.26556	723.87	0.28571	236.31	723.87	1,2	298.15	0.8830
24659	C12H22	4a-ethyl-trans-decahydronaphthalene	66553-62-6	0.28259	0.27382	712.43	0.28571	248.92	712.43	1,2	298.15	0.8570
24660	C12H22	1-ethyl,cis-decahydronaphthalene	---	0.28259	0.27850	762.49	0.28571	236.31	762.49	1,2	298.15	0.8570
24661	C12H22	1-ethyl-trans-decahydronaphthalene	---	0.28259	0.27788	755.34	0.28571	248.92	755.34	1,2	298.15	0.8570
24662	C12H22	2-ethyl-cis-decahydronaphthalene	---	0.28259	0.26686	726.73	0.28571	236.31	726.73	1,2	298.15	0.8801
24663	C12H22	2-ethyl-trans-decahydronaphthalene	---	0.28259	0.27236	716.72	0.28571	248.92	716.72	1,2	298.15	0.8621
24664	C12H22	1,4a-dimethyl-cis-decahydronaphthalene	---	0.28308	0.26350	707.09	0.28571	219.94	707.09	1,2	298.15	0.8856
24665	C12H22	1,4a-dimethyl-trans-decahydronaphthalene	---	0.28308	0.27188	697.05	0.28571	232.55	697.05	1,2	298.15	0.8593
24666	C12H22	1-heptylcyclopentene	4292-00-6	0.26211	0.26214	680.78	0.28571	200.59	680.78	1,2	298.15	0.8160
24669	C12H22	1,11-dodecadiene	5876-87-9	0.29689	0.32809	696.00	0.28571	250.00	696.00	1,2	298.15	0.7676
24700	C12H22O2	2-dodecenoic acid	4412-16-2	0.28792	0.26521	816.00	0.28571	290.25	816.00	1,2	298.15	0.9235
24701	C12H22O2	4-dodecenoic acid	505-92-0	0.27421	0.25765	816.00	0.28571	273.85	816.00	1,2	298.15	0.9022
24702	C12H22O2	5-dodecenoic acid	2761-84-4	0.27421	0.25670	816.00	0.28571	273.85	816.00	1,2	298.15	0.9051
24703	C12H22O2	11-dodecenoic acid	65423-25-8	0.27421	0.25887	816.00	0.28571	293.15	816.00	1,2	298.15	0.8985
24704	C12H22O2	2-ethylhexyl methacrylate	688-84-6	0.33482	0.32159	694.00	0.28571	291.03	694.00	1,2	298.15	0.8800
24708	C12H22O2	methyl 10-undecenoate	111-81-9	0.31994	0.30384	694.00	0.28571	245.65	694.00	1,2	298.15	0.8826
24712	C12H22O2	citronellyl acetate	150-84-5	0.31994	0.30166	694.00	0.28571	291.03	694.00	1,2	298.15	0.8880
24714	C12H22O2	cis-5-dodecenoic acid	2430-94-6	0.27421	0.25642	816.00	0.28571	282.78	816.00	1,2	298.15	0.9060
24716	C12H22O2	menthyl acetate	89-48-5	0.31994	0.28864	694.00	0.28571	298.15	694.00	1,2	501.15	0.7575
24717	C12H22O2	(1R)-(-)-neomenthyl acetate	146502-80-9	0.31994	0.29236	694.00	0.28571	310.15	694.00	1,2	508.57	0.7437
24718	C12H22O2	(1S)-(+)-neomenthyl acetate	2552-91-2	0.31994	0.29236	694.00	0.28571	310.15	694.00	1,2	508.57	0.7437
24722	C12H22O2	vinyl decanoate	4704-31-8	0.31994	0.30246	694.00	0.28571	291.03	694.00	1,2	298.15	0.8860
24723	C12H22O2	acetic acid 2-isopropyl-5-methyl-2-hexen-1-yl ester	40853-56-3	0.27421	0.25377	816.00	0.28571	282.78	816.00	2	298.15	0.9143
24724	C12H22O2	allyl 3,5,5-trimethylhexanoate	71500-21-5	0.31994	0.29158	694.00	0.28571	291.03	694.00	2	298.15	0.9141
24731	C12H22O2	cis-3-hexenyl caproate	31501-11-8	0.31994	0.29158	694.00	0.28571	291.03	694.00	2	298.15	0.9141

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$								(density - g/ml, T - K)	
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
24782.1	C12H22S	dicyclohexyl sulfide	7133-46-2	0.28058	0.24336	802.00	0.28571	283.05	802.00	2	298.15	0.9671
24787	C12H23Br	cis-1-bromo-1-dodecene	66553-39-7	0.32984	0.26108	712.56	0.28571	279.22	712.56	1,2	298.15	1.0420
24788	C12H23Br	trans-1-bromo-1-dodecene	66553-40-0	0.32984	0.26108	712.56	0.28571	279.22	712.56	1,2	298.15	1.0420
24791	C12H23Br3	1,1,1-tribromododecane	62127-69-9	0.46122	0.25697	804.01	0.28571	406.32	804.01	2	613.15	1.1355
24792	C12H23Cl	cis-1-chloro-1-dodecene	66553-41-1	0.27531	0.25930	716.62	0.28571	249.34	716.62	1,2	298.15	0.8760
24793	C12H23Cl	trans-1-chloro-1-dodecene	66553-42-2	0.27531	0.25930	716.62	0.28571	249.34	716.62	1,2	298.15	0.8760
24795	C12H23Cl3	1,1,1-trichlorododecane	62108-57-0	0.32445	0.25722	751.55	0.28571	316.68	751.55	2	570.15	0.8017
24796	C12H23F	cis-1-fluoro-1-dodecene	66553-43-3	0.26409	0.25312	637.82	0.28571	251.57	637.82	1,2	298.15	0.8320
24797	C12H23F	trans-1-fluoro-1-dodecene	66553-44-4	0.26409	0.25312	637.82	0.28571	251.57	637.82	1,2	298.15	0.8320
24799	C12H23F3	1,1,1-trifluorododecane	764-84-1	0.30230	0.25701	638.20	0.28571	323.37	638.20	2	481.15	0.7512
24800	C12H23I	cis-1-iodo-1-dodecene	66553-45-5	0.37939	0.26432	747.98	0.28571	277.48	747.98	1,2	298.15	1.1990
24801	C12H23I	trans-1-iodo-1-dodecene	66553-46-6	0.37939	0.26432	747.98	0.28571	277.48	747.98	1,2	298.15	1.1990
24802	C12H23I3	1,1,1-triiododododecane	---	0.57057	0.27017	996.02	0.28571	401.10	996.02	2	750.15	1.3721
24804	C12H23N	dicyclohexylamine	101-83-7	0.29290	0.26668	737.00	0.29800	273.05	737.00	1,2	298.15	0.9090
24805	C12H23N	dodecanenitrile	2437-25-4	0.24720	0.24724	720.09	0.28571	277.15	720.09	1,2	298.15	0.8203
24818	C12H24	heptylcyclopentane	5617-42-5	0.25960	0.26278	679.00	0.28571	220.00	679.00	1,2	298.15	0.8060
24819	C12H24	hexylcyclohexane	4292-75-5	0.26280	0.23795	691.81	0.28571	263.60	691.81	1,2	298.15	0.8920
24820	C12H24	1-methyl-2-pentylcyclohexane	54411-01-7	0.26280	0.26585	691.81	0.28571	263.60	691.81	1,2	298.15	0.8117
24821	C12H24	cyclododecane	294-62-2	0.28361	0.27953	747.23	0.28571	333.85	747.23	1,2	512.15	0.7088
24823	C12H24	1-dodecene	112-41-4	0.24050	0.25402	657.00	0.29662	237.93	657.00	1,2	298.15	0.7560
24823.1	C12H24	cis-2-dodecene	7206-26-0	0.24717	0.23242	663.00	0.28571	233.00	663.00	2	298.15	0.8459
24823.2	C12H24	trans-2-dodecene	7206-13-5	0.24717	0.23242	663.00	0.28571	243.00	663.00	2	298.15	0.8459
24824	C12H24	2-methyl-1-undecene	18516-37-5	0.24412	0.25987	656.53	0.28571	232.38	656.53	1,2	298.15	0.7584
24825	C12H24	4,4-dimethyl-2-neopentyl-1-pentene	141-70-8	0.24231	0.23609	656.77	0.28571	271.55	656.77	2	298.15	0.8161
24826	C12H24	2,2,4,6,6-pentamethyl-3-heptene	123-48-8	0.24231	0.23609	656.77	0.28571	234.75	656.77	2	298.15	0.8161
24827	C12H24	trans-2,2,4,6,6-pentamethyl-3-heptene	27656-50-4	0.24231	0.23609	656.77	0.28571	234.75	656.77	2	298.15	0.8161
24828	C12H24	isobutene, trimer	7756-94-7	0.24231	0.25875	656.77	0.28571	197.15	656.77	1,2	298.15	0.7556
24831	C12H24Br2	1,1-dibromododecane	62168-29-0	0.39749	0.25637	766.37	0.28571	329.10	766.37	2	583.15	0.9820
24832	C12H24Br2	1,12-dibromododecane	3344-70-5	0.39749	0.25637	766.37	0.28571	314.15	766.37	2	583.15	0.9820
24833	C12H24Cl2	1,1-dichlorododecane	62017-17-8	0.29922	0.26095	733.47	0.28571	269.34	733.47	1,2	298.15	0.9520
24834	C12H24Cl2	1,12-dichlorododecane	3922-28-9	0.29922	0.25668	733.47	0.28571	302.15	733.47	2	572.15	0.7230
24838	C12H24F2	1,1-difluorododecane	62127-45-1	0.28341	0.26007	656.90	0.28571	273.80	656.90	1,2	298.15	0.8800
24839	C12H24I2	1,1-diiododododecane	66553-33-1	0.48106	0.26556	874.36	0.28571	325.62	874.36	2	659.80	1.1686
24852	C12H24O	dodecanal	112-54-9	0.26910	0.26703	685.00	0.28570	285.15	685.00	1,2	298.15	0.8260
24853	C12H24O	2-methylundecanal	110-41-8	0.26910	0.26733	685.00	0.28571	285.15	685.00	1,2	298.15	0.8252
24854	C12H24O	2-dodecanone	6175-49-1	0.25834	0.25562	687.46	0.28571	293.65	687.46	1,2	298.15	0.8237
24855	C12H24O	6-dodecanone	6064-27-3	0.25834	0.25446	687.46	0.28571	283.15	687.46	2	298.15	0.8269
24855.1	C12H24O	isobutyl heptyl ketone	123-18-2	0.27106	0.27056	658.00	0.28571	198.00	658.00	2	298.15	0.8145
24856	C12H24O	decyl vinyl ether	765-05-9	0.27395	0.27966	686.00	0.28571	232.15	686.00	1,2	298.15	0.8088
24860	C12H24O	trimethyl nonanone	1331-50-6	0.25834	0.25808	687.46	0.28571	198.25	687.46	1,2	298.15	0.8170
24861	C12H24O	3-dodecanone	1534-27-6	0.25834	0.25446	687.46	0.28571	292.58	687.46	2	298.15	0.8269
24862	C12H24O	5-dodecanone	19780-10-0	0.25834	0.25446	687.46	0.28571	282.85	687.46	2	298.15	0.8269
24863	C12H24O	4-dodecanone	6137-26-4	0.25834	0.25446	687.46	0.28571	284.65	687.46	2	298.15	0.8269
24864	C12H24O	(Z)-7-dodecen-1-ol	20056-92-2	0.30158	0.30325	671.00	0.28571	290.00	671.00	2	298.15	0.8270
24867	C12H24O2	dodecanoic acid	143-07-7	0.28410	0.26608	734.00	0.29330	317.15	734.00	1,2	571.85	0.6648
24868	C12H24O2	undecyl formate	5454-24-0	0.26745	0.25271	700.00	0.28571	283.20	700.00	2	298.15	0.8650
24869	C12H24O2	decyl acetate	112-17-4	0.26674	0.25180	693.80	0.28571	258.12	693.80	1,2	298.15	0.8634
24870	C12H24O2	nonyl propanoate	53184-67-1	0.26674	0.25301	693.10	0.28571	266.83	693.10	1,2	298.15	0.8597
24871	C12H24O2	octyl butanoate	110-39-4	0.26674	0.25301	691.80	0.28571	217.15	691.80	1,2	298.15	0.8593
24872	C12H24O2	heptyl pentanoate	5451-80-9	0.27997	0.26520	667.00	0.28571	226.75	667.00	1,2	298.15	0.8586
24873	C12H24O2	hexyl hexanoate	6378-65-0	0.27997	0.26476	667.00	0.28571	218.15	667.00	1,2	298.15	0.8598
24874	C12H24O2	pentyl heptanoate	7493-82-5	0.27997	0.26520	667.00	0.28571	223.15	667.00	1,2	298.15	0.8586
24875	C12H24O2	butyl octanoate	589-75-3	0.27997	0.26502	667.00	0.28571	230.25	667.00	1,2	298.15	0.8591
24876	C12H24O2	ethyl decanoate	110-38-3	0.27997	0.26422	667.00	0.28571	253.15	667.00	1,2	298.15	0.8613
24877	C12H24O2	ethyl 3-methylnonanoate	86051-37-8	0.27997	0.26411	667.00	0.28571	230.29	667.00	1,2	298.15	0.8616
24878	C12H24O2	methyl undecanoate	1731-86-8	0.27997	0.26288	667.00	0.28571	230.29	667.00	2	298.15	0.8650
24879	C12H24O2	2-butyloctanoic acid	27610-92-0	0.28410	0.26678	734.00	0.28571	317.15	734.00	1,2	503.15	0.7342
24880	C12H24O2	3,7-dimethyloctanyl acetate	20780-49-8	0.26674	0.25127	693.80	0.28571	258.12	693.80	2	298.15	0.8650
24885.1	C12H24O3	2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	77-68-9	0.29920	0.25421	662.00	0.28571	261.00	662.00	1,2	298.15	0.9490
24892	C12H24S	thiacyclotridecane	295-05-6	0.31732	0.30574	808.34	0.28571	294.93	808.34	1,2	298.15	0.8969
24894	C12H25Br	1-bromododecane	143-15-7	0.32389	0.25883	726.55	0.28571	263.65	726.55	1,2	298.15	1.0355
24895	C12H25Br	2-bromododecane	13187-99-0	0.32389	0.26341	726.55	0.28571	177.25	726.55	1,2	298.15	1.0200
24897	C12H25Cl	1-chlorododecane	112-52-7	0.27070	0.25794	711.02	0.28571	263.85	711.02	1,2	298.15	0.8636
24899	C12H25F	1-fluorododecane	334-68-9	0.26230	0.25790	658.60	0.28571	260.15	658.60	1,2	298.15	0.8208
24900	C12H25I	1-iododododecane	4292-19-7	0.40776	0.28675	730.57	0.28571	273.45	730.57	1,2	298.15	1.1951
24905	C12H25NO2	1-nitrododecane	16891-99-9	0.27275	0.24362	740.64	0.28571	368.11	740.64	2	570.15	0.6900
24914	C12H26	dodecane	112-40-3	0.23440	0.25231	658.20	0.28960	263.57	658.20	1,2	298.15	0.7450
24915	C12H26	3-methylundecane	1002-43-3	0.24282	0.26154	650.71	0.28571	215.15	650.71	1,2	298.15	0.7485
24916	C12H26	4-methylundecane	2980-69-0	0.24282	0.26165	649.36	0.28571	209.50	649.36	1,2	298.15	0.7478
24917	C12H26	5-methylundecane	1632-70-8	0.24282	0.26120	645.32	0.28571	209.50	645.32	1,2	298.15	0.7476
24918	C12H26	6-methylundecane	17302-33-9	0.24282	0.26124	645.32	0.28571	209.50	645.32	1,2	298.15	0.7475
24919	C12H26	3-ethyldecane	17085-96-0	0.24282	0.25668	648.96	0.28571	209.50	648.96	1,2	298.15	0.7598
24920	C12H26	4-ethyldecane	1636-44-8	0.24282	0.25865	642.63	0.28571	209.50	642.63	1,2	298.15	0.7529
24921	C12H26	5-ethyldecane	17302-36-2	0.24282	0.25849	639.94	0.28571	209.50	639.94	1,2	298.15	0.7524
24922	C12H26	2,2-dimethyldecane	17302-37-3	0.24456	0.26646	645.65	0.28571	226.92	645.65	1,2	298.15	0.7406
24923	C12H26	2,3-dimethyldecane	17312-44-6	0.24492	0.26248	648.85	0.28571	194.50	648.85	1,2	298.15	0.7521
24924	C12H26	2,4-dimethyldecane	2801-84-5	0.24492	0.26565	640.72	0.28571	194.50	640.72	1,2	298.15	0.7420
24925	C12H26	2,5-dimethyldecane	17312-50-4	0.24492	0.26396	638.02	0.28571	194.50	638.02	1,2	298.15	0.7451
24926	C12H26	2,6-dimethyldecane	13150-81-7	0.24492	0.26392	638.02	0.28571	194.50	638.02	1,2	298.15	0.7452
24927	C12H26	2,7-dimethyldecane	17312-51-5	0.24492	0.26453	643.43	0.28571	194.50	643.43	1,2	298.15	0.7455

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
24928	C12H26	2,8-dimethyldecane	17312-52-6	0.24492	0.26464	646.14	0.28571	194.50	646.14	1,2	298.15	0.7461
24929	C12H26	2,9-dimethyldecane	1002-17-1	0.24492	0.26707	646.14	0.28571	194.50	646.14	1,2	298.15	0.7404
24930	C12H26	3,3-dimethyldecane	17302-38-4	0.24456	0.26188	648.37	0.28571	226.92	648.37	1,2	298.15	0.7523
24931	C12H26	3,4-dimethyldecane	17312-45-7	0.24492	0.26003	647.49	0.28571	194.50	647.49	1,2	298.15	0.7576
24932	C12H26	3,5-dimethyldecane	17312-48-0	0.24492	0.26189	640.72	0.28571	194.50	640.72	1,2	298.15	0.7509
24933	C12H26	3,6-dimethyldecane	17312-53-7	0.24492	0.26203	642.08	0.28571	194.50	642.08	1,2	298.15	0.7510
24934	C12H26	3,7-dimethyldecane	17312-54-8	0.24492	0.26209	643.43	0.28571	194.50	643.43	1,2	298.15	0.7513
24935	C12H26	3,8-dimethyldecane	17312-55-9	0.24492	0.26238	647.49	0.28571	194.50	647.49	1,2	298.15	0.7519
24936	C12H26	4,4-dimethyldecane	17312-39-9	0.24456	0.26153	642.92	0.28571	226.92	642.92	1,2	298.15	0.7514
24937	C12H26	4,5-dimethyldecane	17312-46-8	0.24492	0.25978	643.43	0.28571	194.50	643.43	1,2	298.15	0.7569
24938	C12H26	4,6-dimethyldecane	17312-49-1	0.24492	0.26173	638.02	0.28571	194.50	638.02	1,2	298.15	0.7504
24939	C12H26	4,7-dimethyldecane	17312-56-0	0.24492	0.26179	639.37	0.28571	194.50	639.37	1,2	298.15	0.7507
24940	C12H26	5,5-dimethyldecane	17453-92-8	0.24456	0.26133	640.20	0.28571	226.92	640.20	1,2	298.15	0.7510
24941	C12H26	5,6-dimethyldecane	1636-43-7	0.24492	0.25968	642.08	0.28571	194.50	642.08	1,2	298.15	0.7567
24942	C12H26	4-propylnonane	6165-37-3	0.24282	0.25814	635.90	0.28571	209.50	635.90	1,2	298.15	0.7519
24943	C12H26	5-propylnonane	998-35-6	0.24282	0.25809	633.20	0.28571	209.50	633.20	1,2	298.15	0.7511
24944	C12H26	4-isopropylnonane	62184-71-8	0.24492	0.25937	638.02	0.28571	194.50	638.02	1,2	298.15	0.7561
24945	C12H26	5-isopropylnonane	62184-72-9	0.24492	0.25953	638.02	0.28571	194.50	638.02	1,2	298.15	0.7557
24946	C12H26	2-methyl-3-ethylnonane	62184-73-0	0.24492	0.25951	642.08	0.28571	194.50	642.08	1,2	298.15	0.7571
24947	C12H26	2-methyl-4-ethylnonane	62184-37-6	0.24492	0.26190	638.02	0.28571	194.50	638.02	1,2	298.15	0.7500
24948	C12H26	2-methyl-5-ethylnonane	62184-38-7	0.24492	0.26152	635.31	0.28571	194.50	635.31	1,2	298.15	0.7500
24949	C12H26	2-methyl-6-ethylnonane	62184-39-8	0.24492	0.26173	638.02	0.28571	194.50	638.02	1,2	298.15	0.7504
24950	C12H26	2-methyl-7-ethylnonane	62184-40-1	0.24492	0.26209	643.43	0.28571	194.50	643.43	1,2	298.15	0.7513
24951	C12H26	3-methyl-3-ethylnonane	17302-39-5	0.24456	0.25725	649.73	0.28571	226.92	649.73	1,2	298.15	0.7641
24952	C12H26	3-methyl-4-ethylnonane	62184-41-2	0.24492	0.25728	642.08	0.28571	194.50	642.08	1,2	298.15	0.7626
24953	C12H26	3-methyl-5-ethylnonane	62184-42-3	0.24492	0.25934	633.95	0.28571	194.50	633.95	1,2	298.15	0.7548
24954	C12H26	3-methyl-6-ethylnonane	62184-43-4	0.24492	0.25947	639.37	0.28571	194.50	639.37	1,2	298.15	0.7563
24955	C12H26	3-methyl-7-ethylnonane	62184-44-5	0.24492	0.25929	640.72	0.28571	194.50	640.72	1,2	298.15	0.7572
24956	C12H26	4-methyl-3-ethylnonane	62184-45-6	0.24492	0.25697	640.72	0.28571	194.50	640.72	1,2	298.15	0.7629
24957	C12H26	4-methyl-4-ethylnonane	17312-40-2	0.24456	0.25679	642.92	0.28571	226.92	642.92	1,2	298.15	0.7630
24958	C12H26	4-methyl-5-ethylnonane	62184-46-7	0.24492	0.25697	638.02	0.28571	194.50	638.02	1,2	298.15	0.7620
24959	C12H26	4-methyl-6-ethylnonane	62184-47-8	0.24492	0.25916	635.31	0.28571	194.50	635.31	1,2	298.15	0.7557
24960	C12H26	4-methyl-7-ethylnonane	62184-48-9	0.24492	0.25953	640.72	0.28571	194.50	640.72	1,2	298.15	0.7566
24961	C12H26	5-methyl-3-ethylnonane	62184-49-0	0.24492	0.25947	639.37	0.28571	194.50	639.37	1,2	298.15	0.7563
24962	C12H26	5-methyl-4-ethylnonane	1632-71-9	0.24492	0.25711	639.37	0.28571	194.50	639.37	1,2	298.15	0.7621
24963	C12H26	5-methyl-5-ethylnonane	14531-16-9	0.24456	0.25673	641.56	0.28571	226.92	641.56	1,2	298.15	0.7627
24964	C12H26	2,2,3-trimethylnonane	55499-04-2	0.24669	0.26334	648.03	0.28571	211.92	648.03	1,2	298.15	0.7552
24965	C12H26	2,2,4-trimethylnonane	62184-50-3	0.24669	0.26683	635.70	0.28571	211.92	635.70	1,2	298.15	0.7430
24966	C12H26	2,2,5-trimethylnonane	62184-51-4	0.24669	0.26683	635.70	0.28571	211.92	635.70	1,2	298.15	0.7430
24967	C12H26	2,2,6-trimethylnonane	62184-52-5	0.24669	0.26651	634.33	0.28571	211.92	634.33	1,2	298.15	0.7433
24968	C12H26	2,2,7-trimethylnonane	62184-53-6	0.24669	0.26720	641.18	0.28571	211.92	641.18	1,2	298.15	0.7439
24969	C12H26	2,2,8-trimethylnonane	62184-54-7	0.24669	0.27032	641.18	0.28571	211.92	641.18	1,2	298.15	0.7367
24970	C12H26	2,3,3-trimethylnonane	62184-55-8	0.24669	0.26078	650.77	0.28571	211.92	650.77	1,2	298.15	0.7623
24971	C12H26	2,3,4-trimethylnonane	62184-56-9	0.24705	0.26083	644.34	0.28571	179.50	644.34	1,2	298.15	0.7612
24972	C12H26	2,3,5-trimethylnonane	62184-57-0	0.24705	0.26282	638.89	0.28571	179.50	638.89	1,2	298.15	0.7546
24973	C12H26	2,3,6-trimethylnonane	62184-58-1	0.24705	0.26306	641.61	0.28571	179.50	641.61	1,2	298.15	0.7549
24974	C12H26	2,3,7-trimethylnonane	62184-59-2	0.24705	0.26336	645.70	0.28571	179.50	645.70	1,2	298.15	0.7555
24975	C12H26	2,3,8-trimethylnonane	62184-60-5	0.24705	0.26562	644.34	0.28571	179.50	644.34	1,2	298.15	0.7497
24976	C12H26	2,4,4-trimethylnonane	62184-61-6	0.24669	0.26429	634.33	0.28571	211.92	634.33	1,2	298.15	0.7485
24977	C12H26	2,4,5-trimethylnonane	62184-62-7	0.24705	0.26275	637.53	0.28571	179.50	637.53	1,2	298.15	0.7543
24978	C12H26	2,4,6-trimethylnonane	62184-10-5	0.24705	0.26483	633.44	0.28571	179.50	633.44	1,2	298.15	0.7480
24979	C12H26	2,4,7-trimethylnonane	62184-11-6	0.24705	0.26500	636.16	0.28571	179.50	636.16	1,2	298.15	0.7485
24980	C12H26	2,4,8-trimethylnonane	49542-74-7	0.24705	0.26795	632.08	0.28571	179.50	632.08	1,2	298.15	0.7403
24981	C12H26	2,5,5-trimethylnonane	62184-12-7	0.24669	0.26429	634.33	0.28571	211.92	634.33	1,2	298.15	0.7485
24982	C12H26	2,5,6-trimethylnonane	62184-13-8	0.24705	0.26286	638.89	0.28571	179.50	638.89	1,2	298.15	0.7545
24983	C12H26	2,5,7-trimethylnonane	62184-14-9	0.24705	0.26505	636.16	0.28571	179.50	636.16	1,2	298.15	0.7484
24984	C12H26	2,5,8-trimethylnonane	49557-09-7	0.24705	0.26710	633.44	0.28571	179.50	633.44	1,2	298.15	0.7427
24985	C12H26	2,6,6-trimethylnonane	62184-15-0	0.24669	0.26408	634.33	0.28571	211.92	634.33	1,2	298.15	0.7490
24986	C12H26	2,6,7-trimethylnonane	62184-16-1	0.24705	0.26312	642.97	0.28571	179.50	642.97	1,2	298.15	0.7552
24987	C12H26	2,7,7-trimethylnonane	62184-17-2	0.24669	0.26506	643.92	0.28571	211.92	643.92	1,2	298.15	0.7498
24988	C12H26	3,3,4-trimethylnonane	62184-18-3	0.24669	0.25835	650.77	0.28571	211.92	650.77	1,2	298.15	0.7683
24989	C12H26	3,3,5-trimethylnonane	62184-19-4	0.24669	0.26165	634.33	0.28571	211.92	634.33	1,2	298.15	0.7548
24990	C12H26	3,3,7-trimethylnonane	62184-21-8	0.24669	0.26247	641.18	0.28571	211.92	641.18	1,2	298.15	0.7551
24991	C12H26	3,3,6-trimethylnonane	62184-20-7	0.24669	0.26277	645.29	0.28571	211.92	645.29	1,2	298.15	0.7557
24992	C12H26	3,4,4-trimethylnonane	62184-22-9	0.24669	0.25816	648.03	0.28571	211.92	648.03	1,2	298.15	0.7679
24993	C12H26	3,4,5-trimethylnonane	62184-23-0	0.24705	0.25848	644.34	0.28571	179.50	644.34	1,2	298.15	0.7670
24994	C12H26	3,4,6-trimethylnonane	62184-24-1	0.24705	0.26056	640.25	0.28571	179.50	640.25	1,2	298.15	0.7605
24995	C12H26	3,4,7-trimethylnonane	27802-85-3	0.24705	0.26087	644.34	0.28571	179.50	644.34	1,2	298.15	0.7611
24996	C12H26	3,5,5-trimethylnonane	62184-25-2	0.24669	0.26200	635.70	0.28571	211.92	635.70	1,2	298.15	0.7544
24997	C12H26	3,5,6-trimethylnonane	62184-26-3	0.24705	0.26061	640.25	0.28571	179.50	640.25	1,2	298.15	0.7604
24998	C12H26	3,5,7-trimethylnonane	62184-27-4	0.24705	0.26275	637.53	0.28571	179.50	637.53	1,2	298.15	0.7543
24999	C12H26	3,6,6-trimethylnonane	62184-28-5	0.24669	0.26165	634.33	0.28571	211.92	634.33	1,2	298.15	0.7548
25000	C12H26	4,4,5-trimethylnonane	62184-29-6	0.24669	0.25796	645.29	0.28571	211.92	645.29	1,2	298.15	0.7675
25001	C12H26	4,4,6-trimethylnonane	62184-30-9	0.24669	0.26205	635.70	0.28571	211.92	635.70	1,2	298.15	0.7543
25002	C12H26	4,5,5-trimethylnonane	62184-31-0	0.24669	0.25804	645.29	0.28571	211.92	645.29	1,2	298.15	0.7673
25003	C12H26	4,5,6-trimethylnonane	62211-85-2	0.24705	0.25823	641.61	0.28571	179.50	641.61	1,2	298.15	0.7667
25004	C12H26	4-tert-butyloctane	62184-32-1	0.24669	0.25961	635.70	0.28571	211.92	635.70	1,2	298.15	0.7602
25005	C12H26	2-methyl-4-propyloctane	62184-33-2	0.24492	0.26094	628.54	0.28571	194.50	628.54	1,2	298.15	0.7491
25006	C12H26	2-methyl-5-propyloctane	62184-34-3	0.24492	0.26140	628.54	0.28571	194.50	628.54	1,2	298.15	0.7480
25007	C12H26	3-methyl-4-propyloctane	62184-35-4	0.24492	0.25690	636.66	0.28571	194.50	636.66	1,2	298.15	0.7617

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
25008	C12H26	3-methyl-5-propyloctane	62184-36-5	0.24492	0.25489	632.60	0.28571	194.50	632.60	1,2	298.15	0.7653
25009	C12H26	4-methyl-4-propyloctane	17312-41-3	0.24456	0.25641	637.48	0.28571	226.92	637.48	1,2	298.15	0.7621
25010	C12H26	4-methyl-5-propyloctane	62183-85-1	0.24492	0.25683	635.31	0.28571	194.50	635.31	1,2	298.15	0.7614
25011	C12H26	2-methyl-3-isopropyloctane	13287-19-9	0.24705	0.26046	638.89	0.28571	179.50	638.89	1,2	298.15	0.7603
25012	C12H26	2-methyl-4-isopropyloctane	62183-86-2	0.24705	0.26222	630.72	0.28571	179.50	630.72	1,2	298.15	0.7533
25013	C12H26	2-methyl-5-isopropyloctane	62183-87-3	0.24705	0.26228	632.08	0.28571	179.50	632.08	1,2	298.15	0.7536
25014	C12H26	3-methyl-4-isopropyloctane	62183-88-4	0.24705	0.25796	637.53	0.28571	179.50	637.53	1,2	298.15	0.7660
25015	C12H26	3-methyl-5-isopropyloctane	62183-89-5	0.24705	0.26003	633.44	0.28571	179.50	633.44	1,2	298.15	0.7595
25016	C12H26	4-methyl-4-isopropyloctane	62183-90-8	0.24669	0.25561	645.29	0.28571	211.92	645.29	1,2	298.15	0.7734
25017	C12H26	4-methyl-5-isopropyloctane	62183-91-9	0.24705	0.25789	636.16	0.28571	179.50	636.16	1,2	298.15	0.7657
25018	C12H26	3,3-diethyloctane	17302-40-8	0.24456	0.25606	651.09	0.28571	226.92	651.09	1,2	298.15	0.7675
25019	C12H26	3,4-diethyloctane	62183-92-0	0.24492	0.25475	639.37	0.28571	194.50	639.37	1,2	298.15	0.7680
25020	C12H26	3,5-diethyloctane	62183-93-1	0.24492	0.25690	636.66	0.28571	194.50	636.66	1,2	298.15	0.7617
25021	C12H26	3,6-diethyloctane	62183-94-2	0.24492	0.25722	643.43	0.28571	194.50	643.43	1,2	298.15	0.7632
25022	C12H26	4,4-diethyloctane	17312-42-4	0.24456	0.25375	644.29	0.28571	226.92	644.29	1,2	298.15	0.7711
25023	C12H26	4,5-diethyloctane	1636-41-5	0.24492	0.25454	636.66	0.28571	194.50	636.66	1,2	298.15	0.7676
25024	C12H26	2,2-dimethyl-3-ethyloctane	62183-95-3	0.24669	0.26018	642.55	0.28571	211.92	642.55	1,2	298.15	0.7611
25025	C12H26	2,2-dimethyl-4-ethyloctane	62183-96-4	0.24669	0.26400	630.23	0.28571	211.92	630.23	1,2	298.15	0.7478
25026	C12H26	2,2-dimethyl-5-ethyloctane	62183-97-5	0.24669	0.26422	632.97	0.28571	211.92	632.97	1,2	298.15	0.7482
25027	C12H26	2,2-dimethyl-6-ethyloctane	62183-98-6	0.24669	0.26461	638.44	0.28571	211.92	638.44	1,2	298.15	0.7491
25028	C12H26	2,3-dimethyl-3-ethyloctane	62183-99-7	0.24669	0.25597	650.77	0.28571	211.92	650.77	1,2	298.15	0.7743
25029	C12H26	2,3-dimethyl-4-ethyloctane	62184-00-3	0.24705	0.25821	640.25	0.28571	179.50	640.25	1,2	298.15	0.7663
25030	C12H26	2,3-dimethyl-5-ethyloctane	62184-01-4	0.24705	0.26021	636.16	0.28571	179.50	636.16	1,2	298.15	0.7600
25031	C12H26	2,3-dimethyl-6-ethyloctane	62184-02-5	0.24705	0.26077	642.97	0.28571	179.50	642.97	1,2	298.15	0.7609
25032	C12H26	2,4-dimethyl-3-ethyloctane	62184-03-6	0.24705	0.25817	640.25	0.28571	179.50	640.25	1,2	298.15	0.7664
25033	C12H26	2,4-dimethyl-4-ethyloctane	62184-04-7	0.24669	0.25961	635.70	0.28571	211.92	635.70	1,2	298.15	0.7602
25034	C12H26	2,4-dimethyl-5-ethyloctane	62184-05-8	0.24705	0.26018	634.80	0.28571	179.50	634.80	1,2	298.15	0.7596
25035	C12H26	2,4-dimethyl-6-ethyloctane	62184-06-9	0.24705	0.26239	633.44	0.28571	179.50	633.44	1,2	298.15	0.7538
25036	C12H26	2,5-dimethyl-3-ethyloctane	62184-07-0	0.24705	0.26021	636.16	0.28571	179.50	636.16	1,2	298.15	0.7600
25037	C12H26	2,5-dimethyl-4-ethyloctane	62184-08-1	0.24705	0.26003	633.44	0.28571	179.50	633.44	1,2	298.15	0.7595
25038	C12H26	2,5-dimethyl-5-ethyloctane	62184-09-2	0.24669	0.25987	638.44	0.28571	211.92	638.44	1,2	298.15	0.7605
25039	C12H26	2,5-dimethyl-6-ethyloctane	62183-50-0	0.24705	0.26061	640.25	0.28571	179.50	640.25	1,2	298.15	0.7604
25040	C12H26	2,6-dimethyl-3-ethyloctane	62183-51-1	0.24705	0.26056	640.25	0.28571	179.50	640.25	1,2	298.15	0.7605
25041	C12H26	2,6-dimethyl-4-ethyloctane	62183-52-2	0.24705	0.26217	630.72	0.28571	179.50	630.72	1,2	298.15	0.7534
25042	C12H26	2,6-dimethyl-5-ethyloctane	62183-53-3	0.24705	0.26036	637.53	0.28571	179.50	637.53	1,2	298.15	0.7601
25043	C12H26	2,6-dimethyl-6-ethyloctane	62183-54-4	0.24669	0.26038	645.29	0.28571	211.92	645.29	1,2	298.15	0.7615
25044	C12H26	2,7-dimethyl-3-ethyloctane	62183-55-5	0.24705	0.26282	638.89	0.28571	179.50	638.89	1,2	298.15	0.7546
25045	C12H26	2,7-dimethyl-4-ethyloctane	62183-56-6	0.24705	0.26466	630.72	0.28571	179.50	630.72	1,2	298.15	0.7475
25046	C12H26	3,3-dimethyl-4-ethyloctane	62183-57-7	0.24669	0.25557	645.29	0.28571	211.92	645.29	1,2	298.15	0.7735
25047	C12H26	3,3-dimethyl-5-ethyloctane	62183-58-8	0.24669	0.25961	635.70	0.28571	211.92	635.70	1,2	298.15	0.7602
25048	C12H26	3,3-dimethyl-6-ethyloctane	62183-59-9	0.24669	0.26018	642.55	0.28571	211.92	642.55	1,2	298.15	0.7611
25049	C12H26	3,4-dimethyl-3-ethyloctane	62212-28-6	0.24669	0.25316	648.03	0.28571	211.92	648.03	1,2	298.15	0.7806
25050	C12H26	3,4-dimethyl-4-ethyloctane	62183-60-2	0.24669	0.25349	649.40	0.28571	211.92	649.40	1,2	298.15	0.7802
25051	C12H26	3,4-dimethyl-5-ethyloctane	62183-61-3	0.24705	0.25591	641.61	0.28571	179.50	641.61	1,2	298.15	0.7725
25052	C12H26	3,4-dimethyl-6-ethyloctane	62183-62-4	0.24705	0.25827	641.61	0.28571	179.50	641.61	1,2	298.15	0.7666
25053	C12H26	3,5-dimethyl-3-ethyloctane	62183-63-5	0.24669	0.25779	642.55	0.28571	211.92	642.55	1,2	298.15	0.7670
25054	C12H26	3,5-dimethyl-4-ethyloctane	62183-64-6	0.24705	0.25577	640.25	0.28571	179.50	640.25	1,2	298.15	0.7724
25055	C12H26	3,5-dimethyl-5-ethyloctane	62183-65-7	0.24669	0.25711	634.33	0.28571	211.92	634.33	1,2	298.15	0.7659
25056	C12H26	3,5-dimethyl-6-ethyloctane	62183-66-8	0.24705	0.25817	640.25	0.28571	179.50	640.25	1,2	298.15	0.7664
25057	C12H26	3,6-dimethyl-3-ethyloctane	62183-67-9	0.24669	0.25810	646.66	0.28571	211.92	646.66	1,2	298.15	0.7676
25058	C12H26	3,6-dimethyl-4-ethyloctane	62183-68-0	0.24705	0.25810	638.89	0.28571	179.50	638.89	1,2	298.15	0.7661
25059	C12H26	4,4-dimethyl-3-ethyloctane	62183-69-1	0.24669	0.28143	645.29	0.28571	211.92	645.29	1,2	298.15	0.7135
25060	C12H26	4,4-dimethyl-5-ethyloctane	62183-70-4	0.24669	0.25540	642.55	0.28571	211.92	642.55	1,2	298.15	0.7730
25061	C12H26	4,4-dimethyl-6-ethyloctane	62183-71-5	0.24669	0.25961	635.70	0.28571	211.92	635.70	1,2	298.15	0.7602
25062	C12H26	4,5-dimethyl-3-ethyloctane	62183-72-6	0.24705	0.25598	642.97	0.28571	179.50	642.97	1,2	298.15	0.7728
25063	C12H26	4,5-dimethyl-4-ethyloctane	62183-73-7	0.24669	0.25343	648.03	0.28571	211.92	648.03	1,2	298.15	0.7799
25064	C12H26	2,2,3,3-tetramethyloctane	62183-74-8	0.24849	0.25925	655.89	0.28571	229.34	655.89	1,2	298.15	0.7733
25065	C12H26	2,2,3,4-tetramethyloctane	62183-75-9	0.24885	0.26144	645.03	0.28571	196.92	645.03	1,2	298.15	0.7655
25066	C12H26	2,2,3,5-tetramethyloctane	62183-76-0	0.24885	0.26355	640.89	0.28571	196.92	640.89	1,2	298.15	0.7590
25067	C12H26	2,2,3,6-tetramethyloctane	62183-77-1	0.24885	0.26368	643.65	0.28571	196.92	643.65	1,2	298.15	0.7596
25068	C12H26	2,2,3,7-tetramethyloctane	62183-78-2	0.24885	0.26614	643.65	0.28571	196.92	643.65	1,2	298.15	0.7537
25069	C12H26	2,2,4,4-tetramethyloctane	62183-79-3	0.24849	0.26379	644.80	0.28571	229.34	644.80	1,2	298.15	0.7586
25070	C12H26	2,2,4,5-tetramethyloctane	62183-80-6	0.24885	0.26545	634.00	0.28571	196.92	634.00	1,2	298.15	0.7522
25071	C12H26	2,2,4,6-tetramethyloctane	62183-81-7	0.24885	0.26762	631.25	0.28571	196.92	631.25	1,2	298.15	0.7462
25072	C12H26	2,2,4,7-tetramethyloctane	62183-82-8	0.24885	0.27005	630.97	0.28571	196.92	630.97	1,2	298.15	0.7405
25073	C12H26	2,2,5,5-tetramethyloctane	62183-83-9	0.24849	0.26724	633.71	0.28571	229.34	633.71	1,2	298.15	0.7468
25074	C12H26	2,2,5,6-tetramethyloctane	62183-84-0	0.24885	0.26573	638.14	0.28571	196.92	638.14	1,2	298.15	0.7529
25075	C12H26	2,2,5,7-tetramethyloctane	62199-19-3	0.24885	0.27005	631.25	0.28571	196.92	631.25	1,2	298.15	0.7406
25076	C12H26	2,2,6,6-tetramethyloctane	62199-20-6	0.24849	0.26709	635.10	0.28571	229.34	635.10	1,2	298.15	0.7476
25077	C12H26	2,2,6,7-tetramethyloctane	62199-21-7	0.24885	0.26826	639.52	0.28571	196.92	639.52	1,2	298.15	0.7474
25078	C12H26	2,2,7,7-tetramethyloctane	1071-31-4	0.24849	0.27215	635.10	0.28571	229.34	635.10	1,2	298.15	0.7360
25079	C12H26	2,3,3,4-tetramethyloctane	62199-22-8	0.24885	0.25715	653.29	0.28571	196.92	653.29	1,2	298.15	0.7789
25080	C12H26	2,3,3,5-tetramethyloctane	62199-23-9	0.24885	0.26137	643.65	0.28571	196.92	643.65	1,2	298.15	0.7652
25081	C12H26	2,3,3,6-tetramethyloctane	62199-24-0	0.24885	0.26150	646.41	0.28571	196.92	646.41	1,2	298.15	0.7658
25082	C12H26	2,3,3,7-tetramethyloctane	62199-25-1	0.24885	0.26396	646.41	0.28571	196.92	646.41	1,2	298.15	0.7598
25083	C12H26	2,3,4,4-tetramethyloctane	62199-26-2	0.24885	0.25911	646.41	0.28571	196.92	646.41	1,2	298.15	0.7717
25084	C12H26	2,3,4,5-tetramethyloctane	62199-27-3	0.24921	0.25952	643.97	0.28571	164.50	643.97	1,2	298.15	0.7710
25085	C12H26	2,3,4,6-tetramethyloctane	62199-28-4	0.24921	0.26171	641.23	0.28571	164.50	641.23	1,2	298.15	0.7647
25086	C12H26	2,3,4,7-tetramethyloctane	62199-29-5	0.24921	0.26400	639.86	0.28571	164.50	639.86	1,2	298.15	0.7587
25087	C12H26	2,3,5,5-tetramethyloctane	62199-30-8	0.24885	0.26432	645.03	0.28571	196.92	645.03	1,2	298.15	0.7585

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
25088	C12H26	2,3,5,6-tetramethyloctane	62199-31-9	0.24921	0.26167	641.23	0.28571	164.50	641.23	1,2	298.15	0.7648
25089	C12H26	2,3,5,7-tetramethyloctane	62199-32-0	0.24921	0.26601	634.39	0.28571	164.50	634.39	1,2	298.15	0.7521
25090	C12H26	2,3,6,6-tetramethyloctane	62199-33-1	0.24885	0.26357	642.27	0.28571	196.92	642.27	1,2	298.15	0.7594
25091	C12H26	2,3,6,7-tetramethyloctane	52670-34-5	0.24921	0.26416	642.60	0.28571	164.50	642.60	1,2	298.15	0.7592
25092	C12H26	2,4,4,5-tetramethyloctane	62199-34-2	0.24885	0.26098	639.52	0.28571	196.92	639.52	1,2	298.15	0.7648
25093	C12H26	2,4,4,6-tetramethyloctane	62199-35-3	0.24885	0.26518	631.25	0.28571	196.92	631.25	1,2	298.15	0.7519
25094	C12H26	2,4,4,7-tetramethyloctane	35866-96-7	0.24885	0.26725	629.87	0.28571	196.92	629.87	1,2	298.15	0.7466
25095	C12H26	2,4,5,5-tetramethyloctane	62199-36-4	0.24885	0.26112	640.89	0.28571	196.92	640.89	1,2	298.15	0.7649
25096	C12H26	2,4,5,6-tetramethyloctane	62199-37-5	0.24921	0.26160	639.86	0.28571	164.50	639.86	1,2	298.15	0.7645
25097	C12H26	2,4,5,7-tetramethyloctane	2217-17-6	0.24921	0.26542	629.32	0.28571	164.50	629.32	1,2	298.15	0.7518
25098	C12H26	2,4,6,6-tetramethyloctane	62199-38-6	0.24885	0.26541	634.00	0.28571	196.92	634.00	1,2	298.15	0.7523
25099	C12H26	2,5,5,6-tetramethyloctane	62199-39-7	0.24885	0.26129	643.65	0.28571	196.92	643.65	1,2	298.15	0.7654
25100	C12H26	2,5,6,6-tetramethyloctane	62199-40-0	0.24885	0.26154	646.41	0.28571	196.92	646.41	1,2	298.15	0.7657
25101	C12H26	3,3,4,4-tetramethyloctane	62199-41-1	0.24849	0.25459	658.66	0.28571	229.34	658.66	1,2	298.15	0.7861
25102	C12H26	3,3,4,5-tetramethyloctane	62199-42-2	0.24885	0.25685	649.16	0.28571	196.92	649.16	1,2	298.15	0.7783
25103	C12H26	3,3,4,6-tetramethyloctane	62199-43-3	0.24885	0.25907	646.41	0.28571	196.92	646.41	1,2	298.15	0.7718
25104	C12H26	3,3,5,5-tetramethyloctane	62199-44-4	0.24849	0.25952	651.73	0.28571	229.34	651.73	1,2	298.15	0.7713
25105	C12H26	3,3,5,6-tetramethyloctane	62199-45-5	0.24885	0.26127	642.27	0.28571	196.92	642.27	1,2	298.15	0.7650
25106	C12H26	3,3,6,6-tetramethyloctane	62199-46-6	0.24849	0.26361	641.61	0.28571	199.87	641.61	1,2	298.15	0.7580
25107	C12H26	3,4,4,5-tetramethyloctane	62199-47-7	0.24885	0.25478	653.29	0.28571	196.92	653.29	1,2	298.15	0.7850
25108	C12H26	3,4,4,6-tetramethyloctane	62185-19-7	0.24885	0.25901	645.03	0.28571	196.92	645.03	1,2	298.15	0.7715
25109	C12H26	3,4,5,5-tetramethyloctane	62185-20-0	0.24885	0.25679	647.78	0.28571	196.92	647.78	1,2	298.15	0.7780
25110	C12H26	3,4,5,6-tetramethyloctane	62185-21-1	0.24921	0.25730	646.71	0.28571	164.50	646.71	1,2	298.15	0.7775
25111	C12H26	4,4,5,5-tetramethyloctane	62185-22-2	0.24849	0.25443	655.89	0.28571	229.34	655.89	1,2	298.15	0.7856
25112	C12H26	2-methyl-4-tert-butylheptane	62185-23-3	0.24885	0.26262	631.25	0.28571	196.92	631.25	1,2	298.15	0.7580
25113	C12H26	3-methyl-4-tert-butylheptane	62185-24-4	0.24885	0.25868	638.14	0.28571	196.92	638.14	1,2	298.15	0.7700
25114	C12H26	4-methyl-4-tert-butylheptane	62185-25-5	0.24849	0.25431	653.12	0.28571	229.34	653.12	1,2	298.15	0.7850
25115	C12H26	3-ethyl-4-propylheptane	62185-26-6	0.24492	0.25419	635.31	0.28571	194.50	635.31	1,2	298.15	0.7680
25116	C12H26	4-ethyl-4-propylheptane	17312-43-5	0.24456	0.25285	640.20	0.28571	226.92	640.20	1,2	298.15	0.7720
25117	C12H26	3-ethyl-4-isopropylheptane	62185-27-7	0.24705	0.25556	637.53	0.28571	179.50	637.53	1,2	298.15	0.7720
25118	C12H26	4-ethyl-4-isopropylheptane	62185-28-8	0.24669	0.25108	648.03	0.28571	211.92	648.03	1,2	298.15	0.7860
25119	C12H26	2,2-dimethyl-4-propylheptane	---	0.24669	0.26375	626.12	0.28571	211.92	626.12	1,2	298.15	0.7470
25120	C12H26	2,3-dimethyl-4-propylheptane	62185-30-2	0.24705	0.25777	636.16	0.28571	179.50	636.16	1,2	298.15	0.7660
25121	C12H26	2,4-dimethyl-4-propylheptane	62185-31-3	0.24669	0.25931	632.97	0.28571	211.92	632.97	1,2	298.15	0.7600
25122	C12H26	2,5-dimethyl-4-propylheptane	62185-32-4	0.24705	0.25985	630.72	0.28571	179.50	630.72	1,2	298.15	0.7590
25123	C12H26	2,6-dimethyl-4-propylheptane	62185-33-5	0.24705	0.26552	623.36	0.28571	179.50	623.36	1,2	298.15	0.7430
25124	C12H26	3,3-dimethyl-4-propylheptane	62185-34-6	0.24669	0.25540	642.55	0.28571	211.92	642.55	1,2	298.15	0.7730
25125	C12H26	3,4-dimethyl-4-propylheptane	62185-35-7	0.24669	0.25303	645.29	0.28571	211.92	645.29	1,2	298.15	0.7800
25126	C12H26	3,5-dimethyl-4-propylheptane	62185-36-8	0.24705	0.25574	638.89	0.28571	179.50	638.89	1,2	298.15	0.7720
25127	C12H26	2,2-dimethyl-3-isopropylheptane	62185-37-9	0.24885	0.26111	638.14	0.28571	196.92	638.14	1,2	298.15	0.7640
25128	C12H26	2,2-dimethyl-4-isopropylheptane	62185-38-0	0.24885	0.26497	627.12	0.28571	196.92	627.12	1,2	298.15	0.7510
25129	C12H26	2,3-dimethyl-3-isopropylheptane	62185-39-1	0.24885	0.25478	653.29	0.28571	196.92	653.29	1,2	298.15	0.7850
25130	C12H26	2,3-dimethyl-4-isopropylheptane	62185-40-4	0.24921	0.25899	637.13	0.28571	164.50	637.13	1,2	298.15	0.7700
25131	C12H26	2,4-dimethyl-3-isopropylheptane	62185-41-5	0.24921	0.25899	637.13	0.28571	164.50	637.13	1,2	298.15	0.7700
25132	C12H26	2,4-dimethyl-4-isopropylheptane	62185-42-6	0.24885	0.25865	640.89	0.28571	196.92	640.89	1,2	298.15	0.7710
25133	C12H26	2,5-dimethyl-3-isopropylheptane	62185-43-7	0.24921	0.26105	634.39	0.28571	164.50	634.39	1,2	298.15	0.7640
25134	C12H26	2,5-dimethyl-4-isopropylheptane	62185-44-8	0.24921	0.26127	633.02	0.28571	164.50	633.02	1,2	298.15	0.7630
25135	C12H26	2,6-dimethyl-3-isopropylheptane	62185-45-9	0.24921	0.26448	635.48	0.28571	164.50	635.48	1,2	298.15	0.7561
25136	C12H26	2,6-dimethyl-4-isopropylheptane	35866-89-8	0.24921	0.26510	624.80	0.28571	164.50	624.80	1,2	298.15	0.7510
25137	C12H26	3,3-dimethyl-4-isopropylheptane	62185-46-0	0.24885	0.25664	643.65	0.28571	196.92	643.65	1,2	298.15	0.7770
25138	C12H26	3,4-dimethyl-4-isopropylheptane	62185-47-1	0.24885	0.25248	653.29	0.28571	196.92	653.29	1,2	298.15	0.7910
25139	C12H26	3,5-dimethyl-4-isopropylheptane	62198-89-4	0.24921	0.25697	639.86	0.28571	164.50	639.86	1,2	298.15	0.7760
25140	C12H26	2-methyl-3,3-diethylheptane	62198-90-7	0.24669	0.25123	652.14	0.28571	211.92	652.14	1,2	298.15	0.7870
25141	C12H26	2-methyl-3,4-diethylheptane	62198-91-8	0.24705	0.25556	637.53	0.28571	179.50	637.53	1,2	298.15	0.7720
25142	C12H26	2-methyl-3,5-diethylheptane	62198-92-9	0.24705	0.25796	637.53	0.28571	179.50	637.53	1,2	298.15	0.7660
25143	C12H26	2-methyl-4,4-diethylheptane	62198-93-0	0.24669	0.25543	639.81	0.28571	211.92	639.81	1,2	298.15	0.7720
25144	C12H26	2-methyl-4,5-diethylheptane	62198-94-1	0.24705	0.25758	634.80	0.28571	179.50	634.80	1,2	298.15	0.7660
25145	C12H26	2-methyl-5,5-diethylheptane	62198-95-2	0.24669	0.25537	645.29	0.28571	211.92	645.29	1,2	298.15	0.7740
25146	C12H26	3-methyl-3,4-diethylheptane	62198-96-3	0.24669	0.25126	649.40	0.28571	211.92	649.40	1,2	298.15	0.7860
25147	C12H26	3-methyl-3,5-diethylheptane	62198-97-4	0.24669	0.25558	643.92	0.28571	211.92	643.92	1,2	298.15	0.7730
25148	C12H26	3-methyl-4,4-diethylheptane	62198-98-5	0.24669	0.24915	653.51	0.28571	211.92	653.51	1,2	298.15	0.7930
25149	C12H26	3-methyl-4,5-diethylheptane	62198-99-6	0.24705	0.25336	641.61	0.28571	179.50	641.61	1,2	298.15	0.7790
25150	C12H26	3-methyl-5,5-diethylheptane	62199-00-2	0.24669	0.25321	646.66	0.28571	211.92	646.66	1,2	298.15	0.7800
25151	C12H26	4-methyl-3,3-diethylheptane	62199-01-3	0.24669	0.24895	654.88	0.28571	211.92	654.88	1,2	298.15	0.7940
25152	C12H26	4-methyl-3,4-diethylheptane	62199-02-4	0.24669	0.25126	649.40	0.28571	211.92	649.40	1,2	298.15	0.7860
25153	C12H26	4-methyl-3,5-diethylheptane	62199-03-5	0.24705	0.25373	644.34	0.28571	179.50	644.34	1,2	298.15	0.7790
25154	C12H26	2,2,3-trimethyl-3-ethylheptane	62199-04-6	0.24849	0.25428	655.89	0.28571	229.34	655.89	1,2	298.15	0.7860
25155	C12H26	2,2,3-trimethyl-4-ethylheptane	62199-05-7	0.24885	0.25884	642.27	0.28571	196.92	642.27	1,2	298.15	0.7710
25156	C12H26	2,2,3-trimethyl-5-ethylheptane	62199-06-8	0.24885	0.26108	640.89	0.28571	196.92	640.89	1,2	298.15	0.7650
25157	C12H26	2,2,4-trimethyl-3-ethylheptane	62199-07-9	0.24885	0.25865	640.89	0.28571	196.92	640.89	1,2	298.15	0.7710
25158	C12H26	2,2,4-trimethyl-4-ethylheptane	62199-08-0	0.24849	0.25910	647.57	0.28571	229.34	647.57	1,2	298.15	0.7710
25159	C12H26	2,2,4-trimethyl-5-ethylheptane	62199-09-1	0.24885	0.26301	634.00	0.28571	196.92	634.00	1,2	298.15	0.7580
25160	C12H26	2,2,5-trimethyl-3-ethylheptane	62199-10-4	0.24885	0.26071	638.14	0.28571	196.92	638.14	1,2	298.15	0.7650
25161	C12H26	2,2,5-trimethyl-4-ethylheptane	62199-11-5	0.24885	0.26282	632.63	0.28571	196.92	632.63	1,2	298.15	0.7580
25162	C12H26	2,2,5-trimethyl-5-ethylheptane	62199-12-6	0.24849	0.26306	640.64	0.28571	229.34	640.64	1,2	298.15	0.7590
25163	C12H26	2,2,6-trimethyl-3-ethylheptane	62199-13-7	0.24885	0.26317	638.14	0.28571	196.92	638.14	1,2	298.15	0.7590
25164	C12H26	2,2,6-trimethyl-4-ethylheptane	62199-14-8	0.24885	0.26713	624.36	0.28571	196.92	624.36	1,2	298.15	0.7450
25165	C12H26	2,2,6-trimethyl-5-ethylheptane	62199-15-9	0.24885	0.26553	634.00	0.28571	196.92	634.00	1,2	298.15	0.7520
25166	C12H26	2,3,3-trimethyl-4-ethylheptane	62199-16-0	0.24885	0.25442	650.54	0.28571	196.92	650.54	1,2	298.15	0.7850
25167	C12H26	2,3,3-trimethyl-5-ethylheptane	62199-17-1	0.24885	0.25903	643.65	0.28571	196.92	643.65	1,2	298.15	0.7710

Table 3 Density of Liquid - Organic Compounds

			density = A B^-(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
25168	C12H26	2,3,4-trimethyl-3-ethylheptane	62199-18-2	0.24885	0.25245	656.05	0.28571	196.92	656.05	1,2	298.15	0.7920
25169	C12H26	2,3,4-trimethyl-4-ethylheptane	62198-55-4	0.24885	0.25463	649.16	0.28571	196.92	649.16	1,2	298.15	0.7840
25170	C12H26	2,3,4-trimethyl-5-ethylheptane	62198-56-5	0.24921	0.25713	643.97	0.28571	164.50	643.97	1,2	298.15	0.7770
25171	C12H26	2,3,5-trimethyl-3-ethylheptane	62198-57-6	0.24885	0.25673	648.47	0.28571	196.92	648.47	1,2	298.15	0.7784
25172	C12H26	2,3,5-trimethyl-4-ethylheptane	62198-58-7	0.24921	0.25695	642.60	0.28571	164.50	642.60	1,2	298.15	0.7770
25173	C12H26	2,3,5-trimethyl-5-ethylheptane	62198-59-8	0.24885	0.25903	643.65	0.28571	196.92	643.65	1,2	298.15	0.7710
25174	C12H26	2,3,6-trimethyl-3-ethylheptane	62198-60-1	0.24885	0.25899	646.41	0.28571	196.92	646.41	1,2	298.15	0.7720
25175	C12H26	2,3,6-trimethyl-4-ethylheptane	62198-61-2	0.24921	0.26105	634.39	0.28571	164.50	634.39	1,2	298.15	0.7640
25176	C12H26	2,3,6-trimethyl-5-ethylheptane	62198-62-3	0.24921	0.26162	638.50	0.28571	164.50	638.50	1,2	298.15	0.7640
25177	C12H26	2,4,4-trimethyl-3-ethylheptane	62198-63-4	0.24885	0.25903	643.65	0.28571	196.92	643.65	1,2	298.15	0.7710
25178	C12H26	2,4,4-trimethyl-5-ethylheptane	62198-64-5	0.24885	0.25865	640.89	0.28571	196.92	640.89	1,2	298.15	0.7710
25179	C12H26	2,4,5-trimethyl-3-ethylheptane	62198-65-6	0.24921	0.25695	642.60	0.28571	164.50	642.60	1,2	298.15	0.7770
25180	C12H26	2,4,5-trimethyl-4-ethylheptane	62198-66-7	0.24885	0.25643	645.03	0.28571	196.92	645.03	1,2	298.15	0.7780
25181	C12H26	2,4,5-trimethyl-5-ethylheptane	62198-67-8	0.24885	0.25679	647.78	0.28571	196.92	647.78	1,2	298.15	0.7780
25182	C12H26	2,4,6-trimethyl-3-ethylheptane	62198-68-9	0.24921	0.26124	635.76	0.28571	164.50	635.76	1,2	298.15	0.7640
25183	C12H26	2,4,6-trimethyl-4-ethylheptane	62198-69-0	0.24885	0.26262	631.25	0.28571	196.92	631.25	1,2	298.15	0.7580
25184	C12H26	2,5,5-trimethyl-3-ethylheptane	62198-70-3	0.24885	0.26111	638.14	0.28571	196.92	638.14	1,2	298.15	0.7640
25185	C12H26	2,5,5-trimethyl-4-ethylheptane	62198-71-4	0.24885	0.25865	640.89	0.28571	196.92	640.89	1,2	298.15	0.7710
25186	C12H26	3,3,4-trimethyl-4-ethylheptane	62198-72-5	0.24849	0.25023	662.82	0.28571	229.34	662.82	1,2	298.15	0.7990
25187	C12H26	3,3,4-trimethyl-5-ethylheptane	62198-73-6	0.24885	0.25442	650.54	0.28571	196.92	650.54	1,2	298.15	0.7850
25188	C12H26	3,3,5-trimethyl-4-ethylheptane	62198-74-7	0.24885	0.25445	647.78	0.28571	196.92	647.78	1,2	298.15	0.7840
25189	C12H26	3,3,5-trimethyl-5-ethylheptane	62198-75-8	0.24849	0.25501	658.66	0.28571	229.34	658.66	1,2	298.15	0.7850
25190	C12H26	3,4,4-trimethyl-3-ethylheptane	62198-76-9	0.24849	0.24986	662.82	0.28571	229.34	662.82	1,2	298.15	0.8000
25191	C12H26	3,4,4-trimethyl-5-ethylheptane	62198-77-0	0.24885	0.25227	654.67	0.28571	196.92	654.67	1,2	298.15	0.7920
25192	C12H26	3,4,5-trimethyl-3-ethylheptane	62198-78-1	0.24885	0.25227	654.67	0.28571	196.92	654.67	1,2	298.15	0.7920
25193	C12H26	3,4,5-trimethyl-4-ethylheptane	62198-79-2	0.24885	0.25054	658.81	0.28571	196.92	658.81	1,2	298.15	0.7980
25194	C12H26	2,2,3,3,4-pentamethylheptane	62198-80-5	0.25068	0.25554	660.06	0.28571	214.34	660.06	1,2	298.15	0.7910
25195	C12H26	2,2,3,3,5-pentamethylheptane	62198-81-6	0.25068	0.25996	651.69	0.28571	214.34	651.69	1,2	298.15	0.7770
25196	C12H26	2,2,3,3,6-pentamethylheptane	62198-82-7	0.25068	0.26219	650.30	0.28571	214.34	650.30	1,2	298.15	0.7710
25197	C12H26	2,2,3,4,4-pentamethylheptane	62198-83-8	0.25068	0.25627	662.85	0.28571	214.34	662.85	1,2	298.15	0.7900
25198	C12H26	2,2,3,4,5-pentamethylheptane	62198-84-9	0.25105	0.26028	647.63	0.28571	181.92	647.63	1,2	298.15	0.7760
25199	C12H26	2,2,3,4,6-pentamethylheptane	62198-85-0	0.25105	0.26446	639.31	0.28571	181.92	639.31	1,2	298.15	0.7630
25200	C12H26	2,2,3,5,5-pentamethylheptane	62198-86-1	0.25068	0.26393	641.93	0.28571	214.34	641.93	1,2	298.15	0.7640
25201	C12H26	2,2,3,5,6-pentamethylheptane	62198-87-2	0.25105	0.26461	640.42	0.28571	181.92	640.42	1,2	298.15	0.7630
25202	C12H26	2,2,3,6,6-pentamethylheptane	62198-88-3	0.25068	0.26902	639.14	0.28571	214.34	639.14	1,2	298.15	0.7510
25203	C12H26	2,2,4,4,5-pentamethylheptane	62199-61-5	0.25068	0.26071	654.48	0.28571	214.34	654.48	1,2	298.15	0.7760
25204	C12H26	2,2,4,4,6-pentamethylheptane	62199-62-6	0.25068	0.26676	639.98	0.28571	214.34	639.98	1,2	298.15	0.7566
25205	C12H26	2,2,4,5,5-pentamethylheptane	62199-63-7	0.25068	0.26416	640.53	0.28571	214.34	640.53	1,2	298.15	0.7630
25206	C12H26	2,2,4,5,6-pentamethylheptane	62199-64-8	0.25105	0.26681	635.15	0.28571	181.92	635.15	1,2	298.15	0.7560
25207	C12H26	2,2,4,6,6-pentamethylheptane	13475-82-6	0.25068	0.27180	629.30	0.28571	206.15	629.30	1,2	298.15	0.7414
25208	C12H26	2,2,5,5,6-pentamethylheptane	62199-65-9	0.25068	0.26624	640.53	0.28571	214.34	640.53	1,2	298.15	0.7580
25209	C12H26	2,3,3,4,4-pentamethylheptane	62199-66-0	0.25068	0.25340	664.25	0.28571	214.34	664.25	1,2	298.15	0.7980
25210	C12H26	2,3,3,4,5-pentamethylheptane	62199-67-1	0.25105	0.25586	655.95	0.28571	181.92	655.95	1,2	298.15	0.7900
25211	C12H26	2,3,3,4,6-pentamethylheptane	62199-68-2	0.25105	0.26046	649.01	0.28571	181.92	649.01	1,2	298.15	0.7760
25212	C12H26	2,3,3,5,5-pentamethylheptane	62199-69-3	0.25068	0.25865	660.06	0.28571	214.34	660.06	1,2	298.15	0.7830
25213	C12H26	2,3,3,5,6-pentamethylheptane	52670-35-6	0.25105	0.26233	644.85	0.28571	181.92	644.85	1,2	298.15	0.7700
25214	C12H26	2,3,4,4,5-pentamethylheptane	62199-70-6	0.25105	0.25586	655.95	0.28571	181.92	655.95	1,2	298.15	0.7900
25215	C12H26	2,3,4,4,6-pentamethylheptane	62199-71-7	0.25105	0.26237	642.08	0.28571	181.92	642.08	1,2	298.15	0.7690
25216	C12H26	2,3,4,5,5-pentamethylheptane	62199-72-8	0.25105	0.25805	651.79	0.28571	181.92	651.79	1,2	298.15	0.7830
25217	C12H26	2,3,4,5,6-pentamethylheptane	27574-98-7	0.25142	0.26080	645.08	0.28571	149.50	645.08	1,2	298.15	0.7750
25218	C12H26	2,4,4,5,5-pentamethylheptane	62199-73-9	0.25068	0.25755	654.48	0.28571	214.34	654.48	1,2	298.15	0.7840
25219	C12H26	3,3,4,4,5-pentamethylheptane	62199-74-0	0.25068	0.25129	668.43	0.28571	214.34	668.43	1,2	298.15	0.8050
25220	C12H26	3,3,4,5,5-pentamethylheptane	62199-75-1	0.25068	0.25216	672.62	0.28571	214.34	672.62	1,2	298.15	0.8040
25221	C12H26	2,2-dimethyl-3-tert-butylhexane	62199-76-2	0.25068	0.25834	654.48	0.28571	214.34	654.48	1,2	298.15	0.7820
25222	C12H26	2-methyl-3-ethyl-3-isopropylhexane	62199-77-3	0.24669	0.24659	648.03	0.28571	211.92	648.03	1,2	298.15	0.7980
25223	C12H26	2-methyl-4-ethyl-3-isopropylhexane	62199-78-4	0.24705	0.25303	630.72	0.28571	179.50	630.72	1,2	298.15	0.7760
25224	C12H26	2,2,3-trimethyl-3-isopropylhexane	62199-79-5	0.25068	0.25343	661.46	0.28571	214.34	661.46	1,2	298.15	0.7970
25225	C12H26	2,2,4-trimethyl-3-isopropylhexane	62199-80-8	0.25105	0.25975	640.70	0.28571	181.92	640.70	1,2	298.15	0.7750
25226	C12H26	2,2,5-trimethyl-3-isopropylhexane	62199-81-9	0.25105	0.26331	628.22	0.28571	181.92	628.22	1,2	298.15	0.7620
25227	C12H26	2,2,5-trimethyl-4-isopropylhexane	62199-82-0	0.25105	0.26582	628.22	0.28571	181.92	628.22	1,2	298.15	0.7560
25228	C12H26	2,3,4-trimethyl-3-isopropylhexane	62199-83-1	0.25105	0.25126	661.49	0.28571	181.92	661.49	1,2	298.15	0.8040
25229	C12H26	2,3,5-trimethyl-3-isopropylhexane	62199-84-2	0.25105	0.25790	647.63	0.28571	181.92	647.63	1,2	298.15	0.7820
25230	C12H26	2,3,5-trimethyl-4-isopropylhexane	62199-85-3	0.25142	0.26027	638.19	0.28571	149.50	638.19	1,2	298.15	0.7740
25231	C12H26	2,4,4-trimethyl-3-isopropylhexane	62199-86-4	0.25105	0.25753	644.85	0.28571	181.92	644.85	1,2	298.15	0.7820
25232	C12H26	3,3,4-triethylhexane	62199-87-5	0.24669	0.24690	656.25	0.28571	211.92	656.25	1,2	298.15	0.8000
25233	C12H26	2,2-dimethyl,3,3-diethylhexane	62199-88-6	0.24849	0.24937	655.89	0.28571	229.34	655.89	1,2	298.15	0.7990
25234	C12H26	2,2-dimethyl-3,4-diethylhexane	62199-89-7	0.24885	0.25589	638.14	0.28571	196.92	638.14	1,2	298.15	0.7770
25235	C12H26	2,2-dimethyl-4,4-diethylhexane	62184-89-8	0.24849	0.25505	655.89	0.28571	229.34	655.89	1,2	298.15	0.7840
25236	C12H26	2,3-dimethyl-3,4-diethylhexane	62184-90-1	0.24885	0.25037	657.43	0.28571	196.92	657.43	1,2	298.15	0.7980
25237	C12H26	2,3-dimethyl-4,4-diethylhexane	62184-91-2	0.24885	0.25037	657.43	0.28571	196.92	657.43	1,2	298.15	0.7980
25238	C12H26	2,4-dimethyl-3,3-diethylhexane	62184-92-3	0.24885	0.24709	651.92	0.28571	196.92	651.92	1,2	298.15	0.8050
25239	C12H26	2,4-dimethyl-3,4-diethylhexane	62184-93-4	0.24885	0.25230	651.92	0.28571	196.92	651.92	1,2	298.15	0.7910
25240	C12H26	2,5-dimethyl-3,3-diethylhexane	62184-94-5	0.24885	0.25316	638.14	0.28571	196.92	638.14	1,2	298.15	0.7840
25241	C12H26	2,5-dimethyl-3,4-diethylhexane	62184-95-6	0.24921	0.25622	634.39	0.28571	164.50	634.39	1,2	298.15	0.7760
25242	C12H26	3,3-dimethyl-4,4-diethylhexane	62184-96-7	0.24849	0.24560	669.75	0.28571	229.34	669.75	1,2	298.15	0.8140
25243	C12H26	3,4-dimethyl-3,4-diethylhexane	62184-97-8	0.24849	0.24560	669.75	0.28571	229.34	669.75	1,2	298.15	0.8140
25244	C12H26	2,2,3,3-tetramethyl-4-ethylhexane	62184-98-9	0.25068	0.25343	661.46	0.28571	214.34	661.46	1,2	298.15	0.7970
25245	C12H26	2,2,3,4-tetramethyl-3-ethylhexane	62184-99-0	0.25068	0.25133	665.64	0.28571	214.34	665.64	1,2	298.15	0.8040
25246	C12H26	2,2,3,4-tetramethyl-4-ethylhexane	62185-00-6	0.25068	0.25200	671.22	0.28571	214.34	671.22	1,2	298.15	0.8040
25247	C12H26	2,2,3,5-tetramethyl-3-ethylhexane	62185-01-7	0.25068	0.25759	651.69	0.28571	214.34	651.69	1,2	298.15	0.7830

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
25248	C12H26	2,2,3,5-tetramethyl-4-ethylhexane	62185-02-8	0.25105	0.26013	643.47	0.28571	181.92	643.47	1,2	298.15	0.7750
25249	C12H26	2,2,4,4-tetramethyl-3-ethylhexane	62185-03-9	0.25068	0.25364	660.06	0.28571	214.34	660.06	1,2	298.15	0.7960
25250	C12H26	2,2,4,5-tetramethyl-3-ethylhexane	62185-04-0	0.25105	0.25994	642.08	0.28571	181.92	642.08	1,2	298.15	0.7750
25251	C12H26	2,2,4,5-tetramethyl-4-ethylhexane	62185-05-1	0.25068	0.25851	655.88	0.28571	214.34	655.88	1,2	298.15	0.7820
25252	C12H26	2,2,5,5-tetramethyl-3-ethylhexane	62185-06-2	0.25068	0.26592	632.16	0.28571	214.34	632.16	1,2	298.15	0.7560
25253	C12H26	2,3,3,4-tetramethyl-4-ethylhexane	62185-07-3	0.25068	0.24906	671.22	0.28571	214.34	671.22	1,2	298.15	0.8120
25254	C12H26	2,3,3,5-tetramethyl-4-ethylhexane	62185-08-4	0.25105	0.25571	651.79	0.28571	181.92	651.79	1,2	298.15	0.7890
25255	C12H26	2,3,4,4-tetramethyl-3-ethylhexane	62185-09-5	0.25068	0.24906	671.22	0.28571	214.34	671.22	1,2	298.15	0.8120
25256	C12H26	2,3,4,5-tetramethyl-3-ethylhexane	62185-10-8	0.25105	0.25374	657.33	0.28571	181.92	657.33	1,2	298.15	0.7960
25257	C12H26	2,2,3,3,4,4-hexamethylhexane	62185-11-9	0.25254	0.24850	691.43	0.28571	231.76	691.43	1,2	298.15	0.8260
25258	C12H26	2,2,3,3,4,5-hexamethylhexane	62185-12-0	0.25292	0.25707	662.99	0.28571	199.34	662.99	1,2	298.15	0.7950
25259	C12H26	2,2,3,3,5,5-hexamethylhexane	60302-24-1	0.25254	0.26193	661.75	0.28571	231.76	661.75	1,2	298.15	0.7810
25260	C12H26	2,2,3,4,4,5-hexamethylhexane	62185-13-1	0.25292	0.25559	672.82	0.28571	199.34	672.82	1,2	298.15	0.8020
25261	C12H26	2,2,3,4,5,5-hexamethylhexane	62185-14-2	0.25292	0.26134	650.35	0.28571	199.34	650.35	1,2	298.15	0.7800
25262	C12H26	2,3,3,4,4,5-hexamethylhexane	52670-36-7	0.25292	0.25261	672.82	0.28571	199.34	672.82	1,2	298.15	0.8100
25263	C12H26	2,4-dimethyl-3-ethyl-3-isopropylpentane	62185-16-4	0.25105	0.24939	664.26	0.28571	181.92	664.26	1,2	298.15	0.8100
25264	C12H26	2,2,4-trimethyl-3,3-diethylpentane	62185-15-3	0.25068	0.24909	668.43	0.28571	214.34	668.43	1,2	298.15	0.8110
25265	C12H26	2,2,3,4-tetramethyl-3-isopropylpentane	62185-17-5	0.25292	0.25265	670.01	0.28571	199.34	670.01	1,2	298.15	0.8090
25266	C12H26	2,2,4,4-tetramethyl-3-isopropylpentane	62185-18-6	0.25292	0.25969	655.97	0.28571	199.34	655.97	1,2	298.15	0.7860
25267	C12H26	2,2,3,4,4-pentamethyl-3-ethylpentane	66576-21-4	0.25254	0.24713	688.61	0.28571	231.76	688.61	1,2	298.15	0.8290
25268	C12H26	2-methylundecane	7045-71-8	0.24282	0.25391	650.71	0.28571	227.00	650.71	2	298.15	0.7673
25277	C12H26O	1-dodecanol	112-53-8	0.26770	0.26294	721.00	0.31100	296.95	721.00	1,2	298.15	0.8300
25278	C12H26O	2-dodecanol	10203-28-8	0.26134	0.26047	704.80	0.28571	292.15	704.80	1,2	298.15	0.8251
25279	C12H26O	3-dodecanol	10203-30-2	0.26452	0.26435	712.90	0.28571	298.15	712.90	1,2	512.53	0.6676
25280	C12H26O	6-dodecanol	6836-38-0	0.26452	0.26319	712.90	0.28571	303.15	712.90	1,2	498.15	0.6822
25281	C12H26O	2-methyl-1-undecanol	10522-26-6	0.26452	0.26558	712.90	0.28571	280.73	712.90	1,2	298.15	0.8236
25282	C12H26O	2-methyl-3-undecanol	60671-36-5	0.26452	0.26339	712.90	0.28571	280.73	712.90	1,2	298.15	0.8294
25283	C12H26O	2-methyl-5-undecanol	33978-71-1	0.26452	0.26663	712.90	0.28571	280.73	712.90	1,2	298.15	0.8208
25284	C12H26O	2-butyl-1-octanol	3913-02-8	0.26452	0.24345	712.90	0.28571	280.73	712.90	1,2	298.15	0.8873
25285	C12H26O	dihexyl ether	112-58-3	0.26700	0.27197	658.00	0.30250	230.15	658.00	1,2	298.15	0.7900
25286	C12H26O	2,6,8-trimethylnonanol-4	123-17-1	0.26452	0.26732	712.90	0.28571	213.25	712.90	1,2	298.15	0.8190
25287	C12H26O2	1,2-dodecanediol	1119-87-5	0.27361	0.26149	723.16	0.28571	334.15	723.16	2	581.15	0.6354
25288	C12H26O2	1,3-dodecanediol	39516-24-0	0.27361	0.26279	736.85	0.28571	331.14	736.85	2	592.15	0.6334
25289	C12H26O2	1,4-dodecanediol	38146-95-1	0.27361	0.26510	762.98	0.28571	320.15	762.98	2	613.15	0.6299
25290	C12H26O2	1,12-dodecanediol	5675-51-4	0.27141	0.26111	745.30	0.28571	352.35	745.30	2	600.15	0.6296
25291	C12H26O2	(R)-1,2-dodecanediol	85514-84-7	0.27306	0.26265	742.07	0.28571	336.29	742.07	2	596.65	0.6320
25292	C12H26O2	(S)-1,2-dodecanediol	85514-85-8	0.27306	0.26265	742.07	0.28571	343.65	742.07	2	596.65	0.6320
25294	C12H26O3	diethylene glycol dibutyl ether	112-73-2	0.27190	0.24999	680.00	0.28571	212.95	680.00	1,2	298.15	0.8810
25310	C12H26S	1-dodecanethiol	112-55-0	0.27760	0.27001	724.00	0.31186	265.15	724.00	1,2	298.15	0.8420
25311	C12H26S	2-dodecanethiol	14402-50-7	0.27096	0.26889	720.00	0.28571	256.15	720.00	1,2	298.15	0.8366
25312	C12H26S	dihexyl sulfide	6294-31-1	0.26580	0.26229	733.68	0.28571	259.16	733.68	1,2	298.15	0.8420
25313	C12H26S	methyl undecyl sulfide	7289-44-3	0.26580	0.26229	733.68	0.28571	259.16	733.68	1,2	298.15	0.8420
25314	C12H26S	ethyl decyl sulfide	19313-61-2	0.26580	0.26229	733.68	0.28571	259.16	733.68	1,2	298.15	0.8420
25315	C12H26S	propyl nonyl sulfide	62103-66-6	0.26580	0.26229	733.68	0.28571	259.16	733.68	1,2	298.15	0.8420
25316	C12H26S	butyl octyl sulfide	16900-07-5	0.26580	0.26229	733.68	0.28571	259.16	733.68	1,2	298.15	0.8420
25317	C12H26S	tert-dodecylmercaptan	25103-58-6	0.27428	0.26611	722.00	0.28571	265.75	722.00	1,2	298.15	0.8550
25318	C12H26S2	dihexyl disulfide	10496-15-8	0.28750	0.26444	747.10	0.28571	225.16	747.10	1,2	298.15	0.9080
25327	C12H27BO3	tributyl borate	688-74-4	0.26660	0.24119	743.15	0.39033	203.15	743.15	1,2	298.15	0.8540
25340	C12H27N	dodecylamine	124-22-1	0.25220	0.26037	696.00	0.27740	301.47	696.00	1,2	532.35	0.6207
25341	C12H27N	methylundecylamine	66553-53-5	0.25391	0.26254	682.30	0.28571	277.16	682.30	1,2	298.15	0.7899
25342	C12H27N	ethyldecylamine	66553-52-4	0.25391	0.26339	677.70	0.28571	277.16	677.70	1,2	298.15	0.7864
25343	C12H27N	dihexylamine	143-16-8	0.25322	0.26307	678.20	0.28571	260.09	678.20	1,2	298.15	0.7852
25344	C12H27N	dimethyldecylamine	1120-24-7	0.25391	0.26884	685.30	0.28571	229.15	685.30	1,2	298.15	0.7750
25345	C12H27N	diethyloctylamine	4088-37-3	0.24863	0.25627	645.88	0.28571	256.97	645.88	1,2	298.15	0.7780
25346	C12H27N	tributylamine	102-82-9	0.25220	0.26411	644.00	0.27430	203.00	644.00	1,2	298.15	0.7750
25347	C12H27N	triisobutylamine	1116-40-1	0.25257	0.26975	672.77	0.28571	251.35	672.77	1,2	298.15	0.7652
25348	C12H27NO	N,N-diisopentylethanolamine	3574-43-4	0.28163	0.28582	820.00	0.28571	390.00	820.00	1,2	521.15	0.7200
25575	C13H10	fluorene	86-73-7	0.41560	0.30173	870.00	0.28571	387.94	870.00	1,2	570.44	1.0056
25623	C13H10O	benzophenone	119-61-9	0.30830	0.23304	816.00	0.27310	321.35	816.00	2	579.24	0.8713
25738	C13H12	diphenylmethane	101-81-5	0.30760	0.25701	768.00	0.28570	298.39	768.00	1,2	537.42	0.8061
25739	C13H12	1-methylbiphenyl	28652-72-4	0.31271	0.26090	775.80	0.28571	273.15	775.80	1,2	298.15	1.0073
25740	C13H12	3-methylbiphenyl	643-93-6	0.31271	0.26225	801.00	0.28571	277.85	801.00	1,2	298.15	1.0093
25741	C13H12	4-methylbiphenyl	644-08-6	0.31271	0.25960	793.40	0.28571	321.15	793.40	1,2	543.15	0.8248
25742	C13H12	2-methylbiphenyl	643-58-3	0.31271	0.26183	790.07	0.28571	272.95	790.07	1,2	298.15	1.0079
25745	C13H12	methylbiphenyl	28652-72-4	0.31271	0.25894	790.07	0.28571	297.20	790.07	2	298.15	1.0178
25903	C13H14	1-propylnaphthalene	2765-18-6	0.29480	0.24923	771.45	0.28571	264.69	771.45	1,2	298.15	0.9870
25904	C13H14	2-propylnaphthalene	2027-19-2	0.29480	0.25344	772.44	0.28571	270.16	772.44	1,2	298.15	0.9730
25905	C13H14	1-isopropylnaphthalene	6158-45-8	0.29791	0.25062	769.66	0.28571	257.61	769.66	1,2	298.15	0.9921
25906	C13H14	2-isopropylnaphthalene	2027-17-0	0.29791	0.25642	770.24	0.28571	288.31	770.24	1,2	298.15	0.9727
25907	C13H14	1-methyl-2-ethylnaphthalene	25607-16-3	0.29481	0.24821	775.02	0.28571	338.14	775.02	2	549.15	0.7853
25908	C13H14	1-methyl-3-ethylnaphthalene	17179-41-8	0.29481	0.24787	770.78	0.28571	338.14	770.78	2	546.15	0.7861
25909	C13H14	1-methyl-4-ethylnaphthalene	27424-87-9	0.29481	0.24798	772.19	0.28571	338.14	772.19	2	547.15	0.7858
25910	C13H14	1-methyl-5-ethylnaphthalene	17057-92-0	0.29481	0.24752	766.55	0.28571	313.15	766.55	2	543.15	0.7868
25911	C13H14	1-methyl-6-ethylnaphthalene	17059-53-9	0.29481	0.24787	770.78	0.28571	338.14	770.78	2	546.15	0.7861
25912	C13H14	1-methyl-7-ethylnaphthalene	2451-00-5	0.29481	0.24764	767.96	0.28571	370.15	767.96	2	544.15	0.7866
25913	C13H14	1-methyl-8-ethylnaphthalene	61886-71-3	0.29481	0.24809	773.61	0.28571	338.14	773.61	2	548.15	0.7856
25914	C13H14	2-methyl-1-ethylnaphthalene	---	0.29481	0.24787	770.78	0.28571	338.14	770.78	2	546.15	0.7861
25915	C13H14	2-methyl-3-ethylnaphthalene	31032-94-7	0.29480	0.24831	776.44	0.28571	344.16	776.44	2	550.16	0.7851
25916	C13H14	2-methyl-4-ethylnaphthalene	17057-94-2	0.29481	0.24798	772.19	0.28571	338.14	772.19	2	547.15	0.7858
25917	C13H14	2-methyl-5-ethylnaphthalene	---	0.29481	0.24752	766.55	0.28571	338.14	766.55	2	543.15	0.7868

Table 3 Density of Liquid - Organic Compounds

			density = A B ^ (1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
25918	C13H14	2-methyl-6-ethylnaphthalene	7372-86-3	0.29480	0.24751	766.56	0.28571	318.16	766.56	2	543.16	0.7868
25919	C13H14	2-methyl-7-ethylnaphthalene	17059-55-1	0.29480	0.24751	766.56	0.28571	318.16	766.56	2	543.16	0.7868
25920	C13H14	2-methyl-8-ethylnaphthalene	---	0.29481	0.24752	766.55	0.28571	338.14	766.55	2	543.15	0.7868
25921	C13H14	1,2,3-trimethylnaphthalene	879-12-9	0.29481	0.24890	783.95	0.28571	301.15	783.95	2	556.15	0.7831
25922	C13H14	1,2,4-trimethylnaphthalene	2717-42-2	0.29481	0.24879	782.54	0.28571	325.15	782.54	2	555.15	0.7834
25923	C13H14	1,2,5-trimethylnaphthalene	641-91-8	0.29481	0.24391	779.72	0.28571	306.65	779.72	1,2	553.15	0.7944
25924	C13H14	1,2,6-trimethylnaphthalene	3031-05-8	0.29481	0.24858	779.72	0.28571	287.15	779.72	2	298.15	0.9916
25925	C13H14	1,2,7-trimethylnaphthalene	486-34-0	0.29481	0.24454	776.90	0.28571	416.15	776.90	1,2	551.15	0.7929
25926	C13H14	1,2,8-trimethylnaphthalene	3876-97-9	0.29481	0.24912	786.77	0.28571	417.15	786.77	2	558.15	0.7827
25927	C13H14	1,3,5-trimethylnaphthalene	2131-39-7	0.29481	0.24907	786.07	0.28571	319.15	786.07	2	557.65	0.7828
25928	C13H14	1,3,6-trimethylnaphthalene	3031-08-1	0.29481	0.24858	779.72	0.28571	338.14	779.72	2	553.15	0.7839
25929	C13H14	1,3,7-trimethylnaphthalene	2131-38-6	0.29481	0.24533	779.72	0.28571	286.15	779.72	1,2	298.15	1.0030
25930	C13H14	1,3,8-trimethylnaphthalene	17057-91-9	0.29481	0.24912	786.77	0.28571	321.15	786.77	2	558.15	0.7827
25931	C13H14	1,4,5-trimethylnaphthalene	2131-41-1	0.29481	0.24912	786.77	0.28571	335.15	786.77	2	558.15	0.7827
25932	C13H14	1,4,6-trimethylnaphthalene	2131-42-2	0.29481	0.24835	776.90	0.28571	338.14	776.90	2	551.15	0.7843
25933	C13H14	1,6,7-trimethylnaphthalene	2245-38-7	0.29481	0.24858	779.72	0.28571	298.15	779.72	2	553.15	0.7839
25934	C13H14	2,3,6-trimethylnaphthalene	829-26-5	0.29481	0.24824	775.49	0.28571	375.15	775.49	2	550.15	0.7846
26158	C13H18	1-propyl-[1,2,3,4-tetrahydronaphthalene]	66324-83-2	0.28831	0.25462	745.97	0.28571	254.84	745.97	1,2	298.15	0.9405
26159	C13H18	2-propyl-[1,2,3,4-tetrahydronaphthalene]	66324-84-3	0.28831	0.25872	752.45	0.28571	265.65	752.45	1,2	298.15	0.9294
26160	C13H18	1,2,3,4-tetrahydro-1,1,6-trimethylnaphthalene	475-03-6	0.28831	0.25925	749.21	0.28571	260.25	749.21	1,2	298.15	0.9269
26161	C13H18	2,3-dihydro-1,1,4,7-tetramethyl-1H-indene	1078-04-2	0.28831	0.25697	749.21	0.28571	260.25	749.21	1,2	298.15	0.9340
26162	C13H18	2,3-dihydro-1,1,4,6-tetramethyl-1H-indene	941-60-6	0.28831	0.25739	749.21	0.28571	260.25	749.21	2	298.15	0.9327
26163	C13H18	1,2,3,4-tetrahydro-2,5,8-trimethylnaphthalene	30316-17-7	0.28831	0.25739	749.21	0.28571	260.25	749.21	2	298.15	0.9327
26283	C13H20	heptylbenzene	1078-71-3	0.27210	0.25690	714.00	0.32095	225.15	714.00	1,2	298.15	0.8530
26284	C13H20	1-methyl-2,4-diisopropylbenzene	1460-98-6	0.27210	0.26086	714.00	0.28571	228.72	714.00	1,2	298.15	0.8606
26285	C13H20	1-methyl-3,5-diisopropylbenzene	3055-14-9	0.27210	0.25988	714.00	0.28571	212.35	714.00	1,2	298.15	0.8634
26286	C13H20	[2-methyl-1-isopropylpropyl]benzene	21777-84-4	0.27210	0.25699	714.00	0.28571	248.65	714.00	1,2	298.15	0.8717
26288	C13H20	(2,4-dimethylpentyl)benzene	54518-00-2	0.27210	0.26302	714.00	0.28571	228.72	714.00	2	298.15	0.8545
26315	C13H20O	4-heptylphenol	1987-50-4	0.29567	0.26447	760.33	0.28571	297.15	760.33	2	298.15	0.9372
26318	C13H20O	2-sec-butyl-6-isopropylphenol	74926-97-9	0.29438	0.26334	762.67	0.28571	297.15	762.67	2	298.15	0.9372
26319	C13H20O	o-heptylphenol	5284-22-0	0.29374	0.26278	763.83	0.28571	297.15	763.83	2	298.15	0.9372
26344	C13H21N	4-heptylaniline	37529-27-4	0.27894	0.25218	720.00	0.28571	330.00	720.00	1,2	557.00	0.6869
26402	C13H24	1-tridecyne	26186-02-7	0.24860	0.25973	684.11	0.28571	268.16	684.11	1,2	298.15	0.7810
26403	C13H24	2-tridecyne	28467-75-6	0.24856	0.24561	701.82	0.28571	341.87	701.82	2	518.15	0.6474
26404	C13H24	3-tridecyne	60186-78-9	0.24856	0.24461	692.34	0.28571	341.87	692.34	2	511.15	0.6492
26405	C13H24	dicyclohexylmethane	3178-23-2	0.28647	0.27581	749.48	0.28571	254.51	749.48	1,2	298.15	0.8730
26406	C13H24	1-octylcyclopentene	52315-44-3	0.26116	0.26155	694.89	0.28571	211.86	694.89	1,2	298.15	0.8188
26420	C13H24O2	ethyl 10-undecenoate	692-86-4	0.29596	0.28197	716.00	0.28571	235.15	716.00	1,2	298.15	0.8762
26421	C13H24O2	methyl 11-dodecenoate	29972-79-0	0.29596	0.28170	716.00	0.28571	204.15	716.00	1,2	298.15	0.8769
26422	C13H24O2	isodecyl acrylate	1330-61-6	0.29596	0.27993	716.00	0.28571	173.15	716.00	1,2	298.15	0.8817
26423	C13H24O2	2-tridecenoic acid	6969-16-0	0.27352	0.25822	836.00	0.28571	309.15	836.00	1,2	575.00	0.7222
26424	C13H24O2	12-tridecenoic acid	6006-06-0	0.27352	0.26643	836.00	0.28571	311.65	836.00	2	575.00	0.7061
26426	C13H24O2	citronellyl propionate	76444-23-0	0.29596	0.28149	716.00	0.28571	204.15	716.00	2	298.15	0.8775
26427	C13H24O2	decyl acrylate	2156-96-9	0.29596	0.28149	716.00	0.28571	204.15	716.00	2	298.15	0.8775
26428	C13H24O2	undecenyl acetate	112-19-6	0.29596	0.28149	716.00	0.28571	204.15	716.00	2	298.15	0.8775
26439	C13H25Br	cis-1-bromo-1-tridecene	66324-50-3	0.32433	0.26110	726.09	0.28571	290.49	726.09	1,2	298.15	1.0290
26440	C13H25Br	trans-1-bromo-1-tridecene	66324-51-4	0.32433	0.26110	726.09	0.28571	290.49	726.09	1,2	298.15	1.0290
26442	C13H25Br3	1,1,1-tribromotridecane	62127-70-2	0.44865	0.25700	813.37	0.28571	417.59	813.37	2	627.15	1.0943
26443	C13H25Cl	cis-1-chloro-1-tridecene	66324-52-5	0.27356	0.25914	731.35	0.28571	260.61	731.35	1,2	298.15	0.8750
26444	C13H25Cl	trans-1-chloro-1-tridecene	66324-53-6	0.27356	0.25914	731.35	0.28571	260.61	731.35	1,2	298.15	0.8750
26445	C13H25Cl3	1,1,1-trichlorotridecane	3922-24-5	0.31984	0.25733	763.82	0.28571	327.95	763.82	2	586.15	0.7826
26446	C13H25F	cis-1-fluoro-1-tridecene	66324-54-7	0.26309	0.25413	659.99	0.28571	262.84	659.99	1,2	298.15	0.8340
26447	C13H25F	trans-1-fluoro-1-tridecene	66324-55-8	0.26309	0.25413	659.99	0.28571	262.84	659.99	1,2	298.15	0.8340
26448	C13H25F3	1,1,1-trifluorotridecane	62126-98-1	0.29904	0.25769	654.90	0.28571	334.64	654.90	2	498.15	0.7364
26449	C13H25I	cis-1-iodo-1-tridecene	66324-56-9	0.37071	0.26392	759.56	0.28571	288.75	759.56	1,2	298.15	1.1770
26450	C13H25I	trans-1-iodo-1-tridecene	66324-57-0	0.37071	0.26392	759.56	0.28571	288.75	759.56	1,2	298.15	1.1770
26451	C13H25I3	1,1,1-triiodotridecane	---	0.55293	0.27021	1014.03	0.28571	412.37	1014.03	2	773.03	1.3171
26452	C13H25N	tridecanenitrile	629-60-7	0.24743	0.24804	733.04	0.28571	283.05	733.04	1,2	298.15	0.8223
26465	C13H26	octylcyclopentane	1795-20-6	0.25880	0.26630	702.06	0.28571	229.16	702.06	1,2	298.15	0.8010
26466	C13H26	heptylcyclohexane	5617-41-4	0.26180	0.26826	708.63	0.28571	242.66	708.63	1,2	298.15	0.8070
26467	C13H26	2-butyl-1,1,3-trimethylcyclohexane	54676-39-0	0.26180	0.26134	708.63	0.28571	242.66	708.63	1,2	298.15	0.8253
26468	C13H26	cyclotridecane	295-02-3	0.28425	0.27977	764.06	0.28571	298.05	764.06	1,2	298.15	0.8590
26469	C13H26	1-tridecene	2437-56-1	0.24120	0.25326	675.00	0.30402	250.08	675.00	1,2	298.15	0.7620
26470	C13H26	2-methyl-1-dodecene	16435-49-7	0.24460	0.25988	673.88	0.28571	241.94	673.88	1,2	298.15	0.7651
26471	C13H26	5-butyl-4-nonene	7367-38-6	0.24290	0.25544	674.44	0.28571	246.01	674.44	1,2	298.15	0.7711
26472	C13H26Br2	1,1-dibromotridecane	62168-30-3	0.38815	0.25643	777.32	0.28571	340.37	777.32	2	598.15	0.9498
26473	C13H26Br2	1,13-dibromotridecane	31772-05-1	0.38815	0.25706	777.32	0.28571	282.15	777.32	1,2	298.15	1.2671
26474	C13H26Cl2	1,1-dichlorotridecane	821-93-2	0.29603	0.26108	745.93	0.28571	280.61	745.93	1,2	298.15	0.9450
26475	C13H26F2	1,1-difluorotridecane	62127-02-0	0.28141	0.25978	672.30	0.28571	285.07	672.30	1,2	298.15	0.8800
26476	C13H26I2	1,1-diiodotridecane	66324-43-4	0.46723	0.26581	893.94	0.28571	336.89	893.94	2	682.68	1.1236
26486	C13H26O	1-tridecanal	10486-19-8	0.26880	0.26093	700.00	0.32170	288.15	700.00	1,2	298.15	0.8270
26487	C13H26O	2-tridecanone	593-08-8	0.25776	0.25656	707.26	0.28571	300.65	707.26	1,2	535.73	0.6388
26488	C13H26O	3-tridecanone	1534-26-5	0.25776	0.24903	707.26	0.28571	304.15	707.26	2	538.47	0.6489
26489	C13H26O	7-tridecanone	462-18-0	0.25776	0.25536	707.26	0.28571	306.15	707.26	1,2	534.15	0.6423
26492	C13H26O2	tridecanoic acid	638-53-9	0.27219	0.25627	746.59	0.28571	314.95	746.59	1,2	585.25	0.6555
26493	C13H26O2	2-methyldodecanoic acid	2874-74-0	0.27219	0.25553	746.59	0.28571	295.15	746.59	1,2	298.15	0.8854
26494	C13H26O2	dodecyl formate	28303-42-6	0.26561	0.24861	713.20	0.28571	294.47	713.20	2	298.15	0.8752
26495	C13H26O2	undecyl acetate	1731-81-3	0.26495	0.24732	707.60	0.28571	266.35	707.60	2	298.15	0.8752
26496	C13H26O2	decyl propanoate	5454-19-3	0.26495	0.25279	707.60	0.28571	278.10	707.60	1,2	298.15	0.8590
26497	C13H26O2	nonyl butanoate	2639-64-7	0.26495	0.25283	706.70	0.28571	278.10	706.70	1,2	298.15	0.8586

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
26498	C13H26O2	octyl pentanoate	5451-85-4	0.27640	0.26322	682.00	0.28571	230.85	682.00	1,2	298.15	0.8579
26499	C13H26O2	heptyl hexanoate	6976-72-3	0.27640	0.26336	682.00	0.28571	238.75	682.00	1,2	298.15	0.8575
26500	C13H26O2	hexyl heptanoate	1119-06-8	0.27640	0.26336	682.00	0.28571	225.15	682.00	1,2	298.15	0.8575
26501	C13H26O2	pentyl octanoate	638-25-5	0.27640	0.26329	682.00	0.28571	238.35	682.00	1,2	298.15	0.8577
26502	C13H26O2	butyl nonanoate	50623-57-9	0.27000	0.25487	652.00	0.28570	235.15	652.00	1,2	298.15	0.8510
26503	C13H26O2	propyl decanoate	30673-60-0	0.27640	0.26293	682.00	0.28571	243.51	682.00	1,2	298.15	0.8587
26504	C13H26O2	isopropyl decanoate	2311-59-3	0.27640	0.26582	682.00	0.28571	243.51	682.00	1,2	298.15	0.8507
26505	C13H26O2	methyl dodecanoate	111-82-0	0.28280	0.21883	712.00	0.28571	278.15	712.00	1,2	298.15	1.0390
26506	C13H26O2	ethyl undecanoate	627-90-7	0.27640	0.26257	682.00	0.28571	258.15	682.00	1,2	298.15	0.8597
26507	C13H26O2	isoamyl caprylate	2035-99-6	0.27640	0.25708	682.00	0.28571	243.51	682.00	2	298.15	0.8752
26514	C13H26S	thiacyclotetradecane	295-20-5	0.31555	0.31366	818.79	0.28571	302.68	818.79	2	568.15	0.7213
26515	C13H27Br	1-bromotridecane	765-09-3	0.31891	0.25888	739.06	0.28571	279.35	739.06	1,2	298.15	1.0234
26516	C13H27Cl	1-chlorotridecane	822-13-9	0.26930	0.25804	724.59	0.28571	273.85	724.59	1,2	298.15	0.8627
26517	C13H27F	1-fluorotridecane	1536-21-6	0.26178	0.25837	674.20	0.28571	276.15	674.20	1,2	298.15	0.8230
26518	C13H27I	1-iodotridecane	35599-77-0	0.39650	0.28494	744.41	0.28571	285.45	744.41	1,2	298.15	1.1731
26522	C13H27NO2	1-nitrotridecane	26817-31-2	0.27128	0.24438	751.18	0.28571	379.38	751.18	2	584.15	0.6787
26526	C13H28	tridecane	629-50-5	0.23940	0.25267	675.80	0.31200	267.76	675.80	1,2	298.15	0.7540
26527	C13H28	2-methyldodecane	1560-97-0	0.24339	0.26390	668.02	0.28571	247.15	668.02	1,2	298.15	0.7498
26528	C13H28	3-methyldodecane	17312-57-1	0.24339	0.26134	669.09	0.28571	220.15	669.09	1,2	298.15	0.7563
26529	C13H28	2,2-dimethylundecane	17312-64-0	0.24500	0.26596	663.40	0.28571	238.19	663.40	1,2	298.15	0.7485
26530	C13H28	2,3-dimethylundecane	17312-77-5	0.24533	0.26030	669.37	0.28571	205.77	669.37	1,2	298.15	0.7650
26531	C13H28	2,4-dimethylundecane	17312-80-0	0.24533	0.26280	653.35	0.28571	205.77	653.35	1,2	298.15	0.7540
26532	C13H28	5-butylnonane	17312-63-9	0.24364	0.26032	666.51	0.28571	230.80	666.51	1,2	298.15	0.7588
26535	C13H28O	1-tridecanol	112-70-9	0.26750	0.26994	731.00	0.28570	303.75	731.00	1,2	547.15	0.6467
26536	C13H28O	2-tridecanol	1653-31-2	0.26089	0.26075	718.60	0.28571	295.15	718.60	1,2	298.15	0.8267
26537	C13H28O	3-tridecanol	10289-68-6	0.26420	0.26498	724.80	0.28571	305.15	724.80	1,2	531.15	0.6569
26538	C13H28O	5-butyl-5-nonanol	597-93-3	0.26420	0.26121	724.80	0.28571	293.15	724.80	1,2	298.15	0.8376
26539	C13H28O2	1,2-tridecanediol	---	0.27199	0.26125	736.93	0.28571	342.41	736.93	2	595.15	0.6289
26540	C13H28O2	1,3-tridecanediol	---	0.27199	0.26247	750.55	0.28571	342.41	750.55	2	606.15	0.6270
26541	C13H28O2	1,4-tridecanediol	61828-34-0	0.27199	0.26467	776.55	0.28571	319.15	776.55	2	627.15	0.6238
26542	C13H28O2	1,13-tridecanediol	13362-52-2	0.26995	0.26095	759.19	0.28571	349.75	759.19	2	614.15	0.6235
26543	C13H28O2	1,12-tridecanediol	99706-68-0	0.27148	0.26237	755.80	0.28571	333.65	755.80	2	610.65	0.6257
26549	C13H28S	1-tridecanethiol	19484-26-5	0.26470	0.26181	742.13	0.28571	282.04	742.13	1,2	298.15	0.8420
26550	C13H28S	2-tridecanethiol	62155-03-7	0.26986	0.26868	734.00	0.28571	263.15	734.00	1,2	298.15	0.8374
26551	C13H28S	methyl dodecyl sulfide	---	0.26470	0.26237	748.42	0.28571	271.16	748.42	1,2	298.15	0.8420
26552	C13H28S	ethyl undecyl sulfide	66577-30-8	0.26470	0.26237	748.42	0.28571	271.16	748.42	1,2	298.15	0.8420
26553	C13H28S	propyl decyl sulfide	66577-31-9	0.26470	0.26237	748.42	0.28571	271.16	748.42	1,2	298.15	0.8420
26554	C13H28S	butyl nonyl sulfide	66577-32-0	0.26470	0.26237	748.42	0.28571	271.16	748.42	1,2	298.15	0.8420
26555	C13H29N	tridecylamine	2869-34-3	0.25399	0.26220	721.70	0.28571	299.15	721.70	1,2	553.15	0.6145
26556	C13H29N	methyldodecylamine	7311-30-0	0.25399	0.26264	696.80	0.28571	291.15	696.80	1,2	298.15	0.7940
26557	C13H29N	ethylundecylamine	59570-04-6	0.25399	0.26341	693.10	0.28571	288.43	693.10	1,2	298.15	0.7910
26558	C13H29N	dimethylundecylamine	17373-28-3	0.25399	0.26850	700.50	0.28571	268.24	700.50	1,2	298.15	0.7802
26559	C13H29N	diethylnonylamine	45124-35-4	0.24876	0.25650	661.69	0.28571	268.24	661.69	1,2	298.15	0.7830
26560	C13H29N	6-methyl-N-isopentyl-2-heptanamine	502-59-0	0.25294	0.26255	694.76	0.28571	289.79	694.76	2	298.15	0.7904
26561	C13H29N	tert-amyl-tert-octylamine	150285-07-7	0.25294	0.25585	694.76	0.28571	289.79	694.76	1,2	298.15	0.8080
26562	C13H29N	N-methyldihexylamine	37615-53-5	0.25294	0.26869	694.76	0.28571	278.54	694.76	1,2	298.15	0.7750
26654	C14H8O2	anthraquinone	84-65-1	0.38280	0.22736	900.00	0.28570	559.15	900.00	1,2	653.05	1.0655
26728	C14H10	anthracene	120-12-7	0.32170	0.21791	873.00	0.23530	489.25	873.00	1,2	615.18	1.0095
26729	C14H10	diphenylacetylene	501-65-5	0.29170	0.24196	832.00	0.28571	335.65	832.00	1,2	573.00	0.8062
26730	C14H10	phenanthrene	85-01-8	0.32170	0.29361	869.25	0.24860	372.38	869.25	1,2	613.45	0.7946
26866	C14H12	cis-stilbene	645-49-8	0.30860	0.25433	757.00	0.28571	268.15	757.00	1,2	298.15	1.0110
26867	C14H12	trans-stilbene	103-30-0	0.31180	0.27564	820.00	0.28571	397.35	820.00	1,2	579.65	0.7727
26868	C14H12	1,1-diphenylethene	530-48-3	0.30786	0.25374	791.64	0.28571	281.41	791.64	1,2	298.15	1.0203
26873	C14H12	stilbene	588-59-0	0.31020	0.27064	788.50	0.28571	397.05	788.50	1,2	579.65	0.7585
26942	C14H12O2	benzyl benzoate	120-51-4	0.30580	0.22320	820.00	0.32700	292.55	820.00	1,2	298.15	1.1150
26987.1	C14H12O4	dimethyl-2,6-naphthalenedicarboxylate	840-65-3	0.34992	0.26888	883.00	0.28571	464.50	883.00	1,2	298.15	1.1248
27052	C14H14	1,1-diphenylethane	612-00-0	0.30180	0.25067	775.00	0.30352	255.20	775.00	1,2	298.15	0.9960
27053	C14H14	1,2-diphenylethane	103-29-7	0.30080	0.25774	780.00	0.29000	324.34	780.00	1,2	553.65	0.7755
27054	C14H14	2-methyldiphenylmethane	713-36-0	0.30201	0.25396	784.15	0.28571	279.79	784.15	1,2	298.15	0.9982
27055	C14H14	3-methyldiphenylmethane	620-47-3	0.30201	0.25695	782.37	0.28571	245.35	782.37	1,2	298.15	0.9876
27056	C14H14	4-methyldiphenylmethane	620-83-7	0.30201	0.25845	786.22	0.28571	277.76	786.22	1,2	298.15	0.9836
27057	C14H14	2,2'-dimethylbiphenyl	605-39-0	0.30736	0.25884	761.60	0.28571	291.15	761.60	1,2	298.15	0.9930
27058	C14H14	2,3'-trimethylbiphenyl	611-43-8	0.30736	0.26170	781.70	0.28571	322.15	781.70	1,2	547.15	0.7951
27059	C14H14	2,4'-dimethlbiphenyl	611-61-0	0.30736	0.26219	788.20	0.28571	322.15	788.20	1,2	547.15	0.7981
27060	C14H14	3,3'-dimethylbiphenyl	612-75-9	0.30736	0.26187	796.10	0.28571	280.15	796.10	1,2	298.15	0.9921
27061	C14H14	3,4'-dimethylbiphenyl	7383-90-6	0.30736	0.26220	808.30	0.28571	288.15	808.30	1,2	298.15	0.9940
27062	C14H14	4,4'-dimethylbiphenyl	613-33-2	0.30736	0.26737	817.70	0.28571	394.15	817.70	1,2	566.15	0.7883
27063	C14H14	2-ethylbiphenyl	1812-51-7	0.30736	0.26023	777.40	0.28571	267.05	777.40	1,2	298.15	0.9927
27064	C14H14	3-ethylbiphenyl	5668-93-9	0.30736	0.26127	801.00	0.28571	245.65	801.00	1,2	298.15	0.9953
27065	C14H14	4-ethylbiphenyl	5707-44-8	0.30736	0.26243	806.00	0.28571	320.15	806.00	2	556.15	0.8006
27066	C14H14	2,3-dimethylbiphenyl	3864-18-4	0.30736	0.26213	802.00	0.28571	315.15	802.00	2	551.15	0.8032
27067	C14H14	3,4-dimethylbiphenyl	4433-11-8	0.30736	0.25831	801.20	0.28571	302.65	801.20	1,2	555.15	0.8076
27068	C14H14	2,6-dimethylbiphenyl	3976-34-9	0.30736	0.26114	768.10	0.28571	270.65	768.10	1,2	298.15	0.9872
27069	C14H14	1,3-dimethyl-4-phenyl benzene	---	0.30736	0.26067	783.20	0.28571	322.15	783.20	2	543.15	0.8020
27070	C14H14	1,3-dimethyl-5-phenyl benzene	---	0.30736	0.26081	785.00	0.28571	322.15	785.00	2	548.15	0.7982
27071	C14H14	1,4-dimethyl-2-phenyl benzene	---	0.30736	0.26167	796.00	0.28571	322.15	796.00	2	540.15	0.8103
27072	C14H14	2,5-dimethylbiphenyl	7372-85-2	0.30736	0.26230	792.44	0.28571	301.14	792.44	1,2	549.48	0.7985
27073	C14H14	2,4-dimethylbiphenyl	4433-10-7	0.30736	0.27692	792.44	0.28571	301.14	792.44	1,2	545.15	0.7717
27074	C14H14	3,5-dimethylbiphenyl	17057-88-4	0.30736	0.26053	792.44	0.28571	295.65	792.44	1,2	298.15	0.9956
27138	C14H14O	dibenzyl ether	103-50-4	0.32610	0.26342	777.00	0.28570	276.75	777.00	1,2	298.15	1.0420

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
27267	C14H16	1-butylnaphthalene	1634-09-9	0.29200	0.25258	792.00	0.28340	253.43	792.00	1,2	298.15	0.9730
27268	C14H16	2-butylnaphthalene	1134-62-9	0.29090	0.25355	780.96	0.28571	268.16	780.96	1,2	298.15	0.9620
27269	C14H16	1-sec-butylnaphthalene	1680-58-6	0.29367	0.25638	818.49	0.28571	333.04	818.49	1,2	546.15	0.7934
27270	C14H16	2-sec-butylnaphthalene	4614-03-3	0.29367	0.25420	818.49	0.28571	333.04	818.49	2	585.41	0.7644
27271	C14H16	1-isobutylnaphthalene	16727-91-6	0.29367	0.25384	772.68	0.28571	263.75	772.68	1,2	298.15	0.9680
27272	C14H16	2-isobutylnaphthalene	26490-07-3	0.29367	0.25420	818.49	0.28571	333.04	818.49	2	585.41	0.7644
27273	C14H16	1-tert-butylnaphthalene	17085-91-5	0.29603	0.25069	781.33	0.28571	262.15	781.33	1,2	298.15	0.9888
27274	C14H16	2-tert-butylnaphthalene	2876-35-9	0.29603	0.25806	783.88	0.28571	268.15	783.88	1,2	298.15	0.9648
27275	C14H16	1-methyl-2-propylnaphthalene	39036-65-2	0.29089	0.25104	812.35	0.28571	333.04	812.35	2	585.41	0.7598
27276	C14H16	2-methyl-1-propylnaphthalene	54774-89-9	0.29089	0.25104	812.35	0.28571	333.04	812.35	2	585.41	0.7598
27277	C14H16	3-methyl-2-propylnaphthalene	66577-19-3	0.29089	0.25104	812.35	0.28571	333.04	812.35	2	585.41	0.7598
27278	C14H16	2-methyl-1-isopropylnaphthalene	32114-79-7	0.29367	0.25413	817.54	0.28571	333.04	817.54	2	585.41	0.7639
27279	C14H16	3-methyl-2-isopropylnaphthalene	66577-18-2	0.29367	0.25413	817.54	0.28571	333.04	817.54	2	585.41	0.7639
27280	C14H16	1-methyl-3-isopropylnaphthalene	66577-16-0	0.29367	0.25413	817.54	0.28571	333.04	817.54	2	585.41	0.7639
27281	C14H16	1-methyl-4-isopropylnaphthalene	1680-53-1	0.29367	0.25182	817.54	0.28571	333.04	817.54	1,2	585.41	0.7688
27282	C14H16	1-methyl-6-isopropylnaphthalene	10136-83-1	0.29367	0.25413	817.54	0.28571	333.04	817.54	2	585.41	0.7639
27283	C14H16	1-methyl-7-isopropylnaphthalene	490-65-3	0.29367	0.25318	773.88	0.28571	333.04	773.88	1,2	554.15	0.7659
27284	C14H16	2-methyl-8-isopropylnaphthalene	---	0.29367	0.25101	775.28	0.28571	333.04	775.28	2	555.15	0.7706
27285	C14H16	1,2-diethylnaphthalene	19182-11-7	0.29089	0.25104	812.35	0.28571	333.04	812.35	2	585.41	0.7598
27286	C14H16	1,4-diethylnaphthalene	37796-58-0	0.29089	0.24794	812.35	0.28571	293.15	812.35	1,2	298.15	0.9890
27287	C14H16	1,6-diethylnaphthalene	19182-13-9	0.29089	0.25104	812.35	0.28571	333.04	812.35	2	585.41	0.7598
27288	C14H16	1,7-diethylnaphthalene	66577-37-5	0.29089	0.25104	812.35	0.28571	333.04	812.35	2	585.41	0.7598
27289	C14H16	2,3-diethylnaphthalene	66610-91-1	0.29089	0.25104	812.35	0.28571	333.04	812.35	2	585.41	0.7598
27289.1	C14H16	2,6-diethylnaphthalene	59919-41-4	0.29251	0.24647	807.00	0.28571	322.15	807.00	2	298.15	0.9984
27290	C14H16	2,4-dimethyl-1-ethylnaphthalene	66577-14-8	0.29089	0.25097	811.44	0.28571	333.04	811.44	2	585.41	0.7593
27291	C14H16	4,6-dimethyl-1-ethylnaphthalene	66577-15-9	0.29089	0.25097	811.44	0.28571	333.04	811.44	2	585.41	0.7593
27292	C14H16	2,5-dimethyl-3-ethylnaphthalene	---	0.29089	0.25097	811.44	0.28571	333.04	811.44	2	585.41	0.7593
27293	C14H16	1,2-dimethyl-4-ethylnaphthalene	66577-38-6	0.29089	0.25097	811.44	0.28571	333.04	811.44	2	585.41	0.7593
27294	C14H16	1,3-dimethyl-5-ethylnaphthalene	66577-40-0	0.29089	0.25097	811.44	0.28571	303.15	811.44	2	585.41	0.7593
27295	C14H16	1,4-dimethyl-5-ethylnaphthalene	66309-90-8	0.29089	0.25097	811.44	0.28571	265.15	811.44	2	298.15	0.9783
27296	C14H16	1,3-dimethyl-6-ethylnaphthalene	39622-45-2	0.29089	0.25097	811.44	0.28571	333.04	811.44	2	585.41	0.7593
27297	C14H16	1,4-dimethyl-6-ethylnaphthalene	66610-92-2	0.29089	0.25097	811.44	0.28571	333.04	811.44	2	585.41	0.7593
27298	C14H16	1,2-dimethyl-7-ethylnaphthalene	66577-39-7	0.29089	0.25097	811.44	0.28571	333.04	811.44	2	585.41	0.7593
27299	C14H16	1,2,3,4-tetramethylnaphthalene	3031-15-0	0.29089	0.25091	810.54	0.28571	379.15	810.54	2	585.41	0.7589
27300	C14H16	1,2,3,6-tetramethylnaphthalene	66577-20-6	0.29089	0.25091	810.54	0.28571	332.15	810.54	2	585.41	0.7589
27301	C14H16	1,2,4,6-tetramethylnaphthalene	66577-21-7	0.29089	0.25091	810.54	0.28571	317.15	810.54	2	585.41	0.7589
27302	C14H16	1,2,4,7-tetramethylnaphthalene	16020-17-0	0.29089	0.24250	810.54	0.28571	270.15	810.54	1,2	298.15	1.0080
27303	C14H16	1,2,4,8-tetramethylnaphthalene	66577-22-8	0.29089	0.25091	810.54	0.28571	329.15	810.54	2	585.41	0.7589
27304	C14H16	1,2,5,6-tetramethylnaphthalene	2131-43-3	0.29089	0.25091	810.54	0.28571	387.15	810.54	2	585.41	0.7589
27305	C14H16	1,2,5,8-tetramethylnaphthalene	3031-16-1	0.29089	0.25091	810.54	0.28571	333.04	810.54	2	585.41	0.7589
27306	C14H16	1,2,6,8-tetramethylnaphthalene	66577-00-2	0.29089	0.25091	810.54	0.28571	333.04	810.54	2	585.41	0.7589
27307	C14H16	1,3,5,8-tetramethylnaphthalene	14558-12-4	0.29089	0.25091	810.54	0.28571	329.15	810.54	2	585.41	0.7589
27308	C14H16	1,3,6,7-tetramethylnaphthalene	7435-50-9	0.29089	0.25091	810.54	0.28571	318.15	810.54	2	585.41	0.7589
27309	C14H16	1,4,5,8-tetramethylnaphthalene	2717-39-7	0.29089	0.25091	810.54	0.28571	404.15	810.54	2	585.41	0.7589
27310	C14H16	1,4,6,7-tetramethylnaphthalene	13764-18-6	0.29089	0.25091	810.54	0.28571	336.15	810.54	2	585.41	0.7589
27311	C14H16	2,3,6,7-tetramethylnaphthalene	1134-40-3	0.29089	0.25091	810.54	0.28571	464.15	810.54	2	585.41	0.7589
27313	C14H16	7-methyl-1-isopropylnaphthalene	66577-17-1	0.29183	0.25112	807.60	0.28571	327.40	807.60	1,2	555.15	0.7863
27314	C14H16	1,3,6,8-tetramethylnaphthalene	14558-14-6	0.29183	0.25162	807.60	0.28571	357.65	807.60	2	576.21	0.7663
27506.1	C14H18O8	di-1-glyceryl terephthalate	66032-51-76	0.38705	0.34275	882.00	0.28571	397.40	882.00	2	298.15	1.0025
27560	C14H20	1-butyl-[1,2,3,4-tetrahydronaphthalene]	38857-76-0	0.28511	0.25536	756.75	0.28571	266.11	756.75	1,2	298.15	0.9307
27561	C14H20	2-butyl-[1,2,3,4-tetrahydronaphthalene]	36230-28-1	0.28511	0.25825	764.18	0.28571	243.05	764.18	1,2	298.15	0.9236
27562	C14H20	1,2,3,4-tetrahydro-1,1,2,6-tetramethylnaphthalene	1681-22-7	0.28511	0.25596	760.47	0.28571	247.92	760.47	1,2	298.15	0.9298
27565	C14H20	5-butyl-1,2,3,4-tetrahydronaphthalene	66325-42-6	0.28511	0.25431	760.47	0.28571	224.05	760.47	2	298.15	0.9350
27566	C14H20	1,2,3,4-tetrahydro-5-isobutylnaphthalene	5458-54-8	0.28511	0.25431	760.47	0.28571	258.45	760.47	2	298.15	0.9350
27566.1	C14H20	diamantane	2292-79-7	0.28403	0.28706	791.00	0.28571	517.92	791.00	2	298.15	0.8450
27644	C14H22	octylbenzene	2189-60-8	0.27070	0.25599	729.00	0.32630	237.15	729.00	1,2	298.15	0.8530
27645	C14H22	1,2,3,4-tetraethylbenzene	642-32-0	0.26750	0.24759	708.20	0.28571	284.96	708.20	1,2	298.15	0.8830
27646	C14H22	1,2,3,5-tetraethylbenzene	38842-05-6	0.26750	0.24917	707.52	0.28571	284.16	707.52	1,2	298.15	0.8780
27647	C14H22	1,2,4,5-tetraethylbenzene	635-81-4	0.26750	0.25010	706.85	0.28571	283.16	706.85	1,2	298.15	0.8750
27648	C14H22	1,4-di-tert-butylbenzene	1012-72-2	0.26830	0.22024	712.89	0.28571	352.65	712.89	1,2	511.15	0.7705
27649	C14H22	(1-methylheptyl)benzene	777-22-0	0.26830	0.25378	712.89	0.28571	234.25	712.89	1,2	298.15	0.8685
27650	C14H22	1,3-di-tert-butylbenzene	1014-60-4	0.26830	0.25706	712.89	0.28571	283.65	712.89	1,2	298.15	0.8590
27679	C14H22O	p-tert-octylphenol	140-66-9	0.29310	0.26175	765.00	0.29000	358.55	765.00	2	563.60	0.7283
27680	C14H22O	2,4-di-tert-butylphenol	96-76-4	0.29310	0.26248	765.00	0.28571	329.65	765.00	2	536.65	0.7555
27681	C14H22O	2,6-di-sec-butylphenol	5510-99-6	0.29310	0.26248	765.00	0.28571	231.15	765.00	2	298.15	0.9364
27682	C14H22O	2,6-di-tert-butylphenol	128-39-2	0.29310	0.26248	765.00	0.28571	312.15	765.00	2	527.81	0.7634
27687	C14H22O	4-octylphenol	1806-26-4	0.29310	0.25476	765.00	0.28571	316.15	765.00	1,2	423.15	0.8685
27688	C14H22O	tert-octylphenol	27193-28-8	0.29310	0.26101	765.00	0.28571	346.15	765.00	1,2	554.65	0.7420
27689	C14H22O	3,5-bis(1,1-dimethylethyl)phenol	1138-52-9	0.29310	0.26248	765.00	0.28571	361.15	765.00	2	527.81	0.7634
27691	C14H22O	2-isopropyl-6-(1-methylbutyl)phenol	74926-98-0	0.29310	0.26248	765.00	0.28571	322.14	765.00	2	527.81	0.7634
27724	C14H23N	2,6-diisopropyl-N,N-dimethylaniline	2909-77-5	0.27164	0.25760	730.00	0.28571	330.00	730.00	1,2	543.85	0.6802
27725	C14H23N	N-(2-ethylhexyl)aniline	10137-80-1	0.27164	0.24484	730.00	0.28571	330.00	730.00	1,2	543.85	0.7040
27772	C14H24S	3-decylthiophene	65016-55-9	0.26371	0.24117	785.00	0.28571	330.00	785.00	1,2	570.15	0.7042
27777	C14H26	1,1-dicyclohexylethane	2319-61-1	0.28353	0.26773	762.12	0.28571	252.33	762.12	1,2	298.15	0.8897
27778	C14H26	1,2-dicyclohexylethane	3321-50-4	0.28353	0.27393	762.12	0.28571	284.65	762.12	1,2	298.15	0.8722
27779	C14H26	1-nonylcyclopentene	62184-74-1	0.26036	0.26108	707.91	0.28571	223.13	707.91	1,2	298.15	0.8212
27780	C14H26	1-tetradecyne	765-10-6	0.25176	0.26175	689.90	0.28571	294.01	689.90	1,2	298.15	0.7874
27781	C14H26	3-tetradecyne	60212-32-0	0.24870	0.24001	705.58	0.28571	353.14	705.58	2	528.15	0.6508
27782	C14H26	7-tetradecyne	35216-11-6	0.25023	0.25750	697.74	0.28571	323.58	697.74	1,2	535.60	0.6119
27784	C14H26	1,13-tetradecadiene	21964-49-8	0.27764	0.27348	736.00	0.28571	330.00	736.00	1,2	535.60	0.6788

Table 3 Density of Liquid - Organic Compounds

			density = A B^-(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
27797	C14H26O2	methyl 12-tridecenoate	29780-00-5	0.29252	0.27968	738.00	0.28571	250.75	738.00	1,2	298.15	0.8779
27798	C14H26O2	4-tetradecenoic acid	544-65-0	0.26979	0.25639	856.00	0.28571	291.65	856.00	1,2	298.15	0.8996
27799	C14H26O2	5-tetradecenoic acid	544-66-1	0.26979	0.25569	856.00	0.28571	293.15	856.00	1,2	298.15	0.9018
27800	C14H26O2	9-tetradecenoic acid	13147-06-3	0.26979	0.25658	856.00	0.28571	269.15	856.00	1,2	298.15	0.8990
27801	C14H26O2	decyl methacrylate	3179-47-3	0.29252	0.27492	738.00	0.28571	250.75	738.00	2	298.15	0.8910
27803	C14H26O2	isodecyl methacrylate	29964-84-9	0.29252	0.27964	738.00	0.28571	250.75	738.00	1,2	298.15	0.8780
27807	C14H26O2	citronellyl butyrate	141-16-2	0.29252	0.27492	738.00	0.28571	250.75	738.00	2	298.15	0.8910
27808	C14H26O2	citronellyl isobutyrate	97-89-2	0.29252	0.27492	738.00	0.28571	250.75	738.00	2	298.15	0.8910
27809	C14H26O2	2,6-dimethyl-2-octen-8-yl butyrate	141-16-2	0.29252	0.27492	738.00	0.28571	250.75	738.00	2	298.15	0.8910
27810	C14H26O2	cis-7-dodecenyl acetate	14959-86-5	0.29252	0.27492	738.00	0.28571	250.75	738.00	2	298.15	0.8910
27825	C14H27Br	cis-1-bromo-1-tetradecene	66827-02-9	0.31953	0.25110	738.68	0.28571	301.76	738.68	2	567.15	0.7942
27826	C14H27Br	trans-1-bromo-1-tetradecene	66827-03-0	0.31953	0.25110	738.68	0.28571	301.76	738.68	2	567.15	0.7942
27828	C14H27Br3	1,1,1-tribromotetradecane	62155-25-3	0.43749	0.25704	821.99	0.28571	428.86	821.99	2	640.15	1.0577
27829	C14H27Cl	cis-1-chloro-1-tetradecene	66827-04-1	0.27203	0.25941	745.10	0.28571	271.88	745.10	1,2	298.15	0.8730
27830	C14H27Cl	trans-1-chloro-1-tetradecene	66827-05-2	0.27203	0.25941	745.10	0.28571	271.88	745.10	1,2	298.15	0.8730
27832	C14H27Cl3	1,1,1-trichlorotetradecane	62108-58-1	0.31578	0.25744	775.24	0.28571	339.22	775.24	2	601.15	0.7656
27833	C14H27F	cis-1-fluoro-1-tetradecene	66827-06-3	0.26222	0.25542	682.24	0.28571	274.11	682.24	1,2	298.15	0.8350
27834	C14H27F	trans-1-fluoro-1-tetradecene	66827-07-4	0.26222	0.25542	682.24	0.28571	274.11	682.24	1,2	298.15	0.8350
27835	C14H27F3	1,1,1-trifluorotetradecane	62126-99-2	0.29620	0.25827	670.40	0.28571	345.91	670.40	2	515.15	0.7222
27836	C14H27I	cis-1-iodo-1-tetradecene	66827-08-5	0.36312	0.25480	771.57	0.28571	300.02	771.57	2	590.15	0.8968
27837	C14H27I	trans-1-iodo-1-tetradecene	66827-09-6	0.36312	0.25480	771.57	0.28571	300.02	771.57	2	590.15	0.8968
27838	C14H27I3	1,1,1-triiodotetradecane	---	0.53714	0.27031	1032.58	0.28571	423.64	1032.58	2	795.91	1.2678
27839	C14H27N	tetradecanenitrile	629-63-0	0.24763	0.24867	745.12	0.28571	292.45	745.12	1,2	298.15	0.8243
27847	C14H28	nonylcyclopentane	2882-98-6	0.25820	0.26595	716.95	0.28571	244.16	716.95	1,2	298.15	0.8040
27848	C14H28	octylcyclohexane	1795-15-9	0.26100	0.26765	723.61	0.28571	253.46	723.61	1,2	298.15	0.8100
27849	C14H28	cyclotetradecane	295-17-0	0.28481	0.31190	777.91	0.28571	328.75	777.91	2	544.15	0.6508
27850	C14H28	1-tetradecene	1120-36-1	0.24040	0.25185	692.00	0.30449	260.30	692.00	1,2	298.15	0.7680
27851	C14H28	2-tetradecene	638-60-8	0.25128	0.26028	716.27	0.28571	279.65	716.27	1,2	298.15	0.7969
27852	C14H28	2-methyl-1-tridecene	18094-01-4	0.18507	0.18694	690.08	0.28571	251.37	690.08	1,2	298.15	0.7708
27853	C14H28	trans-7-tetradecene	41446-63-3	0.22558	0.23937	699.45	0.28571	263.77	699.45	1,2	298.15	0.7640
27854	C14H28Br2	1,1-dibromotetradecane	62168-31-4	0.37993	0.25650	787.47	0.28571	351.64	787.47	2	612.15	0.9213
27855	C14H28Br2	1,14-dibromotetradecane	37688-96-3	0.37993	0.25650	787.47	0.28571	323.55	787.47	2	612.15	0.9213
27856	C14H28Cl2	1,1-dichlorotetradecane	4168-40-5	0.29323	0.26126	758.80	0.28571	291.88	758.80	1,2	298.15	0.9390
27857	C14H28F2	1,1-difluorotetradecane	62127-03-1	0.27968	0.25954	686.60	0.28571	296.34	686.60	1,2	298.15	0.8800
27858	C14H28I2	1,1-diiodotetradecane	66826-79-7	0.45496	0.26612	913.90	0.28571	348.16	913.90	2	705.56	1.0834
27862	C14H28O	tetradecanal	124-25-4	0.25389	0.25209	717.32	0.28571	298.15	717.32	1,2	556.15	0.6241
27863	C14H28O	2-tetradecanone	2345-27-9	0.25727	0.25194	712.65	0.28571	307.15	712.65	2	551.15	0.6341
27864	C14H28O	7-ethyl-2-methyl-4-undecanone	6976-00-7	0.25727	0.25374	712.65	0.28571	311.48	712.65	1,2	525.65	0.6558
27865	C14H28O	2-methyl-3-tridecanone	40239-35-8	0.25727	0.25545	712.65	0.28571	320.15	712.65	1,2	540.15	0.6391
27866	C14H28O	3-tetradecanone	629-23-2	0.25727	0.25194	712.65	0.28571	307.15	712.65	2	512.95	0.6709
27867	C14H28O	dodecyl vinyl ether	765-14-0	0.27201	0.27827	726.00	0.28571	330.00	726.00	1,2	510.00	0.6722
27870	C14H28O	cis-9-tetradecenol	35153-15-2	0.26927	0.25291	699.00	0.28571	330.00	699.00	1,2	512.95	0.6906
27873	C14H28O2	tetradecanoic acid	544-63-8	0.28160	0.26869	756.00	0.28360	327.55	756.00	1,2	599.35	0.6529
27874	C14H28O2	tridecyl formate	42875-41-2	0.26402	0.25265	725.40	0.28571	305.74	725.40	2	577.24	0.6326
27875	C14H28O2	dodecyl acetate	112-66-3	0.26341	0.25223	720.30	0.28571	274.25	720.30	1,2	298.15	0.8593
27876	C14H28O2	undecyl propanoate	5458-33-3	0.26341	0.25154	720.90	0.28571	289.37	720.90	2	298.15	0.8615
27877	C14H28O2	decyl butanoate	5454-09-1	0.26341	0.25273	720.20	0.28571	289.37	720.20	1,2	298.15	0.8578
27878	C14H28O2	octyl hexanoate	4887-30-3	0.27930	0.26830	695.00	0.28571	245.15	695.00	1,2	298.15	0.8569
27879	C14H28O2	heptyl heptanoate	624-09-9	0.28047	0.26795	695.00	0.28571	240.15	695.00	1,2	298.15	0.8614
27880	C14H28O2	hexyl octanoate	1117-55-1	0.28166	0.27097	695.00	0.28571	242.55	695.00	1,2	298.15	0.8569
27881	C14H28O2	pentyl nonanoate	61531-45-1	0.28286	0.27468	695.00	0.28571	246.15	695.00	1,2	298.15	0.8506
27882	C14H28O2	ethyl laurate	106-33-2	0.28407	0.27312	695.00	0.28571	263.15	695.00	1,2	298.15	0.8584
27883	C14H28O2	methyl tridecanoate	1731-88-0	0.28529	0.27334	695.00	0.28571	279.65	695.00	2	298.15	0.8615
27885	C14H28O2	3,7-dimethyloctanyl butyrate	67874-80-0	0.26341	0.25147	720.20	0.28571	289.37	720.20	2	298.15	0.8615
27893	C14H28S	thiacyclopentadecane	295-51-2	0.31401	0.31306	827.84	0.28571	310.43	827.84	2	580.15	0.7149
27895	C14H29Br	1-bromotetradecane	112-71-0	0.31456	0.25889	750.56	0.28571	278.75	750.56	1,2	298.15	1.0129
27896	C14H29Br	1-bromo-12-methyltridecane	111772-90-8	0.31456	0.25671	750.56	0.28571	278.75	750.56	1,2	298.15	1.0203
27897	C14H29Cl	1-chlorotetradecane	2425-54-9	0.26809	0.25828	738.54	0.28571	278.05	738.54	1,2	298.15	0.8619
27899	C14H29F	1-fluorotetradecane	73180-09-3	0.26133	0.25876	688.70	0.28571	277.15	688.70	1,2	298.15	0.8250
27901	C14H29I	1-iodotetradecane	19218-94-1	0.38675	0.28350	758.94	0.28571	286.75	758.94	1,2	298.15	1.1538
27908	C14H29NO2	1-nitrotetradecane	31241-42-6	0.26998	0.24518	762.20	0.28571	390.65	762.20	2	598.15	0.6683
27912	C14H30	tetradecane	629-59-4	0.23540	0.25561	692.40	0.27348	279.01	692.40	1,2	298.15	0.7580
27913	C14H30	2-methyltridecane	1560-96-9	0.24387	0.26368	684.08	0.28571	248.15	684.08	1,2	298.15	0.7564
27914	C14H30	3-methyltridecane	6418-41-3	0.24387	0.26123	685.13	0.28571	235.65	685.13	1,2	298.15	0.7627
27915	C14H30	2,2-dimethyldodecane	49598-54-1	0.24538	0.26554	679.98	0.28571	249.46	679.98	1,2	298.15	0.7554
27916	C14H30	2,3-dimethyldodecane	6117-98-2	0.24569	0.25993	686.04	0.28571	217.04	686.04	1,2	298.15	0.7719
27917	C14H30	2,4-dimethyldodecane	6117-99-3	0.24569	0.26223	668.89	0.28571	217.04	668.89	1,2	298.15	0.7612
27918	C14H30	7-methyltridecane	26730-14-3	0.24332	0.26127	682.75	0.28571	235.95	682.75	1,2	298.15	0.7602
27922	C14H30O	1-tetradecanol	112-72-1	0.26730	0.26230	741.00	0.31824	310.65	741.00	1,2	560.15	0.6281
27923	C14H30O	2-tetradecanol	4706-81-4	0.26050	0.26092	731.40	0.28571	307.15	731.40	1,2	557.15	0.6355
27924	C14H30O	3-tetradecanol	1653-32-3	0.26390	0.26573	736.20	0.28571	304.65	736.20	1,2	552.35	0.6436
27925	C14H30O	12-methyl-1-tridecanol	21987-21-3	0.26390	0.26170	736.20	0.28571	283.65	736.20	1,2	298.15	0.8382
27926	C14H30O	2-methyl-3-tridecanol	98930-89-3	0.26390	0.26257	736.20	0.28571	293.15	736.20	1,2	298.15	0.8359
27927	C14H30O	2-methyl-4-tridecanol	36691-77-7	0.26390	0.26605	736.20	0.28571	301.73	736.20	2	552.35	0.6431
27928	C14H30O	diheptyl ether	629-64-1	0.25599	0.26339	692.83	0.28571	269.27	692.83	1,2	298.15	0.7972
27929	C14H30O	tetradecanol; mixed isomers	27196-00-5	0.26390	0.26605	736.20	0.28571	311.15	736.20	2	562.15	0.6343
27930	C14H30O2	1,2-tetradecanediol	21129-09-9	0.27057	0.26119	751.22	0.28571	341.15	751.22	2	609.15	0.6231
27931	C14H30O2	1,3-tetradecanediol	---	0.27057	0.26235	764.79	0.28571	353.68	764.79	2	620.15	0.6214
27932	C14H30O2	1,4-tetradecanediol	---	0.27057	0.26443	790.69	0.28571	353.68	790.69	2	641.15	0.6184
27933	C14H30O2	1,14-tetradecanediol	19812-64-7	0.26868	0.26097	773.63	0.28571	357.95	773.63	2	628.15	0.6183

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
27938	C14H30O2	2,2,9,9-tetramethyl-1,10-decanediol	35449-36-6	0.27010	0.26226	770.08	0.28571	334.65	770.08	2	624.65	0.6202
27946	C14H30S	1-tetradecanethiol	2079-95-0	0.26380	0.26182	753.80	0.28571	279.26	753.80	1,2	298.15	0.8420
27947	C14H30S	2-tetradecanethiol	62155-04-8	0.26891	0.26843	746.00	0.28571	274.15	746.00	1,2	298.15	0.8381
27948	C14H30S	diheptyl sulfide	629-65-2	0.26380	0.26218	762.23	0.28571	343.15	762.23	1,2	571.15	0.6499
27949	C14H30S	methyl tridecyl sulfide	62155-09-3	0.26380	0.26218	762.23	0.28571	276.16	762.23	1,2	298.15	0.8430
27950	C14H30S	ethyl dodecyl sulfide	2851-83-4	0.26380	0.26218	762.23	0.28571	276.16	762.23	1,2	298.15	0.8430
27951	C14H30S	propyl undecyl sulfide	66826-84-4	0.26380	0.26218	762.23	0.28571	276.16	762.23	1,2	298.15	0.8430
27952	C14H30S	butyl decyl sulfide	19313-57-6	0.26380	0.26218	762.23	0.28571	276.16	762.23	1,2	298.15	0.8430
27953	C14H30S2	diheptyl disulfide	10496-16-9	0.28300	0.26396	765.96	0.28571	235.16	765.96	1,2	298.15	0.9000
27956	C14H31N	tetradecylamine	2016-42-4	0.24060	0.24523	722.30	0.28571	311.34	722.30	1,2	564.45	0.5979
27957	C14H31N	methyltridecylamine	45165-81-9	0.25406	0.26471	710.20	0.28571	299.70	710.20	2	550.15	0.6054
27958	C14H31N	ethyldodecylamine	35902-57-9	0.25406	0.26442	707.40	0.28571	299.70	707.40	2	549.15	0.6047
27959	C14H31N	diheptylamine	2470-68-0	0.25345	0.26312	706.40	0.28571	274.15	706.40	1,2	298.15	0.7937
27960	C14H31N	dimethyldodecylamine	112-18-5	0.25406	0.26827	714.50	0.28571	252.85	714.50	1,2	298.15	0.7846
27961	C14H31N	diethyldecylamine	6308-94-7	0.24887	0.25670	675.16	0.28571	279.51	675.16	1,2	298.15	0.7870
28029	C15H10N2O2	diphenylmethane-4,4'-diisocyanate	101-68-8	0.35150	0.23757	802.00	0.28571	311.20	802.00	1,2	609.00	0.9150
28135.1	C15H12	1-phenylindene	1961-96-2	0.30664	0.24266	865.00	0.28571	310.65	865.00	2	298.15	1.0756
28250	C15H14	1,1-diphenyl-1-propene	778-66-5	0.30332	0.24951	796.49	0.28571	322.15	796.49	1,2	562.15	0.8072
28251	C15H14	1,2-diphenyl-1-propene	779-51-1	0.30332	0.26147	796.49	0.28571	355.15	796.49	1,2	558.65	0.7841
28252	C15H14	1,3-diphenyl-1-propene	5209-18-7	0.30332	0.25316	796.49	0.28571	289.15	796.49	1,2	298.15	1.0085
28253	C15H14	2,3-diphenyl-1-propene	948-97-0	0.30332	0.22987	796.49	0.28571	321.15	796.49	1,2	562.15	0.8552
28379	C15H16	1,1-diphenylpropane	1530-03-6	0.27187	0.22841	774.30	0.28571	286.85	774.30	1,2	298.15	0.9828
28380	C15H16	1,2-diphenylpropane	5814-85-7	0.30037	0.25947	781.16	0.28571	273.40	781.16	1,2	298.15	0.9736
28381	C15H16	1,3-diphenylpropane	1081-75-0	0.29764	0.25719	797.05	0.28571	252.40	797.05	1,2	298.15	0.9762
28382	C15H16	2,2-diphenylpropane	778-22-3	0.30269	0.25600	788.27	0.28571	302.35	788.27	1,2	554.34	0.7929
28383	C15H16	2-methyl-1,1-diphenylethane	32341-92-7	0.30037	0.25796	787.73	0.28571	304.56	787.73	2	562.15	0.7750
28384	C15H16	3-methyl-1,1-diphenylethane	32341-91-6	0.30037	0.25785	786.32	0.28571	304.56	786.32	2	561.15	0.7753
28385	C15H16	4-methyl-1,1-diphenylethane	3717-68-8	0.30037	0.25807	789.13	0.28571	304.56	789.13	2	563.15	0.7748
28386	C15H16	2-methyl-1,2-diphenylethane	34403-05-9	0.29764	0.25573	793.78	0.28571	304.56	793.78	2	570.15	0.7692
28387	C15H16	3-methyl-1,2-diphenylethane	34403-06-0	0.29764	0.25563	792.39	0.28571	304.56	792.39	2	569.15	0.7695
28388	C15H16	4-methyl-1,2-diphenylethane	14310-20-4	0.29764	0.25477	781.25	0.28571	304.56	781.25	2	561.15	0.7712
28389	C15H16	2-ethyldiphenylmethane	28122-25-0	0.29764	0.25270	785.23	0.28571	262.03	785.23	1,2	298.15	0.9883
28390	C15H16	3-ethyldiphenylmethane	28122-24-9	0.29764	0.25643	786.18	0.28571	263.95	786.18	1,2	298.15	0.9760
28391	C15H16	4-ethyldiphenylmethane	620-85-9	0.29764	0.25765	793.82	0.28571	249.65	793.82	1,2	298.15	0.9739
28392	C15H16	2',3'-dimethyldiphenylmethane	62155-16-2	0.29764	0.25566	792.88	0.28571	304.56	792.88	2	570.15	0.7688
28393	C15H16	2',4'-dimethyldiphenylmethane	28122-28-3	0.29764	0.25556	791.49	0.28571	304.56	791.49	2	569.15	0.7690
28394	C15H16	2',5'-dimethyldiphenylmethane	13540-50-6	0.29764	0.25545	790.10	0.28571	304.56	790.10	2	568.15	0.7692
28395	C15H16	2',6'-dimethyldiphenylmethane	---	0.29764	0.25566	792.88	0.28571	304.56	792.88	2	570.15	0.7688
28396	C15H16	3',4'-dimethyldiphenylmethane	13540-56-2	0.29764	0.25577	794.27	0.28571	304.56	794.27	2	571.15	0.7686
28397	C15H16	3',5'-dimethyldiphenylmethane	28122-27-2	0.29764	0.25535	788.71	0.28571	304.56	788.71	2	567.15	0.7694
28398	C15H16	2',2"-dimethyldiphenylmethane	28122-29-4	0.29764	0.25566	792.88	0.28571	304.56	792.88	2	570.15	0.7688
28399	C15H16	2',3"-dimethyldiphenylmethane	21895-13-6	0.29764	0.25545	790.10	0.28571	304.56	790.10	2	568.15	0.7692
28400	C15H16	2',4"-dimethyldiphenylmethane	21895-17-0	0.29764	0.25577	794.27	0.28571	304.56	794.27	2	571.15	0.7686
28401	C15H16	3',3"-dimethyldiphenylmethane	---	0.29764	0.25535	788.71	0.28571	304.56	788.71	2	567.15	0.7694
28402	C15H16	3',4"-dimethyldiphenylmethane	21895-16-9	0.29764	0.25566	792.88	0.28571	304.56	792.88	2	570.15	0.7688
28403	C15H16	4',4"-dimethyldiphenylmethane	4957-14-6	0.29764	0.25705	797.05	0.28571	302.15	797.05	1,2	573.15	0.7659
28429	C15H16O	p-cumylphenol	599-64-4	0.32210	0.25868	834.00	0.28571	346.00	834.00	2	608.15	0.8172
28436	C15H16O2	bisphenol a	80-05-7	0.33720	0.26696	849.00	0.28571	426.15	849.00	2	633.65	0.8231
28495	C15H18	2-pentylnaphthalene	93-22-1	0.28760	0.25423	797.48	0.28571	269.16	797.48	1,2	298.15	0.9530
28496	C15H18	1,6-dimethyl-4-isopropylnaphthalene	483-78-3	0.28760	0.24996	795.40	0.28571	260.16	795.40	1,2	298.15	0.9667
28497	C15H18	1-pentylnaphthalene	86-89-5	0.28760	0.25113	793.32	0.28571	251.15	793.32	1,2	298.15	0.9623
28647	C15H22	1-pentyl-[1,2,3,4-tetrahydronaphthalene]	66359-06-6	0.28240	0.25575	767.60	0.28571	277.38	767.60	1,2	298.15	0.9235
28648	C15H22	2-pentyl-[1,2,3,4-tetrahydronaphthalene]	66359-07-7	0.28240	0.25795	774.92	0.28571	277.38	774.92	1,2	298.15	0.9185
28725	C15H24	nonylbenzene	1081-77-2	0.25870	0.24859	741.00	0.30140	249.00	741.00	1,2	298.15	0.8520
28726	C15H24	1,2,4-triisopropylbenzene	948-32-3	0.25870	0.24955	741.00	0.28571	273.13	741.00	1,2	298.15	0.8574
28727	C15H24	1,3,5-triisopropylbenzene	717-74-8	0.25870	0.25165	741.00	0.28571	265.75	741.00	1,2	298.15	0.8512
28728	C15H24	3,5-di-tert-butyltoluene	15181-11-0	0.25870	0.24868	741.00	0.28571	304.65	741.00	1,2	517.15	0.6952
28756	C15H24O	2,6-di-tert-butyl-p-cresol	128-37-0	0.29110	0.25801	720.00	0.28571	344.00	720.00	1,2	538.00	0.7265
28757	C15H24O	nonylphenol	25154-52-3	0.29110	0.25460	757.00	0.29244	329.76	757.00	1,2	581.00	0.7110
28758	C15H24O	2,4-di-tert-butyl-5-methylphenol	497-39-2	0.29110	0.25279	738.50	0.28571	335.25	738.50	1,2	555.15	0.7331
28759	C15H24O	2,4-di-tert-butyl-6-methylphenol	616-55-7	0.29110	0.25998	738.50	0.28571	324.15	738.50	1,2	542.15	0.7324
28764	C15H24O	4-nonylphenol	104-40-5	0.29110	0.25608	738.50	0.28571	315.65	738.50	2	568.15	0.7131
28765	C15H24O	4-nonylphenol, isomers	84852-15-3	0.29110	0.25696	738.50	0.28571	329.76	738.50	1,2	568.15	0.7115
28815	C15H28	1,1-dicyclohexylpropane	54934-91-7	0.28103	0.26545	766.86	0.28571	249.75	766.86	1,2	298.15	0.8896
28816	C15H28	1,2-dicyclohexylpropane	41851-34-7	0.28103	0.27234	766.86	0.28571	251.15	766.86	1,2	298.15	0.8700
28817	C15H28	1,3-dicyclohexylpropane	3178-24-3	0.28103	0.27155	766.86	0.28571	256.15	766.86	1,2	298.15	0.8722
28818	C15H28	2,2-dicyclohexylpropane	54934-90-6	0.28103	0.26231	766.86	0.28571	288.75	766.86	1,2	298.15	0.8988
28819	C15H28	1-decylcyclopentene	62184-75-2	0.25967	0.26058	718.60	0.28571	234.40	718.60	1,2	298.15	0.8233
28820	C15H28	1-pentadecyne	765-13-9	0.24880	0.25979	711.41	0.28571	283.16	711.41	1,2	298.15	0.7890
28821	C15H28	2-pentadecyne	52112-25-1	0.24882	0.23764	729.70	0.28571	364.41	729.70	2	553.15	0.6486
28822	C15H28	3-pentadecyne	61886-61-1	0.24882	0.23652	717.83	0.28571	364.41	717.83	2	544.15	0.6506
28827	C15H28O2	menthol 3-methylbutanoate	16409-46-4	0.28739	0.26761	760.00	0.28571	370.00	760.00	1,2	547.08	0.7186
28829	C15H28O2	butyl 10-undecenoate	109-42-2	0.28739	0.26553	760.00	0.28571	370.00	760.00	2	547.08	0.7225
28837	C15H29Br	cis-1-bromo-1-pentadecene	66374-76-3	0.31531	0.25153	750.39	0.28571	313.03	750.39	2	582.15	0.7758
28838	C15H29Br	trans-1-bromo-1-pentadecene	66374-77-4	0.31531	0.25153	750.39	0.28571	313.03	750.39	2	582.15	0.7758
28839	C15H29Br3	1,1,1-tribromopentadecane	62127-71-3	0.42752	0.25708	829.92	0.28571	440.13	829.92	2	652.15	1.0252
28840	C15H29Cl	cis-1-chloro-1-pentadecene	66374-78-5	0.27070	0.25941	757.95	0.28571	283.15	757.95	1,2	298.15	0.8720
28841	C15H29Cl	trans-1-chloro-1-pentadecene	66374-79-6	0.27070	0.25941	757.95	0.28571	283.15	757.95	1,2	298.15	0.8720
28842	C15H29Cl3	1,1,1-trichloropentadecane	62108-59-2	0.31216	0.25764	787.14	0.28571	350.49	787.14	2	616.15	0.7501
28843	C15H29F	cis-1-fluoro-1-pentadecene	66291-42-7	0.26147	0.25662	704.64	0.28571	285.38	704.64	1,2	298.15	0.8360

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
28844	C15H29F	trans-1-fluoro-1-pentadecene	66291-43-8	0.26147	0.25662	704.64	0.28571	285.38	704.64	1,2	298.15	0.8360
28845	C15H29F3	1,1,1-trifluoropentadecane	62127-00-8	0.29371	0.25878	684.80	0.28571	357.18	684.80	2	530.15	0.7107
28846	C15H29I	cis-1-iodo-1-pentadecene	66291-44-9	0.35644	0.25494	781.44	0.28571	311.29	781.44	2	604.15	0.8720
28847	C15H29I	trans-1-iodo-1-pentadecene	66291-45-0	0.35644	0.25494	781.44	0.28571	311.29	781.44	2	604.15	0.8720
28848	C15H29I3	1,1,1-triiodopentadecane	---	0.52291	0.27047	1051.69	0.28571	434.91	1051.69	2	818.79	1.2234
28849	C15H29N	pentadecanenitrile	18300-91-9	0.24781	0.24936	756.38	0.28571	295.85	756.38	1,2	298.15	0.8257
28855	C15H30	decylcyclopentane	1795-21-7	0.25770	0.26553	730.64	0.28571	251.03	730.64	1,2	298.15	0.8070
28856	C15H30	nonylcyclohexane	2883-02-5	0.26020	0.26690	737.79	0.28571	262.96	737.79	1,2	298.15	0.8130
28857	C15H30	1-ethyl-1-methyl-2,4-diisopropylcyclohexane, [1R-(1alpha,2beta,4beta)]	515-12-8	0.26020	0.25669	737.79	0.28571	262.96	737.79	1,2	298.15	0.8408
28858	C15H30	cyclopentadecane	295-48-7	0.28529	0.28422	791.72	0.28571	337.35	791.72	1,2	559.15	0.6923
28859	C15H30	1-pentadecene	13360-61-7	0.24050	0.25057	708.00	0.31110	269.42	708.00	1,2	298.15	0.7730
28860	C15H30	2-methyl-1-tetradecene	52254-38-3	0.24537	0.25993	704.33	0.28571	258.08	704.33	1,2	298.15	0.7759
28861	C15H30	7-pentadecene	15430-98-5	0.24293	0.25867	706.17	0.28571	263.75	706.17	1,2	298.15	0.7719
28862	C15H30	8-pentadecene	15430-98-5	0.24293	0.24591	706.17	0.28571	263.75	706.17	2	298.15	0.8060
28862.1	C15H30	trans-2-pentadecene	74392-36-2	0.24841	0.22689	702.00	0.28571	263.00	702.00	2	298.15	0.8815
28864	C15H30Br2	1,1-dibromopentadecane	62168-32-5	0.37263	0.25667	798.14	0.28571	362.91	798.14	2	626.15	0.8958
28865	C15H30Cl2	1,1-dichloropentadecane	822-15-1	0.29076	0.25712	770.83	0.28571	303.15	770.83	2	603.15	0.6999
28866	C15H30F2	1,1-difluoropentadecane	62127-04-2	0.27816	0.25941	699.80	0.28571	307.61	699.80	2	539.15	0.6748
28867	C15H30I2	1,1-diiodopentadecane	66325-78-8	0.44401	0.26648	934.29	0.28571	359.43	934.29	2	728.44	1.0476
28873	C15H30O	pentadecanal	2765-11-9	0.25367	0.24413	728.48	0.28571	300.15	728.48	2	570.15	0.6313
28874	C15H30O	2-pentadecanone	2345-28-0	0.25684	0.25630	723.72	0.28571	313.15	723.72	1,2	565.15	0.6206
28875	C15H30O	8-pentadecanone	818-23-5	0.25684	0.25637	723.72	0.28571	316.15	723.72	1,2	564.15	0.6215
28877	C15H30O	1-pentadecen-3-ol	99814-65-0	0.26625	0.26201	713.00	0.28571	300.65	713.00	1,2	566.48	0.6243
28879	C15H30O2	pentadecanoic acid	1002-84-2	0.28060	0.25885	766.00	0.33432	325.68	766.00	1,2	612.05	0.6185
28880	C15H30O2	tetradecyl formate	5451-63-8	0.26262	0.25285	736.70	0.28571	317.01	736.70	2	600.12	0.6142
28881	C15H30O2	tridecyl acetate	1072-33-9	0.26206	0.25177	732.00	0.28571	281.55	732.00	2	298.15	0.8595
28882	C15H30O2	dodecyl propanoate	6221-93-8	0.26206	0.25187	733.10	0.28571	300.64	733.10	2	600.82	0.6103
28883	C15H30O2	undecyl butanoate	5461-02-9	0.26206	0.25182	732.50	0.28571	300.64	732.50	2	600.82	0.6098
28884	C15H30O2	octyl heptanoate	5132-75-2	0.28415	0.27537	708.00	0.28571	250.65	708.00	1,2	298.15	0.8563
28885	C15H30O2	heptyl octanoate	4265-97-8	0.28538	0.27676	708.00	0.28571	262.55	708.00	1,2	298.15	0.8563
28886	C15H30O2	propyl dodecanoate	3681-78-5	0.28662	0.27764	708.00	0.28571	268.45	708.00	1,2	298.15	0.8577
28887	C15H30O2	isopropyl dodecanoate	10233-13-3	0.28787	0.28187	708.00	0.28571	268.45	708.00	1,2	298.15	0.8504
28888	C15H30O2	methyl tetradecanoate	124-10-7	0.28913	0.27818	708.00	0.28571	292.15	708.00	1,2	298.15	0.8638
28889	C15H30O2	ethyl tridecanoate	28267-29-0	0.29040	0.28376	708.00	0.28571	268.45	708.00	1,2	298.15	0.8530
28895	C15H30S	thiacyclohexadecane	295-68-1	0.31266	0.31260	836.95	0.28571	318.18	836.95	2	592.15	0.7088
28898	C15H31Br	1-bromopentadecane	629-72-1	0.31074	0.25904	762.51	0.28571	292.15	762.51	1,2	298.15	1.0035
28899	C15H31Cl	1-chloropentadecane	4862-03-1	0.26702	0.25849	750.73	0.28571	287.85	750.73	1,2	298.15	0.8610
28900	C15H31F	1-fluoropentadecane	1555-17-5	0.26094	0.25912	702.10	0.28571	290.15	702.10	1,2	298.15	0.8267
28901	C15H31I	1-iodopentadecane	35599-78-1	0.37822	0.28220	771.45	0.28571	297.15	771.45	1,2	298.15	1.1366
28903	C15H31NO2	1-nitropentadecane	39220-65-0	0.26884	0.24589	772.46	0.28571	401.92	772.46	2	611.15	0.6591
28904	C15H32	pentadecane	629-62-9	0.24140	0.25378	706.80	0.31579	283.11	706.80	1,2	298.15	0.7650
28905	C15H32	2-methyltetradecane	1560-95-8	0.24430	0.26345	698.98	0.28571	264.85	698.98	1,2	298.15	0.7623
28906	C15H32	3-methyltetradecane	18435-22-8	0.24430	0.26123	700.41	0.28571	241.15	700.41	1,2	298.15	0.7682
28907	C15H32	2,2-dimethyltridecane	61869-04-3	0.24571	0.26508	694.17	0.28571	260.73	694.17	1,2	298.15	0.7614
28908	C15H32	2,3-dimethyltridecane	18435-20-6	0.24600	0.25965	701.64	0.28571	228.31	701.64	1,2	298.15	0.7779
28909	C15H32	2,4-dimethyltridecane	61868-05-1	0.24600	0.26173	683.39	0.28571	228.31	683.39	1,2	298.15	0.7676
28912	C15H32O	1-pentadecanol	629-76-5	0.25540	0.25191	722.53	0.28571	317.04	722.53	1,2	578.01	0.6099
28913	C15H32O	2-pentadecanol	1653-34-5	0.26016	0.26111	743.20	0.28571	308.15	743.20	1,2	572.15	0.6288
28914	C15H32O	3-pentadecanol	53346-71-7	0.25778	0.25653	732.87	0.28571	311.95	732.87	2	661.15	0.5193
28915	C15H32O	2,8-dimethyl-6-isobutylnonanol-4	10143-20-1	0.25778	0.25653	732.87	0.28571	312.38	732.87	2	603.77	0.5902
28916	C15H32O2	1,2-pentadecanediol	33968-47-7	0.26933	0.26128	766.08	0.28571	364.95	766.08	2	623.15	0.6181
28917	C15H32O2	1,3-pentadecanediol	---	0.26933	0.26238	779.60	0.28571	364.95	779.60	2	634.15	0.6165
28918	C15H32O2	1,4-pentadecanediol	---	0.26933	0.26435	805.42	0.28571	364.95	805.42	2	655.15	0.6137
28919	C15H32O2	1,15-pentadecanediol	14722-40-8	0.26756	0.26111	788.66	0.28571	360.15	788.66	2	642.15	0.6137
28921	C15H32S	1-pentadecanethiol	25276-70-4	0.26300	0.26148	764.77	0.28571	290.93	764.77	1,2	298.15	0.8430
28922	C15H32S	2-pentadecanethiol	62155-05-9	0.26808	0.26821	757.00	0.28571	280.15	757.00	1,2	298.15	0.8387
28923	C15H32S	methyl tetradecyl sulfide	7289-45-4	0.26300	0.26233	775.15	0.28571	284.16	775.15	1,2	298.15	0.8430
28924	C15H32S	ethyl tridecyl sulfide	66271-81-6	0.26300	0.26233	775.15	0.28571	284.16	775.15	1,2	298.15	0.8430
28925	C15H32S	propyl dodecyl sulfide	66271-82-7	0.26300	0.26233	775.15	0.28571	284.16	775.15	1,2	298.15	0.8430
28926	C15H32S	butyl undecyl sulfide	66271-83-8	0.26300	0.26233	775.15	0.28571	284.16	775.15	1,2	298.15	0.8430
28931	C15H33N	pentadecylamine	2570-26-5	0.25412	0.26254	746.50	0.28571	309.65	746.50	1,2	586.15	0.6016
28932	C15H33N	methyltetradecylamine	29369-63-9	0.25412	0.26010	722.70	0.28571	301.15	722.70	2	566.15	0.6065
28933	C15H33N	ethyltridecylamine	59570-06-8	0.25412	0.25990	720.60	0.28571	310.97	720.60	2	565.15	0.6062
28934	C15H33N	dimethyltridecylamine	17373-29-4	0.25412	0.26803	727.40	0.28571	290.78	727.40	1,2	298.15	0.7886
28935	C15H33N	diethylundecylamine	54334-64-4	0.24897	0.25686	688.97	0.28571	290.78	688.97	1,2	298.15	0.7910
28936	C15H33N	tripentylamine	621-77-2	0.24897	0.25536	663.27	0.28571	290.78	663.27	1,2	298.15	0.7871
28937	C15H33N	triisopentylamine	645-41-0	0.25240	0.26707	711.57	0.28571	290.78	711.57	1,2	298.15	0.7818
28938	C15H33N	tris(2-methylbutyl)amine	620-43-9	0.25240	0.22931	711.57	0.28571	290.78	711.57	1,2	298.15	0.8907
28984	C16H10	fluoranthene	206-44-0	0.30880	0.20823	905.00	0.28571	383.33	905.00	1,2	655.95	0.9142
28985	C16H10	pyrene	129-00-0	0.32100	0.21565	936.00	0.28571	423.81	936.00	1,2	667.95	0.9389
29024	C16H12	1-phenylnaphthalene	605-02-7	0.31140	0.24097	849.00	0.29049	318.15	849.00	1,2	607.15	0.8365
29232	C16H16	1,1-diphenyl-1-butene	1726-14-3	0.29907	0.25400	790.85	0.28571	271.96	790.85	1,2	298.15	0.9901
29233	C16H16	1,3-diphenyl-1-butene	7614-93-9	0.29907	0.25224	790.85	0.28571	320.65	790.85	1,2	584.15	0.7647
29234	C16H16	cis-2,3-diphenyl-2-butene	782-05-8	0.29907	0.25098	790.85	0.28571	340.65	790.85	1,2	582.82	0.7686
29235	C16H16	trans-2,3-diphenyl-2-butene	782-06-9	0.29907	0.25592	790.85	0.28571	380.15	790.85	1,2	582.82	0.7585
29290.1	C16H16O2	trans-3,5-dimethoxystilbene	21956-56-9	0.33329	0.26401	885.00	0.28571	329.55	885.00	2	298.15	1.0893
29342	C16H18	1,1-diphenylbutane	719-79-9	0.27068	0.23070	778.30	0.28571	247.95	778.30	1,2	298.15	0.9712
29343	C16H18	1,2-diphenylbutane	5223-59-6	0.27068	0.23277	778.30	0.28571	302.63	778.30	1,2	564.15	0.7418
29344	C16H18	1,4-diphenylbutane	1083-56-3	0.27068	0.22720	778.30	0.28571	325.65	778.30	1,2	590.15	0.7268
29346	C16H18	1,3-diphenylbutane, (±)	116783-21-2	0.27068	0.23143	778.30	0.28571	302.63	778.30	1,2	566.15	0.7428

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$									(density - g/ml, T - K)
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
29347	C16H18	1,3-diphenyl-2-methylpropane	1520-46-3	0.27068	0.23288	778.30	0.28571	239.45	778.30	1,2	298.15	0.9633
29356	C16H18	DL-2,3-diphenylbutane	2726-21-8	0.27068	0.23023	778.30	0.28571	302.63	778.30	2	577.20	0.7341
29358	C16H18	meso-2,3-diphenylbutane	4613-11-0	0.27068	0.23023	778.30	0.28571	397.45	778.30	2	570.25	0.7413
29359.1	C16H18	4-ethyl-bibenzyl	7439-15-8	0.29875	0.23764	771.00	0.28571	292.00	771.00	2	298.15	1.0424
29440	C16H20	1-hexylnaphthalene	2876-53-1	0.28660	0.25377	813.00	0.30090	255.15	813.00	1,2	298.15	0.9470
29441	C16H20	2-hexylnaphthalene	2876-46-2	0.28482	0.25443	803.49	0.28571	267.65	803.49	1,2	298.15	0.9446
29442	C16H20	1-isopropyl-2,4,7-trimethylnaphthalene	6995-30-8	0.28571	0.24647	808.25	0.28571	303.85	808.25	1,2	581.25	0.7570
29443	C16H20	1,2,5-trimethyl-8-isopropylnaphthalene	6897-76-3	0.28571	0.24287	808.25	0.28571	360.15	808.25	1,2	581.25	0.7648
29444	C16H20	1,3,8-trimethyl-5-isopropylnaphthalene	6897-88-7	0.28571	0.24420	808.25	0.28571	294.65	808.25	1,2	298.15	0.9834
29445	C16H20	2,6-diisopropylnaphthalene	24157-81-1	0.28571	0.24874	808.25	0.28571	341.65	808.25	2	552.45	0.7779
29446	C16H20	bis(isopropyl)naphthalene	38640-62-9	0.28571	0.24874	808.25	0.28571	303.85	808.25	2	581.25	0.7522
29518	C16H22O4	dibutyl phthalate	84-74-2	0.32900	0.25135	781.00	0.37367	238.15	781.00	1,2	298.15	1.0430
29559	C16H24	1-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-11-9	0.28009	0.25600	777.35	0.28571	288.65	777.35	1,2	298.15	0.9176
29560	C16H24	2-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-09-5	0.28009	0.25769	784.07	0.28571	288.65	784.07	1,2	298.15	0.9140
29561	C16H24	1,2,3,4-tetrahydro-6-ethyl-1,1,4,4-tetramethylnaphthalene	80-81-9	0.28009	0.25685	780.71	0.28571	288.65	780.71	2	298.15	0.9158
29595	C16H26	decylbenzene	104-72-3	0.24790	0.23851	753.00	0.29619	258.77	753.00	1,2	298.15	0.8520
29596	C16H26	pentaethylbenzene	605-01-6	0.26520	0.24349	723.64	0.28571	327.66	723.64	1,2	550.16	0.6785
29599	C16H26	(1-methylnonyl)benzene	4537-13-7	0.25655	0.24887	738.32	0.28571	272.65	738.32	2	298.15	0.8516
29608	C16H26O	2,6-di-tert-butyl-4-ethylphenol	4130-42-1	0.30466	0.27669	750.00	0.28571	317.15	750.00	2	545.15	0.7395
29609	C16H26O	2,4-di-tert-amylphenol	120-95-6	0.30466	0.27532	750.00	0.28571	298.15	750.00	1,2	545.15	0.7421
29622	C16H27N	4-decylaniline	37529-30-9	0.27607	0.25674	750.00	0.28571	298.15	750.00	2	568.00	0.6840
29637	C16H28S	3-dodecylthiophene	104934-52-3	0.25773	0.24008	815.00	0.28571	330.00	815.00	1,2	563.15	0.7148
29640	C16H30	1-hexadecyne	629-74-3	0.24890	0.25966	724.26	0.28571	288.16	724.26	1,2	298.15	0.7930
29641	C16H30	2-hexadecyne	629-75-4	0.24892	0.25838	742.19	0.28571	293.15	742.19	1,2	298.15	0.8009
29642	C16H30	3-hexadecyne	61886-62-2	0.24892	0.24287	729.15	0.28571	375.68	729.15	2	559.15	0.6332
29643	C16H30	1,1-dicyclohexylbutane	54890-00-5	0.27889	0.26418	768.14	0.28571	262.75	768.14	1,2	298.15	0.8868
29644	C16H30	1,4-dicyclohexylbutane	6165-44-2	0.27889	0.26840	768.14	0.28571	285.15	768.14	1,2	298.15	0.8747
29645	C16H30	1,3-dicyclohexyl-2-methylpropane	2883-08-1	0.27889	0.27059	768.14	0.28571	273.75	768.14	1,2	298.15	0.8685
29646	C16H30	1-undecylcyclopentene	62184-76-3	0.25907	0.26029	729.70	0.28571	245.67	729.70	1,2	298.15	0.8251
29648	C16H30	1,3-dicyclohexylbutane	41851-35-8	0.27889	0.28058	768.14	0.28571	273.88	768.14	2	298.15	0.8416
29660	C16H30O2	7-hexadecenoic acid	1191-75-9	0.27487	0.27470	896.00	0.28571	306.15	896.00	2	610.00	0.6983
29661	C16H30O2	9-hexadecenoic acid	2091-29-4	0.27487	0.27470	896.00	0.28571	273.65	896.00	2	298.15	0.8690
29662	C16H30O2	cis-9-hexadecenoic acid	373-49-9	0.27487	0.27470	896.00	0.28571	273.05	896.00	2	298.15	0.8690
29663	C16H30O2	lauryl methacrylate	142-90-5	0.28068	0.27391	782.00	0.28571	298.15	782.00	1,2	581.15	0.6755
29665	C16H30O2	cis-9-tetradecenyl acetate	16725-53-4	0.28068	0.27319	782.00	0.28571	298.15	782.00	1,2	581.15	0.6767
29666	C16H30O2	cis-tetradec-11-en-1-yl acetate	20711-10-8	0.28068	0.27355	782.00	0.28571	298.15	782.00	2	581.15	0.6761
29667	C16H30O2	trans-tetradec-11-en-1-yl acetate	33189-72-9	0.28068	0.27355	782.00	0.28571	298.15	782.00	2	581.15	0.6761
29684	C16H31Br	cis-1-bromo-1-hexadecene	66271-67-8	0.31158	0.25191	761.27	0.28571	324.30	761.27	2	596.15	0.7594
29685	C16H31Br	trans-1-bromo-1-hexadecene	66271-68-9	0.31158	0.25191	761.27	0.28571	324.30	761.27	2	596.15	0.7594
29688	C16H31Br3	1,1,1-tribromohexadecane	62127-72-4	0.41856	0.25719	838.47	0.28571	451.40	838.47	2	664.15	0.9960
29689	C16H31Cl	cis-1-chloro-1-hexadecene	66271-69-0	0.26952	0.25956	771.23	0.28571	294.42	771.23	1,2	298.15	0.8710
29690	C16H31Cl	trans-1-chloro-1-hexadecene	66271-70-3	0.26952	0.25956	771.23	0.28571	294.42	771.23	1,2	298.15	0.8710
29692	C16H31Cl3	1,1,1-trichlorohexadecane	62108-60-5	0.30893	0.25782	798.28	0.28571	361.76	798.28	2	630.15	0.7363
29693	C16H31F	cis-1-fluoro-1-hexadecene	66271-71-4	0.26081	0.25775	727.24	0.28571	296.65	727.24	1,2	298.15	0.8370
29694	C16H31F	trans-1-fluoro-1-hexadecene	66271-72-5	0.26081	0.25775	727.24	0.28571	296.65	727.24	1,2	298.15	0.8370
29695	C16H31F3	1,1,1-trifluorohexadecane	62127-01-9	0.29149	0.25921	698.20	0.28571	368.45	698.20	2	545.15	0.6993
29696	C16H31I	cis-1-iodo-1-hexadecene	66271-73-6	0.35050	0.25516	791.82	0.28571	322.56	791.82	2	618.15	0.8496
29697	C16H31I	trans-1-iodo-1-hexadecene	66271-74-7	0.35050	0.25516	791.82	0.28571	322.56	791.82	2	618.15	0.8496
29698	C16H31I3	1,1,1-triiodohexadecane	---	0.51003	0.27067	1071.39	0.28571	446.18	1071.39	2	841.67	1.1834
29699	C16H31N	hexadecanenitrile	629-79-8	0.24797	0.24997	768.13	0.28571	304.65	768.13	1,2	609.15	0.6002
29704	C16H32	undecylcyclopentane	6785-23-5	0.25720	0.26497	743.30	0.28571	263.16	743.30	1,2	298.15	0.8100
29705	C16H32	decylcyclohexane	1795-16-0	0.26160	0.26254	751.25	0.32209	271.42	751.25	1,2	298.15	0.8150
29706	C16H32	cyclohexadecane	295-65-8	0.28572	0.31098	804.08	0.28571	335.25	804.08	2	573.15	0.6473
29707	C16H32	1-hexadecene	629-73-2	0.24050	0.24970	722.00	0.31572	277.51	722.00	1,2	298.15	0.7770
29708	C16H32	2-methyl-1-pentadecene	29833-69-0	0.24568	0.26004	718.92	0.28571	266.58	718.92	1,2	298.15	0.7804
29709	C16H32	2-methyl-1-propene, tetramer	15220-85-6	0.24309	0.25290	720.46	0.28571	175.15	720.46	1,2	298.15	0.7912
29710	C16H32Br2	1,16-dibromohexadecane	45223-18-5	0.36612	0.25682	808.08	0.28571	329.15	808.08	2	639.15	0.8732
29711	C16H32Br2	1,1-dibromohexadecane	62168-33-6	0.36612	0.25682	808.08	0.28571	374.18	808.08	2	639.15	0.8732
29712	C16H32Cl2	1,1-dichlorohexadecane	62017-19-0	0.28855	0.25729	782.08	0.28571	314.42	782.08	2	617.15	0.6889
29713	C16H32F2	1,1-difluorohexadecane	62127-05-3	0.27682	0.25969	712.10	0.28571	318.88	712.10	2	553.15	0.6663
29714	C16H32I2	1,1-diiodohexadecane	66271-75-8	0.43417	0.26687	955.15	0.28571	370.70	955.15	2	751.32	1.0154
29717	C16H32O	hexadecanal	629-80-1	0.25348	0.24788	740.10	0.28571	309.15	740.10	2	584.15	0.6197
29718	C16H32O	2-hexadecanone	18787-63-8	0.25646	0.25093	736.51	0.28571	317.15	736.51	2	580.15	0.6232
29719	C16H32O	3-hexadecanone	18787-64-9	0.25646	0.25093	736.51	0.28571	316.15	736.51	2	569.98	0.6334
29721	C16H32O2	hexadecanoic acid	57-10-3	0.27960	0.26787	776.00	0.29470	335.95	776.00	1,2	624.15	0.6313
29722	C16H32O2	2-hexyldecanoic acid	25354-97-6	0.27960	0.27535	776.00	0.28571	335.95	776.00	2	586.63	0.6620
29723	C16H32O2	pentadecyl formate	66271-76-9	0.26140	0.25163	747.30	0.28571	286.83	747.30	1,2	298.15	0.8618
29724	C16H32O2	tetradecyl acetate	638-59-5	0.26086	0.25190	742.90	0.28571	287.15	742.90	1,2	298.15	0.8581
29725	C16H32O2	tridecyl propanoate	66271-77-0	0.26086	0.25227	744.30	0.28571	272.73	744.30	1,2	298.15	0.8574
29726	C16H32O2	dodecyl butanoate	3724-61-6	0.26086	0.25264	743.90	0.28571	259.15	743.90	1,2	298.15	0.8562
29727	C16H32O2	octyl octanoate	2306-88-9	0.28766	0.28224	721.00	0.28571	255.05	721.00	1,2	298.15	0.8523
29728	C16H32O2	heptyl nonanoate	71605-85-1	0.28894	0.28253	721.00	0.28571	257.65	721.00	1,2	298.15	0.8553
29729	C16H32O2	ethyl myristate	124-06-1	0.29023	0.28323	721.00	0.28571	285.45	721.00	1,2	298.15	0.8573
29730	C16H32O2	methyl pentadecanoate	7132-64-1	0.29153	0.28298	721.00	0.28571	291.65	721.00	1,2	298.15	0.8618
29731	C16H32O2	n-butyl laurate	106-18-3	0.29285	0.28533	721.00	0.28571	266.31	721.00	2	298.15	0.8596
29732	C16H32O2	2-ethylhexyl-2-ethylhexanoate	7425-14-1	0.29417	0.28683	721.00	0.28571	271.22	721.00	2	298.15	0.8596
29738	C16H32S	thiacycloheptadecane	296-00-4	0.31147	0.31216	844.72	0.28571	325.93	844.72	2	603.15	0.7031
29739	C16H33Br	1-bromohexadecane	112-82-3	0.30734	0.25919	773.66	0.28571	291.05	773.66	1,2	298.15	0.9951
29740	C16H33Cl	1-chlorohexadecane	4860-03-1	0.26608	0.25874	762.66	0.28571	291.05	762.66	1,2	298.15	0.8602
29744	C16H33F	1-fluorohexadecane	408-38-8	0.26059	0.25945	714.60	0.28571	291.15	714.60	1,2	298.15	0.8282

Table 3 Density of Liquid - Organic Compounds

			density = A B^-(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
29746	C16H33I	1-iodohexadecane	544-77-4	0.37069	0.28104	783.25	0.28571	297.85	783.25	1,2	298.15	1.1213
29750	C16H33NO2	1-nitrohexadecane	66271-50-9	0.26783	0.24654	782.00	0.28571	413.19	782.00	2	623.15	0.6509
29754	C16H34	hexadecane	544-76-3	0.24350	0.25447	720.60	0.32380	291.34	720.60	1,2	298.15	0.7700
29755	C16H34	2-methylpentadecane	1560-93-6	0.24467	0.26337	713.05	0.28571	266.15	713.05	1,2	298.15	0.7673
29756	C16H34	3-methylpentadecane	2882-96-4	0.24467	0.26116	713.56	0.28571	250.85	713.56	1,2	298.15	0.7730
29757	C16H34	2,2-dimethyltetradecane	59222-86-5	0.24600	0.26479	708.68	0.28571	272.00	708.68	1,2	298.15	0.7668
29758	C16H34	2,3-dimethyltetradecane	18435-23-9	0.24627	0.25954	716.26	0.28571	239.58	716.26	1,2	298.15	0.7829
29759	C16H34	2,4-dimethyltetradecane	61868-06-2	0.24627	0.26131	695.62	0.28571	239.58	695.62	1,2	298.15	0.7729
29760	C16H34	2,2,4,4,6,8,8-heptamethylnonane	4390-04-9	0.24523	0.26196	711.29	0.28571	259.92	711.29	2	298.15	0.7722
29766	C16H34O	1-hexadecanol	36653-82-4	0.26730	0.26222	761.00	0.32360	322.35	761.00	1,2	585.15	0.6150
29767	C16H34O	2-hexadecanol	14852-31-4	0.25986	0.26135	754.20	0.28571	317.15	754.20	1,2	587.15	0.6217
29768	C16H34O	3-hexadecanol	593-03-3	0.26358	0.26811	757.60	0.28571	323.15	757.60	1,2	568.53	0.6389
29769	C16H34O	2-methyl-1-pentadecanol	25354-98-7	0.26358	0.26552	757.60	0.28571	285.65	757.60	1,2	298.15	0.8320
29770	C16H34O	6-methyl-6-pentadecanol	108836-86-8	0.26358	0.26567	757.60	0.28571	312.08	757.60	1,2	568.53	0.6428
29771	C16H34O	dioctyl ether	629-82-3	0.26640	0.27167	707.00	0.30391	265.55	707.00	1,2	298.15	0.8030
29772	C16H34O	bis(2-ethylhexyl) ether	10143-60-9	0.26640	0.26551	707.00	0.28571	265.55	707.00	2	298.15	0.8280
29773	C16H34O	2-hexyl-1-decanol	2425-77-6	0.26358	0.26406	757.60	0.28571	312.08	757.60	1,2	568.53	0.6455
29776	C16H34O2	1,2-hexadecanediol	6920-24-7	0.26824	0.26149	781.52	0.28571	347.15	781.52	2	637.15	0.6139
29777	C16H34O2	1,3-hexadecanediol	34014-79-4	0.26824	0.26253	795.01	0.28571	376.22	795.01	2	648.15	0.6124
29778	C16H34O2	1,4-hexadecanediol	---	0.26824	0.26440	820.77	0.28571	376.22	820.77	2	669.15	0.6097
29780	C16H34O2	1,16-hexadecanediol	7735-42-4	0.26658	0.26137	804.31	0.28571	365.65	804.31	2	651.48	0.6143
29789	C16H34S	1-hexadecanethiol	2917-26-2	0.26230	0.26149	774.68	0.28571	290.93	774.68	1,2	298.15	0.8430
29790	C16H34S	2-hexadecanethiol	66271-53-2	0.26733	0.26807	768.00	0.28571	288.15	768.00	1,2	298.15	0.8393
29791	C16H34S	dioctyl sulfide	2690-08-6	0.26230	0.26249	787.27	0.28571	288.16	787.27	1,2	298.15	0.8430
29792	C16H34S	methyl pentadecyl sulfide	62155-10-6	0.26230	0.26249	787.27	0.28571	288.16	787.27	1,2	298.15	0.8430
29793	C16H34S	ethyl tetradecyl sulfide	66271-54-3	0.27750	0.27995	791.68	0.28571	288.16	791.68	1,2	298.15	0.8440
29794	C16H34S	propyl tridecyl sulfide	66271-55-4	0.26230	0.26249	787.27	0.28571	288.16	787.27	1,2	298.15	0.8430
29795	C16H34S	butyl dodecyl sulfide	16900-08-6	0.26230	0.26249	787.27	0.28571	288.16	787.27	1,2	298.15	0.8430
29797	C16H34S2	dioctyl disulfide	822-27-5	0.27950	0.26371	784.46	0.28571	244.16	784.46	1,2	298.15	0.8940
29798	C16H35N	hexadecylamine	143-27-1	0.25417	0.26261	757.50	0.28571	319.92	757.50	1,2	601.15	0.5958
29799	C16H35N	ethyltetradecylamine	66271-56-5	0.25417	0.26371	732.80	0.28571	322.24	732.80	2	580.15	0.5955
29800	C16H35N	dioctylamine	1120-48-5	0.25364	0.26338	732.40	0.28571	287.77	732.40	1,2	298.15	0.8003
29801	C16H35N	methylpentadecylamine	29664-53-7	0.25417	0.26385	734.30	0.28571	322.24	734.30	2	580.15	0.5964
29802	C16H35N	N-(1-methylheptyl)-2-octanamine	5412-92-0	0.25323	0.26206	732.83	0.28571	310.75	732.83	1,2	556.15	0.6178
29803	C16H35N	dimethyltetradecylamine	112-75-4	0.25417	0.26785	739.40	0.28571	270.15	739.40	1,2	298.15	0.7921
29804	C16H35N	diethyldodecylamine	4271-27-6	0.24906	0.25442	700.59	0.28571	302.05	700.59	2	550.15	0.6016
29805	C16H35N	bis(2-ethylhexyl)amine	106-20-7	0.25323	0.26258	732.83	0.28571	310.75	732.83	2	574.01	0.6008
30056	C17H18	1,1-diphenyl-1-pentene	1530-11-6	0.29546	0.25467	797.63	0.28571	266.11	797.63	1,2	298.15	0.9776
30117	C17H20	1,1-diphenylpentane	1726-12-1	0.26836	0.23147	786.40	0.28571	261.13	786.40	1,2	298.15	0.9623
30118	C17H20	1,3-diphenylpentane	838-45-9	0.26836	0.22923	786.40	0.28571	263.14	786.40	1,2	298.15	0.9705
30119	C17H20	1,5-diphenylpentane	1718-50-9	0.26836	0.22754	786.40	0.28571	265.15	786.40	1,2	298.15	0.9768
30177	C17H22	1-heptylnaphthalene	2876-52-0	0.28242	0.25213	811.44	0.28571	265.15	811.44	1,2	298.15	0.9460
30178	C17H22	2-heptylnaphthalene	2876-45-1	0.28242	0.25483	814.10	0.28571	274.15	814.10	1,2	298.15	0.9378
30241	C17H26	1-heptyl-[1,2,3,4-tetrahydronaphthalene]	66563-99-3	0.27809	0.26441	788.41	0.28571	299.92	788.41	2	594.15	0.6782
30242	C17H26	2-heptyl-[1,2,3,4-tetrahydronaphthalene]	26438-24-4	0.27809	0.26482	793.72	0.28571	299.92	793.72	2	598.15	0.6775
30264	C17H28	undecylbenzene	6742-54-7	0.25540	0.24612	764.00	0.30840	268.00	764.00	1,2	298.15	0.8510
30267	C17H28O	2,6-di-tert-pentyl-4-methylphenol	56103-67-4	0.30703	0.27833	760.00	0.28571	330.00	760.00	1,2	556.15	0.7389
30284	C17H32	1-heptadecyne	26186-00-5	0.24900	0.25977	736.21	0.28571	295.16	736.21	1,2	298.15	0.7960
30285	C17H32	2-heptadecyne	61847-96-9	0.24902	0.24178	753.80	0.28571	386.95	753.80	2	584.15	0.6293
30286	C17H32	3-heptadecyne	61886-63-3	0.24902	0.24056	739.60	0.28571	386.95	739.60	2	573.15	0.6314
30287	C17H32	1,1-dicyclohexylpentane	54833-30-6	0.27703	0.26357	776.31	0.28571	288.52	776.31	1,2	298.15	0.8846
30288	C17H32	1,3-dicyclohexyl-2-ethylpropane	54833-34-0	0.27703	0.26465	776.31	0.28571	274.04	776.31	1,2	298.15	0.8815
30289	C17H32	1,5-dicyclohexylpentane	54833-31-7	0.27703	0.26886	776.31	0.28571	259.55	776.31	1,2	298.15	0.8694
30290	C17H32	1-dodecylcyclopentene	62184-77-4	0.25855	0.26004	739.92	0.28571	256.94	739.92	1,2	298.15	0.8267
30292	C17H32O2	9-heptadecenoic acid	10136-52-4	0.26826	0.26074	916.00	0.28571	285.65	916.00	1,2	298.15	0.8917
30294	C17H33Br	cis-1-bromo-1-heptadecene	66563-89-1	0.30826	0.25237	772.65	0.28571	335.57	772.65	2	610.15	0.7446
30295	C17H33Br	trans-1-bromo-1-heptadecene	66563-90-4	0.30826	0.25237	772.65	0.28571	335.57	772.65	2	610.15	0.7446
30296	C17H33Br3	1,1,1-tribromoheptadecane	62127-73-5	0.41046	0.25738	847.65	0.28571	462.67	847.65	2	676.15	0.9697
30297	C17H33Cl	cis-1-chloro-1-heptadecene	66563-91-5	0.26847	0.25434	782.44	0.28571	305.69	782.44	2	617.15	0.6460
30298	C17H33Cl	trans-1-chloro-1-heptadecene	66563-92-6	0.26847	0.25434	782.44	0.28571	305.69	782.44	2	617.15	0.6460
30300	C17H33Cl3	1,1,1-trichloroheptadecane	62108-61-6	0.30601	0.25799	808.70	0.28571	373.03	808.70	2	643.15	0.7240
30301	C17H33F	cis-1-fluoro-1-heptadecene	66577-63-7	0.26022	0.25371	750.10	0.28571	307.92	750.10	2	591.79	0.6270
30302	C17H33F	trans-1-fluoro-1-heptadecene	66577-51-3	0.26022	0.25371	750.10	0.28571	307.92	750.10	2	591.79	0.6270
30303	C17H33F3	1,1,1-trifluoroheptadecane	62126-84-5	0.28952	0.25958	710.60	0.28571	379.72	710.60	2	560.15	0.6880
30304	C17H33I	cis-1-iodo-1-heptadecene	66577-52-4	0.34520	0.25546	802.73	0.28571	333.83	802.73	2	632.15	0.8295
30305	C17H33I	trans-1-iodo-1-heptadecene	66577-53-5	0.34520	0.25546	802.73	0.28571	333.83	802.73	2	632.15	0.8295
30306	C17H33I3	1,1,1-triiocloheptadecane	---	0.49832	0.27091	1091.73	0.28571	457.45	1091.73	2	864.55	1.1474
30307	C17H33N	heptadecanenitrile	5399-02-0	0.24811	0.25058	779.15	0.28571	306.45	779.15	1,2	622.15	0.5956
30310	C17H34	dodecylcyclopentane	5634-30-0	0.25680	0.26479	755.17	0.28571	268.16	755.17	1,2	298.15	0.8120
30311	C17H34	undecylcyclohexane	54105-66-7	0.25910	0.26620	761.74	0.28571	278.96	761.74	1,2	298.15	0.8170
30312	C17H34	cycloheptadecane	295-97-6	0.28609	0.31053	815.06	0.28571	338.35	815.06	2	586.15	0.6454
30313	C17H34	1-heptadecene	6765-39-5	0.24970	0.25716	736.00	0.33430	284.40	736.00	1,2	298.15	0.7820
30314	C17H34	2-methyl-1-hexadecene	61868-19-7	0.24596	0.26023	732.59	0.28571	274.65	732.59	1,2	298.15	0.7842
30315	C17H34Br2	1,1-dibromoheptadecane	62168-34-7	0.36026	0.25705	818.59	0.28571	385.45	818.59	2	652.15	0.8529
30316	C17H34Br2	1,17-dibromoheptadecane	81726-82-1	0.36026	0.25705	818.59	0.28571	311.15	818.59	2	652.15	0.8529
30317	C17H34Cl2	1,1-dichloroheptadecane	62046-36-0	0.28658	0.25745	792.59	0.28571	325.69	792.59	2	630.15	0.6791
30318	C17H34F2	1,1-difluoroheptadecane	62127-06-4	0.27563	0.25994	723.60	0.28571	330.15	723.60	2	566.15	0.6588
30319	C17H34I2	1,1-diiodoheptadecane	66577-55-7	0.42528	0.26730	976.52	0.28571	381.97	976.52	2	774.20	0.9866
30322	C17H34O	9-heptadecanone	540-08-9	0.25612	0.25715	745.97	0.28571	326.15	745.97	1,2	524.65	0.6688
30323	C17H34O	2-heptadecanone	2922-51-2	0.25612	0.26056	745.97	0.28571	321.15	745.97	1,2	592.15	0.6032

Table 3 Density of Liquid - Organic Compounds

			density = A B $^{-(1 - T/C)^{\wedge}n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
30324	C17H34O	heptadecanal	629-90-3	0.25332	0.25614	752.20	0.28571	310.15	752.20	2	598.15	0.6021
30325	C17H34O2	heptadecanoic acid	506-12-7	0.26738	0.25739	789.15	0.28571	334.35	789.15	1,2	635.75	0.6255
30326	C17H34O2	hexadecyl formate	4113-08-0	0.26030	0.25251	757.10	0.28571	339.55	757.10	2	645.88	0.5768
30327	C17H34O2	pentadecyl acetate	629-58-3	0.25980	0.25156	753.00	0.28571	291.65	753.00	2	298.15	0.8582
30328	C17H34O2	tetradecyl propanoate	6221-95-0	0.25980	0.25173	754.80	0.28571	323.18	754.80	2	646.58	0.5736
30329	C17H34O2	tridecyl butanoate	56164-20-6	0.25980	0.25170	754.50	0.28571	323.18	754.50	2	646.58	0.5733
30330	C17H34O2	isopropyl tetradecanoate	110-27-0	0.29022	0.28715	733.00	0.28571	303.15	733.00	1,2	651.92	0.5644
30331	C17H34O2	propyl tetradecanoate	14303-70-9	0.29154	0.28866	733.00	0.28571	303.15	733.00	1,2	651.92	0.5654
30332	C17H34O2	methyl palmitate	112-39-0	0.29288	0.28809	733.00	0.28571	303.15	733.00	1,2	690.15	0.5091
30336	C17H34S	thiacyclooctadecane	296-21-9	0.31041	0.31182	852.59	0.28571	333.68	852.59	2	614.15	0.6976
30337	C17H35Br	1-bromoheptadecane	3508-00-7	0.30431	0.25914	784.07	0.28571	302.75	784.07	1,2	622.15	0.7194
30338	C17H35Cl	1-chloroheptadecane	62016-75-5	0.26524	0.25638	773.57	0.28571	299.35	773.57	2	613.15	0.6320
30339	C17H35F	1-fluoroheptadecane	1545-17-1	0.26029	0.25803	726.20	0.28571	302.15	726.20	2	576.15	0.6171
30340	C17H35I	1-iodoheptadecane	26825-83-2	0.36400	0.27797	796.86	0.28571	306.85	796.86	2	644.15	0.8089
30343	C17H35NO2	1-nitroheptadecane	39220-66-1	0.26692	0.24721	792.11	0.28571	424.46	792.11	2	635.15	0.6435
30346	C17H36	heptadecane	629-78-7	0.23910	0.25260	733.37	0.30520	295.13	733.37	1,2	298.15	0.7730
30347	C17H36	2-methylhexadecane	1560-92-5	0.24501	0.26321	726.23	0.28571	277.15	726.23	1,2	298.15	0.7720
30348	C17H36	3-methylhexadecane	6418-43-5	0.24501	0.26117	727.50	0.28571	258.15	727.50	1,2	298.15	0.7775
30349	C17H36	2,2-dimethylpentadecane	61869-05-4	0.24626	0.26459	722.25	0.28571	283.27	722.25	1,2	298.15	0.7715
30350	C17H36	2,3-dimethylpentadecane	2882-97-5	0.24651	0.25947	729.97	0.28571	250.85	729.97	1,2	298.15	0.7873
30351	C17H36	2,4-dimethylpentadecane	61868-07-3	0.24651	0.26109	708.24	0.28571	250.85	708.24	1,2	298.15	0.7776
30352	C17H36O	1-heptadecanol	1454-85-9	0.26720	0.25720	770.00	0.33904	327.05	770.00	1,2	597.15	0.6056
30353	C17H36O	2-heptadecanol	16813-18-6	0.25959	0.26321	764.40	0.28571	317.65	764.40	2	601.15	0.6127
30354	C17H36O	9-heptadecanol	624-08-8	0.26339	0.26789	767.20	0.28571	334.15	767.20	2	599.15	0.6184
30355	C17H36O	heptadecanol (mixed primary isomers)	52783-44-5	0.26339	0.26789	767.20	0.28571	327.15	767.20	2	599.15	0.6184
30356	C17H36O2	1,2-heptadecanediol	34719-63-6	0.26726	0.26180	797.59	0.28571	387.49	797.59	2	651.15	0.6103
30357	C17H36O2	1,3-heptadecanediol	---	0.26726	0.26279	811.07	0.28571	387.49	811.07	2	662.15	0.6089
30358	C17H36O2	1,4-heptadecanediol	---	0.26726	0.26456	836.79	0.28571	387.49	836.79	2	683.15	0.6064
30359	C17H36O2	1,17-heptadecanediol	66577-59-1	0.26570	0.26171	820.62	0.28571	402.49	820.62	2	670.15	0.6067
30362	C17H36S	1-heptadecanethiol	53193-22-9	0.26170	0.26165	786.01	0.28571	300.37	786.01	2	621.16	0.6173
30363	C17H36S	2-heptadecanethiol	66577-60-4	0.26667	0.26786	777.00	0.28571	293.15	777.00	1,2	298.15	0.8398
30364	C17H36S	methyl hexadecyl sulfide	27563-68-4	0.26170	0.26231	798.63	0.28571	294.16	798.63	1,2	298.15	0.8440
30365	C17H36S	ethyl pentadecyl sulfide	64919-20-6	0.26170	0.26231	798.63	0.28571	294.16	798.63	1,2	298.15	0.8440
30366	C17H36S	propyl tetradecyl sulfide	66577-61-5	0.26170	0.26231	798.63	0.28571	294.16	798.63	1,2	298.15	0.8440
30367	C17H36S	butyl tridecyl sulfide	66577-62-6	0.26170	0.26231	798.63	0.28571	294.16	798.63	1,2	298.15	0.8440
30369	C17H37N	heptadecylamine	4200-95-7	0.25422	0.25002	767.80	0.28571	317.15	767.80	1,2	616.15	0.6081
30370	C17H37N	methylhexadecylamine	13417-08-8	0.25422	0.25942	745.00	0.28571	309.15	745.00	2	594.15	0.5977
30371	C17H37N	ethylpentadecylamine	56392-13-3	0.25422	0.25934	744.20	0.28571	333.51	744.20	2	595.15	0.5962
30372	C17H37N	dimethylpentadecylamine	17678-60-3	0.25422	0.25990	750.50	0.28571	313.32	750.50	2	590.15	0.6050
30373	C17H37N	diethyltridecylamine	66577-48-8	0.24913	0.25037	712.65	0.28571	313.32	712.65	2	564.15	0.6034
30374	C17H37N	methyldioctylamine	4455-26-9	0.25320	0.25813	744.03	0.28571	243.05	744.03	2	298.15	0.8158
30406	C18H12	chrysene	218-01-9	0.33090	0.22484	979.00	0.28571	531.15	979.00	1,2	714.15	0.9243
30456.1	C18H13N3O4	4,4'-dinitrotriphenylamine	1100-1-3	0.36095	0.26833	946.00	0.28571	479.65	946.00	2	298.15	1.1755
30457	C18H14	m-terphenyl	92-06-8	0.30000	0.21194	924.85	0.29680	360.00	924.85	1,2	650.00	0.8854
30458	C18H14	o-terphenyl	84-15-1	0.30600	0.23737	890.95	0.31720	329.35	890.95	2	609.00	0.8305
30459	C18H14	p-terphenyl	92-94-4	0.30200	0.23890	925.95	0.29435	485.00	925.95	2	649.15	0.8237
30567	C18H15P	triphenylphosphine	603-35-0	0.47340	0.35286	1008.00	0.55468	354.40	1008.00	1,2	650.15	0.8510
30588	C18H16N2	N,N'-diphenyl-p-phenylenediamine	74-31-7	0.31870	0.24182	906.00	0.28571	409.00	906.00	2	688.00	0.8199
30714	C18H20	1,1-diphenyl-1-hexene	1530-19-4	0.29234	0.25507	803.60	0.28571	261.01	803.60	1,2	298.15	0.9674
30715	C18H20	2,4-diphenyl-4-methyl-1-pentene	6362-80-7	0.29234	0.24844	803.60	0.28571	261.01	803.60	1,2	298.15	0.9900
30778	C18H22	1,1-diphenylhexane	1530-04-7	0.26723	0.23359	794.40	0.28571	261.61	794.40	1,2	298.15	0.9528
30779	C18H22	2,3-dimethyl-2,3-diphenylbutane	1889-67-4	0.30520	0.26062	805.00	0.28571	392.15	805.00	2	589.00	0.7684
30806	C18H22O2	dicumyl peroxide	80-43-3	0.30970	0.25602	884.00	0.28571	311.15	884.00	2	669.00	0.7692
30836	C18H24	1-octylnaphthalene	2876-51-9	0.28034	0.25273	821.26	0.28571	271.15	821.26	1,2	298.15	0.9393
30837	C18H24	2-octylnaphthalene	2876-44-0	0.28034	0.25531	825.21	0.28571	285.15	825.21	1,2	298.15	0.9318
30838	C18H24	2,6-bis(1,1-dimethylethyl)-naphthalene	3905-64-4	0.28034	0.25401	823.23	0.28571	419.05	823.23	2	603.05	0.7178
30913	C18H28	1-octyl-[1,2,3,4-tetrahydronaphthalene]	29138-91-8	0.27634	0.26387	797.31	0.28571	311.19	797.31	2	608.15	0.6684
30914	C18H28	2-octyl-[1,2,3,4-tetrahydronaphthalene]	66553-10-4	0.27634	0.26426	802.56	0.28571	311.19	802.56	2	612.15	0.6677
30947	C18H30	dodecylbenzene	123-01-3	0.24640	0.24136	774.26	0.28571	275.93	774.26	1,2	298.15	0.8490
30948	C18H30	hexaethylbenzene	604-88-6	0.26340	0.23659	734.78	0.28571	401.16	734.78	1,2	571.16	0.6733
30949	C18H30	1,2,4,5-tetraisopropylbenzene	635-11-0	0.25490	0.25192	754.52	0.28571	391.55	754.52	1,2	532.15	0.6740
30952	C18H30	1,3,5-tri-tert-butylbenzene	1460-02-2	0.25490	0.24665	754.52	0.28571	344.65	754.52	2	521.25	0.6935
30953	C18H30	1,2,4-tri-tert-butylbenzene	1459-11-6	0.25490	0.24665	754.52	0.28571	321.15	754.52	2	570.29	0.6497
30960	C18H30O	2,4,6-tri-tert-butylphenol	732-26-3	0.30699	0.30373	770.00	0.28571	404.15	770.00	1,2	551.15	0.7053
30961	C18H30O	4-sec-butyl-2,6-di-tert-butylphenol	17540-75-9	0.30699	0.28948	770.00	0.28571	298.15	770.00	1,2	562.15	0.7202
30962	C18H30O	4-dodecylphenol	104-43-8	0.30699	0.27272	770.00	0.28571	351.15	770.00	1,2	573.15	0.7401
30963	C18H30O	dodecylphenols	27193-86-8	0.30699	0.27948	770.00	0.28571	351.15	770.00	1,2	562.15	0.7378
30991	C18H32O2	linoleic acid	60-33-3	0.28330	0.26430	775.00	0.28600	268.15	775.00	1,2	298.15	0.9020
31013	C18H34	9-octadecyne	35365-59-4	0.24910	0.26063	754.15	0.28571	274.65	754.15	1,2	298.15	0.7983
31014	C18H34	1-octadecyne	629-89-0	0.24910	0.25956	747.33	0.28571	300.16	747.33	1,2	586.16	0.5947
31015	C18H34	2-octadecyne	61847-97-0	0.24910	0.25920	764.58	0.28571	303.15	764.58	1,2	598.15	0.5966
31016	C18H34	3-octadecyne	61886-64-4	0.24910	0.26194	750.52	0.28571	275.55	750.52	1,2	298.15	0.7940
31017	C18H34	1,1-dicyclohexylhexane	55030-20-1	0.27539	0.26342	783.63	0.28571	282.05	783.63	1,2	298.15	0.8815
31018	C18H34	1-tridecylcyclopentene	62184-78-5	0.25808	0.25984	749.34	0.28571	268.21	749.34	1,2	298.15	0.8281
31030	C18H34O2	oleic acid	112-80-1	0.26020	0.25366	936.00	0.28970	286.53	936.00	1,2	298.15	0.8880
31031	C18H34O2	elaidic acid	112-79-8	0.26020	0.25576	936.00	0.28571	318.15	936.00	1,2	630.00	0.7007
31032	C18H34O2	trans-2-octadecenoic acid	2825-79-8	0.26020	0.25669	936.00	0.28571	331.65	936.00	1,2	630.00	0.6989
31033	C18H34O2	trans-11-octadecenoic acid	693-72-1	0.26020	0.25556	936.00	0.28571	317.15	936.00	2	630.00	0.7011
31034	C18H34O2	petroselinic acid	593-39-5	0.25212	0.24823	966.00	0.28571	302.30	966.00	2	630.00	0.7065
31041	C18H34O4	dibutyl sebacate	109-43-3	0.29950	0.25480	768.00	0.37852	263.95	768.00	1,2	298.15	0.9320

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
31042	C18H34O4	dihexyl adipate	110-33-8	0.30530	0.25892	767.00	0.38852	259.35	767.00	1,2	298.15	0.9320
31054	C18H35Br	cis-1-bromo-1-octadecene	66292-44-2	0.30528	0.25277	783.30	0.28571	346.84	783.30	2	623.15	0.7314
31055	C18H35Br	trans-1-bromo-1-octadecene	66292-45-3	0.30528	0.25277	783.30	0.28571	346.84	783.30	2	623.15	0.7314
31057	C18H35Br3	1,1,1-tribromooctadecane	62127-74-6	0.40311	0.25754	856.21	0.28571	473.94	856.21	2	687.15	0.9463
31058	C18H35Cl	cis-1-chloro-1-octadecene	66292-46-4	0.26753	0.25474	794.17	0.28571	316.96	794.17	2	631.15	0.6385
31059	C18H35Cl	trans-1-chloro-1-octadecene	66292-47-5	0.26753	0.25474	794.17	0.28571	316.96	794.17	2	631.15	0.6385
31061	C18H35Cl3	1,1,1-trichlorooctadecane	62108-62-7	0.30338	0.25823	819.70	0.28571	384.30	819.70	2	656.15	0.7128
31062	C18H35F	cis-1-fluoro-1-octadecene	66292-48-6	0.25970	0.25502	773.26	0.28571	319.19	773.26	2	614.67	0.6192
31063	C18H35F	trans-1-fluoro-1-octadecene	66292-49-7	0.25970	0.25502	773.26	0.28571	319.19	773.26	2	614.67	0.6192
31064	C18H35F3	1,1,1-trifluorooctadecane	1511-82-6	0.28775	0.25991	722.30	0.28571	390.99	722.30	2	569.15	0.6835
31065	C18H35I	cis-1-iodo-1-octadecene	66292-50-0	0.34042	0.25573	812.93	0.28571	345.10	812.93	2	645.15	0.8116
31066	C18H35I	trans-1-iodo-1-octadecene	66292-51-1	0.34042	0.25573	812.93	0.28571	345.10	812.93	2	645.15	0.8116
31067	C18H35I3	1,1,1-triiodooctadecane	---	0.48761	0.27118	1112.75	0.28571	468.72	1112.75	2	887.43	1.1147
31069	C18H35N	octadecanenitrile	638-65-3	0.24823	0.25125	790.72	0.28571	314.65	790.72	1,2	635.15	0.5914
31071	C18H36	1-octadecene	112-88-9	0.24050	0.24731	748.00	0.32724	290.76	748.00	1,2	298.15	0.7850
31072	C18H36	9-octadecene	5557-31-3	0.24335	0.25663	746.71	0.28571	242.65	746.71	1,2	298.15	0.7887
31073	C18H36	2-methyl-1-heptadecene	42764-74-9	0.24621	0.26036	745.42	0.28571	281.65	745.42	1,2	298.15	0.7877
31074	C18H36	tridecylcyclopentane	6006-34-4	0.25650	0.26464	766.47	0.28571	278.16	766.47	1,2	298.15	0.8140
31075	C18H36	dodecylcyclohexane	1795-17-1	0.25860	0.26579	772.83	0.28571	285.66	772.83	1,2	298.15	0.8190
31076	C18H36	cyclooctadecane	296-18-4	0.28643	0.31154	824.69	0.28571	345.15	824.69	2	598.15	0.6414
31079	C18H36Br2	1,1-dibromooctadecane	62168-35-8	0.35496	0.25726	828.45	0.28571	396.72	828.45	2	664.15	0.8348
31080	C18H36Cl2	1,1-dichlorooctadecane	62017-20-3	0.28480	0.25768	803.67	0.28571	336.96	803.67	2	643.15	0.6702
31083	C18H36F2	1,1-difluorooctadecane	62127-07-5	0.27456	0.26018	734.40	0.28571	341.42	734.40	2	579.15	0.6512
31084	C18H36I2	1,1-diiodooctadecane	66292-27-1	0.41722	0.26775	998.46	0.28571	393.24	998.46	2	797.08	0.9606
31090	C18H36O	octadecanal	638-66-4	0.25317	0.25210	762.31	0.28571	316.15	762.31	2	610.15	0.6040
31091	C18H36O	2-octadecanone	7373-13-9	0.25582	0.25482	758.47	0.28571	325.15	758.47	2	606.15	0.6071
31092	C18H36O	3-octadecanone	18261-92-2	0.25582	0.25482	758.47	0.28571	324.15	758.47	2	607.48	0.6058
31094	C18H36O	cis-9-octadecen-1-ol	143-28-2	0.27084	0.26857	755.00	0.28571	279.65	755.00	1,2	298.15	0.8459
31095	C18H36O	trans-9-octadecen-1-ol	506-42-3	0.27084	0.26970	755.00	0.28571	309.65	755.00	1,2	606.15	0.6174
31097	C18H36O2	octadecanoic acid	57-11-4	0.27890	0.24754	799.00	0.30250	342.75	799.00	1,2	648.35	0.6479
31098	C18H36O2	2-octyldecanoic acid	619-39-6	0.27890	0.27230	799.00	0.28571	311.65	799.00	1,2	665.10	0.6089
31099	C18H36O2	heptadecyl formate	66292-28-2	0.25933	0.24443	766.30	0.28571	350.82	766.30	2	668.76	0.5667
31100	C18H36O2	hexadecyl acetate	629-70-9	0.25886	0.25162	762.50	0.28571	297.35	762.50	1,2	298.15	0.8573
31101	C18H36O2	pentadecyl propanoate	66292-29-3	0.25886	0.24376	764.50	0.28571	334.45	764.50	2	669.46	0.5636
31102	C18H36O2	tetradecyl butanoate	6221-98-3	0.25886	0.24373	764.20	0.28571	334.45	764.20	2	669.46	0.5633
31103	C18H36O2	ethyl palmitate	628-97-7	0.28697	0.28175	746.00	0.28571	297.15	746.00	1,2	298.15	0.8577
31104	C18H36O2	methyl heptadecanoate	1731-92-6	0.28829	0.27445	746.00	0.28571	303.15	746.00	2	665.10	0.5721
31105	C18H36O2	n-butyl myristate	110-36-1	0.28964	0.27594	746.00	0.28571	279.95	746.00	2	298.15	0.8814
31113	C18H36S	thiacyclononadecane	296-47-9	0.30946	0.31148	859.18	0.28571	341.43	859.18	2	624.15	0.6924
31115	C18H37Br	1-bromooctadecane	112-89-0	0.30158	0.25934	795.03	0.28571	301.35	795.03	1,2	635.15	0.7080
31116	C18H37Cl	1-chlorooctadecane	3386-33-2	0.26448	0.25916	783.25	0.28571	301.75	783.25	1,2	625.15	0.6218
31118	C18H37F	1-fluorooctadecane	1649-73-6	0.26001	0.25836	737.10	0.28571	302.15	737.10	2	589.15	0.6116
31119	C18H37I	1-iodooctadecane	629-93-6	0.35802	0.27916	808.59	0.28571	307.15	808.59	1,2	656.15	0.7905
31124	C18H37NO2	1-nitrooctadecane	66292-30-6	0.26610	0.24782	801.56	0.28571	435.73	801.56	2	646.15	0.6371
31131	C18H38	octadecane	593-45-3	0.23379	0.25078	747.00	0.27400	301.33	747.00	1,2	321.31	0.7651
31132	C18H38	9-methylheptadecane	18869-72-2	0.23379	0.24804	737.16	0.28571	277.70	737.16	1,2	298.15	0.7780
31133	C18H38	2-methylheptadecane	1560-89-0	0.23379	0.24893	739.33	0.28571	279.15	739.33	1,2	298.15	0.7761
31134	C18H38	3-methylheptadecane	6418-44-6	0.23379	0.24709	740.59	0.28571	266.95	740.59	1,2	298.15	0.7814
31135	C18H38	2,2-dimethylhexadecane	19486-08-9	0.23379	0.24864	734.97	0.28571	294.54	734.97	1,2	298.15	0.7758
31136	C18H38	2,3-dimethylhexadecane	61868-02-8	0.23379	0.24371	742.82	0.28571	262.12	742.82	1,2	298.15	0.7913
31137	C18H38	2,4-dimethylhexadecane	61868-08-4	0.23379	0.24499	720.01	0.28571	262.12	720.01	1,2	298.15	0.7819
31140	C18H38O	1-octadecanol	112-92-5	0.26780	0.26398	777.00	0.32717	331.05	777.00	1,2	608.15	0.6010
31141	C18H38O	2-octadecanol	593-32-8	0.25935	0.26674	773.90	0.28571	325.15	773.90	2	614.15	0.6019
31142	C18H38O	3-octadecanol, (±)	111897-18-8	0.26357	0.27267	775.45	0.28571	324.15	775.45	1,2	604.43	0.6128
31143	C18H38O	dinonyl ether	2456-27-1	0.26520	0.26645	736.00	0.33030	314.35	736.00	1,2	591.00	0.5747
31144	C18H38O2	1,2-octadecanediol	20294-76-2	0.26639	0.26219	814.33	0.28571	354.15	814.33	2	665.15	0.6074
31145	C18H38O2	1,3-octadecanediol	---	0.26639	0.26312	827.80	0.28571	398.76	827.80	2	676.15	0.6061
31146	C18H38O2	1,4-octadecanediol	---	0.26639	0.26481	853.51	0.28571	398.76	853.51	2	697.15	0.6037
31147	C18H38O2	1,18-octadecanediol	3155-43-9	0.26491	0.26213	837.63	0.28571	364.15	837.63	2	684.15	0.6042
31149	C18H38S	1-octadecanethiol	2885-00-9	0.26110	0.26115	795.36	0.28571	300.93	795.36	1,2	633.16	0.6124
31150	C18H38S	2-octadecanethiol	62155-06-0	0.26608	0.26631	787.00	0.28571	299.15	787.00	2	627.15	0.6158
31151	C18H38S	2-thianonadecane	62155-11-7	0.26412	0.26439	790.00	0.28571	298.15	790.00	1,2	646.15	0.5983
31152	C18H38S	dinonyl sulfide	929-98-6	0.26110	0.26235	810.53	0.28571	298.16	810.53	2	625.00	0.6283
31153	C18H38S	methyl heptadecyl sulfide	---	0.26110	0.26235	810.53	0.28571	298.16	810.53	2	625.00	0.6283
31154	C18H38S	ethyl hexadecyl sulfide	66292-31-7	0.26110	0.26235	810.53	0.28571	298.16	810.53	2	625.00	0.6283
31155	C18H38S	propyl pentadecyl sulfide	66292-32-8	0.26110	0.26235	810.53	0.28571	298.16	810.53	2	625.00	0.6283
31156	C18H38S	butyl tetradecyl sulfide	66292-33-9	0.26110	0.26235	810.53	0.28571	298.16	810.53	2	625.00	0.6283
31157	C18H38S2	dinonyl disulfide	4485-77-2	0.27670	0.26372	802.30	0.28571	252.16	802.30	1,2	298.15	0.8890
31162	C18H39N	octadecylamine	124-30-1	0.25426	0.24723	777.40	0.28571	326.23	777.40	1,2	630.15	0.6061
31163	C18H39N	methylheptadecylamine	66292-34-0	0.25426	0.26087	755.10	0.28571	344.78	755.10	2	607.15	0.5910
31164	C18H39N	ethylhexadecylamine	5877-76-9	0.25426	0.26085	754.80	0.28571	344.78	754.80	2	608.15	0.5898
31165	C18H39N	dinonylamine	2044-21-5	0.25378	0.26417	761.50	0.28571	298.15	761.50	1,2	607.15	0.5900
31166	C18H39N	dimethylhexadecylamine	112-69-6	0.25426	0.26757	760.90	0.28571	285.15	760.90	1,2	298.15	0.7980
31167	C18H39N	diethyltetradecylamine	7307-58-6	0.24920	0.25210	723.91	0.28571	324.59	723.91	2	577.15	0.5968
31168	C18H39N	trihexylamine	102-86-3	0.24920	0.25397	673.74	0.28571	324.59	673.74	1,2	537.15	0.5941
31477	C19H22	1,1-diphenyl-1-heptene	1530-20-7	0.28963	0.25583	817.04	0.28571	255.91	817.04	1,2	298.15	0.9591
31535	C19H24	1,1-diphenylheptane	1530-05-8	0.26457	0.23334	802.70	0.28571	286.15	802.70	1,2	298.15	0.9463
31568	C19H26	1-nonylnaphthalene	26438-26-6	0.25440	0.22722	849.00	0.30164	284.15	849.00	1,2	298.15	0.9340
31569	C19H26	2-nonylnaphthalene	61886-67-7	0.27851	0.25737	834.22	0.28571	284.15	834.22	1,2	298.15	0.9211
31621	C19H30	1-nonyl-[1,2,3,4-tetrahydronaphthalene]	33425-49-9	0.27480	0.26339	805.45	0.28571	322.46	805.45	2	621.15	0.6594

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
31622	C19H30	2-nonyl-[1,2,3,4-tetrahydronaphthalene]	26437-45-6	0.27480	0.26368	809.34	0.28571	322.46	809.34	2	624.15	0.6590
31646	C19H32	tridecylbenzene	123-02-4	0.24570	0.23502	783.00	0.31981	283.15	783.00	1,2	298.15	0.8510
31647	C19H32	(1-hexylheptyl)benzene	2400-01-3	0.24570	0.24102	783.00	0.28571	244.95	783.00	1,2	298.15	0.8497
31670	C19H36	1-nonadecyne	26186-01-6	0.24920	0.25959	758.94	0.28571	306.16	758.94	1,2	600.16	0.5904
31671	C19H36	2-nonadecyne	61847-98-1	0.24917	0.25603	775.87	0.28571	409.49	775.87	2	612.15	0.5968
31672	C19H36	3-nonadecyne	61886-65-5	0.24917	0.25480	760.66	0.28571	409.49	760.66	2	600.15	0.5987
31673	C19H36	1,1-dicyclohexylheptane	2090-15-5	0.27395	0.28657	790.20	0.28571	318.15	790.20	2	605.15	0.6254
31674	C19H36	1-tetradecylcyclopentene	62184-79-6	0.25767	0.25967	757.98	0.28571	279.48	757.98	1,2	298.15	0.8293
31675	C19H36O2	methyl oleate	112-62-9	0.27970	0.26246	764.00	0.33247	293.05	764.00	1,2	298.15	0.8700
31678	C19H37Br	cis-1-bromo-1-nonadecene	66359-51-1	0.30259	0.25324	794.49	0.28571	358.11	794.49	2	636.15	0.7196
31679	C19H37Br	trans-1-bromo-1-nonadecene	66359-52-2	0.30259	0.25324	794.49	0.28571	358.11	794.49	2	636.15	0.7196
31680	C19H37Br3	1,1,1-tribromononadecane	62127-75-7	0.39640	0.25770	864.19	0.28571	485.21	864.19	2	697.15	0.9254
31681	C19H37Cl	cis-1-chloro-1-nonadecene	66359-53-3	0.26669	0.25510	805.20	0.28571	328.23	805.20	2	644.15	0.6318
31682	C19H37Cl	trans-1-chloro-1-nonadecene	66359-54-4	0.26669	0.25510	805.20	0.28571	328.23	805.20	2	644.15	0.6318
31683	C19H37Cl3	1,1,1-trichlorononadecane	62108-63-8	0.30098	0.25845	830.05	0.28571	395.57	830.05	2	668.15	0.7029
31684	C19H37F	cis-1-fluoro-1-nonadecene	66359-55-5	0.25923	0.25629	796.80	0.28571	330.46	796.80	2	637.55	0.6122
31685	C19H37F	trans-1-fluoro-1-nonadecene	66359-56-6	0.25923	0.25629	796.80	0.28571	330.46	796.80	2	637.55	0.6122
31686	C19H37F3	1,1,1-trifluorononadecane	62126-85-6	0.28616	0.26020	733.20	0.28571	402.26	733.20	2	585.15	0.6711
31687	C19H37I	cis-1-iodo-1-nonadecene	66359-57-7	0.33611	0.25597	822.45	0.28571	356.37	822.45	2	657.15	0.7955
31688	C19H37I	trans-1-iodo-1-nonadecene	66359-58-8	0.33611	0.25597	822.45	0.28571	356.37	822.45	2	657.15	0.7955
31689	C19H37I3	1,1,1-triiododononadecane	---	0.47779	0.27148	1134.48	0.28571	479.99	1134.48	2	910.31	1.0853
31690	C19H37N	nonadecanenitrile	28623-46-3	0.24834	0.24456	801.62	0.28571	315.85	801.62	2	647.15	0.5986
31695	C19H38	tetradecylcyclopentane	1795-22-8	0.25610	0.26388	772.00	0.28571	282.00	772.00	1,2	298.15	0.8160
31696	C19H38	tridecylcyclohexane	6006-33-3	0.25810	0.26530	783.38	0.28571	291.66	783.38	1,2	298.15	0.8210
31697	C19H38	cyclononadecane	296-44-6	0.28672	0.29219	834.39	0.28571	269.25	834.39	1,2	298.15	0.8480
31698	C19H38	1-nonadecene	18435-45-5	0.24230	0.24850	760.00	0.33336	296.55	760.00	1,2	298.15	0.7880
31699	C19H38	2-methyl-1-octadecene	61868-20-0	0.24643	0.26047	757.46	0.28571	287.15	757.46	1,2	298.15	0.7909
31700	C19H38Br2	1,1-dibromononadecane	62168-36-9	0.35016	0.25745	837.69	0.28571	407.99	837.69	2	675.15	0.8187
31701	C19H38Cl2	1,1-dichlorononadecane	62017-21-4	0.28319	0.25790	814.08	0.28571	348.23	814.08	2	655.15	0.6624
31702	C19H38F2	1,1-difluorononadecane	62127-08-6	0.27359	0.26038	744.50	0.28571	352.69	744.50	2	591.15	0.6445
31703	C19H38I2	1,1-diiodononadecane	66359-60-2	0.40986	0.26823	1021.00	0.28571	404.51	1021.00	2	819.96	0.9373
31704	C19H38O	nonadecanal	17352-32-8	0.25303	0.24977	774.21	0.28571	317.15	774.21	2	623.15	0.6038
31705	C19H38O	2-nonadecanone	629-66-3	0.25555	0.25785	766.51	0.28571	329.15	766.51	1,2	616.15	0.5985
31706	C19H38O	10-nonadecanone	504-57-4	0.25555	0.25200	766.51	0.28571	338.65	766.51	2	619.65	0.6037
31708	C19H38O2	nonadecanoic acid	646-30-0	0.27640	0.26271	810.00	0.32160	341.23	810.00	1,2	659.15	0.6021
31709	C19H38O2	14-methyloctadecanoic acid	94434-64-7	0.27640	0.24866	810.00	0.28571	310.65	810.00	1,2	690.66	0.6184
31710	C19H38O2	17-methyloctadecanoic acid	2724-59-6	0.27640	0.27148	810.00	0.28571	340.65	810.00	1,2	690.66	0.5877
31711	C19H38O2	9-methyloctadecanoic acid	86073-38-3	0.27640	0.23229	810.00	0.28571	313.15	810.00	1,2	690.66	0.6432
31712	C19H38O2	octadecyl formate	5451-75-2	0.25845	0.24259	774.90	0.28571	362.09	774.90	2	691.64	0.5465
31713	C19H38O2	heptadecyl acetate	822-20-8	0.25800	0.24179	771.30	0.28571	303.39	771.30	2	615.00	0.6344
31714	C19H38O2	hexadecyl propanoate	6221-96-1	0.25800	0.24198	773.50	0.28571	345.72	773.50	2	692.34	0.5435
31715	C19H38O2	pentadecyl butanoate	125164-51-4	0.25800	0.24196	773.30	0.28571	345.72	773.30	2	692.34	0.5433
31716	C19H38O2	ethyl heptadecanoate	14010-23-2	0.28667	0.28375	759.00	0.28571	301.15	759.00	1,2	690.66	0.5400
31717	C19H38O2	isopropyl palmitate	142-91-6	0.28802	0.28792	759.00	0.28571	286.65	759.00	1,2	298.15	0.8478
31718	C19H38O2	propyl palmitate	2239-78-3	0.28937	0.28861	759.00	0.28571	293.55	759.00	1,2	298.15	0.8501
31719	C19H38O2	methyl stearate	112-61-8	0.29075	0.28690	759.00	0.28571	312.25	759.00	1,2	716.15	0.5036
31726	C19H38S	thiacycloeicosane	66359-61-3	0.30861	0.31121	865.90	0.28571	349.18	865.90	2	634.15	0.6875
31727	C19H39Br	1-bromononadecane	4434-66-6	0.29912	0.25652	805.31	0.28571	311.65	805.31	2	647.15	0.7030
31728	C19H39Cl	1-chlorononadecane	62016-76-6	0.26380	0.25663	792.26	0.28571	308.85	792.26	2	636.15	0.6204
31729	C19H39F	1-fluorononadecane	1480-63-3	0.25976	0.25867	747.30	0.28571	312.15	747.30	2	602.15	0.6057
31730	C19H39I	1-iodononadecane	62127-51-9	0.35264	0.27649	820.94	0.28571	315.15	820.94	2	668.15	0.7810
31732	C19H39NO2	1-nitrononadecane	66359-36-2	0.26536	0.24838	810.40	0.28571	447.00	810.40	2	656.15	0.6315
31733	C19H40	7-hexyltridecane	7225-66-3	0.23385	0.24669	748.87	0.28571	244.85	748.87	1,2	298.15	0.7847
31734	C19H40	2,6,10,14-tetramethylpentadecane	1921-70-6	0.23385	0.24874	748.87	0.28571	280.65	748.87	1,2	298.15	0.7791
31735	C19H40	nonadecane	629-92-5	0.23385	0.24474	758.00	0.30650	305.33	758.00	1,2	325.04	0.7653
31736	C19H40	2-methyloctadecane	1560-88-9	0.23385	0.24872	751.64	0.28571	288.15	751.64	1,2	298.15	0.7798
31737	C19H40	3-methyloctadecane	6561-44-0	0.23385	0.24696	752.90	0.28571	273.65	752.90	1,2	298.15	0.7849
31738	C19H40	2,2-dimethylheptadecane	53594-82-4	0.23385	0.24660	746.87	0.28571	305.81	746.87	2	325.81	0.7675
31739	C19H40	2,3-dimethylheptadecane	61868-03-9	0.23385	0.24362	754.89	0.28571	273.39	754.89	1,2	298.15	0.7947
31740	C19H40	2,4-dimethylheptadecane	61868-09-5	0.23385	0.24475	730.99	0.28571	273.39	730.99	1,2	298.15	0.7856
31742	C19H40O	1-nonadecanol	1454-84-8	0.25440	0.25711	775.30	0.28571	334.87	775.30	2	631.00	0.5894
31743	C19H40O	2-nonadecanol	26533-36-8	0.25913	0.26321	782.80	0.28571	325.15	782.80	2	627.15	0.6011
31744	C19H40O2	1,2-nonadecanediol	39516-65-9	0.26560	0.26264	831.78	0.28571	410.03	831.78	2	679.15	0.6052
31745	C19H40O2	1,3-nonadecanediol	66359-38-4	0.26560	0.26353	845.25	0.28571	348.15	845.25	2	690.15	0.6040
31746	C19H40O2	1,4-nonadecanediol	---	0.26560	0.26514	870.97	0.28571	410.03	870.97	2	711.15	0.6017
31747	C19H40O2	1,19-nonanecanediol	---	0.26420	0.26260	855.38	0.28571	425.03	855.38	2	698.15	0.6023
31750	C19H40S	1-nonadecanethiol	62155-07-1	0.26060	0.25875	805.29	0.28571	307.04	805.29	2	645.16	0.6110
31751	C19H40S	2-nonadecanethiol	---	0.26554	0.26358	795.00	0.28571	304.15	795.00	2	639.15	0.6133
31752	C19H40S	methyl octadecyl sulfide	40289-98-3	0.26060	0.25992	821.75	0.28571	303.16	821.75	2	635.00	0.6298
31753	C19H40S	ethyl heptadecyl sulfide	66359-40-8	0.26060	0.25992	821.75	0.28571	303.16	821.75	2	635.00	0.6298
31754	C19H40S	propyl hexadecyl sulfide	66359-41-9	0.26060	0.25992	821.75	0.28571	303.16	821.75	2	635.00	0.6298
31755	C19H40S	butyl pentadecyl sulfide	66359-42-0	0.26060	0.25992	821.75	0.28571	303.16	821.75	2	635.00	0.6298
31756	C19H41N	nonadecylamine	14130-05-3	0.25430	0.26161	786.30	0.28571	325.15	786.30	2	643.15	0.5798
31757	C19H41N	methyloctadecylamine	2439-55-6	0.25430	0.25985	764.50	0.28571	315.15	764.50	2	620.15	0.5873
31758	C19H41N	ethylheptadecylamine	66359-43-1	0.25430	0.25986	764.70	0.28571	356.05	764.70	2	621.15	0.5865
31759	C19H41N	dimethylheptadecylamine	3002-57-1	0.25430	0.26035	770.60	0.28571	335.86	770.60	2	617.15	0.5941
31760	C19H41N	diethylpentadecylamine	36555-73-4	0.24927	0.25142	735.67	0.28571	335.86	735.67	2	590.15	0.5944
31976	C20H16	triphenylethylene	58-72-0	0.29810	0.23838	908.00	0.28571	342.15	908.00	1,2	669.00	0.7937
32214	C20H24	1,1-diphenyl-1-octene	1530-21-8	0.28725	0.25656	828.02	0.28571	250.81	828.02	1,2	298.15	0.9513
32259	C20H26	1,1-diphenyloctane	1530-06-9	0.26275	0.23399	810.00	0.28571	269.15	810.00	1,2	298.15	0.9393

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
32260	C20H26	2,5-dimethyl-2,5-diphenylhexane	17648-05-4	0.26275	0.23203	810.00	0.28571	334.95	810.00	2	619.15	0.6908
32262	C20H26	3,4-dimethyl-3,4-diphenylhexane	10192-93-5	0.26275	0.23203	810.00	0.28571	302.05	810.00	2	619.15	0.6908
32302	C20H28	1-decylnaphthalene	26438-27-7	0.27689	0.25381	838.67	0.28571	288.15	838.67	1,2	298.15	0.9280
32303	C20H28	2-decylnaphthalene	14188-79-5	0.27689	0.25599	843.81	0.28571	296.15	843.81	1,2	298.15	0.9221
32346	C20H30O2	abietic acid	514-10-3	0.32520	0.28817	832.00	0.28571	446.65	832.00	2	649.70	0.7283
32358.1	C20H30O2	isopimaric acid	5835-26-7	0.30306	0.27640	807.10	0.28571	435.65	807.10	2	298.15	0.9355
32367	C20H31N	dehydroabietylamine	1446-61-3	0.27990	0.25917	863.00	0.28571	317.65	863.00	2	660.00	0.6836
32376	C20H32	1-decyl-[1,2,3,4-tetrahydronaphthalene]	55255-57-7	0.27343	0.26307	814.16	0.28571	333.73	814.16	2	634.15	0.6511
32377	C20H32	2-decyl-[1,2,3,4-tetrahydronaphthalene]	66455-67-2	0.27343	0.26325	816.73	0.28571	333.73	816.73	2	636.15	0.6508
32391.1	C20H32O2	isoagatholal	17990-11-3	0.29560	0.26779	790.00	0.28571	325.00	790.00	2	298.15	0.9343
32399	C20H34	1-phenyltetradecane	1459-10-5	0.24730	0.24308	792.00	0.28571	289.16	792.00	1,2	298.15	0.8510
32407.1	C20H34O2	agathadiol	1857-24-5	0.29756	0.26953	790.00	0.28571	379.55	790.00	2	298.15	0.9351
32436	C20H38	1-eicosyne	765-27-5	0.24920	0.25977	769.79	0.28571	309.16	769.79	1,2	613.16	0.5861
32437	C20H38	2-eicosyne	61847-99-2	0.24924	0.25639	786.42	0.28571	420.76	786.42	2	625.15	0.5922
32438	C20H38	3-eicosyne	61886-66-6	0.24924	0.25418	758.74	0.28571	420.76	758.74	2	603.15	0.5955
32439	C20H38	1,1-dicyclohexyloctane	62016-87-9	0.27266	0.28499	797.35	0.28571	329.42	797.35	2	617.15	0.6195
32440	C20H38	1-pentadecylcyclopentene	62184-80-9	0.25729	0.25962	767.17	0.28571	290.75	767.17	1,2	298.15	0.8304
32445	C20H38O2	cis-9-eicosenoic acid	29204-02-2	0.25991	0.25525	966.00	0.28571	297.65	966.00	1,2	298.15	0.8882
32446	C20H38O2	9-eicosenoic acid	506-31-0	0.25991	0.25525	966.00	0.28571	296.15	966.00	1,2	298.15	0.8882
32447	C20H38O2	11-eicosenoic acid	2462-94-4	0.25991	0.25705	966.00	0.28571	297.15	966.00	1,2	298.15	0.8826
32450	C20H38O2	cis-11-eicosenoic acid	5561-99-9	0.25991	0.25692	966.00	0.28571	296.65	966.00	1,2	298.15	0.8830
32450.1	C20H38O2	cetyl methacrylate	2495-27-4	0.24644	0.23657	793.00	0.28571	288.15	793.00	2	298.15	0.8687
32457	C20H39Br	cis-1-bromo-1-eicosene	66455-60-5	0.30015	0.25366	805.01	0.28571	369.38	805.01	2	648.15	0.7091
32458	C20H39Br	trans-1-bromo-1-eicosene	66455-61-6	0.30015	0.25366	805.01	0.28571	369.38	805.01	2	648.15	0.7091
32459	C20H39Br3	1,1,1-tribromoeicosane	62127-76-8	0.39026	0.25798	874.10	0.28571	496.48	874.10	2	708.15	0.9065
32460	C20H39Cl	cis-1-chloro-1-eicosene	66455-62-7	0.26592	0.25543	815.57	0.28571	339.50	815.57	2	656.15	0.6260
32461	C20H39Cl	trans-1-chloro-1-eicosene	66455-41-2	0.26592	0.25543	815.57	0.28571	339.50	815.57	2	656.15	0.6260
32462	C20H39Cl3	1,1,1-trichloroeicosane	62108-64-9	0.29879	0.25873	841.03	0.28571	406.84	841.03	2	680.15	0.6941
32463	C20H39F	cis-1-fluoro-1-eicosene	66455-42-3	0.25880	0.25750	820.75	0.28571	341.73	820.75	2	660.43	0.6060
32464	C20H39F	trans-1-fluoro-1-eicosene	66455-43-4	0.25880	0.25750	820.75	0.28571	341.73	820.75	2	660.43	0.6060
32465	C20H39F3	1,1,1-trifluoroeicosane	62126-86-7	0.28471	0.26046	743.40	0.28571	413.53	743.40	2	597.15	0.6631
32466	C20H39I	cis-1-iodo-1-eicosene	66455-45-6	0.33219	0.25628	832.59	0.28571	367.64	832.59	2	669.15	0.7812
32467	C20H39I	trans-1-iodo-1-eicosene	66455-44-5	0.33219	0.25628	832.59	0.28571	367.64	832.59	2	669.15	0.7812
32468	C20H39I3	1,1,1-triiodoeicosane	---	0.46876	0.27180	1156.96	0.28571	491.26	1156.96	2	933.19	1.0586
32469	C20H39N	eicosanenitrile	4616-73-3	0.24844	0.24546	813.13	0.28571	323.75	813.13	2	659.15	0.5949
32473	C20H40	pentadecylcyclopentane	4669-01-6	0.25580	0.26343	780.00	0.28571	290.00	780.00	1,2	298.15	0.8180
32474	C20H40	tetradecylcyclohexane	1795-18-2	0.25770	0.26519	792.82	0.28571	297.16	792.82	1,2	298.15	0.8220
32475	C20H40	cycloeicosane	296-56-0	0.28699	0.29370	842.81	0.28571	277.00	842.81	1,2	298.15	0.8464
32476	C20H40	1-eicosene	3452-07-1	0.24180	0.24721	771.00	0.33591	301.76	771.00	1,2	615.54	0.5469
32476.1	C20H40	trans-2-eicosene	42448-85-1	0.25274	0.21495	745.00	0.28571	285.00	745.00	2	298.15	0.9541
32477	C20H40	2-methyl-1-nonadecene	52254-50-9	0.24663	0.26056	768.75	0.28571	292.65	768.75	1,2	298.15	0.7938
32479	C20H40Br2	1,1-dibromoeicosane	62168-37-0	0.34578	0.25770	847.57	0.28571	419.26	847.57	2	686.15	0.8044
32480	C20H40Cl2	1,1-dichloroeicosane	62017-22-5	0.28172	0.25818	825.11	0.28571	359.50	825.11	2	667.15	0.6554
32481	C20H40F2	1,1-difluoroeicosane	62127-09-7	0.27272	0.26057	754.00	0.28571	363.96	754.00	2	603.15	0.6376
32482	C20H40I2	1,1-diiodoeicosane	66455-47-8	0.40313	0.26872	1044.20	0.28571	415.78	1044.20	2	842.84	0.9163
32486	C20H40O	eicosanal	2400-66-0	0.25291	0.25236	784.21	0.28571	324.15	784.21	2	634.15	0.5967
32487	C20H40O	2-eicosanone	29703-52-4	0.25531	0.25426	773.72	0.28571	332.15	773.72	2	625.00	0.6002
32489	C20H40O	3,7,11,15-tetramethyl-1-hexadecen-3-ol	505-32-8	0.27471	0.27416	783.00	0.28571	340.00	783.00	1,2	629.58	0.6189
32491	C20H40O2	eicosanoic acid	506-30-9	0.26497	0.25959	822.00	0.28571	348.45	822.00	1,2	670.15	0.6091
32492	C20H40O2	3,7,11,15-tetramethylhexadecanoic acid	14721-66-5	0.26497	0.24627	822.00	0.28571	208.15	822.00	2	298.15	0.9084
32493	C20H40O2	nonadecyl formate	66455-49-0	0.25766	0.23540	782.90	0.28571	373.36	782.90	2	714.52	0.5298
32494	C20H40O2	octadecyl acetate	822-23-1	0.25723	0.25229	779.60	0.28571	305.99	779.60	1,2	630.00	0.6075
32495	C20H40O2	heptadecyl propanoate	---	0.25723	0.23487	782.00	0.28571	356.99	782.00	2	715.22	0.5270
32496	C20H40O2	hexadecyl butanoate	6221-99-4	0.25723	0.23486	781.80	0.28571	356.99	781.80	2	715.22	0.5267
32497	C20H40O2	decyl decanoate	1654-86-0	0.28661	0.28434	772.00	0.28571	282.85	772.00	1,2	298.15	0.8558
32498	C20H40O2	butyl palmitate	111-06-8	0.28798	0.26683	772.00	0.28571	290.05	772.00	2	298.15	0.9087
32499	C20H40O2	ethyl stearate	111-61-5	0.28937	0.22652	772.00	0.28571	306.15	772.00	1,2	706.07	0.6036
32500	C20H40O2	methyl nonadecanoate	1731-94-8	0.29076	0.26983	772.00	0.28571	314.45	772.00	2	706.07	0.5562
32504	C20H40S	thiacycloheneicosane	42425-07-0	0.30783	0.31101	872.75	0.28571	356.93	872.75	2	644.15	0.6827
32505	C20H41Br	1-bromoeicosane	4276-49-7	0.29688	0.25683	816.19	0.28571	310.05	816.19	2	659.15	0.6938
32506	C20H41Cl	1-chloroeicosane	42217-02-7	0.26318	0.25674	800.64	0.28571	310.75	800.64	2	646.15	0.6156
32507	C20H41F	1-fluoroeicosane	676-44-8	0.25954	0.25894	756.80	0.28571	311.15	756.80	2	614.15	0.6005
32508	C20H41I	1-iodoeicosane	34994-81-5	0.34777	0.27600	833.96	0.28571	315.05	833.96	2	680.15	0.7695
32511	C20H41NO2	1-nitroeicosane	66455-50-3	0.26469	0.24906	821.10	0.28571	458.27	821.10	2	667.15	0.6265
32515	C20H42	eicosane	112-95-8	0.23390	0.24417	768.00	0.30880	309.59	768.00	1,2	329.58	0.7656
32516	C20H42	2-methylnonadecane	1560-86-7	0.23390	0.24856	763.21	0.28571	291.45	763.21	1,2	298.15	0.7831
32517	C20H42	3-methylnonadecane	6418-45-7	0.23390	0.24688	764.46	0.28571	281.15	764.46	1,2	298.15	0.7880
32518	C20H42	2,2-dimethyloctadecane	61869-06-5	0.23390	0.24621	759.27	0.28571	317.08	759.27	2	337.08	0.7652
32519	C20H42	2,3-dimethyloctadecane	61868-04-0	0.23390	0.24367	767.45	0.28571	284.66	767.45	1,2	298.15	0.7977
32520	C20H42	2,4-dimethyloctadecane	61868-10-8	0.23390	0.24467	742.46	0.28571	284.66	742.46	1,2	298.15	0.7889
32522	C20H42O	1-eicosanol	629-96-9	0.26660	0.26923	792.00	0.28870	338.55	792.00	1,2	629.15	0.6121
32523	C20H42O	2-eicosanol	4340-76-5	0.25894	0.26179	791.20	0.28571	333.15	791.20	1,2	639.15	0.5978
32524	C20H42O	didecyl ether	2456-28-2	0.25441	0.25838	730.80	0.28571	257.15	730.80	1,2	298.15	0.8157
32525	C20H42O	2-octyl-1-dodecanol	5333-42-6	0.26277	0.26516	791.60	0.28571	273.20	791.60	1,2	298.15	0.8380
32526	C20H42O2	1,2-eicosanediol	39825-93-9	0.26489	0.26315	849.99	0.28571	358.15	849.99	2	693.15	0.6037
32527	C20H42O2	1,3-eicosanediol	---	0.26489	0.26400	863.48	0.28571	421.30	863.48	2	704.15	0.6025
32528	C20H42O2	1,4-eicosanediol	---	0.26489	0.26552	889.23	0.28571	421.30	889.23	2	725.15	0.6003
32529	C20H42O2	1,20-eicosanediol	---	0.26355	0.26313	873.91	0.28571	436.30	873.91	2	712.15	0.6011
32537	C20H42S	1-eicosanethiol	13373-97-2	0.26010	0.25880	814.57	0.28571	310.37	814.57	2	656.16	0.6065
32538	C20H42S	2-eicosanethiol	62155-08-2	0.26505	0.26359	803.00	0.28571	308.15	803.00	2	651.15	0.6069

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
32539	C20H42S	didecyl sulfide	693-83-4	0.26010	0.26003	832.33	0.28571	308.16	832.33	2	645.00	0.6268
32540	C20H42S	methyl nonadecyl sulfide	62155-12-8	0.26010	0.26003	832.33	0.28571	308.16	832.33	2	645.00	0.6268
32541	C20H42S	ethyl octadecyl sulfide	41947-84-6	0.26010	0.26003	832.33	0.28571	308.16	832.33	2	645.00	0.6268
32542	C20H42S	propyl heptadecyl sulfide	66455-35-4	0.26010	0.26003	832.33	0.28571	308.16	832.33	2	645.00	0.6268
32543	C20H42S	butyl hexadecyl sulfide	18437-89-3	0.26010	0.26003	832.33	0.28571	308.16	832.33	2	645.00	0.6268
32544	C20H42S2	didecyl disulfide	10496-18-1	0.27440	0.26385	820.08	0.28571	259.16	820.08	1,2	298.15	0.8850
32546	C20H43N	eicosylamine	10525-37-8	0.25433	0.26811	794.60	0.28571	332.15	794.60	2	656.15	0.5655
32547	C20H43N	methylnonadecylamine	66455-36-5	0.25433	0.26644	773.40	0.28571	367.32	773.40	2	632.15	0.5738
32548	C20H43N	ethyloctadecylamine	7317-85-3	0.25433	0.26648	773.90	0.28571	367.32	773.90	2	634.15	0.5723
32549	C20H43N	didecylamine	1120-49-6	0.25390	0.26663	782.30	0.28571	307.15	782.30	2	632.15	0.5793
32550	C20H43N	dimethyloctadecylamine	124-28-7	0.25433	0.26736	779.70	0.28571	296.04	779.70	1,2	298.15	0.8028
32551	C20H43N	diethylhexadecylamine	30951-88-3	0.24932	0.25774	746.71	0.28571	280.15	746.71	1,2	298.15	0.8050
32860	C21H26	1,1-diphenyl-1-nonene	1530-26-3	0.28514	0.25692	835.60	0.28571	245.71	835.60	1,2	298.15	0.9448
32914	C21H28	1,1-diphenylnonane	1726-13-2	0.26040	0.23362	816.50	0.28571	288.15	816.50	1,2	298.15	0.9338
32944	C21H30	1-undecylnaphthalene	7225-71-0	0.27545	0.25390	846.34	0.28571	296.15	846.34	1,2	298.15	0.9245
32945	C21H30	2-undecylnaphthalene	61886-68-8	0.27545	0.25605	852.71	0.28571	293.15	852.71	1,2	298.15	0.9189
32998	C21H36	pentadecylbenzene	2131-18-2	0.25310	0.25021	800.00	0.28571	295.16	800.00	1,2	298.15	0.8510
33021	C21H40	1,1-dicyclohexylnonane	62155-19-5	0.27151	0.27896	805.09	0.28571	340.69	805.09	2	629.15	0.6206
33022	C21H40	1-hexadecylcyclopentene	62184-81-0	0.25696	0.25970	775.66	0.28571	302.02	775.66	2	619.15	0.6032
33023	C21H40	1-heneicosyne	61847-81-2	0.24930	0.25136	782.42	0.28571	314.15	782.42	2	627.15	0.5950
33032	C21H41N	heneicosanenitrile	66326-13-4	0.24854	0.24628	824.05	0.28571	324.15	824.05	2	670.15	0.5918
33036	C21H42	hexadecylcyclopentane	6812-39-1	0.25560	0.26416	797.25	0.28571	294.16	797.25	1,2	298.15	0.8190
33037	C21H42	pentadecylcyclohexane	6006-95-7	0.25740	0.26491	803.46	0.28571	302.16	803.46	1,2	640.16	0.5978
33038	C21H42	1-heneicosene	1599-68-4	0.24701	0.25182	779.35	0.28571	306.45	779.35	2	628.15	0.5856
33039	C21H42Br2	1,1-dibromoheneicosane	62168-38-1	0.34176	0.25801	858.13	0.28571	430.53	858.13	2	697.15	0.7915
33040	C21H42Cl2	1,1-dichloroheneicosane	62017-23-6	0.28038	0.25843	835.53	0.28571	370.77	835.53	2	678.15	0.6493
33041	C21H42F2	1,1-difluoroheneicosane	62127-10-0	0.26787	0.25573	756.52	0.28571	375.23	756.52	2	614.15	0.6243
33042	C21H42I2	1,1-diiodoheneicosane	66326-14-5	0.39694	0.26922	1068.11	0.28571	427.05	1068.11	2	865.72	0.8975
33043	C21H42O2	eicosyl formate	66326-15-6	0.25693	0.25402	790.50	0.28571	384.63	790.50	2	737.40	0.4841
33044	C21H42O2	nonadecyl acetate	53939-51-8	0.25653	0.25330	787.40	0.28571	310.75	787.40	2	645.00	0.5957
33045	C21H42O2	octadecyl propanoate	52663-48-6	0.25653	0.25351	789.90	0.28571	303.95	789.90	2	738.10	0.4817
33046	C21H42O2	heptadecyl butanoate	84869-41-0	0.25653	0.25349	789.70	0.28571	368.26	789.70	2	738.10	0.4814
33047	C21H42O2	isopropyl stearate	112-10-7	0.28547	0.28733	785.00	0.28571	301.15	785.00	1,2	737.93	0.4988
33048	C21H42O2	propyl stearate	3634-92-2	0.28686	0.28701	785.00	0.28571	302.05	785.00	1,2	737.93	0.5015
33049	C21H42O2	methyl eicosanoate	1120-28-1	0.28827	0.28961	785.00	0.28571	327.65	785.00	2	737.93	0.5019
33050	C21H42O2	heneicosanoic acid	2363-71-5	0.26790	0.26993	834.00	0.28571	348.15	834.00	2	737.93	0.5429
33051	C21H42O2	isopropyl isostearate	68171-33-5	0.28969	0.29126	785.00	0.28571	310.28	785.00	2	737.93	0.5031
33055	C21H43Br	1-bromoheneicosane	4276-50-0	0.29484	0.25712	826.47	0.28571	319.25	826.47	2	670.15	0.6857
33056	C21H43Cl	1-chloroheneicosane	66326-16-7	0.26261	0.25701	810.87	0.28571	317.15	810.87	2	657.15	0.6112
33057	C21H43F	1-fluoroheneicosane	62126-78-7	0.25585	0.25574	772.53	0.28571	320.15	772.53	2	626.15	0.5973
33058	C21H43I	1-iodoheneicosane	62127-52-0	0.34334	0.27556	846.44	0.28571	322.25	846.44	2	691.15	0.7595
33059	C21H44	heneicosane	629-94-7	0.23395	0.24766	778.00	0.28571	313.65	778.00	1,2	333.35	0.7687
33062	C21H44O	henicosanol	15594-90-8	0.26632	0.27224	801.60	0.28571	342.65	801.60	2	642.00	0.6049
33065	C21H45N	heneicosylamine	14130-15-5	0.25119	0.25949	822.40	0.28571	331.15	822.40	2	668.15	0.5797
33066	C21H45N	methyleicosylamine	66326-20-3	0.24998	0.25583	791.58	0.28571	319.15	791.58	2	643.15	0.5819
33067	C21H45N	ethylnonadecylamine	66326-79-0	0.24998	0.25611	795.27	0.28571	378.59	795.27	2	646.15	0.5816
33068	C21H45N	isopropyloctadecylamine	13329-71-0	0.24988	0.25513	783.99	0.28571	348.87	783.99	2	635.98	0.5837
33069	C21H45N	dimethylnonadecylamine	49859-87-2	0.24938	0.25513	791.64	0.28571	358.40	791.64	2	641.15	0.5835
33070	C21H45N	diethylheptadecylamine	66326-18-9	0.24938	0.25246	758.30	0.28571	358.40	758.30	2	614.15	0.5873
33071	C21H45N	triheptylamine	2411-36-1	0.24938	0.25128	744.72	0.28571	358.40	744.72	2	603.15	0.5890
33313	C22H28	1,1-diphenyl-1-decene	1530-27-4	0.28326	0.25729	843.78	0.28571	240.61	843.78	1,2	298.15	0.9391
33343	C22H30	1,1-diphenyldecane	1530-07-0	0.25696	0.23181	822.00	0.28571	276.15	822.00	1,2	298.15	0.9291
33361	C22H32	1-dodecylnaphthalene	26438-28-8	0.27415	0.25411	854.65	0.28571	301.15	854.65	1,2	676.15	0.6582
33362	C22H32	2-dodecylnaphthalene	60899-39-0	0.27415	0.25654	862.23	0.28571	305.15	862.23	1,2	682.15	0.6542
33401	C22H38	1-phenylhexadecane	1459-09-2	0.25210	0.24940	808.00	0.28571	300.16	808.00	1,2	651.16	0.6014
33425	C22H42	1,1-dicyclohexyldecane	62155-20-8	0.27047	0.27786	812.16	0.28571	351.96	812.16	2	640.15	0.6153
33426	C22H42	1-docosyne	61847-82-3	0.24935	0.25188	793.12	0.28571	318.15	793.12	2	639.15	0.5911
33431	C22H42O2	cis-13-docosenoic acid	112-86-7	0.25767	0.25896	996.00	0.28571	307.85	996.00	1,2	665.00	0.6908
33432	C22H42O2	trans-13-docosenoic acid	506-33-2	0.25767	0.25917	996.00	0.28571	335.05	996.00	1,2	665.00	0.6904
33433	C22H42O2	13-docosenoic acid	1072-39-5	0.25767	0.26641	996.00	0.28571	307.85	996.00	1,2	665.00	0.6767
33454	C22H44	heptadecylcyclopentane	62016-52-8	0.25535	0.26821	808.79	0.28571	300.15	808.79	2	650.15	0.5834
33455	C22H44	hexadecylcyclohexane	6812-38-0	0.25710	0.26482	813.42	0.28571	306.76	813.42	1,2	652.16	0.5936
33456	C22H44	1-docosene	1599-67-3	0.24717	0.26290	790.73	0.28571	310.95	790.73	1,2	640.15	0.5679
33457	C22H44Br2	1,1-dibromodocosane	62168-39-2	0.33807	0.25829	868.14	0.28571	441.80	868.14	2	707.15	0.7803
33458	C22H44Cl2	1,1-dichlorodocosane	62017-24-7	0.27914	0.25875	846.62	0.28571	382.04	846.62	2	689.15	0.6441
33459	C22H44F2	1,1-difluorodocosane	62127-11-1	0.26712	0.25602	766.65	0.28571	386.50	766.65	2	624.15	0.6203
33460	C22H44I2	1,1-diiododocosane	66326-05-4	0.39124	0.26973	1092.78	0.28571	438.32	1092.78	2	888.60	0.8807
33462	C22H44O	cis-13-docosen-1-ol	629-98-1	0.26044	0.26105	811.00	0.28571	308.15	811.00	1,2	652.58	0.6047
33463	C22H44O2	eicosyl acetate	822-24-2	0.25589	0.25197	794.70	0.28571	313.15	794.70	2	650.00	0.5971
33464	C22H44O2	nonadecyl propanoate	66326-06-5	0.25589	0.25218	797.30	0.28571	379.53	797.30	2	760.98	0.4525
33465	C22H44O2	octadecyl butanoate	13373-83-6	0.25589	0.25217	797.20	0.28571	379.53	797.20	2	760.98	0.4523
33466	C22H44O2	butyl stearate	123-95-5	0.29852	0.29800	764.00	0.28570	299.45	764.00	1,2	623.15	0.6300
33467	C22H44O2	isobutyl stearate	646-13-9	0.30001	0.30252	764.00	0.28571	302.05	764.00	1,2	726.52	0.4972
33468	C22H44O2	docosanoic acid	112-85-6	0.26767	0.26783	846.00	0.28571	354.65	846.00	1,2	726.52	0.5684
33469	C22H44O2	ethyl eicosanoate	18281-05-5	0.30151	0.30184	764.00	0.28571	323.15	764.00	2	726.52	0.5002
33470	C22H44O2	methyl heneicosanoate	6064-90-0	0.30302	0.30361	764.00	0.28571	322.15	764.00	2	726.52	0.5015
33473	C22H45Br	1-bromodocosane	6938-66-5	0.29297	0.25746	837.39	0.28571	317.45	837.39	2	681.15	0.6785
33474	C22H45Cl	1-chlorodocosane	42217-03-8	0.26210	0.25734	821.75	0.28571	318.15	821.75	2	668.15	0.6075
33475	C22H45F	1-fluorodocosane	62126-79-8	0.25562	0.25610	783.55	0.28571	319.15	783.55	2	637.15	0.5942
33476	C22H45I	1-iododocosane	62127-53-1	0.33930	0.27518	858.41	0.28571	321.95	858.41	2	701.15	0.7510

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
33477	C22H46	docosane	629-97-0	0.23400	0.24750	787.00	0.28571	317.55	787.00	1,2	337.15	0.7693
33479	C22H46O	1-docosanol	661-19-8	0.26540	0.27155	811.60	0.28571	345.65	811.60	2	653.00	0.6012
33483	C22H47N	docosylamine	14130-06-4	0.25115	0.25983	834.97	0.28571	336.15	834.97	2	680.15	0.5776
33484	C22H47N	methylheneicosylamine	66326-08-7	0.25000	0.25624	803.02	0.28571	321.15	803.02	2	654.15	0.5798
33485	C22H47N	ethyleicosylamine	66326-07-6	0.25000	0.25651	806.70	0.28571	389.86	806.70	2	657.15	0.5795
33486	C22H47N	diundecylamine	16165-33-6	0.25000	0.25633	804.24	0.28571	315.15	804.24	2	655.15	0.5797
33487	C22H47N	dimethyleicosylamine	45275-74-9	0.24942	0.25552	802.46	0.28571	306.15	802.46	2	652.15	0.5809
33488	C22H47N	diethyloctadecylamine	30427-51-1	0.24942	0.25295	769.24	0.28571	369.67	769.24	2	625.15	0.5846
33607	C23H30	1,1-diphenyl-1-undecene	1530-28-5	0.28157	0.25748	850.03	0.28571	235.51	850.03	1,2	298.15	0.9342
33633	C23H32	1,1-diphenylundecane	1530-08-1	0.25496	0.23134	827.90	0.28571	294.15	827.90	1,2	298.15	0.9249
33674	C23H40	heptadecylbenzene	14752-75-1	0.26044	0.25987	823.00	0.28571	305.15	823.00	1,2	662.15	0.6065
33677	C23H44	1,1-dicyclohexylundecane	62155-21-9	0.26953	0.27685	818.57	0.28571	363.23	818.57	2	650.15	0.6104
33678	C23H44	1-tricosyne	61847-83-4	0.24940	0.25244	804.42	0.28571	322.15	804.42	2	651.15	0.5877
33684	C23H46	octadecylcyclopentane	62016-53-9	0.25514	0.26386	819.70	0.28571	303.15	819.70	1,2	662.15	0.5861
33685	C23H46	heptadecylcyclohexane	19781-73-8	0.25676	0.26475	823.97	0.28571	310.95	823.97	1,2	664.15	0.5899
33686	C23H46	1-tricosene	18835-32-0	0.24731	0.25505	802.72	0.28571	314.75	802.72	2	652.15	0.5769
33687	C23H46	cis-9-tricosene	27519-02-4	0.24731	0.25949	802.72	0.28571	273.15	802.72	1,2	298.15	0.8060
33688	C23H46Br2	1,1-dibromotricosane	62168-40-5	0.33467	0.25863	878.87	0.28571	453.07	878.87	2	717.15	0.7704
33689	C23H46Cl2	1,1-dichlorotricosane	62017-25-8	0.27801	0.25903	857.18	0.28571	393.31	857.18	2	699.15	0.6396
33690	C23H46F2	1,1-difluorotricosane	62127-12-2	0.26643	0.25647	778.63	0.28571	397.77	778.63	2	635.15	0.6167
33691	C23H46I2	1,1-diiodotricosane	66325-82-4	0.38596	0.27025	1118.27	0.28571	449.59	1118.27	2	911.48	0.8657
33694	C23H46O	12-tricosanone	540-09-0	0.27639	0.28341	794.72	0.28571	343.35	794.72	1,2	673.00	0.5779
33695	C23H46O2	eicosyl propanoate	65591-14-2	0.25530	0.24500	804.30	0.28571	390.80	804.30	2	783.86	0.4178
33696	C23H46O2	nonadecyl butanoate	84869-42-1	0.25530	0.24499	804.20	0.28571	390.80	804.20	2	783.86	0.4175
33697	C23H46O2	isopentyl stearate	627-88-3	0.28991	0.29151	798.00	0.28571	298.65	798.00	1,2	783.86	0.4279
33698	C23H46O2	pentyl stearate	6382-13-4	0.29138	0.28442	798.00	0.28571	303.15	798.00	2	783.86	0.4335
33699	C23H46O2	methyl docosanoate	929-77-1	0.29287	0.28608	798.00	0.28571	327.15	798.00	2	783.86	0.4349
33700	C23H46O2	tricosanoic acid	2433-96-7	0.26663	0.26106	858.00	0.28571	352.65	858.00	2	783.86	0.5196
33701	C23H46O2	isostearyl neopentanoate	58958-60-4	0.29437	0.28776	798.00	0.28571	309.65	798.00	2	783.86	0.4363
33702	C23H47Br	1-bromotricosane	62108-44-5	0.29125	0.25778	847.76	0.28571	325.85	847.76	2	691.15	0.6725
33703	C23H47Cl	1-chlorotricosane	62016-77-7	0.26162	0.25764	832.05	0.28571	324.15	832.05	2	678.15	0.6044
33704	C23H47F	1-fluorotricosane	62126-80-1	0.25540	0.25652	795.19	0.28571	327.15	795.19	2	648.15	0.5916
33705	C23H47I	1-iodotricosane	62127-54-2	0.33559	0.27498	872.37	0.28571	328.35	872.37	2	712.15	0.7436
33706	C23H48	tricosane	638-67-5	0.23404	0.24832	796.00	0.28571	324.05	796.00	1,2	340.65	0.7674
33707	C23H48	9-hexylheptadecane	55124-79-3	0.23404	0.24758	803.12	0.28571	253.75	803.12	1,2	298.15	0.7949
33708	C23H48O	1-tricosanol	3133-01-5	0.26350	0.26972	821.60	0.28571	348.15	821.60	2	664.00	0.5968
33710	C23H49N	tricosylamine	14130-07-5	0.25113	0.26014	846.99	0.28571	337.15	846.99	2	691.15	0.5760
33711	C23H49N	methyldocosylamine	66375-05-1	0.25002	0.25669	815.11	0.28571	324.15	815.11	2	665.15	0.5782
33712	C23H49N	ethylheneicosylamine	66375-04-0	0.25002	0.25695	818.78	0.28571	401.13	818.78	2	668.15	0.5778
33713	C23H49N	dimethylheneicosylamine	66375-03-9	0.24947	0.25597	813.93	0.28571	380.94	813.93	2	663.15	0.5789
33714	C23H49N	diethylnonadecylamine	66375-02-8	0.24947	0.25349	780.79	0.28571	380.94	780.79	2	636.15	0.5824
33887	C24H32	1,1-diphenyl-1-dodecene	1530-29-6	0.28005	0.25767	856.93	0.28571	230.41	856.93	1,2	298.15	0.9299
33906	C24H34	1,1-diphenyldodecane	1603-53-8	0.25297	0.23067	832.80	0.28571	283.15	832.80	1,2	298.15	0.9211
33924	C24H38O4	diisooctyl phthalate	27554-26-3	0.27500	0.23671	851.00	0.28571	250.00	851.00	1,2	298.15	0.9830
33925	C24H38O4	dioctyl phthalate	117-84-0	0.30750	0.25049	806.00	0.38451	223.15	806.00	1,2	298.15	0.9800
33931.1	C24H38O4	heptyl nonyl phthalate	19295-81-9	0.30753	0.26852	841.00	0.28571	240.00	841.00	2	298.15	0.9813
33959	C24H42	octadecylbenzene	4445-07-2	0.26001	0.26002	832.72	0.28571	309.15	832.72	1,2	673.15	0.6023
33960	C24H42O	dinonylphenol	1323-65-5	0.28410	0.27650	886.00	0.28571	330.00	886.00	2	722.00	0.6284
33967	C24H46	1,1-dicyclohexyldodecane	18254-57-4	0.26867	0.27601	825.63	0.28571	374.50	825.63	2	660.15	0.6059
33968	C24H46	1-tetracosyne	61847-84-5	0.24944	0.25295	815.11	0.28571	325.15	815.11	2	662.15	0.5849
33970	C24H46O2	cis-15-tetracosenoic acid	506-37-6	0.26004	0.25654	996.00	0.28571	316.15	996.00	2	680.00	0.6929
33971	C24H46O2	trans-15-tetracosenoic acid	14490-79-0	0.26004	0.25654	996.00	0.28571	334.15	996.00	2	680.00	0.6929
33983	C24H48	nonadecylcyclopentane	62016-54-0	0.25494	0.26516	829.99	0.28571	308.15	829.99	2	673.15	0.5815
33984	C24H48	octadecylcyclohexane	4445-06-1	0.25649	0.26473	833.93	0.28571	313.65	833.93	1,2	675.15	0.5867
33985	C24H48	1-tetracosene	10192-32-2	0.24744	0.25523	814.11	0.28571	318.45	814.11	2	663.15	0.5753
33986	C24H48Br2	1,1-dibromotetracosane	62168-03-0	0.33152	0.25894	889.11	0.28571	464.34	889.11	2	726.15	0.7619
33987	C24H48Cl2	1,1-dichlorotetracosane	62017-26-9	0.27696	0.25937	868.44	0.28571	404.58	868.44	2	709.15	0.6360
33988	C24H48F2	1,1-difluorotetracosane	62127-13-3	0.26580	0.25678	788.81	0.28571	409.04	788.81	2	644.15	0.6141
33989	C24H48I2	1,1-diiodotetracosane	66374-96-7	0.38106	0.27078	1144.63	0.28571	460.86	1144.63	2	934.36	0.8524
33990	C24H48O2	eicosyl butanoate	41927-66-6	0.25476	0.24512	810.70	0.28571	402.07	810.70	2	806.74	0.3464
33991	C24H48O2	ethyl docosanoate	5908-87-2	0.28697	0.28106	815.00	0.28571	323.15	815.00	2	806.74	0.4039
33992	C24H48O2	tetracosanoic acid	557-59-5	0.26480	0.26513	870.00	0.28571	360.65	870.00	1,2	806.74	0.4961
33993	C24H48O2	hexadecyl 2-ethylhexanoate	59130-69-7	0.28846	0.28272	815.00	0.28571	323.15	815.00	2	806.74	0.4054
33994	C24H48O2	octyl palmitate	29806-73-3	0.28996	0.28440	815.00	0.28571	323.15	815.00	2	806.74	0.4068
33998	C24H49Br	1-bromotetracosane	6946-24-3	0.28967	0.25814	858.84	0.28571	323.85	858.84	2	701.15	0.6672
33999	C24H49Cl	1-chlorotetracosane	6422-18-0	0.26119	0.25800	843.04	0.28571	325.15	843.04	2	688.15	0.6019
34000	C24H49F	1-fluorotetracosane	62126-81-2	0.25521	0.25690	806.26	0.28571	326.15	806.26	2	658.15	0.5897
34001	C24H49I	1-iodotetracosane	62127-55-3	0.33218	0.27480	885.88	0.28571	327.85	885.88	2	722.15	0.7374
34002	C24H50	tetracosane	646-31-1	0.23408	0.24716	804.00	0.28571	324.05	804.00	1,2	343.75	0.7708
34003	C24H50	2-methyltricosane	1928-30-9	0.23408	0.25049	814.95	0.28571	310.75	814.95	1,2	330.75	0.7717
34004	C24H50O	2-decyl-1-tetradecanol	58670-89-6	0.26064	0.26414	831.60	0.28571	291.65	831.60	1,2	298.15	0.8420
34005	C24H50O	tetracosanol	506-51-4	0.24703	0.25169	841.60	0.28571	349.15	841.60	2	675.00	0.5887
34008	C24H50S	dodecyl sulfide	2469-45-6	0.26218	0.26503	876.33	0.28571	312.65	876.33	2	680.00	0.6233
34012	C24H51N	tetracosylamine	14130-08-6	0.25110	0.26051	859.72	0.28571	340.15	859.72	2	702.15	0.5749
34013	C24H51N	methyltricosylamine	66374-99-0	0.25004	0.25711	826.65	0.28571	326.15	826.65	2	675.15	0.5771
34014	C24H51N	ethyldocosylamine	66374-98-9	0.25004	0.25736	830.33	0.28571	412.40	830.33	2	678.15	0.5768
34015	C24H51N	didodecylamine	3007-31-6	0.25004	0.25720	827.88	0.28571	324.15	827.88	2	676.15	0.5770
34016	C24H51N	dimethyldocosylamine	21542-96-1	0.24951	0.25637	824.83	0.28571	317.15	824.83	2	673.15	0.5774
34017	C24H51N	diethyleicosylamine	66374-97-8	0.24951	0.25399	791.74	0.28571	392.21	791.74	2	646.15	0.5807
34018	C24H51N	trioctylamine	1116-76-3	0.24951	0.25872	772.14	0.28571	238.55	772.14	1,2	298.15	0.8088

Table 3 Density of Liquid - Organic Compounds

			density = A B^-(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
34019	C24H51N	triisooctylamine	2757-28-0	0.24996	0.25650	819.04	0.28571	315.97	819.04	2	668.72	0.5780
34140	C25H34	1,1-diphenyl-1-tridecene	62155-37-7	0.27867	0.25788	863.24	0.28571	225.31	863.24	1,2	298.15	0.9259
34150	C25H36	1,1-diphenyltridecane	62155-14-0	0.25042	0.22711	838.00	0.28571	300.15	838.00	2	668.15	0.6407
34171	C25H44	nonadecylbenzene	29136-19-4	0.25960	0.26019	841.84	0.28571	313.15	841.84	1,2	683.15	0.5988
34172	C25H44	(3-octylundecyl)benzene	5637-96-7	0.25960	0.25967	841.84	0.28571	246.45	841.84	1,2	298.15	0.8533
34173	C25H44	9-(4-tolyl)octadecane	4445-08-3	0.25960	0.25461	841.84	0.28571	233.15	841.84	1,2	298.15	0.8683
34178	C25H48	1,1-dicyclohexyltridecane	62155-22-0	0.26789	0.27532	833.34	0.28571	385.77	833.34	2	670.15	0.6019
34179	C25H48	1-pentacosyne	61847-85-6	0.24949	0.25341	825.22	0.28571	328.15	825.22	2	672.15	0.5827
34182	C25H50	eicosylcyclopentane	22331-38-0	0.25476	0.26394	839.72	0.28571	311.15	839.72	1,2	683.15	0.5809
34183	C25H50	nonadecylcyclohexane	22349-03-7	0.25625	0.26469	843.31	0.28571	318.35	843.31	1,2	685.15	0.5841
34184	C26H52	heneicosylcyclopentane	6703-82-8	0.25459	0.26405	850.13	0.28571	315.15	850.13	1,2	693.15	0.5791
34185	C25H50	1-pentacosene	16980-85-1	0.24756	0.25575	826.16	0.28571	321.85	826.16	2	674.15	0.5738
34186	C25H50	9-octyl-8-heptadecene	24306-18-1	0.24756	0.26145	826.16	0.28571	233.15	826.16	1,2	298.15	0.8060
34187	C25H50Br2	1,1-dibromopentacosane	62168-04-1	0.32860	0.25936	901.35	0.28571	475.61	901.35	2	736.15	0.7544
34188	C25H50Cl2	1,1-dichloropentacosane	62017-27-0	0.27599	0.25976	880.46	0.28571	415.85	880.46	2	719.15	0.6330
34189	C25H50F2	1,1-difluoropentacosane	62127-14-4	0.26521	0.25725	800.89	0.28571	420.31	800.89	2	654.15	0.6119
34190	C25H50I2	1,1-diiodopentacosane	66359-84-0	0.37651	0.27131	1171.95	0.28571	472.13	1171.95	2	957.24	0.8407
34192	C25H50O2	methyl tetracosanoate	2442-49-1	0.28239	0.27728	830.00	0.28571	334.15	830.00	2	817.00	0.4176
34193	C25H51Br	1-bromopentacosane	62108-45-6	0.28820	0.25848	869.43	0.28571	331.45	869.43	2	710.15	0.6630
34194	C25H51Cl	1-chloropentacosane	62016-78-8	0.26078	0.25840	854.75	0.28571	330.15	854.75	2	698.15	0.6000
34195	C25H51F	1-fluoropentacosane	62126-82-3	0.25502	0.25734	818.02	0.28571	333.15	818.02	2	668.15	0.5883
34196	C25H51I	1-iodopentacosane	62127-56-4	0.32904	0.27465	899.00	0.28571	333.75	899.00	2	731.15	0.7323
34197	C25H52	pentacosane	629-99-2	0.23411	0.24702	812.00	0.28571	326.85	812.00	1,2	346.65	0.7716
34198	C25H52	9-octylheptadecane	7225-64-1	0.23411	0.24774	826.84	0.28571	259.35	826.84	1,2	298.15	0.7994
34199	C25H53N	pentacosylamine	14130-09-7	0.25108	0.26085	871.97	0.28571	341.15	871.97	2	712.15	0.5744
34200	C25H53N	methyltetracosylamine	66359-78-2	0.25005	0.25750	837.69	0.28571	327.15	837.69	2	684.15	0.5766
34201	C25H53N	ethyltricosylamine	66359-77-1	0.25005	0.25782	842.59	0.28571	423.67	842.59	2	688.15	0.5762
34202	C25H53N	dimethyltricosylamine	66359-76-0	0.24954	0.25682	836.42	0.28571	403.48	836.42	2	683.15	0.5764
34203	C25H53N	diethylheneicosylamine	66359-75-9	0.24954	0.25453	803.37	0.28571	403.48	803.37	2	656.15	0.5796
34221	C26H20	tetraphenylethylene	632-51-9	0.32590	0.24644	996.00	0.28571	496.15	996.00	1,2	693.20	0.8830
34296	C26H36	1,1-diphenyl-1-tetradecene	62155-38-8	0.27741	0.25798	868.99	0.28571	220.21	868.99	1,2	298.15	0.9225
34302	C26H38	1,1-diphenyltetradecane	55268-63-8	0.24794	0.22770	842.20	0.28571	291.15	842.20	1,2	298.15	0.9153
34319.1	C26H42O4	heptyl undecyl phthalate	65185-88-8	0.30556	0.27407	878.00	0.28571	240.00	878.00	2	298.15	0.9647
34326	C26H46	eicosylbenzene	2398-68-7	0.25923	0.26038	851.65	0.28571	317.15	851.65	1,2	693.15	0.5959
34327	C26H46	(1-butylhexadecyl)benzene	2400-04-6	0.25923	0.26025	851.65	0.28571	303.35	851.65	1,2	693.15	0.5961
34328	C26H46	(1-ethyloctadecyl)benzene	2400-02-4	0.25923	0.26035	851.65	0.28571	302.45	851.65	1,2	693.15	0.5959
34329	C26H46	(1-methylnonadecyl)benzene	2398-66-5	0.25923	0.26032	851.65	0.28571	302.15	851.65	1,2	693.15	0.5960
34330	C26H46	(1-octyldodecyl)benzene	2398-65-4	0.25923	0.26076	851.65	0.28571	291.05	851.65	1,2	298.15	0.8508
34331	C26H46	(1-propylheptadecyl)benzene	2400-03-5	0.25923	0.26035	851.65	0.28571	304.55	851.65	1,2	693.15	0.5959
34338	C26H50	1,1-dicyclohexyltetradecane	55334-08-2	0.26717	0.26209	840.47	0.28571	310.75	840.47	1,2	679.15	0.6161
34339	C26H50	1-hexacosyne	61847-86-7	0.24952	0.25392	836.00	0.28571	330.15	836.00	2	682.15	0.5810
34348	C26H52	eicosylcyclohexane	4443-55-4	0.25602	0.26477	853.38	0.28571	321.65	853.38	1,2	695.15	0.5819
34349	C26H52	1-hexacosene	18835-33-1	0.24767	0.25622	837.68	0.28571	324.95	837.68	2	684.15	0.5729
34350	C26H52	3-cyclohexyleicosane	4443-57-6	0.25602	0.26705	853.38	0.28571	295.88	853.38	2	298.15	0.8230
34351	C26H52	9-cyclohexyleicosane	4443-61-2	0.25602	0.26705	853.38	0.28571	314.00	853.38	2	689.65	0.5835
34352	C26H52Br2	1,1-dibromohexacosane	62168-05-2	0.32588	0.25969	911.94	0.28571	486.88	911.94	2	744.15	0.7483
34353	C26H52Cl2	1,1-dichlorohexacosane	62017-28-1	0.27509	0.26012	892.02	0.28571	427.12	892.02	2	728.15	0.6308
34354	C26H52F2	1,1-difluorohexacosane	62127-15-5	0.26467	0.25768	812.45	0.28571	431.58	812.45	2	663.15	0.6105
34355	C26H52I2	1,1-diiodohexacosane	66291-94-9	0.37226	0.27185	1200.28	0.28571	483.40	1200.28	2	980.12	0.8304
34356	C26H52O2	hexacosanoic acid	506-46-7	0.26813	0.27141	894.00	0.28571	361.65	894.00	1,2	832.74	0.4917
34357	C26H52O2	hexadecyl neodecanoate	67749-11-5	0.27401	0.26918	845.00	0.28571	400.00	845.00	2	827.00	0.4242
34358	C26H52O2	octyl stearate	22047-49-0	0.27546	0.27080	845.00	0.28571	400.00	845.00	2	827.00	0.4256
34360	C26H53Br	1-bromohexacosane	4276-51-1	0.28684	0.25894	881.99	0.28571	329.55	881.99	2	720.15	0.6594
34361	C26H53Cl	1-chlorohexacosane	56134-53-3	0.26041	0.25878	865.98	0.28571	331.15	865.98	2	707.15	0.5988
34362	C26H53F	1-fluorohexacosane	62126-83-4	0.25486	0.25774	829.26	0.28571	332.15	829.26	2	677.15	0.5875
34363	C26H53I	1-iodohexacosane	52644-81-2	0.32612	0.27459	912.99	0.28571	333.05	912.99	2	740.15	0.7282
34364	C26H54	hexacosane	630-01-3	0.23414	0.24797	819.00	0.28571	329.55	819.00	1,2	349.55	0.7692
34365	C26H54	5-butyldocosane	55282-16-1	0.23414	0.24724	839.06	0.28571	481.15	839.06	1,2	501.15	0.6878
34366	C26H54	7-butyldocosane	55282-15-0	0.23414	0.24766	839.06	0.28571	274.75	839.06	1,2	298.15	0.8020
34367	C26H54	9-butyldocosane	55282-14-9	0.23414	0.24773	839.06	0.28571	273.85	839.06	1,2	298.15	0.8018
34368	C26H54	11-butyldocosane	13475-76-8	0.23414	0.24783	839.06	0.28571	299.23	839.06	1,2	319.23	0.7904
34369	C26H54	11-(2,2-dimethylpropyl)heneicosane	55282-10-5	0.23414	0.24818	839.06	0.28571	252.15	839.06	1,2	298.15	0.8005
34370	C26H54	6,11-dipentylhexadecane	15874-03-0	0.23414	0.24676	839.06	0.28571	256.95	839.06	1,2	298.15	0.8046
34371	C26H54	3-ethyl-5-(2-ethylbutyl)octadecane	55282-12-7	0.23414	0.24528	839.06	0.28571	222.15	839.06	1,2	298.15	0.8089
34372	C26H54	3-ethyltetracosane	55282-17-2	0.23414	0.24738	839.06	0.28571	303.25	839.06	1,2	323.25	0.7895
34373	C26H54O	1-hexacosanol	506-52-5	0.25201	0.25759	851.60	0.28571	353.15	851.60	2	697.00	0.5797
34377	C26H55N	hexacosylamine	14130-10-0	0.25106	0.26124	884.99	0.28571	344.15	884.99	2	722.15	0.5744
34378	C26H55N	methylpentacosylamine	66291-92-7	0.25007	0.25802	850.70	0.28571	329.15	850.70	2	694.15	0.5765
34379	C26H55N	ethyltetracosylamine	66291-91-6	0.25007	0.25832	855.60	0.28571	434.94	855.60	2	698.15	0.5761
34380	C26H55N	ditridecylamine	5910-75-8	0.25007	0.25809	851.92	0.28571	329.65	851.92	2	695.15	0.5764
34381	C26H55N	dimethyltetracosylamine	66291-90-5	0.24958	0.25732	848.75	0.28571	322.15	848.75	2	693.15	0.5758
34382	C26H55N	diethyldocosylamine	66291-89-2	0.24958	0.25502	814.46	0.28571	414.75	814.46	2	665.15	0.5790
34464	C27H38	1,1-diphenyl-1-pentadecene	62155-39-9	0.27627	0.25820	875.43	0.28571	215.11	875.43	1,2	298.15	0.9192
34475	C27H40	1,1-diphenylpentadecane	62155-15-1	0.24520	0.22390	846.70	0.28571	306.15	846.70	2	684.15	0.6239
34536	C27H48	heneicosylbenzene	40775-09-5	0.25889	0.26056	860.93	0.28571	321.15	860.93	1,2	702.15	0.5936
34537	C27H48	11-phenylheneicosane	6703-80-6	0.25889	0.26104	860.93	0.28571	293.95	860.93	1,2	298.15	0.8505
34547	C27H52	1,1-dicyclohexylpentadecane	62155-23-1	0.26651	0.27416	848.27	0.28571	408.31	848.27	2	688.15	0.5953
34548	C27H52	1-heptacosyne	61847-87-8	0.24956	0.25446	847.49	0.28571	333.15	847.49	2	692.15	0.5797
34549	C27H54	docosylcyclopentane	62016-55-1	0.25443	0.26422	861.25	0.28571	318.15	861.25	1,2	703.15	0.5777
34550	C27H54	heneicosylcyclohexane	26718-82-1	0.25581	0.26706	864.14	0.28571	324.65	864.14	2	705.15	0.5773

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
34551	C27H54	(1-decylundecyl)cyclohexane	6703-99-7	0.25581	0.26706	864.14	0.28571	272.60	864.14	2	298.15	0.8242
34552	C27H54	1-heptacosene	15306-27-1	0.24778	0.25673	849.93	0.28571	327.85	849.93	2	694.15	0.5724
34553	C27H54Br2	1,1-dibromoheptacosane	62168-06-3	0.32335	0.26013	924.58	0.28571	498.15	924.58	2	753.15	0.7430
34554	C27H54Cl2	1,1-dichloroheptacosane	62017-29-2	0.27425	0.26053	904.39	0.28571	438.39	904.39	2	737.15	0.6292
34555	C27H54F2	1,1-difluoroheptacosane	62127-16-6	0.26417	0.25815	824.74	0.28571	442.85	824.74	2	672.15	0.6096
34556	C27H54I2	1,1-diiodoheptacosane	66291-84-7	0.36829	0.27239	1229.70	0.28571	494.67	1229.70	2	1003.00	0.8215
34557	C27H54O	14-heptacosanone	542-50-7	0.30985	0.32891	822.72	0.28571	350.65	822.72	1,2	733.00	0.5592
34558	C27H54O2	methyl hexacosanoate	5802-82-4	0.26933	0.26516	860.00	0.28571	336.95	860.00	2	837.00	0.4316
34559	C27H55Br	1-bromoheptacosane	62108-46-7	0.28558	0.25936	894.13	0.28571	336.55	894.13	2	729.15	0.6567
34560	C27H55Cl	1-chloroheptacosane	62016-79-9	0.26006	0.25920	877.97	0.28571	335.15	877.97	2	716.15	0.5981
34561	C27H55F	1-fluoroheptacosane	62108-81-0	0.25470	0.25819	841.24	0.28571	338.15	841.24	2	686.15	0.5872
34562	C27H55I	1-iodoheptacosane	62127-57-5	0.32342	0.27421	920.45	0.28571	338.45	920.45	2	743.15	0.7257
34563	C27H56	heptacosane	593-49-7	0.23417	0.24810	826.00	0.28571	332.15	826.00	1,2	352.15	0.7692
34566	C27H57N	heptacosylamine	14130-11-1	0.25103	0.26167	898.82	0.28571	345.15	898.82	2	732.15	0.5748
34567	C27H57N	methylhexacosylamine	66291-81-4	0.25008	0.25849	863.26	0.28571	331.15	863.26	2	703.15	0.5770
34568	C27H57N	ethylpentacosylamine	66291-80-3	0.25008	0.25879	868.17	0.28571	446.21	868.17	2	707.15	0.5765
34569	C27H57N	dimethylpentacosylamine	66291-79-0	0.24961	0.25778	860.60	0.28571	426.02	860.60	2	702.15	0.5758
34570	C27H57N	diethyltricosylamine	66291-86-9	0.24961	0.25556	826.28	0.28571	426.02	826.28	2	674.15	0.5789
34571	C27H57N	trinonylamine	2044-22-6	0.24961	0.25392	802.99	0.28571	426.02	802.99	2	655.15	0.5812
34663	C28H40	1,1-diphenyl-1-hexadecene	13456-25-2	0.27521	0.25835	881.36	0.28571	210.01	881.36	1,2	298.15	0.9163
34677	C28H42	1,1-diphenylhexadecane	13456-23-0	0.24334	0.22290	850.10	0.28571	299.15	850.10	2	691.15	0.6166
34691	C28H46O4	diisodecyl phthalate	26761-40-0	0.30590	0.27227	887.00	0.28600	227.59	887.00	1,2	298.15	0.9730
34704	C28H50	docosylbenzene	5634-22-0	0.25858	0.26083	870.93	0.28571	324.15	870.93	1,2	711.15	0.5917
34712	C28H54	1,1-dicyclohexylhexadecane	13287-09-7	0.26590	0.27375	856.76	0.28571	419.58	856.76	2	697.15	0.5927
34713	C28H54	1-octacosyne	61847-88-9	0.24959	0.25497	858.49	0.28571	335.15	858.49	2	701.15	0.5791
34716	C28H56	tricosylcyclopentane	62016-56-2	0.25429	0.26536	871.87	0.28571	322.15	871.87	2	712.15	0.5756
34717	C28H56	docosylcyclohexane	61828-07-7	0.25562	0.26498	874.41	0.28571	327.55	874.41	1,2	714.15	0.5791
34718	C28H56	1-octacosene	18835-34-2	0.24787	0.25720	861.70	0.28571	330.65	861.70	2	703.15	0.5725
34719	C28H56Br2	1,1-dibromooctacosane	62168-07-4	0.32098	0.26054	936.86	0.28571	509.42	936.86	2	761.15	0.7389
34720	C28H56Cl2	1,1-dichlorooctacosane	62017-30-5	0.27346	0.26097	917.60	0.28571	449.66	917.60	2	746.15	0.6283
34721	C28H56F2	1,1-difluorooctacosane	62127-17-7	0.26370	0.25859	836.58	0.28571	454.12	836.58	2	680.15	0.6094
34722	C28H56I2	1,1-diiodooctacosane	66291-74-5	0.36457	0.27294	1260.30	0.28571	505.94	1260.30	2	1025.88	0.8138
34723	C28H56O2	octacosanoic acid	506-48-9	0.26981	0.27555	918.00	0.28571	364.05	918.00	1,2	858.74	0.4863
34728	C28H57Br	1-bromooctacosane	16331-21-8	0.28440	0.25976	905.86	0.28571	334.55	905.86	2	737.15	0.6548
34729	C28H57Cl	1-chlorooctacosane	62016-80-2	0.25974	0.25966	890.78	0.28571	336.15	890.78	2	725.15	0.5979
34730	C28H57F	1-fluorooctacosane	62108-82-1	0.25455	0.25868	854.00	0.28571	337.15	854.00	2	695.15	0.5874
34731	C28H57I	1-iodooctacosane	62154-80-7	0.32090	0.27468	943.74	0.28571	337.75	943.74	2	758.15	0.7227
34732	C28H58	octacosane	630-02-4	0.23420	0.24655	832.00	0.28571	337.65	832.00	1,2	354.35	0.7736
34733	C28H58	2,2,4,10,12,12-hexamethyl-7-(3,5,5-trimethylhexyl)tridecane	3035-75-4	0.23420	0.24937	864.27	0.28571	301.25	864.27	1,2	321.25	0.7902
34734	C28H58	7-hexyldocosane	55373-86-9	0.23420	0.24808	864.27	0.28571	292.45	864.27	1,2	298.15	0.8055
34735	C28H58	9-octyleicosane	13475-77-9	0.23420	0.24825	864.27	0.28571	273.65	864.27	1,2	298.15	0.8050
34737	C28H58O	1-octacosanol	557-61-9	0.25496	0.26118	861.60	0.28571	356.55	861.60	2	719.00	0.5691
34738	C28H59N	octacosylamine	14130-12-2	0.25102	0.26208	912.27	0.28571	348.15	912.27	2	741.15	0.5757
34739	C28H59N	methylheptacosylamine	66291-78-9	0.25010	0.25894	875.40	0.28571	332.15	875.40	2	711.15	0.5780
34740	C28H59N	ethylhexacosylamine	66291-77-8	0.25010	0.25930	881.56	0.28571	457.48	881.56	2	716.15	0.5775
34741	C28H59N	ditetradecylamine	17361-44-3	0.25010	0.25908	877.86	0.28571	333.77	877.86	2	713.15	0.5778
34742	C28H59N	dimethylhexacosylamine	66291-76-7	0.24964	0.25828	873.23	0.28571	328.15	873.23	2	711.15	0.5763
34743	C28H59N	diethyltetracosylamine	66291-75-6	0.24964	0.25614	838.85	0.28571	437.29	838.85	2	683.15	0.5793
34812	C29H52	tricosylbenzene	61828-04-4	0.25829	0.26105	880.45	0.28571	327.15	880.45	1,2	719.15	0.5906
34814	C29H56	1-nonacosyne	61847-89-0	0.24962	0.25551	870.24	0.28571	338.15	870.24	2	710.15	0.5789
34815	C29H58	tetracosylcyclopentane	62016-57-3	0.25416	0.26544	882.04	0.28571	324.15	882.04	2	720.15	0.5754
34816	C29H58	tricosylcyclohexane	61828-08-8	0.25543	0.26508	884.21	0.28571	330.15	884.21	1,2	722.15	0.5786
34817	C29H58	1-nonacosene	18835-35-3	0.24796	0.25779	875.48	0.28571	323.15	875.48	2	713.15	0.5730
34818	C29H58Br2	1,1-dibromononacosane	62168-08-5	0.31876	0.26099	950.04	0.28571	520.69	950.04	2	769.15	0.7356
34819	C29H58Cl2	1,1-dichlorononacosane	62017-31-6	0.27273	0.26139	930.45	0.28571	460.93	930.45	2	754.15	0.6281
34820	C29H58F2	1,1-difluorononacosane	62127-18-8	0.26326	0.25908	849.23	0.28571	465.39	849.23	2	688.15	0.6098
34821	C29H58I2	1,1-diiodononacosane	66213-91-0	0.36108	0.27348	1292.15	0.28571	517.21	1292.15	2	1048.76	0.8074
34823	C29H59Br	1-bromononacosane	62108-47-8	0.28329	0.26027	919.68	0.28571	340.95	919.68	2	746.15	0.6535
34824	C29H59Cl	1-chlorononacosane	62016-81-3	0.25943	0.26009	903.20	0.28571	340.15	903.20	2	733.15	0.5984
34825	C29H59F	1-fluorononacosane	62108-83-2	0.25442	0.25914	866.34	0.28571	343.15	866.34	2	703.15	0.5882
34826	C29H59I	1-iodononacosane	62154-81-8	0.31855	0.27477	959.36	0.28571	342.65	959.36	2	766.15	0.7213
34827	C29H60	nonacosane	630-03-5	0.23423	0.24641	838.00	0.28571	336.85	838.00	1,2	356.85	0.7741
34828	C29H60O	1-nonacosanol	6624-76-6	0.24772	0.25323	871.60	0.28571	357.65	871.60	2	730.00	0.5609
34829	C29H61N	nonacosylamine	66213-93-2	0.25100	0.26253	926.61	0.28571	349.15	926.61	2	750.15	0.5772
34830	C29H61N	methyloctacosylamine	66213-97-6	0.25011	0.25950	889.63	0.28571	334.15	889.63	2	720.15	0.5793
34831	C29H61N	ethylheptacosylamine	66213-96-5	0.25011	0.25985	895.80	0.28571	468.75	895.80	2	725.15	0.5789
34832	C29H61N	dimethylheptacosylamine	66213-95-4	0.24967	0.25875	885.47	0.28571	448.56	885.47	2	719.15	0.5774
34833	C29H61N	diethylpentacosylamine	66213-94-3	0.24967	0.25667	850.99	0.28571	448.56	850.99	2	691.15	0.5803
34922.1	C30H48O6	tri-n-heptyl trimellitate	1528-48-9	0.31348	0.17886	1020.00	0.28571	339.00	1020.00	2	298.15	1.4907
34936	C30H54	tetracosylbenzene	61828-05-5	0.25801	0.26132	890.74	0.28571	330.15	890.74	1,2	727.15	0.5899
34940	C30H58	1-triacontyne	61847-90-3	0.24965	0.25608	882.79	0.28571	340.15	882.79	2	719.15	0.5792
34946	C30H60	pentacosylcyclopentane	62016-74-4	0.25403	0.26566	894.22	0.28571	327.15	894.22	2	729.15	0.5756
34947	C30H60	tetracosylcyclohexane	61828-09-9	0.25527	0.26533	896.02	0.28571	332.65	896.02	1,2	731.15	0.5784
34948	C30H60	1-triacontene	18435-53-5	0.24804	0.25827	887.64	0.28571	325.55	887.64	2	721.15	0.5741
34949	C30H60Br2	1,1-dibromotriacontane	62168-09-6	0.31667	0.26147	964.17	0.28571	531.96	964.17	2	777.15	0.7332
34950	C30H60Cl2	1,1-dichlorotriacontane	62017-32-7	0.27204	0.26185	944.23	0.28571	472.20	944.23	2	762.15	0.6284
34951	C30H60F2	1,1-difluorotriacontane	62127-19-9	0.26285	0.25961	862.72	0.28571	476.66	862.72	2	696.15	0.6106
34952	C30H60I2	1,1-diiodotriacontane	66213-98-7	0.35779	0.27403	1325.37	0.28571	528.48	1325.37	2	1071.64	0.8020
34954	C30H60O2	triacontanoic acid	506-50-3	0.26990	0.27093	942.00	0.28571	366.75	942.00	2	884.74	0.4853
34957	C30H61Br	1-bromotriacontane	4209-22-7	0.28226	0.26074	933.17	0.28571	338.95	933.17	2	754.15	0.6530

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
34958	C30H61Cl	1-chlorotriacontane	62016-82-4	0.25915	0.26057	916.50	0.28571	340.15	916.50	2	741.15	0.5994
34959	C30H61F	1-fluorotriacontane	62108-84-3	0.25429	0.25964	879.52	0.28571	342.15	879.52	2	711.15	0.5895
34960	C30H61I	1-iodotriacontane	62154-82-9	0.31636	0.27715	976.04	0.28571	281.85	976.04	1,2	298.15	1.0054
34961	C30H62	triacontane	638-68-6	0.23425	0.24633	844.00	0.28571	338.95	844.00	1,2	358.65	0.7748
34962	C30H62	2,6,10,15,19,23-hexamethyltetracosane	111-01-3	0.23425	0.24772	863.00	0.28571	235.15	863.00	1,2	298.15	0.8065
34963	C30H62	9-octyldocosane	55319-83-0	0.23425	0.24849	891.09	0.28571	281.75	891.09	1,2	298.15	0.8090
34964	C30H62O	1-triacontanol	593-50-0	0.23951	0.25324	881.60	0.28571	361.15	881.60	1,2	741.00	0.5399
34965	C30H63N	triacontylamine	66214-00-4	0.25098	0.26302	941.88	0.28571	351.15	941.88	2	759.15	0.5790
34966	C30H63N	methylnonacosylamine	66214-04-8	0.25012	0.26002	903.52	0.28571	335.15	903.52	2	728.15	0.5812
34967	C30H63N	ethyloctacosylamine	66214-03-7	0.25012	0.26036	909.72	0.28571	480.02	909.72	2	733.15	0.5808
34968	C30H63N	dipentadecylamine	35551-81-6	0.25012	0.26016	906.00	0.28571	336.45	906.00	2	730.15	0.5810
34969	C30H63N	dimethyloctacosylamine	66214-02-6	0.24969	0.25925	898.56	0.28571	333.15	898.56	2	727.15	0.5789
34970	C30H63N	diethylhexacosylamine	66214-01-5	0.24969	0.25732	865.20	0.28571	459.83	865.20	2	700.15	0.5816
34971	C30H63N	tri-N-decylamine	1070-01-5	0.24969	0.26104	839.25	0.28571	272.15	839.25	1,2	298.15	0.8165
35019	C31H56	pentacosylbenzene	61828-06-6	0.25776	0.26163	901.84	0.28571	332.15	901.84	1,2	735.15	0.5898
35020	C31H56	13-phenylpentacosane	6006-90-2	0.25776	0.26187	901.84	0.28571	304.85	901.84	1,2	735.15	0.5894
35023	C31H60	1-hentriacontyne	61847-91-4	0.24968	0.25668	896.17	0.28571	342.15	896.17	2	728.15	0.5800
35025	C31H62	hexacosylcyclopentane	62016-58-4	0.25392	0.26504	905.99	0.28571	329.15	905.99	1,2	737.15	0.5775
35026	C31H62	pentacosylcyclohexane	61828-10-2	0.25511	0.26554	907.42	0.28571	335.05	907.42	1,2	739.15	0.5788
35027	C31H62	1-hentriacontene	18435-54-6	0.24812	0.25760	901.89	0.28571	327.75	901.89	2	730.15	0.5773
35028	C31H62	13-cyclohexylpentacosane	6697-15-0	0.25392	0.26456	905.99	0.28571	270.20	905.99	2	298.15	0.8316
35029	C31H62Br2	1,1-dibromohentriacontane	62168-10-9	0.31471	0.26199	979.29	0.28571	543.23	979.29	2	785.15	0.7316
35030	C31H62Cl2	1,1-dichlorohentriacontane	62017-33-8	0.27139	0.26234	958.98	0.28571	483.47	958.98	2	770.15	0.6293
35031	C31H62F2	1,1-difluorohentriacontane	62127-20-2	0.26246	0.26018	877.11	0.28571	487.93	877.11	2	704.15	0.6120
35032	C31H62I2	1,1-diiodohentriacontane	66214-07-1	0.35470	0.27458	1360.04	0.28571	539.75	1360.04	2	1094.52	0.7977
35033	C31H62O	16-hentriacontanone	502-73-8	0.29269	0.31067	860.00	0.28571	356.95	860.00	1,2	813.00	0.4872
35034	C31H63Br	1-bromohentriacontane	62108-48-9	0.28129	0.26119	946.37	0.28571	344.85	946.37	2	761.15	0.6531
35035	C31H63Cl	1-chlorohentriacontane	62016-83-5	0.25888	0.26108	930.73	0.28571	344.15	930.73	2	749.15	0.6008
35036	C31H63F	1-fluorohentriacontane	62108-85-4	0.25417	0.26018	893.61	0.28571	347.15	893.61	2	719.15	0.5913
35037	C31H63I	1-iodohentriacontane	57094-91-4	0.31430	0.27513	993.86	0.28571	346.45	993.86	2	782.15	0.7205
35039	C31H64	hentriacontane	630-04-6	0.23427	0.25198	904.88	0.28571	341.05	904.88	1,2	361.05	0.7715
35040	C31H64	11-decylheneicosane	55320-06-4	0.23427	0.24918	904.88	0.28571	283.15	904.88	1,2	298.15	0.8092
35041	C31H65N	hentriacontylamine	66214-08-2	0.25097	0.26354	958.15	0.28571	352.15	958.15	2	768.15	0.5813
35042	C31H65N	methyltriacontylamine	66214-12-8	0.25013	0.26058	918.35	0.28571	336.15	918.35	2	736.15	0.5836
35043	C31H65N	ethylnonacosylamine	66214-11-7	0.25013	0.26091	924.58	0.28571	491.29	924.58	2	741.15	0.5831
35044	C31H65N	dimethylnonacosylamine	66214-10-6	0.24972	0.25980	912.56	0.28571	471.10	912.56	2	735.15	0.5808
35045	C31H65N	diethylheptacosylamine	66214-09-3	0.24972	0.25786	877.80	0.28571	471.10	877.80	2	707.15	0.5836
35105	C32H58	hexacosylbenzene	13024-80-1	0.25752	0.26202	913.77	0.28571	335.15	913.77	1,2	743.15	0.5901
35108	C32H62	1-dotriacontyne	61847-92-5	0.24970	0.25725	909.18	0.28571	344.15	909.18	2	736.15	0.5814
35111	C32H64	heptacosylcyclopentane	61827-90-5	0.25381	0.26613	918.63	0.28571	332.15	918.63	2	745.15	0.5776
35112	C32H64	hexacosylcyclohexane	61828-11-3	0.25496	0.26580	919.67	0.28571	337.15	919.67	1,2	747.15	0.5797
35113	C32H64	1-dotriacontene	18435-55-7	0.24819	0.25940	915.81	0.28571	329.85	915.81	2	738.15	0.5775
35114	C32H64Br2	1,1-dibromodotriacontane	62168-11-0	0.31286	0.26248	994.22	0.28571	554.50	994.22	2	792.15	0.7308
35115	C32H64Cl2	1,1-dichlorodotriacontane	62017-34-9	0.27078	0.26286	974.75	0.28571	494.74	974.75	2	778.15	0.6308
35116	C32H64F2	1,1-difluorodotriacontane	62127-21-3	0.26210	0.26072	891.19	0.28571	499.20	891.19	2	711.15	0.6140
35117	C32H64I2	1,1-diiododotriacontane	66214-13-9	0.35177	0.27513	1396.28	0.28571	551.02	1396.28	2	1117.40	0.7943
35118	C32H64O2	hexadecyl hexadecanoate	540-10-3	0.25069	0.21391	875.00	0.28571	327.15	875.00	1,2	500.00	0.8412
35119	C32H64O2	tetradecyl stearate	17661-50-6	0.25204	0.24775	875.00	0.28571	327.15	875.00	2	500.00	0.7536
35122	C32H65Br	1-bromodotriacontane	7596-92-1	0.28038	0.26174	961.80	0.28571	342.85	961.80	2	769.15	0.6538
35123	C32H65Cl	1-chlorodotriacontane	62016-84-6	0.25863	0.26162	945.94	0.28571	344.15	945.94	2	757.15	0.6027
35124	C32H65F	1-fluorodotriacontane	62108-86-5	0.25406	0.26076	908.63	0.28571	346.15	908.63	2	727.15	0.5934
35125	C32H65I	1-iododotriacontane	62154-83-0	0.31236	0.27533	1011.61	0.28571	345.55	1011.61	2	789.15	0.7212
35126	C32H66	dotriacontane	544-85-4	0.23429	0.24613	855.00	0.28571	342.85	855.00	1,2	362.35	0.7760
35127	C32H66	3-methylhentriacontane	4981-99-1	0.23429	0.24973	920.46	0.28571	274.15	920.46	1,2	362.85	0.7797
35129	C32H67N	dotriacontylamine	66214-14-0	0.25095	0.26404	974.21	0.28571	354.15	974.21	2	776.15	0.5841
35130	C32H67N	methylhentriacontylamine	66214-18-4	0.25014	0.26112	932.92	0.28571	338.15	932.92	2	743.15	0.5864
35131	C32H67N	ethyltriacontylamine	66214-17-3	0.25014	0.26149	940.45	0.28571	502.56	940.45	2	749.15	0.5858
35132	C32H67N	dihexadecylamine	16724-63-3	0.25014	0.26130	936.69	0.28571	340.18	936.69	2	746.15	0.5861
35133	C32H67N	dimethyltriacontylamine	66214-16-2	0.24974	0.26037	927.51	0.28571	338.15	927.51	2	743.15	0.5832
35134	C32H67N	diethyloctacosylamine	66214-15-1	0.24974	0.25843	891.32	0.28571	482.37	891.32	2	714.15	0.5860
35178	C33H60	heptacosylbenzene	61828-25-9	0.25730	0.26236	925.34	0.28571	337.15	925.34	1,2	750.15	0.5911
35179	C33H64	1-tritriacontyne	61847-93-6	0.24973	0.25785	923.11	0.28571	346.15	923.11	2	744.15	0.5832
35180	C33H66	octacosylcyclopentane	61827-91-6	0.25371	0.26643	932.17	0.28571	334.15	932.17	2	753.15	0.5792
35181	C33H66	heptacosylcyclohexane	61828-12-4	0.25482	0.26771	931.57	0.28571	339.25	931.57	2	754.15	0.5789
35182	C33H66	1-tritriacontene	61868-11-9	0.24826	0.25998	930.68	0.28571	331.85	930.68	2	746.15	0.5800
35183	C33H66Br2	1,1-dibromotritriacontane	62168-12-1	0.31111	0.26300	1010.24	0.28571	565.77	1010.24	2	799.15	0.7307
35184	C33H66Cl2	1,1-dichlorotritriacontane	62017-35-0	0.27021	0.26336	990.34	0.28571	506.01	990.34	2	785.15	0.6328
35185	C33H66F2	1,1-difluorotritriacontane	62127-22-4	0.26176	0.26129	906.25	0.28571	510.47	906.25	2	718.15	0.6164
35186	C33H66I2	1,1-diiodotritriacontane	66214-19-5	0.34901	0.27567	1434.22	0.28571	562.29	1434.22	2	1140.28	0.7919
35187	C33H67Br	1-bromotritriacontane	62108-49-0	0.27952	0.26226	977.03	0.28571	348.45	977.03	2	776.15	0.6551
35188	C33H67Cl	1-chlorotritriacontane	62016-85-7	0.25839	0.26214	960.92	0.28571	348.15	960.92	2	764.15	0.6052
35189	C33H67F	1-fluorotritriacontane	62108-87-6	0.25395	0.26130	923.40	0.28571	350.15	923.40	2	734.15	0.5961
35190	C33H67I	1-iodotritriacontane	62154-84-1	0.31054	0.27564	1031.91	0.28571	349.85	1031.91	2	797.15	0.7223
35191	C33H68	tritriacontane	630-05-7	0.23431	0.24718	935.79	0.28571	344.55	935.79	2	364.20	0.7889
35192	C33H69N	tritriacontylamine	---	0.25094	0.26457	991.36	0.28571	355.15	991.36	2	784.15	0.5872
35193	C33H69N	methyldotriacontylamine	66214-25-3	0.25015	0.26174	949.80	0.28571	339.15	949.80	2	751.15	0.5895
35194	C33H69N	ethylhentriacontylamine	66214-24-2	0.25015	0.26205	956.12	0.28571	513.83	956.12	2	756.15	0.5891
35195	C33H69N	dimethylhentriacontylamine	66214-23-1	0.24976	0.26092	942.21	0.28571	493.64	942.21	2	750.15	0.5861
35196	C33H69N	diethylnonacosylamine	66214-22-0	0.24976	0.25911	907.05	0.28571	493.64	907.05	2	722.15	0.5887
35197	C33H69N	triundecylamine	42910-16-7	0.24976	0.25763	880.67	0.28571	493.64	880.67	2	701.15	0.5908

Table 3 Density of Liquid - Organic Compounds

			density = A $B^{-(1-T/C)^{\wedge}n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
35257	C34H62	octacosylbenzene	61828-26-0	0.25709	0.26274	937.81	0.28571	339.15	937.81	1,2	757.15	0.5925
35260	C34H66	1-tetratriacontyne	26185-83-1	0.24975	0.25841	936.74	0.28571	347.15	936.74	2	751.15	0.5855
35263	C34H67I	1-iodotetratriacontane	62154-85-2	0.30779	0.27145	1052.30	0.28571	348.95	1052.30	2	804.15	0.7295
35265	C34H68	nonacosylcyclopentane	61827-92-7	0.25361	0.26672	945.42	0.28571	336.15	945.42	2	760.15	0.5813
35266	C34H68	octacosylcyclohexane	61828-13-5	0.25469	0.26632	944.39	0.28571	341.15	944.39	1,2	761.15	0.5830
35267	C34H68	1-tetratriacontene	61868-12-0	0.24833	0.26060	946.56	0.28571	343.65	946.56	2	754.15	0.5828
35268	C34H68Br2	1,1-dibromotetratriacontane	62168-13-2	0.30946	0.26356	1027.44	0.28571	577.04	1027.44	2	806.15	0.7313
35269	C34H68Cl2	1,1-dichlorotetratriacontane	62017-36-1	0.26966	0.26390	1007.06	0.28571	517.28	1007.06	2	792.15	0.6353
35270	C34H68F2	1,1-difluorotetratriacontane	62127-23-5	0.26144	0.26190	922.37	0.28571	521.74	922.37	2	725.15	0.6192
35271	C34H68I2	1,1-diiodotetratriacontane	66214-26-4	0.34640	0.27622	1474.00	0.28571	573.56	1474.00	2	1163.16	0.7902
35272	C34H68O2	hexadecyl stearate	1190-63-2	0.24483	0.24090	890.00	0.28571	330.15	890.00	2	600.00	0.6880
35273	C34H68O2	isocetyl stearate	25339-09-7	0.24616	0.24237	890.00	0.28571	330.15	890.00	2	600.00	0.6887
35274	C34H69Br	1-bromotetratriacontane	62108-50-3	0.27870	0.26281	993.37	0.28571	346.45	993.37	2	783.15	0.6570
35275	C34H69Cl	1-chlorotetratriacontane	62016-86-8	0.25817	0.26269	976.98	0.28571	348.15	976.98	2	771.15	0.6081
35276	C34H69F	1-fluorotetratriacontane	62108-88-7	0.25385	0.26188	939.21	0.28571	349.15	939.21	2	741.15	0.5992
35277	C34H70	tetratriacontane	14167-59-0	0.23433	0.25433	950.88	0.28571	343.25	950.88	1,2	363.25	0.7728
35278	C34H70	11-decyltetracosane	55429-84-0	0.23433	0.24998	950.88	0.28571	283.95	950.88	1,2	298.15	0.8139
35280	C34H71N	tetratriacontylamine	66214-29-7	0.25092	0.26507	1008.41	0.28571	357.15	1008.41	2	791.15	0.5908
35281	C34H71N	methyltritriacontylamine	66214-33-3	0.25016	0.26234	966.53	0.28571	340.15	966.53	2	758.15	0.5931
35282	C34H71N	ethyldotriacontylamine	66214-32-2	0.25016	0.26269	974.18	0.28571	525.10	974.18	2	764.15	0.5925
35283	C34H71N	diheptadecylamine	16130-73-7	0.25016	0.26246	969.08	0.28571	344.15	969.08	2	760.15	0.5929
35284	C34H71N	dimethyldotriacontylamine	66214-31-1	0.24978	0.26156	959.24	0.28571	342.15	959.24	2	758.15	0.5892
35285	C34H71N	diethyltriacontylamine	66214-30-0	0.24978	0.25981	923.81	0.28571	504.91	923.81	2	730.15	0.5918
35312	C35H64	nonacosylbenzene	61828-27-1	0.25690	0.26043	951.23	0.28571	341.15	951.23	2	764.15	0.5983
35313	C35H68	1-pentatriacontyne	61847-94-7	0.24977	0.25907	952.63	0.28571	349.15	952.63	2	759.15	0.5882
35314	C35H70	triacontylcyclopentane	61827-93-8	0.25352	0.26638	959.65	0.28571	338.15	959.65	1,2	767.15	0.5849
35315	C35H70	nonacosylcyclohexane	61828-14-6	0.25457	0.26822	958.18	0.28571	343.05	958.18	2	768.15	0.5832
35316	C35H70	1-pentatriacontene	61868-13-1	0.24839	0.26124	963.51	0.28571	345.45	963.51	2	762.15	0.5859
35317	C35H70Br2	1,1-dibromopentatriacontane	---	0.30790	0.26414	1045.87	0.28571	588.31	1045.87	2	813.15	0.7324
35318	C35H70Cl2	1,1-dichloropentatriacontane	62017-37-2	0.26915	0.26446	1024.98	0.28571	528.55	1024.98	2	799.15	0.6382
35319	C35H70F2	1,1-difluoropentatriacontane	62127-24-6	0.26114	0.26254	939.61	0.28571	533.01	939.61	2	732.15	0.6224
35320	C35H70I2	1,1-diiodopentatriacontane	66576-85-0	0.34392	0.27677	1515.76	0.28571	584.83	1515.76	2	1186.04	0.7893
35321	C35H70O	18-pentatriacontanone	504-53-0	0.30932	0.33483	900.00	0.28571	362.15	900.00	1,2	893.00	0.4065
35322	C35H71Br	1-bromopentatriacontane	62108-51-4	0.27794	0.26339	1010.87	0.28571	351.65	1010.87	2	790.15	0.6593
35323	C35H71Cl	1-chloropentatriacontane	---	0.25796	0.26327	994.20	0.28571	351.15	994.20	2	778.15	0.6113
35324	C35H71F	1-fluoropentatriacontane	62108-89-8	0.25376	0.26250	956.14	0.28571	354.15	956.14	2	748.15	0.6027
35325	C35H71I	1-iodopentatriacontane	62154-86-3	0.30720	0.27629	1074.15	0.28571	352.85	1074.15	2	811.15	0.7263
35326	C35H72	pentatriacontane	630-07-9	0.23435	0.25093	968.33	0.28571	347.85	968.33	1,2	367.85	0.7829
35327	C35H73N	pentatriacontylamine	66576-87-2	0.25091	0.26566	1027.97	0.28571	358.15	1027.97	2	799.15	0.5947
35328	C35H73N	methyltetratriacontylamine	66576-91-8	0.25017	0.26297	984.44	0.28571	341.15	984.44	2	765.15	0.5970
35329	C35H73N	ethyltritriacontylamine	66576-90-7	0.25017	0.26331	992.16	0.28571	536.37	992.16	2	771.15	0.5965
35330	C35H73N	dimethyltritriacontylamine	66576-89-4	0.24980	0.26216	976.13	0.28571	516.18	976.13	2	765.15	0.5928
35331	C35H73N	diethylhentriacontylamine	66576-88-3	0.24980	0.26048	940.41	0.28571	516.18	940.41	2	737.15	0.5953
35400	C36H66	triacontylbenzene	50715-02-1	0.25671	0.26096	965.65	0.28571	343.15	965.65	2	771.15	0.6006
35408	C36H70	1-hexatriacontyne	61847-95-8	0.24979	0.25969	968.33	0.28571	350.15	968.33	2	766.15	0.5914
35418	C36H72	hentriacontylcyclopentane	61827-94-9	0.25343	0.26744	974.92	0.28571	340.15	974.92	2	774.15	0.5869
35419	C36H72	triacontylcyclohexane	61828-15-7	0.25446	0.26705	972.99	0.28571	344.75	972.99	1,2	775.15	0.5880
35420	C36H72	1-hexatriacontene	61868-14-2	0.24845	0.26185	980.33	0.28571	347.05	980.33	2	769.15	0.5896
35421	C36H72Br2	1,1-dibromohexatriacontane	62168-15-4	0.30642	0.26470	1064.34	0.28571	599.58	1064.34	2	819.15	0.7342
35422	C36H72Cl2	1,1-dichlorohexatriacontane	62017-38-3	0.26866	0.26505	1044.19	0.28571	539.82	1044.19	2	806.15	0.6415
35424	C36H72F2	1,1-difluorohexatriacontane	62127-25-7	0.26085	0.26322	958.04	0.28571	544.28	958.04	2	739.15	0.6260
35425	C36H72I2	1,1-diiodohexatriacontane	66576-72-5	0.34156	0.27731	1559.68	0.28571	596.10	1559.68	2	1208.92	0.7891
35430	C36H73Br	1-bromohexatriacontane	7461-19-0	0.27721	0.26400	1029.64	0.28571	349.65	1029.64	2	797.15	0.6620
35431	C36H73Cl	1-chlorohexatriacontane	62016-88-0	0.25776	0.26388	1012.64	0.28571	351.15	1012.64	2	785.15	0.6150
35432	C36H73F	1-fluorohexatriacontane	62108-90-1	0.25367	0.26314	974.25	0.28571	353.15	974.25	2	755.15	0.6065
35433	C36H73I	1-iodohexatriacontane	62154-87-4	0.30567	0.27664	1096.24	0.28571	351.95	1096.24	2	817.15	0.7291
35434	C36H74	hexatriacontane	630-06-8	0.23437	0.25534	986.42	0.28571	349.35	986.42	1,2	369.05	0.7735
35435	C36H74	13-undecylpentacosane	55517-89-0	0.23437	0.25136	986.42	0.28571	282.85	986.42	1,2	298.15	0.8147
35437	C36H75N	hexatriacontylamine	45313-33-5	0.25090	0.26623	1047.57	0.28571	359.15	1047.57	2	806.15	0.5989
35438	C36H75N	methylpentatriacontylamine	66577-27-3	0.25018	0.26357	1002.31	0.28571	342.15	1002.31	2	771.15	0.6013
35439	C36H75N	ethyltetratriacontylamine	66577-26-2	0.25018	0.26395	1011.41	0.28571	547.64	1011.41	2	778.15	0.6007
35440	C36H75N	dioctadecylamine	112-99-2	0.25018	0.26373	1006.21	0.28571	345.45	1006.21	2	774.15	0.6010
35441	C36H75N	dimethyltetratriacontylamine	66577-25-1	0.24982	0.26275	992.92	0.28571	346.15	992.92	2	771.15	0.5969
35442	C36H75N	diethyldotriacontylamine	66577-24-0	0.24982	0.26111	956.87	0.28571	527.45	956.87	2	743.15	0.5993
35443	C36H75N	tridodecylamine	102-87-4	0.24982	0.26442	928.54	0.28571	288.85	928.54	1,2	298.15	0.8219
35476	C37H68	hentriacontylbenzene	61828-28-2	0.25654	0.26145	979.86	0.28571	345.15	979.86	2	777.15	0.6034
35477	C37H72	1-heptatriacontyne	---	0.24981	0.26035	985.15	0.28571	352.15	985.15	2	773.15	0.5949
35478	C37H74	dotriacontylcyclopentane	---	0.25335	0.26780	990.03	0.28571	342.15	990.03	2	780.15	0.5903
35479	C37H74	hentriacontylcyclohexane	61828-16-8	0.25435	0.26886	987.61	0.28571	346.45	987.61	2	781.15	0.5891
35480	C37H74	1-heptatriacontene	61868-15-3	0.24850	0.26249	998.34	0.28571	348.65	998.34	2	776.15	0.5936
35481	C37H74Br2	1,1-dibromoheptatriacontane	62168-16-5	0.30501	0.26533	1085.52	0.28571	610.85	1085.52	2	826.15	0.7364
35482	C37H74Cl2	1,1-dichloroheptatriacontane	62017-39-4	0.26820	0.26567	1064.78	0.28571	551.09	1064.78	2	813.15	0.6452
35483	C37H74F2	1,1-difluoroheptatriacontane	62127-26-8	0.26058	0.26386	976.45	0.28571	555.55	976.45	2	745.15	0.6301
35484	C37H74I2	1,1-diiodoheptatriacontane	66577-05-7	0.33932	0.27786	1605.93	0.28571	607.37	1605.93	2	1231.80	0.7896
35486	C37H75Br	1-bromoheptatriacontane	62108-52-5	0.27652	0.26463	1049.74	0.28571	354.55	1049.74	2	804.15	0.6652
35487	C37H75Cl	1-chloroheptatriacontane	62016-89-1	0.25757	0.26452	1032.39	0.28571	354.15	1032.39	2	792.15	0.6190
35488	C37H75F	1-fluoroheptatriacontane	62108-91-2	0.25359	0.26381	993.63	0.28571	357.15	993.63	2	762.15	0.6107
35489	C37H75I	1-iodoheptatriacontane	62154-88-5	0.30421	0.27707	1121.36	0.28571	355.65	1121.36	2	824.15	0.7322
35490	C37H76	heptatriacontane	7194-84-5	0.23438	0.24872	993.92	0.28571	350.85	993.92	2	370.85	0.7920
35491	C37H77N	heptatriacontylamine	66577-08-0	0.25089	0.26683	1068.57	0.28571	360.15	1068.57	2	813.15	0.6035

Table 3 Density of Liquid - Organic Compounds

				density = A B $^{-(1 - T/C)^n}$				(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
35492	C37H77N	methylhexatriacontylamine	66577-12-6	0.25019	0.26430	1024.15	0.28571	343.15	1024.15	2	779.15	0.6057
35493	C37H77N	ethylpentatriacontylamine	66577-11-5	0.25019	0.26457	1030.72	0.28571	558.91	1030.72	2	784.15	0.6053
35494	C37H77N	dimethylpentatriacontylamine	66577-10-4	0.24984	0.26341	1012.28	0.28571	538.72	1012.28	2	778.15	0.6011
35495	C37H77N	diethyltritriacontylamine	66577-09-1	0.24984	0.26184	975.85	0.28571	538.72	975.85	2	750.15	0.6035
35496	C37H77N	N-methyldioctadecylamine	4088-22-6	0.25019	0.26423	1022.31	0.28571	317.65	1022.31	2	780.95	0.6039
35513	C38H70	dotriacontylbenzene	61828-29-3	0.25637	0.26199	995.18	0.28571	347.15	995.18	2	783.15	0.6065
35514	C38H74	1-octatriacontyne	---	0.24983	0.26102	1003.17	0.28571	353.15	1003.17	2	780.15	0.5987
35518	C38H76	tritriacontylcyclopentane	---	0.25328	0.26826	1007.57	0.28571	343.15	1007.57	2	787.15	0.5940
35519	C38H76	dotriacontylcyclohexane	61828-17-9	0.25424	0.26785	1004.63	0.28571	347.95	1004.63	1,2	788.15	0.5946
35520	C38H76	1-octatriacontene	61868-16-4	0.24855	0.26315	1017.62	0.28571	350.15	1017.62	2	783.15	0.5979
35521	C38H76Br2	1,1-dibromooctatriacontane	62168-17-6	0.30367	0.26595	1106.90	0.28571	622.12	1106.90	2	832.15	0.7391
35522	C38H76Cl2	1,1-dichlorooctatriacontane	62017-40-7	0.26776	0.26627	1085.53	0.28571	562.36	1085.53	2	819.15	0.6493
35523	C38H76F2	1,1-difluorooctatriacontane	62126-87-8	0.26032	0.26454	996.21	0.28571	566.82	996.21	2	751.15	0.6344
35524	C38H76I2	1,1-diiodooctatriacontane	66577-13-7	0.33719	0.27840	1654.72	0.28571	618.64	1654.72	2	1254.68	0.7907
35526	C38H77Br	1-bromooctatriacontane	62108-53-6	0.27586	0.26525	1069.97	0.28571	352.55	1069.97	2	810.15	0.6689
35527	C38H77Cl	1-chlorooctatriacontane	62016-90-4	0.25739	0.26513	1052.23	0.28571	354.15	1052.23	2	798.15	0.6234
35528	C38H77F	1-fluorooctatriacontane	62108-92-3	0.25351	0.26446	1013.07	0.28571	355.15	1013.07	2	768.15	0.6152
35529	C38H77I	1-iodooctatriacontane	62154-89-6	0.30283	0.27749	1146.96	0.28571	354.75	1146.96	2	830.15	0.7357
35530	C38H78	octatriacontane	7194-85-6	0.23440	0.24879	1001.41	0.28571	352.15	1001.41	2	372.15	0.7925
35531	C38H78	13-dodecylhexacosane	55517-73-2	0.23440	0.25135	1001.41	0.28571	286.85	1001.41	1,2	298.15	0.8167
35532	C38H79N	octatriacontylamine	66576-94-1	0.25088	0.26745	1091.09	0.28571	361.15	1091.09	2	820.15	0.6084
35533	C38H79N	methylheptatriacontylamine	66576-99-6	0.25019	0.26491	1043.48	0.28571	344.15	1043.48	2	784.15	0.6107
35534	C38H79N	ethylhexatriacontylamine	66576-98-5	0.25019	0.26527	1052.80	0.28571	570.18	1052.80	2	791.15	0.6102
35535	C38H79N	dinonadecylamine	66576-97-4	0.25019	0.26506	1047.47	0.28571	351.15	1047.47	2	787.15	0.6105
35536	C38H79N	dimethylhexatriacontylamine	66576-96-3	0.24985	0.26405	1031.69	0.28571	349.15	1031.69	2	784.15	0.6058
35537	C38H79N	diethyltetratriacontylamine	66576-95-2	0.24985	0.26253	994.85	0.28571	549.99	994.85	2	756.15	0.6081
35553	C39H72	tritriacontylbenzene	61828-30-6	0.25622	0.26255	1011.66	0.28571	348.15	1011.66	2	789.15	0.6101
35553.1	C39H72O5	glycerol dioleate	2465-32-9	0.28884	0.27959	1025.00	0.28571	294.65	1025.00	1,2	298.15	0.9170
35555	C39H76	1-nonatriacontyne	---	0.24984	0.26167	1021.18	0.28571	355.15	1021.18	2	786.15	0.6030
35556	C39H78	tetratriacontylcyclopentane	---	0.25320	0.26870	1025.07	0.28571	345.15	1025.07	2	793.15	0.5981
35557	C39H78	tritriacontylcyclohexane	55517-75-4	0.25415	0.26967	1021.59	0.28571	349.45	1021.59	2	794.15	0.5965
35558	C39H78	1-nonatriacontene	61868-17-5	0.24860	0.26384	1038.28	0.28571	351.55	1038.28	2	790.15	0.6025
35559	C39H78Br2	1,1-dibromononatriacontane	62168-18-7	0.30240	0.26659	1129.91	0.28571	633.39	1129.91	2	838.15	0.7422
35560	C39H78Cl2	1,1-dichlorononatriacontane	62017-41-8	0.26734	0.26689	1107.85	0.28571	573.63	1107.85	2	825.15	0.6537
35561	C39H78F2	1,1-difluorononatriacontane	62126-88-9	0.26008	0.26530	1018.78	0.28571	578.09	1018.78	2	758.15	0.6389
35562	C39H78I2	1,1-diiodononatriacontane	66576-58-7	0.33516	0.27894	1706.29	0.28571	629.91	1706.29	2	1277.56	0.7924
35563	C39H79Br	1-bromononatriacontane	62108-54-7	0.27524	0.26589	1091.72	0.28571	357.25	1091.72	2	816.15	0.6729
35564	C39H79Cl	1-chlorononatriacontane	62016-91-5	0.25722	0.26577	1073.56	0.28571	357.15	1073.56	2	804.15	0.6281
35565	C39H79F	1-fluorononatriacontane	62108-93-4	0.25343	0.26519	1035.28	0.28571	359.15	1035.28	2	775.15	0.6199
35566	C39H79I	1-iodononatriacontane	62154-90-9	0.30152	0.27795	1174.54	0.28571	358.15	1174.54	2	836.15	0.7396
35567	C39H80	nonatriacontane	7194-86-7	0.23441	0.24886	1008.89	0.28571	353.45	1008.89	2	373.45	0.7930
35568	C39H81N	nonatriacontylamine	66576-42-9	0.25087	0.26810	1115.25	0.28571	362.15	1115.25	2	827.15	0.6135
35569	C39H81N	methyloctatriacontylamine	66576-46-3	0.25020	0.26560	1065.67	0.28571	345.15	1065.67	2	790.15	0.6159
35570	C39H81N	ethylheptatriacontylamine	66576-45-2	0.25020	0.26594	1075.11	0.28571	581.45	1075.11	2	797.15	0.6153
35571	C39H81N	dimethylheptatriacontylamine	66576-44-1	0.24987	0.26477	1053.87	0.28571	561.26	1053.87	2	791.15	0.6106
35572	C39H81N	diethylpentatriacontylamine	66576-43-0	0.24987	0.26331	1016.58	0.28571	561.26	1016.58	2	763.15	0.6129
35573	C39H81N	tritridecylamine	5910-77-0	0.24987	0.26200	985.94	0.28571	561.26	985.94	2	740.15	0.6150
35615	C40H74	tetratriacontylbenzene	61828-31-7	0.25607	0.26314	1029.38	0.28571	350.15	1029.38	2	795.15	0.6140
35616	C40H78	1-tetracontyne	---	0.24986	0.26240	1041.84	0.28571	356.15	1041.84	2	793.15	0.6075
35617	C40H80	pentatriacontylcyclopentane	61827-98-3	0.25314	0.26860	1043.89	0.28571	347.15	1043.89	1,2	799.15	0.6033
35618	C40H80	tetratriacontylcyclohexane	61828-19-1	0.25405	0.26877	1039.83	0.28571	350.85	1039.83	1,2	800.15	0.6027
35619	C40H80	1-tetracontene	61868-18-6	0.24865	0.26357	1059.09	0.28571	352.95	1059.09	2	796.15	0.6089
35620	C40H80Br2	1,1-dibromotetracontane	62168-19-8	0.30118	0.26725	1154.67	0.28571	644.66	1154.67	2	844.15	0.7458
35621	C40H80Cl2	1,1-dichlorotetracontane	62017-42-9	0.26694	0.26754	1131.86	0.28571	584.90	1131.86	2	831.15	0.6584
35622	C40H80F2	1,1-difluorotetracontane	62126-89-0	0.25984	0.26597	1040.24	0.28571	589.36	1040.24	2	763.15	0.6439
35623	C40H80I2	1,1-diiodotetracontane	66576-47-4	0.33322	0.27948	1760.88	0.28571	641.18	1760.88	2	1300.44	0.7945
35626	C40H81Br	1-bromotetracontane	62108-55-8	0.27465	0.26655	1115.11	0.28571	355.25	1115.11	2	822.15	0.6772
35627	C40H81Cl	1-chlorotetracontane	62016-92-6	0.25706	0.26644	1096.50	0.28571	357.15	1096.50	2	810.15	0.6330
35628	C40H81F	1-fluorotetracontane	62108-94-5	0.25336	0.26588	1057.73	0.28571	358.15	1057.73	2	781.15	0.6250
35629	C40H81I	1-iodotetracontane	62154-91-0	0.30028	0.27844	1204.29	0.28571	357.25	1204.29	2	842.15	0.7438
35630	C40H82	tetracontane	4181-95-7	0.23443	0.24895	1016.35	0.28571	354.65	1016.35	2	374.65	0.7935
35631	C40H83N	tetracontylamine	66576-50-9	0.25086	0.26873	1139.81	0.28571	363.15	1139.81	2	833.15	0.6189
35632	C40H83N	methylnonatriacontylamine	66576-36-1	0.25021	0.26631	1089.54	0.28571	346.15	1089.54	2	796.15	0.6213
35633	C40H83N	ethyloctatriacontylamine	66576-53-2	0.25021	0.26664	1099.12	0.28571	592.72	1099.12	2	803.15	0.6207
35634	C40H83N	dieicosylamine	3071-00-9	0.25021	0.26645	1093.64	0.28571	353.15	1093.64	2	799.15	0.6210
35635	C40H83N	dimethyloctatriacontylamine	66576-52-1	0.24988	0.26546	1076.31	0.28571	352.15	1076.31	2	797.15	0.6158
35636	C40H83N	diethylhexatriacontylamine	66576-51-0	0.24988	0.26405	1038.51	0.28571	572.53	1038.51	2	769.15	0.6181
35656	C41H76	pentatriacontylbenzene	61828-32-8	0.25593	0.26376	1048.44	0.28571	352.15	1048.44	2	801.15	0.6183
35658	C41H82	hexatriacontylcyclopentane	61827-99-4	0.25307	0.26969	1064.12	0.28571	348.15	1064.12	2	805.15	0.6072
35659	C41H82	pentatriacontylcyclohexane	61828-20-4	0.25396	0.27062	1060.75	0.28571	352.25	1060.75	2	807.15	0.6052
35660	C41H84	n-hentetracontane	7194-87-8	0.23444	0.24899	1022.74	0.28571	353.90	1022.74	2	373.90	0.7947
35703	C42H78	hexatriacontylbenzene	61828-33-9	0.25579	0.26436	1067.60	0.28571	353.15	1067.60	2	806.15	0.6229
35705	C42H84	hexatriacontylcyclohexane	61828-21-5	0.25388	0.26976	1079.19	0.28571	353.55	1079.19	1,2	811.15	0.6121
35708	C42H86	n-dotetracontane	7098-20-6	0.23445	0.24904	1029.13	0.28571	356.10	1029.13	2	376.10	0.7947
35709	C42H87N	tritetradecylamine	27911-72-4	0.24991	0.26440	1054.03	0.28571	306.15	1054.03	2	757.15	0.6310
35735	C43H88	tritetracontane	7098-21-7	0.23446	0.25623	1034.97	0.28571	358.65	1034.97	1,2	378.65	0.7750
35763	C44H90	n-tetratetracontane	7098-22-8	0.23447	0.24912	1040.81	0.28571	359.15	1040.81	2	379.15	0.7951
35774	C45H92	n-pentatetracontane	7098-23-9	0.23448	0.24918	1047.17	0.28571	360.00	1047.17	2	380.00	0.7955
35775	C45H93N	tripentadecylamine	66576-66-7	0.26235	0.27935	1076.51	0.28571	628.88	1076.51	2	773.15	0.6376
35788	C46H94	n-hexatetracontane	7098-24-0	0.23449	0.24922	1052.47	0.28571	361.00	1052.47	2	381.00	0.7959

Table 3 Density of Liquid - Organic Compounds

			density = A B ^ (1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
35798	C47H96	n-heptatetracontane	7098-25-1	0.23450	0.24925	1057.76	0.28571	361.20	1057.76	2	381.20	0.7965
35816	C48H98	n-octatetracontane	7098-26-2	0.23451	0.24933	1064.10	0.28571	361.40	1064.10	2	381.40	0.7972
35817	C48H99N	trihexadecylamine	28947-77-5	0.26242	0.28102	1133.51	0.28571	316.15	1133.51	2	789.15	0.6474
35823	C49H100	n-nonatetracontane	7098-27-3	0.23452	0.24933	1068.32	0.28571	363.00	1068.32	2	383.00	0.7972
35831	C50H102	n-pentacontane	6596-40-3	0.23453	0.24938	1073.60	0.28571	365.30	1073.60	2	385.30	0.7969
35838	C51H104	n-henpentacontane	7667-76-7	0.23454	0.24943	1078.87	0.28571	366.00	1078.87	2	386.00	0.7973
35839	C51H105N	triheptadecylamine	66575-83-5	0.26626	0.28638	1171.51	0.28571	696.50	1171.51	2	803.15	0.6539
35847	C52H106	n-dopentacontane	7719-79-1	0.23455	0.24944	1083.08	0.28571	367.00	1083.08	2	387.00	0.7974
35849	C53H108	n-tripentacontane	'7719-80-4	0.23456	0.24950	1088.34	0.28571	367.50	1088.34	2	387.50	0.7979
35869	C54H110	n-tetrapentacontane	5856-66-6	0.23456	0.24952	1092.55	0.28571	368.00	1092.55	2	388.00	0.7982
35871	C54H111N	trioctadecylamine	102-88-5	0.26500	0.28626	1229.51	0.28571	327.15	1229.51	2	816.15	0.6624
35880	C55H112	n-pentapentacontane	5846-40-2	0.23457	0.24955	1096.75	0.28571	368.50	1096.75	2	388.50	0.7986
35891	C56H114	n-hexapentacontane	7719-82-6	0.23458	0.24957	1100.95	0.28571	369.00	1100.95	2	389.00	0.7989
35900	C57H116	n-heptapentacontane	5856-67-7	0.23458	0.24960	1105.14	0.28571	369.70	1105.14	2	389.70	0.7991
35901	C57H117N	trinonadecylamine	66575-72-2	0.26357	0.28579	1286.51	0.28571	764.12	1286.51	2	829.15	0.6694
35904	C58H118	n-octapentacontane	7667-78-9	0.23459	0.24964	1109.34	0.28571	370.00	1109.34	2	390.00	0.7995
35908	C59H120	n-nonapentacontane	7667-79-0	0.23460	0.24967	1113.53	0.28571	371.00	1113.53	2	391.00	0.7996
35922	C60H122	n-hexacontane	7667-80-3	0.23460	0.24968	1116.67	0.28571	372.10	1116.67	2	392.10	0.7997
35923	C60H123N	trieicosylamine	45324-58-1	0.26177	0.28476	1343.51	0.28571	335.15	1343.51	2	841.15	0.6757
35925	C61H124	n-henhexacontane	7667-81-4	0.23461	0.24971	1120.85	0.28571	373.00	1120.85	2	393.00	0.7998
35932	C62H126	n-dohexacontane	7719-83-7	0.23461	0.24976	1125.03	0.28571	375.00	1125.03	2	395.00	0.7995
35940	C63H128	n-trihexacontane	7719-84-8	0.23462	0.24977	1128.17	0.28571	375.10	1128.17	2	395.10	0.7999
35943	C64H130	n-tetrahexacontane	7719-87-1	0.23462	0.24978	1131.30	0.28571	375.20	1131.30	2	395.20	0.8002
35944	C65H132	n-pentahexacontane	7719-88-2	0.23463	0.24979	1134.43	0.28571	376.00	1134.43	2	396.00	0.8003
35949	C66H134	n-hexahexacontane	7719-89-3	0.23463	0.24984	1138.60	0.28571	376.80	1138.60	2	396.80	0.8004
35952	C67H136	n-heptahexacontane	7719-90-6	0.23464	0.24986	1141.73	0.28571	377.30	1141.73	2	397.30	0.8006
35956	C68H138	n-octahexacontane	7719-91-7	0.23464	0.24988	1144.85	0.28571	377.70	1144.85	2	397.70	0.8008
35958	C69H140	n-nonahexacontane	7719-92-8	0.23465	0.24990	1147.98	0.28571	378.10	1147.98	2	398.10	0.8011
35960	C70H142	n-heptacontane	7719-93-9	0.23465	0.24992	1151.10	0.28571	378.40	1151.10	2	398.40	0.8013
35961	C71H144	n-henheptacontane	7667-82-5	0.23466	0.24991	1153.18	0.28571	373.80	1153.18	2	393.80	0.8033
35968	C72H146	n-doheptacontane	7667-83-6	0.23466	0.24993	1156.30	0.28571	374.60	1156.30	2	394.60	0.8034
35970	C73H148	n-triheptacontane	7667-84-7	0.23466	0.24996	1159.41	0.28571	375.40	1159.41	2	395.40	0.8034
35972	C74H150	n-tetraheptacontane	7667-85-8	0.23467	0.24996	1161.49	0.28571	376.20	1161.49	2	396.20	0.8034
35975	C75H152	n-pentaheptacontane	7667-86-9	0.23467	0.24999	1164.61	0.28571	377.00	1164.61	2	397.00	0.8034
35977	C76H154	n-hexaheptacontane	7667-87-0	0.23468	0.24999	1166.68	0.28571	377.80	1166.68	2	397.80	0.8034
35979	C77H156	n-heptaheptacontane	7719-94-0	0.23468	0.25002	1169.79	0.28571	378.60	1169.79	2	398.60	0.8034
35980	C78H158	n-octaheptacontane	7719-85-9	0.23468	0.25002	1171.87	0.28571	379.40	1171.87	2	399.40	0.8034
35982	C79H160	n-nonaheptacontane	7719-86-0	0.23469	0.25005	1174.98	0.28571	380.20	1174.98	2	400.20	0.8034
35984	C80H162	n-octacontane	7667-88-1	0.23469	0.25005	1177.05	0.28571	381.00	1177.05	2	401.00	0.8034
35985	C81H164	n-henoctacontane	7667-89-2	0.23469	0.25006	1179.12	0.28571	382.00	1179.12	2	402.00	0.8033
35986	C82H166	n-dooctacontane	7719-95-1	0.23470	0.25007	1181.19	0.28571	383.50	1181.19	2	403.50	0.8030
35987	C83H168	n-trioctacontane	7667-90-5	0.23470	0.25007	1183.26	0.28571	383.80	1183.26	2	403.80	0.8031
35990	C84H170	n-tetraoctacontane	7667-91-6	0.23470	0.25008	1185.33	0.28571	384.10	1185.33	2	404.10	0.8032
35991	C85H172	n-pentaoctacontane	7719-96-2	0.23471	0.25009	1187.40	0.28571	384.40	1187.40	2	404.40	0.8034
35992	C86H174	n-hexaoctacontane	7667-92-7	0.23471	0.25010	1189.47	0.28571	384.70	1189.47	2	404.70	0.8035
35993	C87H176	n-heptaoctacontane	7667-93-8	0.23471	0.25011	1191.53	0.28571	385.00	1191.53	2	405.00	0.8036
35998	C88H178	n-octaoctacontane	7667-94-9	0.23471	0.25012	1193.60	0.28571	385.30	1193.60	2	405.30	0.8037
36000	C89H180	n-nonaoctacontane	7719-76-8	0.23472	0.25013	1195.66	0.28571	385.60	1195.66	2	405.60	0.8039
36002	C90H182	n-nonacontane	7667-51-8	0.23472	0.25015	1197.73	0.28571	385.90	1197.73	2	405.90	0.8040
36003	C91H184	n-hennonacontane	7719-97-3	0.23472	0.25016	1199.79	0.28571	386.20	1199.79	2	406.20	0.8041
36004	C92H186	n-dononacontane	7667-95-0	0.23472	0.25017	1201.86	0.28571	386.50	1201.86	2	406.50	0.8042
36005	C93H188	n-trinonacontane	7667-96-1	0.23473	0.25019	1203.92	0.28571	386.80	1203.92	2	406.80	0.8043
36006	C94H190	n-tetranonacontane	1574-32-9	0.23473	0.25018	1204.95	0.28571	387.40	1204.95	2	407.40	0.8043
36008	C95H192	n-pentanonacontane	7667-97-2	0.23473	0.25019	1207.01	0.28571	387.50	1207.01	2	407.50	0.8044
36010	C96H194	n-hexanonacontane	7763-13-5	0.23473	0.25021	1209.07	0.28571	387.60	1209.07	2	407.60	0.8046
36011	C97H196	n-heptanonacontane	7670-25-9	0.23474	0.25020	1210.10	0.28571	387.70	1210.10	2	407.70	0.8047
36012	C98H198	n-octanonacontane	7670-26-0	0.23474	0.25022	1212.16	0.28571	387.80	1212.16	2	407.80	0.8049
36013	C99H200	n-nonanonacontane	7670-27-1	0.23474	0.25021	1213.19	0.28571	387.90	1213.19	2	407.90	0.8050
36014	C100H202	n-hectane	6703-98-6	0.23474	0.25023	1215.25	0.28571	388.40	1215.25	2	408.40	0.8050

code: 1 - data, 2 - estimate

density - density of liquid, g/ml

A, B, C, and n - regression coefficients of chemical compound

T- temperature, K

TMAX - maximum temperature, K

TMIN - minimum temperature, K

Chapter 4

DENSITY OF LIQUID – INORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 4. For the tabulation, the following equation was selected for correlation of liquid density as a function of temperature:

$$\text{density} = A\, B^{-(1-T/C)^n} \tag{4}$$

where density = saturated liquid density, g/ml
A, B, C, and n = regression coefficients for chemical compound
T = temperature, K

The tabulation is arranged by alphabetical order (Ag, Al, Ar, ..., Zr) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for regression coefficients are given in the adjacent columns. The temperature range for use is given in the next columns (TMIN and TMAX). The equation should not be used for temperatures outside this range. The next column provides the code for the tabulation. The last two columns provide a representative temperature and value for liquid density at the representative temperature.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-31). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of the values for the remaining compounds was performed.

The compilations of CRC (1); Daubert and Danner (3); Janz et. al. (5-6); Landolt and Bornstein (7); Vargaftik (16); and Yaws (17-31) were used extensively for liquid density. Estimates of liquid density were primarily based on Schroeder correlation (12, group contribution), Le Bas method (12, group contribution), and Tyn-Calus equation (12, critical volume). For the high melting compounds, most of the data for liquid density are only available in the region of the melting point. In the absence of data, the estimates at temperature much higher than melting point should be considered rough approximations.

A comparison of calculated and data values is shown in Figure 4 for a representative compound. The graph shows favorable agreement of equation and data.

Example

In an engineering analysis, the liquid density is needed for nitrogen (N2) at 94.68 K. Determine the liquid density of nitrogen at this temperature.

Substitution of the coefficients from the tabulation and temperature into the above equation yields:

$$\text{density} = 0.31422 * 0.28610^{-(1-94.68/126.20)^{.29660}}$$

density = 0.720 g/ml

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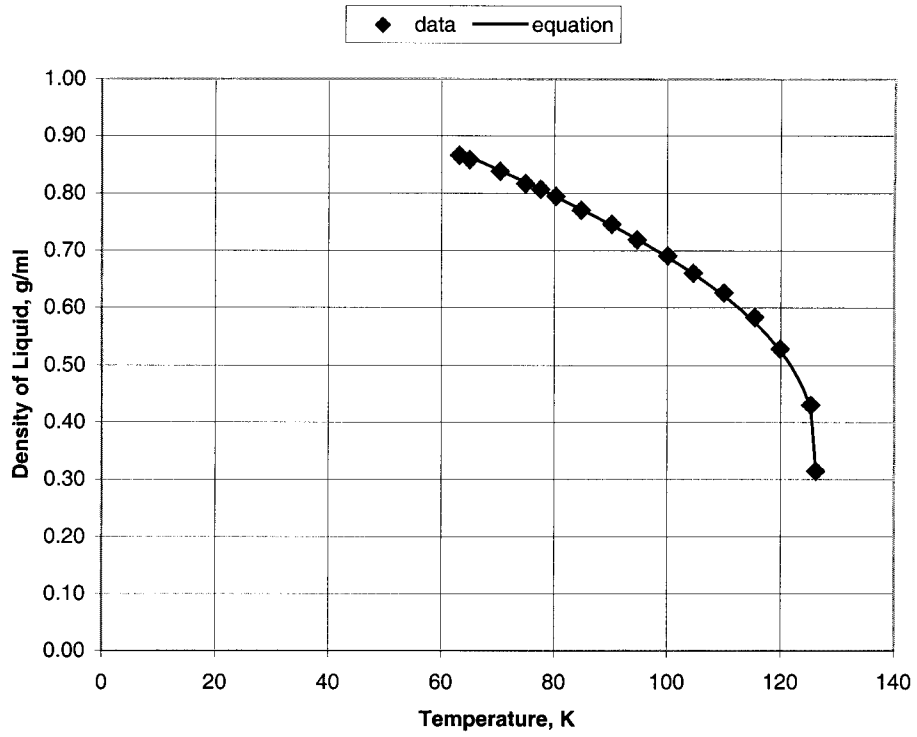


Figure 4 Liquid Density of Nitrogen

Table 4 Density of Liquid - Inorganic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
13	Ag	silver	7440-22-4	0.31819	0.03098	6410.00	0.13648	1234.00	5769.00	1,2	1234.00	9.2955
16	AgBr	silver bromide	7785-23-1	1.66860	0.26870	2030.83	0.20000	705.15	1410.30	1,2	720.00	5.5620
35	AgCl	silver (i) chloride	7783-90-6	1.59790	0.30000	2992.10	0.28571	728.15	928.15	1,2	728.15	4.8572
45	AgI	silver (i) iodide	7783-96-2	1.86077	0.30000	2897.64	0.28571	825.15	1025.15	1,2	825.15	5.5568
49	AgNO3	silver (i) nitrate	7761-88-8	1.18620	0.27101	1411.20	0.19000	490.00	980.00	1,2	490.00	3.9540
77	Al	aluminum	7429-90-5	0.69200	0.27351	9300.00	0.50000	933.25	8370.00	1,2	1173.15	2.3250
82	AlBr3	aluminum bromide	7727-15-3	0.47444	0.14123	763.00	0.28571	390.15	459.80	1,2	390.15	2.3387
86	AlC2H6Cl	aluminum, dimethyl chloride	1184-58-3	0.28874	0.22535	619.00	0.28571	252.15	619.00	1,2	252.15	1.0418
88	AlC3H9	aluminum, trimethyl	75-24-1	0.26569	0.28683	620.00	0.28570	288.43	620.00	1,2	288.43	0.7550
96	AlC6H15	aluminum, triethyl	97-93-8	0.49644	0.48420	678.15	0.58311	220.65	678.15	1,2	220.65	0.8836
127	AlCl3	aluminum chloride	7446-70-0	0.51076	0.24312	629.00	0.31426	465.70	629.00	1,2	465.70	1.2889
134	AlF3	aluminum fluoride	7784-18-1	0.92305	0.30000	2948.13	0.28571	1313.15	1513.15	1,2	1313.15	2.5530
146	AlI3	aluminum iodide	7784-23-8	1.17262	0.27373	983.00	0.39000	464.15	561.40	1,2	471.10	3.2000
167	Al2O3	aluminum oxide	1344-28-1	1.26357	0.30000	5335.00	0.28571	2325.00	2525.00	1,2	2325.00	3.5124
200	Ar	argon	7440-37-1	0.53120	0.28600	150.86	0.29840	83.78	150.86	1,2	83.78	1.4194
202	As	arsenic	7440-38-3	0.62605	0.05595	1673.15	0.28571	1090.15	1290.15	1,2	1090.15	5.2861
203	AsBr3	arsenic (iii) bromide	7784-33-0	1.06061	0.27400	789.01	0.28571	306.15	399.65	1,2	306.15	3.2674
228	AsCl3	arsenic trichloride	7784-34-1	0.72432	0.27400	654.00	0.28571	255.15	654.00	1,2	255.15	2.2289
230	AsF3	arsenic trifluoride	7784-35-2	0.95308	0.27400	530.21	0.28571	267.25	530.21	1,2	267.25	2.7498
231	AsF5	arsenic pentafluoride	7784-36-3	0.87020	0.27400	357.73	0.28571	193.35	357.73	1,2	193.35	2.4539
234	AsH3	arsine	7784-42-1	0.79658	0.35950	373.00	0.43880	156.32	373.00	1,2	156.32	1.7837
238	AsI3	arsenic triiodide	7784-45-4	1.41799	0.30000	1101.22	0.28571	419.15	619.15	1,2	419.15	4.0520
245	As2O3	arsenic trioxide	1327-53-3	1.27968	0.30000	1189.50	0.28571	585.95	658.15	1,2	585.95	3.4502
256	Au	gold	7440-57-5	8.35557	0.44663	4398.00	0.28571	1337.33	3958.20	1,2	1337.33	17.2817
267	AuCl	gold (i) chloride	10294-29-8	1.45830	0.26950	2131.20	0.20000	740.00	1480.00	1,2	740.00	4.8610
272	AuI	gold (i) iodide	10294-31-2	1.67310	0.26499	2390.40	0.23000	830.00	1660.00	1,2	830.00	5.5770
283	B	boron	7440-42-8	0.72680	0.30000	7934.59	0.28571	2348.15	2548.15	1,2	2348.15	2.1598
285	BBr3	boron tribromide	10294-33-4	0.91487	0.27400	581.00	0.28571	228.15	581.00	1,2	228.15	2.8115
361	BCl3	boron trichloride	10294-34-5	0.79010	0.41142	451.95	0.51175	166.15	451.95	1,2	166.15	1.5950
363	BF3	boron trifluoride	7637-07-2	0.54855	0.26189	260.90	0.22102	144.79	260.90	1,2	144.79	1.6818
394	B2H6	diborane	19287-45-7	0.15975	0.27040	289.80	0.28790	107.65	289.80	1,2	107.65	0.5016
401	B3N3H6	borazine	6569-51-3	0.32656	0.27400	521.20	0.28571	214.95	521.20	1,2	214.95	0.9930
404	B4H10	tetraborane	18283-93-7	0.19485	0.27400	466.66	0.28571	153.25	466.66	1,2	153.25	0.6187
405	B5H9	pentaborane	19624-22-7	0.22962	0.27998	568.45	0.28571	226.35	568.45	1,2	226.35	0.6906
406	B5H11	pentaborane	18433-84-6	0.26340	0.27400	547.13	0.28571	230.00	547.13	1,2	230.00	0.7975
413	B10H14	decaborane	---	0.31796	0.30000	791.78	0.28571	372.75	429.45	1,2	372.75	0.8676
416	Ba	barium	7440-39-3	1.11110	0.30000	3572.13	0.28571	1000.15	1200.15	1,2	1000.15	3.3250
423	BaBr2	barium bromide	10553-31-8	1.19460	0.23769	3254.83	0.41000	1130.15	2260.30	1,2	1140.00	3.9820
454	BaCl2	barium chloride	10361-37-2	0.95112	0.23952	3557.23	0.40000	1235.15	2470.30	1,2	1240.00	3.1704
464	BaF2	barium fluoride	7787-32-8	1.23810	0.20500	4726.51	0.64000	1641.15	3282.30	1,2	1650.00	4.1270
481	BaI2	barium iodide	13718-50-8	1.27350	0.24610	2834.35	0.35000	984.15	1968.30	1,2	1000.00	4.2450
530	Be	beryllium	7440-41-7	0.02893	0.01109	5205.00	0.28571	1556.00	2000.00	1,2	1556.00	1.6900
534	BeBr2	beryllium bromide	7787-46-4	1.28962	0.30000	1216.86	0.28571	763.15	919.72	1,2	763.15	3.1982
541	BeCl2	beryllium chloride	7787-47-5	0.60000	0.27748	1238.03	0.40000	678.15	800.00	1,2	740.00	1.4620
550	BeI2	beryllium iodide	7787-53-3	1.59610	0.30000	1238.03	0.28571	761.15	920.44	1,2	761.15	3.9920
562	Bi	bismuth	7440-69-9	2.01611	0.18801	4620.00	0.30873	544.54	4158.00	1,2	544.54	10.0639
564	BiBr3	bismuth tribromide	7787-58-8	1.61236	0.28317	1220.00	0.33000	491.15	1098.00	1,2	510.00	4.6320
576	BiCl3	bismuth trichloride	7787-60-2	1.38859	0.27309	1178.00	0.40000	503.15	1060.20	1,2	560.00	3.7850
626	BrF3	bromine trifluoride	7787-71-5	1.08766	0.32363	649.89	0.28571	281.92	649.89	1,2	298.15	2.8030
628	BrF5	bromine pentafluoride	7789-30-2	0.93371	0.27400	470.00	0.28571	211.75	470.00	1,2	211.75	2.7800
633	Br2	bromine	7726-95-6	1.18377	0.29527	584.15	0.32950	265.85	584.15	1,2	265.85	3.2136
637	C	carbon (amphorous)	7440-44-0	0.31475	0.10000	6810.00	0.28571	4765.00	4965.00	1,2	4765.00	1.6110
639	C	graphite	7782-42-5	0.63887	0.27136	6810.00	0.28571	4765.00	6129.00	1,2	4765.00	1.6110
641	CCl2O	carbonyl chloride	75-44-5	0.51316	0.27119	455.00	0.27201	145.37	455.00	1,2	145.37	1.6620
642	CF2O	carbonyl fluoride	353-50-4	0.46780	0.32913	297.00	0.28570	161.89	297.00	1,2	161.89	1.1362
644	CH4N2O	urea	57-13-6	0.56982	0.33700	705.00	0.28571	405.85	505.85	1,2	405.85	1.3350
645	CH4N2S	thiourea	62-56-6	0.30743	0.28700	854.00	0.28571	454.15	768.60	1,2	454.15	0.8398
646	CNBr	cyanogen bromide	506-68-3	0.73999	0.30000	545.03	0.28571	331.15	332.90	1,2	331.15	1.8598
647	CNCl	cyanogen chloride	506-77-4	0.37713	0.22974	449.00	0.23860	266.65	449.00	1,2	266.65	1.2350
648	CNF	cyanogen fluoride	1495-50-7	0.51072	0.27400	368.51	0.28571	200.00	368.51	1,2	200.00	1.4381
651	CN4O8	tetranitromethane	509-14-8	0.44654	0.21788	540.00	0.20276	287.05	540.00	1,2	287.05	1.6494
652	CO	carbon monoxide	630-08-0	0.29818	0.27655	132.92	0.29053	68.15	132.92	1,2	68.15	0.8462
653	COS	carbonyl sulfide	463-58-1	0.44482	0.28943	378.80	0.27140	134.30	378.80	1,2	134.30	1.3376
654	COSe	carbon oxyselenide	1603-84-5	0.71258	0.27400	406.58	0.28571	200.00	406.58	1,2	200.00	2.0710
655	CO2	carbon dioxide	124-38-9	0.46382	0.26160	304.19	0.29030	216.58	304.19	1,2	216.58	1.1806
656	CS2	carbon disulfide	75-15-0	0.47589	0.28749	552.00	0.32260	161.11	552.00	1,2	161.11	1.4516
661	C2N2	cyanogen	460-19-5	0.36145	0.27400	399.90	0.28571	238.75	399.90	1,2	238.75	0.9811
675	Ca	calcium	7440-70-2	0.07756	0.04927	3267.00	0.11441	1115.00	2940.30	1,2	1115.00	1.3679
682	CaBr2	calcium bromide	7789-41-5	0.93240	0.26177	2923.63	0.25000	1015.15	2030.30	1,2	1020.00	3.1080
713	CaCl2	calcium chloride	10043-52-4	0.62349	0.24921	3009.60	0.33000	1045.00	2090.00	1,2	1060.00	2.0783
728	CaF2	calcium fluoride	7789-75-5	0.33727	0.11030	4570.85	0.20000	1691.00	3000.00	1,2	1700.00	2.5140
746	CaI2	calcium iodide	10102-68-8	1.03110	0.24542	3041.71	0.36000	1056.15	2112.30	1,2	1060.00	3.4370
776	Cd	cadmium	7440-43-9	3.72607	0.43396	2291.00	0.28571	594.05	2061.90	1,2	594.05	8.0169
777	CdBr2	cadmium bromide	7789-42-6	1.22460	0.21148	2422.51	0.59000	841.15	1682.30	1,2	850.00	4.0820
791	CdCl2	cadmium chloride	10108-64-2	1.20842	0.30000	2019.79	0.28571	841.15	1200.00	1,2	841.15	3.3925
798	CdF2	cadmium fluoride	7790-79-6	2.01691	0.30000	3296.66	0.28571	793.15	993.15	1,2	793.15	6.1380
804	CdI2	cadmium iodide	7790-80-9	1.54369	0.30000	1741.29	0.28571	658.15	1100.00	1,2	658.15	4.4169
809	CdO	cadmium oxide	1306-19-0	2.20048	0.30000	2983.96	0.28571	1000.00	1200.00	1,2	1000.00	6.4245
830	Ce	cerium	7440-45-1	2.13760	0.31027	11993.80	0.28571	1071.15	1271.15	1,2	1071.15	6.6800
842	CeCl3	cerium (iii) chloride	7790-86-5	0.96240	0.22504	3139.63	0.48000	1090.15	2180.30	1,2	1130.00	3.2080

Table 4 Density of Liquid - Inorganic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
846	CeF3	cerium (iii) fluoride	7758-88-5	1.38450	0.21699	4905.07	0.54000	1703.15	3406.30	1,2	1750.00	4.6150
891	ClF	chlorine monofluoride	7790-89-8	0.60386	0.27400	282.32	0.28571	128.15	282.32	1,2	128.15	1.7945
892	ClFO3	perchloryl fluoride	7616-94-6	0.63654	0.27200	368.40	0.29870	125.41	368.40	1,2	125.41	2.0099
893	ClF3	chlorine trifluoride	7790-91-2	0.68343	0.27400	459.39	0.28571	190.15	459.39	1,2	190.15	2.0766
894	ClF5	chlorine pentafluoride	13637-63-3	0.85421	0.35050	415.90	0.28571	190.00	415.90	1,2	190.00	2.0607
898	ClO2	chlorine dioxide	10049-04-4	0.57694	0.26048	465.00	0.28570	213.55	465.00	1,2	213.55	1.7834
899	Cl2	chlorine	7782-50-5	0.56600	0.27315	417.15	0.28830	172.12	417.15	1,2	172.12	1.7229
900	Cl2O	chlorine monoxide	7791-21-1	0.60356	0.27400	444.68	0.28571	157.15	444.68	1,2	157.15	1.8928
905	Cl2O7	chlorine heptoxide	10294-48-1	0.65031	0.27400	565.78	0.28571	182.15	565.78	1,2	182.15	2.0716
916	Co	cobalt	7440-48-4	2.51864	0.25033	7398.48	0.80000	1768.15	6658.63	1,2	1873.15	7.5400
968	CoCl2	cobalt chloride	7646-79-9	1.05823	0.30000	2154.97	0.28571	1008.15	1208.15	1,2	1008.15	2.8922
1035	Cr	chromium	7440-47-3	2.13536	0.30000	8560.93	0.28571	2180.15	2380.15	1,2	2180.15	6.4600
1049	CrC6O6	chromium carbonyl	13007-92-6	0.63518	0.30000	690.80	0.28571	423.65	690.80	1,2	423.65	1.5903
1099	CrO2Cl2	chromium oxychloride	14977-61-8	0.64832	0.27400	626.33	0.28571	176.65	626.33	1,2	176.65	2.1050
1124	Cs	cesium	7440-46-2	0.28361	0.14024	2048.10	0.28571	301.65	1843.29	1,2	301.65	1.8530
1128	CsBr	cesium bromide	7787-69-1	1.05781	0.24371	2562.13	0.60000	909.15	1500.00	1,2	909.15	3.1316
1137	CsCl	cesium chloride	7647-17-8	0.93727	0.30000	2562.13	0.28571	919.15	1500.00	1,2	919.15	2.7065
1140	CsF	cesium fluoride	13400-13-0	1.26025	0.25546	2482.33	0.50000	976.00	1500.00	1,2	1000.00	3.6179
1144	CsI	cesium iodide	7789-17-5	1.07356	0.24346	2529.56	0.60000	894.15	1500.00	1,2	920.00	3.1523
1147	CsNO3	cesium nitrate	7789-18-6	0.84483	0.23365	1978.99	0.44000	687.15	1374.30	1,2	690.00	2.8161
1165	Cs2SO4	cesium sulfate	10294-54-9	0.91290	0.21152	3681.07	0.58500	1278.15	2556.30	1,2	1300.00	3.0430
1169	Cu	copper	7440-50-8	2.63621	0.30161	5123.00	0.28571	1357.77	4610.70	1,2	1673.15	7.6900
1173	CuBr	cuprous bromide	7787-70-4	1.48318	0.30000	2651.71	0.28571	777.15	977.15	1,2	777.15	4.4131
1229	CuCl	cuprous chloride	7758-89-6	2.79457	0.64708	1800.00	0.80000	703.00	1620.00	1,2	710.00	3.7400
1230	CuCl2	cupric chloride	7447-39-4	1.08795	0.30000	2010.00	0.28571	906.15	1106.15	1,2	906.15	3.0005
1255	CuI	copper iodide	7681-65-4	1.70575	0.30000	2620.77	0.28571	878.15	1078.15	1,2	878.15	4.9802
1302	D2	deuterium	7782-39-0	0.06700	0.31500	38.35	0.28571	18.73	38.35	1,2	18.73	0.1730
1303	D2O	deuterium oxide	7789-20-0	0.35573	0.27421	643.89	0.21000	277.00	643.89	1,2	303.20	1.1034
1307	Dy	dysprosium	7429-91-6	2.62400	0.29728	8561.50	0.28571	1685.15	1885.15	1,2	1685.15	8.2000
1332	Er	erbium	7440-52-0	2.75200	0.29872	9714.25	0.28571	1802.15	2002.15	1,2	1802.15	8.6000
1369	Eu	europium	7440-53-1	1.57191	0.29797	5150.00	0.28571	1095.15	1295.15	1,2	1095.15	4.8700
1404	FHO3S	fluorosulfonic acid	7789-21-1	0.55594	0.25067	715.00	0.37039	184.17	715.00	1,2	184.17	1.9194
1406	FNO	nitrosyl fluoride	7789-25-5	0.49514	0.27400	352.67	0.28571	139.15	352.67	1,2	139.15	1.5201
1409	F2	fluorine	7782-41-4	0.57014	0.28587	144.12	0.28776	53.48	144.12	1,2	53.48	1.7056
1412	F2O	fluorine oxide	7783-41-7	0.55240	0.27016	215.10	0.28571	49.25	215.10	1,2	49.25	1.8618
1420	Fe	iron	7439-89-6	1.99446	0.22457	9340.00	0.70000	1811.00	8406.00	1,2	1923.15	7.1090
1434	FeC5O5	iron pentacarbonyl	13463-40-6	0.49908	0.27400	607.20	0.28571	252.15	607.20	1,2	252.15	1.5153
1502	FeCl2	ferrous chloride	7758-94-3	1.02146	0.30000	2115.88	0.28571	945.15	1145.15	1,2	945.15	2.8233
1505	FeCl3	ferric chloride	7705-08-0	1.02395	0.30000	964.41	0.28571	577.15	584.65	1,2	577.15	2.5892
1575	Ga	gallium	7440-55-3	0.47740	0.07625	7620.00	0.28571	302.91	6858.00	1,2	302.91	6.0780
1578	GaC3H9	gallium, trimethyl	1445-79-0	0.54374	0.38646	510.00	0.28570	257.45	510.00	1,2	257.45	1.1835
1585	GaCl3	gallium trichloride	13450-90-3	0.66952	0.25063	694.00	0.29982	350.90	694.00	1,2	350.90	2.0526
1592.1	GaI2	gallium (ii) iodide	---	1.20420	0.25246	1396.80	0.31000	485.00	970.00	1,2	490.00	4.0140
1610	Gd	gadolinium	7440-54-2	2.68561	0.34705	11309.81	0.28571	1586.15	1786.15	1,2	1586.15	7.4000
1637	Ge	germanium	7440-56-4	1.61357	0.26102	9803.00	0.59646	1210.40	8822.70	1,2	1210.40	5.5849
1639	GeBr4	germanium bromide	13450-92-5	1.02768	0.27400	740.00	0.28571	299.25	380.70	1,2	299.25	3.1386
1661	GeCl4	germanium chloride	10038-98-9	0.64888	0.27400	574.00	0.28571	223.65	574.00	1,2	223.65	1.9973
1668	GeHCl3	germane, trichloro	1184-65-2	0.67714	0.27400	559.78	0.28571	202.05	559.78	1,2	202.05	2.1155
1669	GeH2Br2	germane, dibromo	13769-36-3	1.09428	0.31186	563.33	0.28571	258.15	563.33	1,2	298.15	2.8000
1670	GeH2Cl2	germane, dichloro	15230-48-5	0.67735	0.27219	535.61	0.28571	205.15	535.61	1,2	298.15	1.9000
1671	GeH3Br	germane, bromo	13569-43-2	0.92324	0.30405	515.20	0.28571	241.15	515.20	1,2	298.15	2.3400
1672	GeH3Cl	germane, chloro	13637-65-5	0.65822	0.27464	478.44	0.28571	221.15	478.44	1,2	298.15	1.7500
1675	GeH4	germane	7782-65-2	0.54904	0.30254	308.00	0.28571	107.26	308.00	1,2	107.26	1.5814
1686	Ge2H6	digermane	13818-89-8	0.63111	0.27400	491.01	0.28571	164.15	491.01	1,2	164.15	1.9982
1687	Ge3H8	trigermane	14691-44-2	0.75692	0.27400	616.37	0.28571	167.55	616.37	1,2	167.55	2.4693
1691	HBr	hydrogen bromide	10035-10-6	0.80283	0.28545	363.15	0.28571	185.15	363.15	1,2	185.15	2.2322
1694	HCN	hydrogen cyanide	74-90-8	0.19501	0.18589	456.65	0.28206	259.83	456.65	1,2	259.83	0.7352
1695	HCl	hydrogen chloride	7647-01-0	0.44651	0.27290	324.65	0.32170	158.97	324.65	1,2	158.97	1.2708
1696	HClO3S	chlorosulfonic acid	7790-94-5	0.59672	0.28520	700.00	0.28571	193.15	700.00	1,2	193.15	1.8733
1697	HClO4	perchloric acid	7601-90-3	0.59920	0.26092	631.00	0.34521	171.95	631.00	1,2	171.95	1.9970
1698	HF	hydrogen fluoride	7664-39-3	0.29041	0.17660	461.15	0.37330	189.79	461.15	1,2	189.79	1.2044
1699	HI	hydrogen iodide	10034-85-2	1.04638	0.28826	423.85	0.28571	222.38	423.85	1,2	222.38	2.8608
1702	HNO3	nitric acid	7697-37-2	1.37243	0.83561	520.00	0.19330	231.55	373.15	1,2	231.55	1.6110
1709	H2	hydrogen	1333-74-0	0.03125	0.34730	33.18	0.27560	13.95	33.18	1,2	13.95	0.0776
1712	H2O	water	7732-18-5	0.32500	0.27000	647.13	0.23000	290.00	647.13	1,2	290.00	0.9990
1713	H2O2	hydrogen peroxide	7722-84-1	0.43776	0.23170	730.15	0.38000	272.74	730.15	1,2	298.88	1.4493
1714	H2S	hydrogen sulfide	7783-06-4	0.34459	0.27369	373.53	0.29015	187.68	373.53	1,2	187.68	0.9928
1716	H2SO4	sulfuric acid	7664-93-9	1.49150	0.79186	924.00	0.27130	283.46	610.00	1,2	283.46	1.8424
1718	H2S2	hydrogen disulfide	13465-07-1	0.47306	0.27400	542.39	0.28571	183.45	542.39	1,2	183.45	1.4949
1719	H2Se	hydrogen selenide	7783-07-5	0.67480	0.26335	411.15	0.26250	207.45	411.15	1,2	207.45	2.0468
1721	H2Te	hydrogen telluride	7783-09-7	0.93431	0.27400	438.04	0.28571	224.15	438.04	1,2	224.15	2.6830
1722	H3NO	hydroxylamine	7803-49-8	0.42502	0.27400	574.00	0.28571	306.15	574.00	1,2	306.15	1.2040
1723	H3PO2	hypophosphorous acid	6303-21-5	0.43313	0.23298	627.65	0.25871	293.15	298.15	1,2	295.65	1.4900
1725	H3PO4	phosphoric acid	7664-38-2	1.79505	0.96491	1030.00	0.15872	315.51	393.15	1,2	315.51	1.8566
1738	He	helium-3	14762-55-1	0.04141	0.46660	3.31	0.22300	1.01	3.31	1,2	1.01	0.0836
1739	He	helium-4	7440-59-7	0.06930	0.41860	5.20	0.24100	1.76	5.20	1,2	1.76	0.1524
1740	Hf	hafnium	7440-58-6	3.75257	0.30000	21687.96	0.28571	2506.15	2706.15	1,2	2506.15	12.0000
1771	Hg	mercury	7439-97-6	5.73614	0.40708	1735.00	0.25997	234.29	1561.50	1,2	234.29	13.6299
1773	HgBr2	mercuric bromide	7789-47-1	1.93930	0.30000	964.41	0.28571	510.15	800.00	1,2	510.15	5.1207
1800	HgCl2	mercuric chloride	7487-94-7	1.71179	0.30000	939.98	0.28571	550.15	800.00	1,2	550.15	4.3659

Table 4 Density of Liquid - Inorganic Compounds

			density = A B^-(1 - T/C)^n					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
1813	HgI2	mercuric iodide	7774-29-0	1.93098	0.29040	1078.10	0.32000	532.15	750.00	1,2	540.00	5.1965
1841	Ho	holmium	7440-60-0	2.66880	0.29781	9067.21	0.28571	1747.15	1947.15	1,2	1747.15	8.3400
1868	IF5	iodine pentafluoride	7783-66-6	1.24299	0.31663	594.33	0.28571	282.58	594.33	1,2	298.15	3.1900
1869	IF7	iodine heptafluoride	16921-96-3	1.05176	0.27400	447.53	0.28571	278.65	447.53	1,2	278.65	2.8023
1873	I2	iodine	7553-56-2	1.63746	0.33313	819.15	0.33550	386.75	737.24	1,2	386.75	3.9760
1877	In	indium	7440-74-6	0.55791	0.07561	6730.00	0.28571	429.75	573.15	1,2	429.75	7.0314
1881	InBr3	indium (iii) bromide	13465-09-3	0.93300	0.22168	1996.27	0.51000	693.15	1386.30	1,2	710.00	3.1100
1890	InCl	indium (i) chloride	13465-10-6	1.12200	0.27849	1394.35	0.13500	484.15	968.30	1,2	500.00	3.7400
1891	InCl2	indium (ii) chloride	13465-11-7	0.91200	0.23807	1463.47	0.41000	508.15	1016.30	1,2	510.00	3.0400
1892	InCl3	indium (iii) chloride	10025-82-8	0.10000	0.02259	2465.71	0.50000	856.15	1712.30	1,2	860.00	2.1300
1901	InI3	indium (iii) iodide	13510-35-5	1.24500	0.26103	1382.83	0.25000	480.15	960.30	1,2	490.00	4.1500
1917	Ir	iridium	7439-88-5	6.41388	0.30000	15035.00	0.28571	2719.15	2919.15	1,2	2719.15	20.0000
1960	K	potassium	7440-09-7	0.18711	0.20637	2223.00	0.35970	336.35	2000.70	1,2	336.35	0.8283
1972	KBr	potassium bromide	7758-02-3	0.37889	0.12288	3520.00	0.57980	1007.00	3168.00	1,2	1007.00	2.1254
2009	KCl	potassium chloride	7447-40-7	0.11777	0.05355	3470.00	0.37353	1044.00	3123.00	1,2	1044.00	1.5248
2018	KF	potassium fluoride	7789-23-3	0.66025	0.24785	2891.12	0.55000	1153.15	1500.00	1,2	1160.00	1.8907
2035	KI	potassium iodide	7681-11-0	0.25152	0.07215	3610.00	0.47000	1003.00	3249.00	1,2	1010.00	2.3941
2042	KNO3	potassium nitrate	7757-79-1	0.55890	0.24400	1757.23	0.36400	610.15	1220.30	1,2	620.00	1.8630
2047	KOH	potassium hydroxide	1310-58-3	0.18547	0.09004	2624.00	0.25871	679.00	873.15	1,2	679.00	1.7215
2053	KSCN	potassium thiocyanate	333-20-0	0.47943	0.24807	1284.91	0.34000	446.15	892.30	1,2	450.00	1.5981
2064	K2CO3	potassium carbonate	584-08-7	0.56772	0.23558	3372.91	0.42500	1171.15	2342.30	1,2	1180.00	1.8924
2089	K2Cr2O7	potassium dichromate	7778-50-9	0.68190	0.25157	1987.20	0.32000	690.00	1380.00	1,2	690.00	2.2730
2112	K2MoO4	potassium molybdate	13446-49-6	0.70020	0.21870	3433.39	0.51500	1192.15	2384.30	1,2	1250.00	2.3340
2127	K2SO4	potassium sulfate	7778-80-5	0.56520	0.20774	3865.39	0.62000	1342.15	2684.30	1,2	1350.00	1.8840
2140	K2WO4	potassium tungstate	7790-60-5	0.93930	0.22946	3439.15	0.44500	1194.15	2388.30	1,2	1250.00	3.1310
2162	Kr	krypton	7439-90-9	0.91799	0.28840	209.35	0.29390	115.78	209.35	1,2	115.78	2.4493
2168	La	lanthanum	7439-91-0	1.50549	0.23941	9511.00	0.28571	1191.15	1391.15	1,2	1191.15	5.9600
2171	LaBr3	lanthanum bromide	13536-79-3	3.40000	0.67812	3056.11	0.10000	1061.15	2122.30	1,2	1070.00	4.9324
2177	LaCl3	lanthanum chloride	10099-58-8	0.95865	0.23420	3260.59	0.43000	1132.15	2264.30	1,2	1150.00	3.1955
2182	LaF3	lanthanum fluoride	13709-38-1	1.38000	0.23902	5086.51	0.41000	1766.15	3532.30	1,2	1750.00	4.6000
2203	Li	lithium	7439-93-2	0.11037	0.19951	3503.00	0.35129	453.69	3152.70	1,2	453.69	0.5124
2213	LiBr	lithium bromide	7550-35-8	0.85546	0.28026	2578.42	0.41000	820.15	1500.00	1,2	840.00	2.5246
2253	LiCl	lithium chloride	7447-41-8	0.50679	0.26862	2695.68	0.48000	887.15	1500.00	1,2	900.00	1.4947
2261	LiF	lithium fluoride	7789-24-4	0.62331	0.25973	3182.65	0.52000	1143.15	1700.00	1,2	1150.00	1.8131
2270	LiI	lithium iodide	10377-51-2	0.90000	0.24126	2370.00	0.37000	742.00	1447.00	1,2	750.00	3.1020
2274	LiNO3	lithium nitrate	7790-69-4	0.53040	0.26143	1515.31	0.24000	526.15	1052.30	1,2	550.00	1.7680
2283	Li2CO3	lithium carbonate	554-13-2	0.54780	0.25150	2868.91	0.31500	996.15	1992.30	1,2	1010.00	1.8260
2306	Li2SO4	lithium sulfate	10377-48-7	0.59880	0.24462	3260.59	0.36000	1132.15	2264.30	1,2	1150.00	1.9960
2316	Lu	lutetium	7439-94-3	3.32517	0.29161	4128.66	0.28571	1936.15	2136.15	1,2	1936.15	9.3000
2335	Mg	magnesium	7439-95-4	0.07780	0.03010	2241.04	0.28571	923.15	1023.15	1,2	923.15	1.5786
2341	MgBr2	magnesium bromide	7789-48-2	0.75300	0.24784	2834.35	0.26500	984.15	1968.30	1,2	1000.00	2.6100
2392	MgCl2	magnesium chloride	7786-30-3	0.58060	0.30000	2754.32	0.28571	985.15	1600.00	1,2	985.15	1.6774
2399	MgF2	magnesium fluoride	7783-40-6	0.71100	0.21707	4424.11	0.51000	1536.15	3072.30	1,2	1650.00	2.3700
2424	MgI2	magnesium iodide	10377-58-9	0.91290	0.25450	2612.59	0.29500	907.15	1814.30	1,2	920.00	3.0430
2429	MgO	magnesium oxide	1309-48-4	0.19187	0.01440	5950.00	0.28571	3105.00	5355.00	1,2	3105.00	5.9514
2464	Mn	manganese	7439-96-5	2.09497	0.30000	6902.82	0.28571	1519.15	1719.15	1,2	1519.15	6.4300
2495	MnCl2	manganese (ii) chloride	7773-01-5	0.90334	0.30000	2382.98	0.28571	923.15	1123.15	1,2	923.15	2.5729
2548	Mo	molybdenum	7439-98-7	3.14663	0.30000	9620.00	0.28571	2895.15	3095.15	1,2	2895.15	9.3300
2573	MoF6	molybdenum fluoride	7783-77-9	0.93061	0.27400	498.12	0.28571	290.15	498.12	1,2	290.15	2.5518
2585	MoO3	molybdenum oxide	1313-27-5	1.56112	0.30000	2319.46	0.28571	1068.15	1268.15	1,2	1068.15	4.2834
2607	NClO	nitrosyl chloride	2696-92-6	0.47092	0.27083	440.65	0.24939	213.55	440.65	1,2	213.55	1.4250
2608	NCl3	nitrogen trichloride	10025-85-1	0.57737	0.27400	564.00	0.28571	293.00	564.00	1,2	293.00	1.6500
2613	NF3	nitrogen trifluoride	7783-54-2	0.59826	0.28170	234.00	0.29529	66.46	234.00	1,2	66.46	1.8854
2619	NH3	ammonia	7664-41-7	0.23684	0.25443	405.65	0.28880	195.41	405.65	1,2	195.41	0.7347
2625	NH4Br	ammonium bromide	12124-97-9	0.98286	0.30000	1089.82	0.28571	800.00	980.84	1,2	800.00	2.2420
2627	NH4Cl	ammonium chloride	12125-02-9	0.75456	0.30000	882.00	0.28571	793.20	793.80	1,2	793.20	1.4094
2634	NH4I	ammonium iodide	12027-06-4	1.00871	0.30000	1104.32	0.28571	800.00	993.89	1,2	800.00	2.3204
2645	NH5S	ammonium hydrogensulfide	12124-99-1	0.49634	0.30000	499.10	0.28571	391.15	455.37	1,2	391.15	1.0799
2674	NO	nitric oxide	10102-43-9	0.51712	0.30440	180.15	0.24200	109.50	180.15	1,2	109.50	1.3349
2676	NO2	nitrogen dioxide	10102-44-0	0.55409	0.28287	431.15	0.23882	261.90	431.15	1,2	261.90	1.5214
2678	N2	nitrogen	7727-37-9	0.31422	0.28610	126.20	0.29660	63.15	126.20	1,2	63.15	0.8702
2684	N2F4	tetrafluorohydrazine	10036-47-2	0.54042	0.27760	309.35	0.28570	111.65	309.35	1,2	111.65	1.6691
2685	N2H4	hydrazine	302-01-2	0.20285	0.12073	653.15	0.35000	274.69	653.15	1,2	388.23	0.9497
2701	N2H6O	hydrazine hydrate	7803-57-8	0.37734	0.29390	595.60	0.28571	221.45	595.60	1,2	298.15	1.0300
2747	N2O	nitrous oxide	10024-97-2	0.44927	0.27244	309.57	0.28820	182.30	309.57	1,2	182.30	1.2292
2748	N2O3	nitrogen trioxide	10544-73-7	0.38980	0.18425	425.00	0.25871	263.15	268.15	1,2	263.15	1.4557
2749	N2O4	nitrogen tetraoxide	10544-72-6	0.63412	0.31000	431.15	0.30000	261.90	431.15	1,2	299.32	1.4409
2750	N2O5	nitrogen pentoxide	10102-03-1	0.55485	0.27400	515.51	0.28571	303.15	311.65	1,2	303.15	1.5156
2781	Na	sodium	7440-23-5	0.19819	0.19553	2573.00	0.37200	370.95	2573.00	1,2	370.95	0.9276
2800	NaBr	sodium bromide	7647-15-6	0.25853	0.07847	4287.00	0.53000	1020.00	2500.00	1,2	1030.00	2.3334
2810	NaCN	sodium cyanide	143-33-9	0.17117	0.11000	2900.00	0.28571	973.15	1173.15	1,2	973.15	1.2200
2855	NaCl	sodium chloride	7647-14-5	0.22113	0.10591	3400.00	0.37527	1073.90	3060.00	1,2	1073.90	1.5497
2864	NaF	sodium fluoride	7681-49-4	0.22700	0.08221	5530.00	0.58000	1269.00	2500.00	1,2	1270.00	1.9440
2888	NaI	sodium iodide	7681-82-5	0.29682	0.07909	3950.00	0.49000	933.00	2500.00	1,2	940.00	2.7352
2893	NaNO2	sodium nitrite	7632-00-0	0.54030	0.24561	1567.15	0.34000	544.15	1088.30	1,2	570.00	1.8010
2894	NaNO3	sodium nitrate	7631-99-4	0.57150	0.25010	1670.83	0.33000	580.15	1160.30	1,2	580.00	1.9050
2897	NaOH	sodium hydroxide	1310-73-2	0.20000	0.09705	2820.00	0.27000	596.00	1830.00	1,2	600.00	1.7810
2916	Na2CO3	sodium carbonate	497-19-8	0.59046	0.23924	3258.00	0.40000	1131.25	2262.50	1,2	1140.00	1.9682
2960	Na2MoO4	sodium molybdate	7631-95-0	0.82950	0.24783	2765.23	0.32000	960.15	1920.30	1,2	1020.00	2.7650
2968	Na2O4W	sodium tungstate	13472-45-2	1.01760	0.22453	2796.48	0.27000	971.00	1942.00	1,2	1050.00	3.7920

Table 4 Density of Liquid - Inorganic Compounds

			density = A $B^{-(1-T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
2974	Na2SO4	sodium sulfate	7757-82-6	0.26141	0.10000	3700.00	0.28571	1157.00	2000.00	1,2	1157.00	2.0688
2976	Na2S4	sodium tetrasulfide	12034-39-8	0.19000	0.06778	3200.00	0.80000	623.00	823.00	1,2	623.00	1.8270
3019	Nb	niobium	7440-03-1	2.48435	0.30000	17904.10	0.28571	2750.15	2950.15	1,2	2750.15	7.8300
3037	NbF5	niobium (v) fluoride	7783-68-8	1.09002	0.30000	811.32	0.28571	348.65	423.40	1,2	348.65	3.0394
3057	Nd	neodymium	7440-00-8	2.02652	0.28826	10665.10	0.28571	1294.15	1494.15	1,2	1294.15	6.7200
3060	NdBr3	neodymium tribromide	13536-80-6	1.26846	0.25875	2750.83	0.27000	955.15	1910.30	1,2	960.00	4.2282
3091	Ne	neon	7440-01-9	0.48504	0.30670	44.40	0.27860	24.56	44.40	1,2	24.56	1.2470
3092	Ni	nickel	7440-02-0	2.56376	0.25892	6986.15	0.70000	1728.15	6287.54	1,2	1873.15	7.5950
3105	NiC4O4	nickel carbonyl	13463-39-3	0.47753	0.27400	508.40	0.28571	248.15	508.40	1,2	248.15	1.3911
3139	NiF2	nickel fluoride	10028-18-9	1.52939	0.30000	3278.75	0.28571	1723.15	1923.15	1,2	1723.15	4.0465
3198	O2	oxygen	7782-44-7	0.43600	0.29060	154.58	0.29240	54.35	154.58	1,2	90.15	1.1351
3199	O3	ozone	10028-15-6	0.53954	0.29884	261.00	0.28523	80.15	261.00	1,2	80.15	1.6013
3200	Os	osmium	7440-04-2	6.48474	0.30000	16878.68	0.28571	3306.15	3506.15	1,2	3306.15	20.1000
3222	OsO4	osmium tetroxide	20816-12-0	1.62701	0.30000	656.60	0.28571	329.15	366.15	1,2	329.15	4.3653
3234	P	phosphorus (white)	7723-14-0	1.02120	0.50058	993.75	0.66360	317.55	894.38	1,2	317.55	1.7453
3235	P	phosphorus (red)	7723-14-0	0.96106	0.80200	993.75	0.09118	853.15	894.38	1,2	853.15	1.1559
3238	PBr3	phosphorus tribromide	7789-60-8	0.93428	0.27400	711.00	0.28571	233.15	711.00	1,2	233.15	2.9674
3252	PC3H9O4	phosphate, trimethyl	512-56-1	0.50567	0.34496	729.00	0.39266	227.00	729.00	1,2	227.00	1.2680
3280	PC6H15O4	phosphate, triethyl	78-40-0	0.31086	0.23183	757.00	0.34137	216.65	681.30	1,2	216.65	1.1439
3381	PCl3	phosphorus (iii) chloride	7719-12-2	0.52827	0.25681	563.15	0.29690	181.15	563.15	1,2	181.15	1.7741
3382	PCl5	phosphorus pentachloride	10026-13-8	1.38262	0.30000	646.15	0.28571	433.15	504.20	1,2	433.15	3.3228
3389	PH3	phosphine	7803-51-2	0.30087	0.29028	324.75	0.36975	139.37	324.75	1,2	139.37	0.8222
3392	PH4I	phosphonium iodide	12125-09-6	1.01597	0.27400	539.70	0.28571	291.65	539.70	1,2	291.65	2.8651
3396	POCl3	phosphorus oxychloride	10025-87-3	0.76178	0.35087	602.15	0.42596	274.33	602.15	1,2	274.33	1.7096
3397	PSBr3	phosphorus thiobromide	3931-89-3	0.94173	0.30000	729.89	0.28571	311.15	379.65	1,2	311.15	2.6306
3398	PSCl3	phosphorus thiochloride	3982-91-0	0.56545	0.28862	638.82	0.25871	242.75	371.65	1,2	242.75	1.6954
3448	P2O3	phosphorus trioxide	1314-24-5	0.49723	0.17857	667.60	0.28571	296.95	667.60	1,2	298.15	2.1300
3451	P2S5	phosphorus (v) sulfide	1314-80-3	0.63096	0.30000	1291.00	0.28571	596.15	1161.90	1,2	596.15	1.7301
3461	P4O6	phosphorous (iii) oxide	12440-00-5	0.70154	0.27400	714.86	0.28571	295.65	714.86	1,2	295.65	2.1320
3483	Pb	lead	7439-92-1	1.73000	0.15282	5400.00	0.28571	600.64	4860.00	1,2	923.15	10.2650
3487	PbBr2	lead bromide	10031-22-8	1.92627	0.30000	1933.47	0.28571	646.15	1500.00	1,2	646.15	5.6264
3504	PbC8H20	tetraethyl lead	78-00-2	0.50856	0.25781	655.00	0.23388	139.41	655.00	1,2	139.41	1.8323
3514	PbCl2	lead chloride	7758-95-4	1.72887	0.28860	1998.62	0.34000	774.15	1500.00	1,2	780.00	4.9420
3521	PbF2	lead fluoride	7783-46-2	2.79825	0.30000	2550.73	0.28571	1128.15	1328.15	1,2	1128.15	7.7522
3530	PbI2	lead iodide	10101-63-0	2.01004	0.30000	1865.07	0.28571	675.15	875.15	1,2	675.15	5.7953
3537	PbO	lead oxide	1317-36-8	3.18209	0.30000	2842.26	0.28571	1163.15	1363.15	1,2	1163.15	8.9658
3545	PbS	lead sulfide	1314-87-0	2.70282	0.30000	2531.19	0.28571	1387.15	1470.65	1,2	1387.15	7.0560
3571	Pd	palladium	7440-05-3	3.31600	0.26650	10669.07	0.75000	1828.05	9602.16	1,2	1973.15	10.3100
3637	Pm	promethium	7440-12-2	2.20800	0.30571	10228.86	0.28571	1315.15	1515.15	2	1315.15	6.9000
3641	Po	polonium	7440-08-6	2.76115	0.30000	3013.08	0.28571	527.15	727.15	1,2	527.15	8.6301
3650	Pr	praseodymium	7440-10-0	2.10880	0.30930	12306.26	0.28571	1204.15	1404.15	1,2	1204.15	6.5900
3691	Pt	platinum	7440-06-4	6.65186	0.26561	6983.00	0.70000	2041.55	6284.70	1,2	2073.15	18.7450
3773	Ra	radium	7440-14-4	1.49145	0.30000	4862.82	0.28571	973.15	1173.15	1,2	973.15	4.6150
3781	Rb	rubidium	7440-17-7	0.34600	0.21564	2093.00	0.37000	312.46	1883.70	1,2	312.46	1.4815
3786	RbBr	rubidium bromide	7789-39-1	0.91773	0.23888	2646.82	0.62000	955.15	1800.00	1,2	970.00	2.6994
3791	RbCl	rubidium chloride	7791-11-9	0.76254	0.23646	2694.06	0.63000	988.15	1800.00	1,2	990.00	2.2466
3795	RbF	rubidium fluoride	13446-74-7	1.19655	0.30000	2738.03	0.28571	1033.15	1233.15	1,2	1033.15	3.4247
3801	RbI	rubidium iodide	7790-29-6	0.97769	0.24073	2568.65	0.61000	915.15	1800.00	1,2	930.00	2.8864
3803	RbNO3	rubidium nitrate	13126-12-0	0.74280	0.24581	1665.07	0.35000	578.15	1156.30	1,2	590.00	2.4760
3822	Rb2SO4	rubidium sulfate	7488-54-2	0.76320	0.21768	3810.67	0.54000	1323.15	2646.30	1,2	1350.00	2.5440
3828	Re	rhenium	7440-15-5	6.01402	0.30000	21482.82	0.28571	3459.15	3659.15	1,2	3459.15	18.9000
3875	Re2O7	rhenium heptoxide	1314-68-7	2.10435	0.30000	1035.10	0.28571	569.15	602.35	1,2	569.15	5.4875
3880	Rh	rhodium	7440-16-6	3.40525	0.30000	12906.61	0.28571	2237.15	2437.15	1,2	2237.15	10.6500
3940	Rn	radon	10043-92-2	1.58779	0.28111	377.40	0.28571	202.15	377.40	1,2	202.15	4.4000
3941	Ru	ruthenium	7440-18-8	3.48198	0.30000	15247.14	0.28571	2607.15	2807.15	1,2	2607.15	10.9000
3974	RuF5	ruthenium (v) fluoride	14521-18-7	0.90813	0.30000	977.44	0.28571	359.65	559.65	1,2	359.65	2.6109
3991	S	sulfur	7704-34-9	0.20468	0.10440	1313.00	0.11400	388.36	1181.70	1,2	388.36	1.7944
3994	SCl2	sulfur dichloride	10545-99-0	0.56268	0.27258	542.00	0.26470	151.15	542.00	1,2	151.15	1.8534
3996	SCl2O	thionyl chloride	7719-09-7	0.57200	0.27016	567.00	0.29906	168.65	567.00	1,2	168.65	1.8571
3998	SF4	sulfur tetrafluoride	7783-60-0	0.68957	0.27400	364.00	0.28571	149.15	364.00	1,2	149.15	2.0999
4001	SF6	sulfur hexafluoride	2551-62-4	0.73472	0.27010	318.69	0.29210	223.15	318.69	1,2	223.15	1.8449
4004	SOBr2	thionyl bromide	507-16-4	0.89295	0.27400	661.75	0.28571	220.95	661.75	1,2	220.95	2.8278
4005	SOCl2	thionyl chloride	7719-09-7	0.58606	0.27659	567.00	0.30630	172.00	567.00	1,2	172.00	1.8518
4006	SOF2	thionyl fluoride	7783-42-8	0.60330	0.27400	371.25	0.28571	162.65	371.25	1,2	162.65	1.8089
4007	SO2	sulfur dioxide	7446-09-5	0.52210	0.25842	430.75	0.28950	197.67	430.75	1,2	197.67	1.6207
4008	SO2Cl2	sulfuryl chloride	7791-25-5	0.57681	0.26336	545.00	0.29557	219.00	545.00	1,2	219.00	1.8148
4010	SO3	sulfur trioxide	7446-11-9	0.63035	0.19013	490.85	0.43590	289.95	490.85	1,2	289.95	1.9409
4013	S2Cl2	sulfur monochloride	10025-67-9	0.56169	0.27400	659.37	0.28571	193.15	659.37	1,2	193.15	1.8144
4023	Sb	antimony	7440-36-0	1.69927	0.24231	5070.00	0.28571	903.78	4563.00	1,2	903.78	6.4910
4025	SbBr3	antimony tribromide	7789-61-9	1.42997	0.30000	892.75	0.28571	369.75	458.95	1,2	369.75	4.0191
4042	SbCl3	antimony trichloride	10025-91-9	0.84488	0.25331	794.00	0.30257	346.55	714.60	1,2	346.55	2.6800
4044	SbCl5	antimony pentachloride	7647-18-9	0.78102	0.27400	662.54	0.28571	275.95	662.54	1,2	275.95	2.3698
4047	SbH3	stibine	7803-52-3	0.90538	0.31372	440.35	0.28571	185.15	440.35	1,2	185.15	2.4413
4049	SbI3	antimony triiodide	7790-44-5	1.68384	0.30000	1097.96	0.28571	440.15	640.15	1,2	440.15	4.7641
4056	Sb2O3	antimony (iii) oxide	1309-64-4	1.72636	0.30000	2765.72	0.28571	929.15	1129.15	1,2	929.15	5.0384
4065	Sc	scandium	7440-20-2	0.90098	0.29526	8035.08	0.28571	1814.15	2014.15	1,2	1814.15	2.8000
4071	ScCl3	scandium chloride	10361-84-9	0.50100	0.18853	3493.44	0.76500	1213.00	2426.00	1,2	1213.00	1.6700
4083	Se	selenium (gray)	7782-49-2	0.75697	0.16124	1766.00	0.28571	494.15	694.15	1,2	494.15	3.9871
4089	SeCS	selenosulfide, carbon	5951-19-9	0.69071	0.27400	576.53	0.28571	197.95	576.53	1,2	197.95	2.1771
4107	SeCl4	selenium tetrachloride	10026-03-6	0.76605	0.27400	743.95	0.28571	400.00	600.00	1,2	400.00	2.1641

Table 4 Density of Liquid - Inorganic Compounds

				density = A B $^{-(1 - T/C)^n}$				(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
4109	SeF4	selenium tetrafluoride	13465-66-2	1.00046	0.29360	608.64	0.28571	263.15	608.64	1,2	298.15	2.7500
4110	SeF6	selenium hexafluoride	7783-79-1	0.85211	0.27400	368.80	0.28571	238.45	368.80	1,2	238.45	2.2295
4115	SeOCl2	selenium oxychloride	7791-23-3	0.79805	0.27400	706.80	0.28571	281.65	706.80	1,2	281.65	2.4450
4116	SeOF2	selenium oxyfluoride	7783-43-9	0.92879	0.26650	635.50	0.28571	288.15	635.50	1,2	298.15	2.8000
4117	SeO2	selenium dioxide	7446-08-4	1.33585	0.30000	961.16	0.28571	613.15	736.82	1,2	613.15	3.2878
4123	Se2C	diselenide, carbon	506-80-9	0.90535	0.27844	665.03	0.28571	229.45	665.03	1,2	298.15	2.6626
4140	Si	silicon	7440-21-3	1.73001	0.64037	5159.00	0.30000	1685.00	4643.10	1,2	1687.00	2.5700
4143	SiBrCl2F	silane, bromodichlorofluoro	---	0.66872	0.27400	497.17	0.28571	160.85	497.17	1,2	160.85	2.1285
4143.1	SiBrF3	silane, bromotrifluoro	---	0.72447	0.27400	375.28	0.28571	202.65	375.28	1,2	202.65	2.0436
4144	SiBr2ClF	silane, dibromochlorofluoro	---	0.81945	0.27400	535.27	0.28571	173.85	535.27	1,2	173.85	2.6067
4145	SiBr3Cl	silane, tribromochloro	13465-76-4	0.99013	0.32690	614.74	0.28571	252.35	614.74	1,2	298.15	2.4970
4146	SiBr4	tetrabromosilane	7789-66-4	0.91021	0.26374	663.00	0.28571	278.54	663.00	1,2	298.15	2.8000
4149	SiCH3Cl3	silane, methyltrichloro	75-79-6	0.43982	0.26111	517.00	0.27788	195.35	517.00	1,2	195.35	1.4269
4150	SiCH4Cl2	silane, methyldichloro	75-54-7	0.39804	0.28209	483.00	0.22529	182.55	483.00	1,2	182.55	1.2410
4152	SiC2H5Cl3	silane, ethyltrichloro	115-21-9	0.39503	0.24246	559.95	0.29509	167.55	559.95	1,2	167.55	1.4148
4153	SiC2H6Cl2	silane, dimethyldichloro	75-78-5	0.36073	0.25095	520.35	0.28758	197.05	520.35	1,2	197.05	1.2045
4157	SiC3H10	silane, trimethyl	933-07-7	0.23858	0.26428	432.00	0.29230	137.26	432.00	1,2	137.26	0.7843
4187	SiC7H8Cl2	silane, methylphenyldichloro	149-74-6	0.37625	0.25350	689.00	0.33126	229.65	689.00	1,2	229.65	1.2491
4196	SiC8H20	silane, tetraethyl	631-36-7	0.24588	0.25676	606.00	0.27087	190.65	606.00	1,2	190.65	0.8390
4238	SiClC3H9	chlorotrimethylsilane	75-77-4	0.29484	0.24793	497.75	0.29726	215.45	497.75	1,2	215.45	0.9578
4240	SiClF3	silane, chlorotrifluoro	14049-36-6	0.56426	0.27400	330.54	0.28571	131.15	330.54	1,2	131.15	1.7303
4241	SiCl2F2	silane, dichlorodifluoro	18356-71-3	0.55307	0.27400	390.93	0.28571	133.45	390.93	1,2	133.45	1.7450
4242	SiCl3Br	silane, bromotrichloro	13465-74-2	0.69835	0.29974	545.50	0.28571	211.15	545.50	1,2	298.15	1.8260
4243	SiCl3F	silane, trichlorofluoro	14965-52-7	0.54467	0.27400	460.49	0.28571	152.35	460.49	1,2	152.35	1.7275
4244	SiCl4	silicon tetrachloride	10026-04-7	0.51929	0.26466	507.00	0.27618	204.30	507.00	1,2	204.30	1.6446
4245	SiF4	silicon tetrafluoride	7783-61-1	0.51526	0.24128	259.00	0.16693	186.35	259.00	1,2	186.35	1.6272
4246	SiHBr3	silane, tribromo	7789-57-3	1.05904	0.32450	610.00	0.28571	199.65	610.00	1,2	199.65	2.8930
4247	SiHCl3	silane, trichloro	10025-78-2	0.50208	0.27817	479.00	0.27626	144.95	479.00	1,2	144.95	1.5988
4248	SiHF3	silane, trifluoro	13465-71-9	0.51882	0.27400	291.02	0.28571	141.75	291.02	1,2	141.75	1.5123
4250	SiH2Br2	silane, dibromo	13768-94-0	0.77365	0.28512	550.00	0.28571	202.95	550.00	1,2	202.95	2.3245
4251	SiH2Cl2	silane, dichloro	4109-96-0	0.42619	0.26767	459.00	0.22750	151.15	459.00	1,2	151.15	1.4200
4252	SiH2F2	silane, difluoro	13824-36-7	0.44709	0.27400	318.21	0.28571	150.00	318.21	1,2	150.00	1.3153
4253	SiH2I2	silane, diiodo	13760-02-6	0.97501	0.28278	660.00	0.28571	272.15	660.00	1,2	272.15	2.8858
4257	SiH3Br	silane, monobromo	13465-73-1	0.55308	0.26469	454.00	0.28571	179.25	454.00	1,2	179.25	1.7494
4258	SiH3Cl	silane, monochloro	13465-78-6	0.35290	0.25554	396.65	0.28571	155.05	396.65	1,2	155.05	1.1533
4259	SiH3F	silane, monofluoro	13537-33-2	0.36018	0.27400	286.28	0.28571	150.00	286.28	1,2	150.00	1.0264
4260	SiH3I	silane, iodo	13598-42-0	0.70808	0.25939	515.00	0.28571	216.15	515.00	1,2	216.15	2.2477
4261	SiH4	silane	7803-62-5	0.24205	0.28405	269.70	0.39578	88.48	269.70	1,2	88.48	0.7094
4265	SiO2	silicon dioxide (alpha quartz)	14808-60-7	1.76380	0.65205	3780.00	0.28571	1696.00	2503.00	1,2	1696.00	2.5300
4274	Si2C6H18O	disiloxane, hexamethyl	107-46-0	0.27018	0.26863	518.70	0.28099	204.93	518.70	1,2	204.93	0.8459
4275	Si2C6H19N	disilazane, hexamethyl	999-97-3	0.26371	0.25980	544.00	0.28570	293.15	544.00	1,2	293.15	0.7769
4286	Si2Cl6	disilane, hexachloro	13465-77-5	0.51982	0.27400	660.96	0.28571	271.95	660.96	1,2	271.95	1.5816
4287	Si2Cl6O	disiloxane, hexachloro	14986-21-1	0.53229	0.27400	655.58	0.28571	239.95	655.58	1,2	239.95	1.6587
4288	Si2F6	disilane, hexafluoro	---	0.54778	0.27400	411.33	0.28571	254.55	411.33	1,2	254.55	1.4636
4288.1	Si2H5Cl	dislanyl chloride	---	0.34804	0.27400	506.89	0.28571	250.00	506.89	1,2	250.00	1.0108
4289	Si2H6	disilane	1590-87-0	0.27952	0.31790	432.00	0.28571	140.65	432.00	1,2	140.65	0.7783
4290	Si2H6O	disiloxane	13597-73-4	0.31264	0.27400	416.86	0.28571	128.95	416.86	1,2	128.95	1.0020
4291	Si2OCl3F3	disiloxane, trichlorotrifluoro	---	0.54394	0.27400	508.78	0.28571	150.00	508.78	1,2	150.00	1.7555
4295	Si3Cl8	octachlorotrisilane	---	0.51452	0.27400	775.41	0.28571	250.00	697.87	1,2	250.00	1.6386
4296	Si3H8	trisilane	7783-26-8	0.26010	0.27400	525.15	0.28571	155.95	525.15	1,2	155.95	0.8386
4297	Si3H9N	trisilazane	---	0.31120	0.27400	518.20	0.28571	167.45	518.20	1,2	167.45	0.9907
4300	Si4H10	tetrasilane	7783-29-1	0.26613	0.27400	599.30	0.28571	179.55	599.30	1,2	179.55	0.8569
4303	Sm	samarium	7440-19-9	2.30412	0.28994	5082.92	0.28571	1347.15	1547.15	1,2	1347.15	7.1600
4332	Sn	tin (white)	7440-31-5	0.68914	0.09454	7400.00	0.27000	505.08	6660.00	1,2	505.08	6.9860
4335	SnBr4	stannic bromide	7789-67-5	1.09276	0.27400	764.82	0.28571	304.15	391.00	1,2	304.15	3.3493
4422	SnCl2	stannous chloride	7772-99-8	1.15953	0.29336	1459.53	0.32000	519.95	1200.00	1,2	520.00	3.3640
4424	SnCl4	stannic chloride	7646-78-8	0.75734	0.27400	619.85	0.28571	242.95	619.85	1,2	242.95	2.3283
4433	SnI4	stannic iodide	7790-47-8	1.51710	0.30000	1011.64	0.28571	417.65	617.65	1,2	417.65	4.2668
4461	Sr	strontium	7440-24-6	0.78222	0.30000	4267.20	0.28571	1050.15	1250.15	1,2	1050.15	2.3750
4464	SrBr2	strontium bromide	10476-81-0	1.10700	0.25696	2678.83	0.28000	930.15	1860.30	1,2	940.00	3.6900
4479	SrCl2	strontium chloride	10476-85-4	0.81396	0.24736	3303.79	0.34000	1147.15	2294.30	1,2	1170.00	2.7132
4484	SrF2	strontium fluoride	7783-48-4	1.04100	0.21117	5040.43	0.60000	1750.15	3500.30	1,2	1750.15	3.4700
4492	SrI2	strontium iodide	10476-86-5	1.22310	0.26087	2269.87	0.24500	788.15	1576.30	1,2	820.00	4.0770
4517	Ta	tantalum	7440-25-7	4.78107	0.30000	19900.93	0.28571	3290.15	3490.15	1,2	3290.15	15.0000
4550	Tb	terbium	7440-27-9	2.44800	0.30358	11138.10	0.28571	1629.15	1829.15	1,2	1629.15	7.6500
4570	Tc	technetium	7440-26-8	3.34979	0.30000	17400.77	0.28571	2430.15	2630.15	1,2	2430.15	10.6145
4583	Te	tellurium	13494-80-9	1.83626	0.30000	4840.00	0.28571	722.66	922.66	1,2	722.66	5.7970
4588	TeCl4	tellurium tetrachloride	10026-07-0	0.93555	0.30000	1083.31	0.28571	497.15	581.15	1,2	497.15	2.5692
4590	TeF6	tellurium hexafluoride	7783-80-4	1.16414	0.27400	380.18	0.28571	235.35	380.18	1,2	235.35	3.1100
4639	Ti	titanium	7440-32-6	1.38759	0.30000	6400.00	0.28571	1941.15	2141.15	1,2	1941.15	4.1100
4678	TiCl4	titanium tetrachloride	7550-45-0	0.55691	0.26324	638.00	0.27260	249.05	638.00	1,2	249.05	1.7877
4703	Tl	thallium	7440-28-0	1.79212	0.14783	4648.06	0.28571	577.15	4183.25	1,2	577.15	11.2913
4704	TlBr	thallous bromide	7789-40-4	2.55912	0.30000	1778.75	0.28571	733.15	933.15	1,2	733.15	7.1999
4719	TlCl	thallium chloride	7791-12-0	1.68450	0.24725	2025.07	0.34500	703.15	1406.30	1,2	710.00	5.6150
4728	TlI	thallium iodide	7790-30-9	2.38850	0.30000	1785.26	0.28571	713.15	913.15	1,2	713.15	6.7626
4731	TlNO3	thallium (i) nitrate	10102-45-1	1.46610	0.26093	1379.95	0.25000	479.15	958.30	1,2	490.00	4.8870
4747	Tm	thulium	7440-30-4	2.88674	0.28545	6283.16	0.28571	1818.15	2018.15	2	1818.15	9.0000
4766	U	uranium	7440-61-1	5.57293	0.30000	13712.62	0.28571	1408.15	1608.15	1,2	1408.15	17.9070
4787	UF6	uranium fluoride	7783-81-5	1.74575	0.27705	505.80	0.28571	342.35	401.33	1,2	342.35	4.4224
4836	V	vanadium	7440-62-2	1.78294	0.30000	11787.15	0.28571	2183.15	2383.15	1,2	2183.15	5.5500

Table 4 Density of Liquid - Inorganic Compounds

			density = A B $^{-(1 - T/C)^n}$					(density - g/ml, T - K)				
ID	FORMULA	NAME	CAS No	A	B	C	n	TMIN	TMAX	code	T, K	density @ T
4860	VCl4	vanadium tetrachloride	7632-51-1	0.71831	0.33057	697.00	0.31162	247.45	697.00	1,2	247.45	1.8864
4880	VOCl3	vanadium oxytrichloride	7727-18-6	0.59758	0.29177	636.00	0.31711	193.65	636.00	1,2	193.65	1.7913
4899	W	tungsten	7440-33-7	5.84023	0.30000	14756.00	0.28571	3695.15	3895.15	1,2	3695.15	17.7000
4917	WF6	tungsten fluoride	7783-82-6	1.28420	0.27400	468.56	0.28571	272.65	468.56	1,2	272.65	3.5228
4945	Xe	xenon	7440-63-3	1.10648	0.28552	289.74	0.28967	161.36	289.74	1,2	161.36	2.9783
4960	Y	yttrium	7440-65-5	1.32860	0.29141	9381.32	0.28571	1795.15	1995.15	1,2	1795.15	4.2400
4976	YCl3	yttrium chloride	10361-92-9	0.75510	0.25459	2863.15	0.30500	994.15	1988.30	1,2	980.00	2.5170
4995	Yb	ytterbium	7440-64-4	2.12198	0.31165	4365.92	0.28571	1092.15	1292.15	1,2	1092.15	6.2100
5021	Zn	zinc	7440-66-6	1.98150	0.27115	3170.00	0.34000	692.70	2853.00	1,2	812.15	6.4270
5024	ZnBr2	zinc bromide	7699-45-8	1.04100	0.25804	1921.39	0.27500	667.15	1334.30	1,2	670.00	3.4700
5062	ZnCl2	zinc chloride	7646-85-7	0.84382	0.32317	1637.05	0.19000	638.15	1200.00	1,2	720.00	2.3210
5069	ZnF2	zinc fluoride	7783-49-5	1.61024	0.30000	2882.98	0.28571	1145.15	1345.15	1,2	1145.15	4.5642
5113	Zr	zirconium	7440-67-7	1.90680	0.30000	8802.00	0.28571	2128.15	2328.15	1,2	2128.15	5.8000
5142	ZrCl4	zirconium chloride	10026-11-6	1.08375	0.30000	983.96	0.28571	710.15	836.75	1,2	710.15	2.4989
5150	ZrI2	zirconium diiodide	15513-85-6	1.16310	0.24116	2070.72	0.39000	719.00	1438.00	1,2	720.00	3.8770

code: 1 - data, 2 - estimate

density - density of liquid, g/ml

A, B, C, and n - regression coefficients of chemical compound

T- temperature, K

TMAX - maximum temperature, K

TMIN - minimum temperature, K

Chapter 5

DENSITY OF SOLID – ORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 5. The tabulation is arranged by carbon number (C, C2, C3, ...) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for representative temperature and density at the representative temperature are given in the adjacent columns. The next column provides the code for the tabulation.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-11). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (1-2), Daubert and Danner (3), and Yaws (10-11) were used extensively for solid density. Many of the estimates are based on extending the liquid density to the triple point (3).

Example

In an engineering analysis, the solid density is needed for cyanogen bromide (CBrN) at 20 C. Determine the solid density of cyanogen bromide at this temperature.

Inspection of the tabulation for solid density yields:

density = 2.015 g/ml

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Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
15	CBrCl2F	bromodichlorofluoromethane	353-58-2	-159.50	3.0364	2	293	CH5NO3S	methylsulfamic acid	4112-03-2	25.00	1.3387	2
17	CBrF3	bromotrifluoromethane	75-63-8	-168.00	2.8293	2	294	CH5N3	guanidine	113-00-8	25.00	0.9997	2
19	CBrN	cyanogen bromide	506-68-3	20.00	2.0150	1	295	CH5N3O	hydrazinecarboxamide-	57-56-7	25.00	1.1602	2
22	CBr2Cl2	dibromodichloromethane	594-18-3	25.00	2.4200	1	296	CH5N3O4	urea nitrate	124-47-0	20.00	1.6900	1
23	CBr2F2	dibromodifluoromethane	75-61-6	-110.10	3.0423	2	297	CH5N3S	hydrazinecarbothioamide	79-19-6	25.00	1.2208	2
26	CBr3Cl	tribromochloromethane	594-15-0	15.00	2.7100	1	299	CH5N5O2	3-amino-1-nitroguanidine	18264-75-0	25.00	1.5109	2
29	CBr4	carbon tetrabromide	558-13-4	100.00	2.9608	1	304	CH6ClN	methylamine hydrochloride	593-51-1	25.00	0.9339	2
31	CCaO3	calcium carbonate	471-34-1	25.00	2.9138	1	307	CH6ClN3	guanidine monohydrochloride	50-01-1	20.00	1.3540	1
34	CClF3	chlorotrifluoromethane	75-72-9	-181.00	2.1623	2	308	CH6ClN3O	semicarbazide hydrochloride	563-41-7	25.00	1.2908	2
39	CClN	cyanogen chloride	506-77-4	-7.00	1.4446	2	314	CH6N2O3	hydrogen peroxide–urea adduct	124-43-6	25.00	1.2346	2
42	CCl2F2	dichlorodifluoromethane	75-71-8	-158.00	2.1160	2	315	CH6N2S2	ammonium dithiocarbamate	513-74-6	20.00	1.4510	1
44	CCl2O	phosgene	75-44-5	-127.78	1.8350	2	317	CH6N4O	carbonic dihydrazide	497-18-7	20.00	1.6160	1
47	CCl3F	trichlorofluoromethane	75-69-4	-111.11	2.0605	2	318	CH6N4O3	guanidine mononitrate	506-93-4	25.00	1.4415	2
50	CCl4	carbon tetrachloride	56-23-5	-22.82	1.8119	1	319	CH6N4S	carbonothioic dihydrazide	2231-57-4	25.00	1.2727	2
52	CCl4O2S	trichloromethanesulfonyl chloride	2547-61-7	25.00	1.8252	2	328	CH8N2O3	ammonium carbonate	506-87-6	25.00	1.1277	2
60	CCuNS	copper(i) thiocyanate	1111-67-7	25.00	2.8500	1	336	CIN	cyanogen iodide	506-78-5	18.00	2.8400	1
68	CF2O	carbonyl fluoride	353-50-4	-111.26	1.3267	2	337	CI4	carbon tetraiodide	507-25-5	20.00	4.2300	1
74	CF4	carbon tetrafluoride	75-73-0	-183.59	1.9105	1	338	CKN	potassium cyanide	151-50-8	25.00	1.5200	1
92	CHBrF2	bromodifluoromethane	1511-62-2	-145.15	2.7100	2	339	CKNO	potassium cyanate	590-28-3	25.00	2.0500	1
96	CHBr3	bromoform	75-25-2	-120.00	2.8910	1	340	CKNS	potassium thiocyanate	333-20-0	25.00	1.8800	1
97	CHClF2	chlorodifluoromethane	75-45-6	-157.42	1.9974	2	344	CK2O3	potassium carbonate	584-08-7	19.00	2.4549	1
101	CHCl2F	dichlorofluoromethane	75-43-4	-135.00	1.9864	2	346	CLi2O3	lithium carbonate	554-13-2	25.00	2.1110	1
104	CHCl3	chloroform	67-66-3	-63.52	1.8346	1	351	CNNa	sodium cyanide	143-33-9	20.00	1.6000	1
113	CHF3	fluoroform	75-46-7	-155.18	1.9350	2	352	CNNaO	sodium cyanate	917-61-3	20.00	1.8930	1
117	CHI3	iodoform	75-47-8	25.00	4.0080	1	363	CN4O8	tetranitromethane	509-14-8	13.90	1.8000	2
119	CHKO2	potassium formate	590-29-4	25.00	1.9100	1	369	CNa2O3	sodium carbonate	497-19-8	20.00	2.5209	1
122	CHN	hydrogen cyanide	74-90-8	-13.24	1.0320	2	372	CO	carbon monoxide	630-08-0	-205.00	0.9902	2
134	CHNaO2	sodium formate	141-53-7	25.00	1.9190	1	373	COS	carbonyl sulfide	463-58-1	-138.85	1.5620	2
135	CHNaO3	sodium hydrogen carbonate	144-55-8	20.00	2.2170	2	375	CO2	carbon dioxide	124-38-9	-56.57	1.5141	1
137	CHO2Tl	thallium(i) formate	992-98-3	25.00	4.9700	1	382	CS2	carbon disulfide	75-15-0	-115.70	1.5542	1
140	CH2BrCl	bromochloromethane	74-97-5	-87.95	2.5359	2	384	CSi	silicon carbide	409-21-2	20.00	3.1696	1
144	CH2Br2	dibromomethane	74-95-3	-79.00	2.9900	2	393	C2Ag2O4	silver(i) oxalate	533-51-7	25.00	5.0300	1
145	CH2ClF	chlorofluoromethane	593-70-4	-135.15	1.8215	2	399	C2BaO4	barium oxalate	516-02-9	25.00	2.6580	1
147	CH2ClNO	carbamic chloride	463-72-9	50.00	1.0342	2	404	C2BrF3	bromotrifluoroethylene	598-73-2	-100.15	2.6713	2
149	CH2Cl2	dichloromethane	75-09-2	-95.14	1.6330	1	408	C2Br2ClF3	1,2-dibromo-1-chloro-1,2,2-trifluoroethane	354-51-8	25.00	2.3463	2
156	CH2Cu2O5	copper(ii) carbonate hydroxide	12069-69-1	20.00	3.8000	1	409	C2Br2ClF3	1,1-dibromo-1-chloro-2,2,2-trifluoroethane	754-17-6	25.00	2.3463	2
158	CH2F2	difluoromethane	75-10-5	-136.15	1.6700	2	411	C2Br2Cl4	1,2-dibromo-1,1,2,2-tetrachloroethane	630-25-1	25.00	2.7130	1
159	CH2F2N2O	1,1-difluorourea	1510-31-2	25.00	1.4397	2	413	C2Br2F4	1,2-dibromotetrafluoroethane	124-73-2	-110.15	2.9620	2
161	CH2I2	diiodomethane	75-11-6	-20.00	3.3319	1	415	C2Br4	tetrabromoethene	79-28-7	25.00	3.1069	2
165	CH2N2	cyanamide	420-04-2	20.00	1.2820	1	417	C2Ca	calcium carbide	75-20-7	25.00	2.2200	1
169	CH2N2O3	nitrooximinomethane	625-49-0	25.00	1.5479	2	423	C2ClF3	chlorotrifluoroethylene	79-38-9	-158.15	2.1547	2
172	CH2N4	1H-tetrazole	288-94-8	25.00	0.7980	1	427	C2ClF5	chloropentafluoroethane	76-15-3	-99.44	2.0390	2
173	CH2N4S	5-amino-1,2,3,4-thiatriazole	6630-99-5	25.00	1.5619	2	441	C2Cl2F4	1,2-dichloro-1,1,2,2-tetrafluoroethane	76-14-2	-92.53	2.0681	2
175	CH2O	formaldehyde	50-00-0	-92.00	1.0930	2	442	C2Cl2F4	1,1-dichloro-1,2,2,2-tetrafluoroethane	374-07-2	-56.57	1.9656	2
176	CH2O2	formic acid	64-18-6	8.40	1.5200	2	449	C2Cl3F3	1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-33.53	1.9862	2
188	CH3BNNa	sodium cyanoborohydride	25895-60-7	25.00	1.1200	1	450	C2Cl3F3	1,1,1-trichloro-2,2,2-trifluoroethane	354-58-5	14.37	1.8588	2
191	CH3Br	methyl bromide	74-83-9	-93.68	2.3364	2	455	C2Cl4	tetrachloroethylene	127-18-4	-22.35	1.9734	2
196	CH3Cl	methyl chloride	74-87-3	-100.00	1.2000	1	456	C2Cl4F2	1,1,2,2-tetrachloro-1,2-difluoroethane	76-12-0	24.76	1.9241	2
201	CH3ClO2S	methanesulfonyl chloride	124-63-0	-190.00	1.7103	1	457	C2Cl4F2	1,1,1,2-tetrachloro-2,2-difluoroethane	76-11-9	40.60	1.8834	2
206	CH3Cl2OP	methylphosphonic dichloride	676-97-1	25.00	1.4680	1	459	C2Cl4O	trichloroacetyl chloride	76-02-8	-56.95	2.0365	2
214	CH3F	methyl fluoride	593-53-3	-141.80	1.1741	2	462	C2Cl5F	pentachlorofluoroethane	354-56-3	100.00	1.8812	2
222	CH3I	methyl iodide	74-88-4	-66.45	2.9381	2	463	C2Cl6	hexachloroethane	67-72-1	20.00	2.0925	1
232	CH3NO	formamide	75-12-7	-50.00	1.2600	1	468	C2CoO4	cobalt(ii) oxalate	814-89-1	25.00	3.0200	1
235	CH3NO2	nitromethane	75-52-5	-28.55	1.3978	2	482	C2F3KO2	potassium trifluoroacetate	2923-16-2	25.00	1.4900	1
241	CH3N3O3	nitrourea	556-89-8	25.00	1.5697	2	487	C2F3NaO2	sodium trifluoroacetate	2923-18-4	25.00	1.4900	1
243	CH3N5	aminotetrazole	4418-61-5	25.00	1.4524	2	488	C2F4	tetrafluoroethylene	116-14-3	-131.15	2.0103	2
251	CH4	methane	74-82-8	-182.48	0.4862	1	494	C2F6	hexafluoroethane	76-16-4	-190.00	2.0600	1
253	CH4Cl2N2	chloroformamidinium chloride	29671-92-9	25.00	1.3570	2	511	C2HBrClF3	halothane	151-67-7	-115.75	2.5857	2
254	CH4Cl2Si	methyl dichlorosilane	75-54-7	-90.60	1.4494	2	522	C2HBr3O2	tribromoacetic acid	75-96-7	25.00	2.7865	2
257	CH4N2	methanimidamide	463-52-5	25.00	0.8753	2	523	C2HBr5	pentabromoethane	75-95-6	20.00	3.3120	1
259	CH4N2O	N-hydroxymethanimidamide	624-82-8	25.00	1.0734	2	525	C2HClF2	2-chloro-1,1-difluoroethylene	359-10-4	-138.50	1.6249	2
260	CH4N2O	urea	57-13-6	20.00	1.3350	1	529	C2HClF4	2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0	-199.15	2.2655	2
261	CH4N2O	formic acid hydrazide	624-84-0	25.00	1.0734	2	534	C2HCl2F3	1,1-dichloro-1,2,2-trifluoroethane	812-04-4	-63.15	2.0034	2
262	CH4N2O2	hydroxyurea	127-07-1	25.00	1.2353	2	535	C2HCl2F3	1,2-dichloro-1,1,2-trifluoroethane	354-23-4	-78.00	1.9881	2
263	CH4N2O2	N-nitromethanamine	598-57-2	49.00	1.2433	1	536	C2HCl2F3	2,2-dichloro-1,1,1-trifluoroethane	306-83-2	-107.15	2.0493	2
264	CH4N2O2S	formamidinesulfinic acid	1758-73-2	25.00	1.4018	2	539	C2HCl3	trichloroethylene	79-01-6	-84.75	1.9051	2
265	CH4N2S	ammonium thiocyanate	1762-95-4	25.00	1.4027	1	544	C2HCl3O	trichloroacetaldehyde	75-87-6	-57.15	1.9013	2
266	CH4N2S	thiourea	62-56-6	25.00	1.4050	1	547	C2HCl3O2	trichloroacetic acid	76-03-9	50.00	1.6156	1
269	CH4N4O2	nitroguanidine	556-88-7	25.00	1.4854	2	551	C2HCl5	pentachloroethane	76-01-7	-29.00	2.0432	2
272	CH4O	methyl alcohol	67-56-1	-110.00	0.9800	1	556	C2HF3O2	trifluoroacetic acid	76-05-1	-15.25	1.8358	2
275	CH4O3S	methanesulfonic acid	75-75-2	0.00	1.5018	1	558	C2HF5	pentafluoroethane	354-33-6	-103.00	1.9804	2
277	CH4O6S2	methanedisulfonic acid	503-40-2	25.00	1.6517	2	560	C2HF6NO4S2	bistrifluoromethanesulfonimide	82113-65-3	25.00	1.8393	2
278	CH4S	methyl mercaptan	74-93-1	-122.97	1.2123	2	571	C2H2	acetylene	74-86-2	-85.00	0.7300	1
282	CH5ClN2O	urea hydrochloride	506-89-8	25.00	1.2430	2	577	C2H2BrClO2	bromochloroacetic acid	5589-96-8	31.00	1.9848	1
284	CH5ClSi	methyl chlorosilane	993-00-0	-134.10	1.2814	2	578	C2H2BrFO2	bromofluoroacetic acid	359-25-1	25.00	1.9330	2
286	CH5N	methylamine	74-89-5	-93.46	0.8500	2	589	C2H2Br2O2	dibromoacetic acid	631-64-1	25.00	2.3899	2
287	CH5NO2S	methanesulfonamide	3144-09-0	25.00	1.2291	2	591	C2H2Br3NO	tribromoacetamide	594-47-8	25.00	2.6977	2
288	CH5NO	N-hydroxymethanamine	593-77-1	20.00	1.0003	1	592	C2H2Br4	1,1,2,2-tetrabromoethane	79-27-6	0.00	3.5257	2
290	CH5NO2	ammonium formate	540-69-2	25.00	1.0199	2	598	C2H2CaO4	calcium formate	544-17-2	25.00	2.0200	1
292	CH5NO3S	aminomethanesulfonic acid	13881-91-9	25.00	1.3387	2	599	C2H2CaO5	calcium oxalate monohydrate	5794-28-5	25.00	2.2000	1

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
606	C2H2ClF3	2-chloro-1,1,1-trifluoroethane	75-88-7	-105.59	1.9076	2	813	C2H4Cl2	1,2-dichloroethane	107-06-2	-50.00	1.4699	1
615	C2H2Cl2	1,1-dichloroethylene	75-35-4	-122.56	1.5511	2	815	C2H4Cl2N6	azochloramide	---	25.00	1.6772	2
616	C2H2Cl2	cis-1,2-dichloroethylene	156-59-2	-80.00	1.6868	2	816	C2H4Cl2O	bis(chloromethyl) ether	542-88-1	-41.50	1.6439	2
617	C2H2Cl2	trans-1,2-dichloroethylene	156-60-5	-49.80	1.5996	2	823	C2H4Cl3NO	1-amino-2,2,2-trichloroethanol	507-47-1	25.00	1.4855	2
625	C2H2Cl2O	chloroacetyl chloride	79-04-9	-22.00	1.7280	2	832	C2H4FNO	2-fluoroacetamide	640-19-7	25.00	1.1170	2
626	C2H2Cl2O	dichloroacetaldehyde	79-02-7	-50.15	1.8184	2	834	C2H4F2	1,1-difluoroethane	75-37-6	-118.59	1.3937	2
627	C2H2Cl2O2	dichloroacetic acid	79-43-6	13.39	1.8439	2	838	C2H4F3NO2	trifluoroacetic acid, ammonium salt	3336-58-1	25.00	1.3887	2
630	C2H2Cl3F	1,1,1-trichloro-2-fluoroethane	2366-36-1	-103.15	2.1044	2	841	C2H4FeO6	iron(ii) oxalate dihydrate	6047-25-2	25.00	2.2800	1
633	C2H2Cl3NO	2,2,2-trichloroacetamide	594-65-0	25.00	1.5974	2	843	C2H4INO	iodoacetamide	144-48-9	25.00	2.1103	2
634	C2H2Cl3NO	trichloroacetaldehyde oxime	1117-99-3	25.00	1.5974	2	845	C2H4I2	1,2-diiodoethane	624-73-7	20.00	3.3250	1
635	C2H2Cl4	1,1,1,2-tetrachloroethane	630-20-6	-70.21	1.9638	2	848	C2H4MnO6	manganese(ii) oxalate dihydrate	6556-16-7	25.00	2.4500	1
636	C2H2Cl4	1,1,2,2-tetrachloroethane	79-34-5	-43.80	1.9806	2	853	C2H4N2O2	ethanedial dioxime	557-30-2	25.00	1.2770	2
642	C2H2F2	1,1-difluoroethylene	75-38-7	-144.00	1.5176	2	854	C2H4N2O2	oxamide	471-46-5	20.00	1.6670	1
648	C2H2F3NO	trifluoroacetamide	354-38-1	25.00	1.4176	2	855	C2H4N2O2	sym-diformylhydrazine	628-36-4	25.00	1.2770	2
650	C2H2F4	1,1,1,2-tetrafluoroethane	811-97-2	-103.30	1.8468	2	856	C2H4N2O2	N-formylurea	1190-24-5	25.00	1.2770	2
651	C2H2F4	1,1,2,2-tetrafluoroethane	359-35-3	-89.00	1.8876	2	857	C2H4N2O3	2-nitroacetaldehyde oxime	5653-21-4	25.00	1.3953	2
652	C2H2F4O	tetrafluorodimethyl ether	1691-17-4	-123.15	2.0183	2	860	C2H4N2O4	1,2-dinitroethane	7570-26-5	20.00	1.4597	1
659	C2H2I2	(E)-1,2-diiodoethylene	590-27-2	25.00	2.8755	2	863	C2H4N2O4	N-nitroglycine	10339-31-8	23.00	1.3414	2
660	C2H2I4	1,1,1,2-tetraiodoethane	---	25.00	3.4560	2	865	C2H4N2O6	ethylene glycol dinitrate	628-96-6	-22.30	1.8096	2
661	C2H2I4	1,1,2,2-tetraiodoethane	---	25.00	3.4560	2	868	C2H4N2S2	ethanedithioamide	79-40-3	25.00	1.3527	2
662	C2H2K2O5	potassium oxalate monohydrate	6487-48-5	25.00	2.1300	1	870	C2H4N4	cyanoguanidine	461-58-5	35.00	1.4018	1
668	C2H2N2S	1,3,4-thiadiazole	289-06-5	22.50	1.2989	2	871	C2H4N4	1H-1,2,4-triazol-3-amine	61-82-5	25.00	1.2695	2
669	C2H2N2S3	2,5-dimercapto-1,3,4-thiadiazole	1072-71-5	25.00	1.5747	2	872	C2H4N4	4-amino-4H-1,2,4-triazole	584-13-4	25.00	1.2695	2
670	C2H2N2S3	5-imino-1,2,4-dithiazolidine-3-thione	6846-35-1	25.00	1.5747	2	873	C2H4N4O2	diazenedicarboxamide	123-77-3	25.00	1.4986	2
673	C2H2N4	1,2,4,5-tetrazine	290-96-0	25.00	1.4343	2	874	C2H4N4S	3-amino-5-mercapto-1,2,4-triazole	16691-43-3	25.00	1.4200	2
675	C2H2N4O2	3-nitro-1,2,4-triazole	24807-55-4	25.00	1.6664	2	875	C2H4N4S	5-mercapto-1-methyltetrazole	13183-79-4	25.00	1.4200	2
676	C2H2N4O2	azoformaldoxime	---	25.00	1.6664	2	884	C2H4O	acetaldehyde	75-07-0	-123.00	1.1101	2
681	C2H2O	ketene	463-51-4	-151.15	1.0930	2	885	C2H4O	ethylene oxide	75-21-8	-112.50	1.2115	2
682	C2H2O2	glyoxal	107-22-2	15.00	1.3406	2	886	C2H4O	polyvinyl alcohol	9002-89-5	25.00	0.8180	2
683	C2H2O3	glyoxylic acid	298-12-4	25.00	1.2972	2	889	C2H4O2	acetic acid	64-19-7	16.60	1.2658	1
684	C2H2O4	oxalic acid	144-62-7	17.00	1.9000	1	890	C2H4O2	methyl formate	107-31-3	-99.00	1.3212	2
685	C2H2O4Pb	lead(ii) formate	811-54-1	25.00	4.6300	1	891	C2H4O2	glycolaldehyde	141-46-8	100.00	1.3660	1
688	C2H3Br	vinyl bromide	593-60-2	-137.80	2.1497	2	892	C2H4O2S	thioglycolic acid	68-11-1	-16.50	1.5937	2
693	C2H3BrO2	bromoacetic acid	79-08-3	50.00	1.9335	1	893	C2H4O3	glycolic acid	79-14-1	25.00	1.4900	1
699	C2H3Br3O	2,2,2-tribromoethanol	75-80-9	25.00	2.5731	2	894	C2H4O3	peroxyacetic acid	79-21-0	-0.20	1.4602	2
700	C2H3Br3O2	bromal hydrate	507-42-6	40.00	2.5661	1	897	C2H4O4S	1,3,2-dioxathiolane 2,2-dioxide	1072-53-3	25.00	1.4223	2
701	C2H3Cl	vinyl chloride	75-01-4	-153.85	1.3500	2	898	C2H4O5S	sulfoacetic acid	123-43-3	25.00	1.5086	2
702	C2H3ClF2	1-chloro-1,1-difluoroethane	75-68-3	-130.80	1.6783	2	899	C2H4O6S2	2,4-dithia-1,3-dioxane-2,2,4,4-tetraoxide	503-41-3	25.00	1.6499	2
707	C2H3ClO	acetyl chloride	75-36-5	-112.85	1.4836	2	900	C2H4O6Zn	zinc oxalate dihydrate	122465-35-4	25.00	2.5600	1
708	C2H3ClO	chloroacetaldehyde	107-20-0	19.85	1.4130	2	901	C2H4S	ethylene sulfide	420-12-2	-109.00	1.3527	2
710	C2H3ClO2	chloroacetic acid	79-11-8	60.00	1.6065	2	903	C2H4S5	1,2,3,5,6-pentathiepane	292-46-6	25.00	1.4827	2
711	C2H3ClO2	methyl chloroformate	79-22-1	-81.15	1.5970	2	905	C2H5AlCl2	dichloroethylaluminum	563-43-9	25.00	1.2070	1
714	C2H3Cl2F	1,1-dichloro-1-fluoroethane	1717-00-6	-103.50	1.6958	2	910	C2H5Br	bromoethane	74-96-4	-118.60	2.0159	2
717	C2H3Cl2NO	2,2-dichloroacetamide	683-72-7	25.00	1.4380	2	914	C2H5Cl	ethyl chloride	75-00-3	-138.35	1.2838	2
720	C2H3Cl3	1,1,1-trichloroethane	71-55-6	-30.05	1.6100	2	917	C2H5ClO	2-chloroethanol	107-07-3	-67.50	1.4976	2
721	C2H3Cl3	1,1,2-trichloroethane	79-00-5	-36.65	1.7876	2	918	C2H5ClO	chloromethyl methyl ether	107-30-2	-103.50	1.4734	2
724	C2H3Cl3O2	chloral hydrate	302-17-0	20.00	1.9081	1	920	C2H5ClO2S	ethanesulfonyl chloride	594-44-5	-68.00	1.7065	2
725	C2H3Cl3Si	trichlorovinylsilane	75-94-5	-94.80	1.6633	2	937	C2H5Cl3Si	trichloroethylsilane	115-21-9	-105.60	1.6553	2
728	C2H3F	vinyl fluoride	75-02-5	-160.50	1.1511	2	939	C2H5F	ethyl fluoride	353-36-6	-143.20	1.1102	2
733	C2H3FO2	fluoroacetic acid	144-49-0	36.00	1.3693	1	948	C2H5I	ethyl iodide	75-03-6	-118.00	2.4045	1
735	C2H3F3	1,1,1-trifluoroethane	420-46-2	-111.33	1.5548	2	954	C2H5N	ethyleneimine	151-56-4	-77.95	1.0810	2
736	C2H3F3	1,1,2-trifluoroethane	430-66-0	-84.00	1.6976	2	955	C2H5NO	acetaldoxime	107-29-9	20.00	0.9656	1
745	C2H3IO2	iodoacetic acid	64-69-7	25.00	2.2003	2	956	C2H5NO	acetamide	60-35-5	81.00	1.1576	1
746	C2H3I3	1,1,1-triiodoethane	594-21-8	25.00	3.1276	2	957	C2H5NO	N-methylformamide	123-39-7	-3.80	1.1991	2
750	C2H3KO2	potassium acetate	127-08-2	25.00	1.5391	1	958	C2H5NO2	nitroethane	79-24-3	-89.52	1.3662	2
752	C2H3LiO2	lithium acetate	546-89-4	25.00	1.2600	1	960	C2H5NO2	glycine	56-40-6	236.25	1.5486	1
753	C2H3N	acetonitrile	75-05-8	-43.83	0.9935	2	961	C2H5NO2	methyl carbamate	598-55-0	56.00	1.1361	1
755	C2H3NO	methyl isocyanate	624-83-9	-17.00	1.1810	2	962	C2H5NO2	acetohydroxamic acid	546-88-3	29.00	1.0598	2
756	C2H3NO	hydroxyacetonitrile	107-16-4	-72.15	1.3978	2	967	C2H5NS	thioacetamide	62-55-5	25.00	1.0215	2
758	C2H3NO2	N-formylformamide	18197-22-3	25.00	1.2132	2	971	C2H5N3O2	aminooxoacetohydrazide	515-96-8	25.00	1.3263	2
759	C2H3NO3	oxamic acid	471-47-6	25.00	1.3528	2	972	C2H5N3O2	imidodicarbonic diamide	108-19-0	25.00	1.3263	2
763	C2H3NS	methyl isothiocyanate	556-61-6	37.00	1.0691	1	973	C2H5N3O2	N-methyl-N-nitrosourea	684-93-5	25.00	1.3263	2
767	C2H3N3	1,2,4-triazole	288-88-0	25.00	1.2017	2	974	C2H5N3S2	thioimidodicarbonic diamide	541-53-7	25.00	1.3852	2
773	C2H3N3O2	urazole	3232-84-6	25.00	1.4710	2	975	C2H5N5	3,5-diamino-1,2,4-triazole	1455-77-2	25.00	1.3216	2
775	C2H3N3O6	1,1,1-trinitroethane	595-86-8	25.00	1.8105	2	983	C2H5O3P	vinylphosphonic acid	1746-03-8	25.00	1.3890	1
776	C2H3N3O7	2,2,2-trinitroethanol	918-54-7	25.00	1.8708	2	985	C2H6	ethane	74-84-0	-182.80	0.7299	1
777	C2H3N3S	1H-1,2,4-triazole-3-thiol	3179-31-5	25.00	1.3846	2	986	C2H6AlCl	dimethylaluminum chloride	1184-58-3	-21.00	1.2211	2
778	C2H3N3S	2-amino-1,3,4-thiadiazole	4005-51-0	25.00	1.3846	2	1010	C2H6ClO3P	ethephon	16672-87-0	25.00	1.2000	1
779	C2H3N3S2	5-amino-1,3,4-thiadiazole-2-thiol	2349-67-9	25.00	1.5033	2	1017	C2H6Cl2Si	dichlorodimethylsilane	75-78-5	-76.10	1.4068	2
782	C2H3NaO2	sodium acetate	127-09-3	20.00	1.5230	1	1021	C2H6CoO6	cobalt(ii) formate dihydrate	6424-20-0	25.00	2.1300	1
786	C2H3O2Tl	thallium(i) acetate	563-68-8	25.00	3.6800	1	1040	C2H6N2O	acetohydrazide	1068-57-1	22.50	1.1044	2
787	C2H4	ethylene	74-85-1	-169.15	0.7380	1	1041	C2H6N2O	N-methylurea	598-50-5	25.00	1.2040	1
793	C2H4BrI	1-bromo-2-iodoethane	590-16-9	29.00	2.5160	1	1045	C2H6N2O2	methyl hydrazinecarboxylate	6294-89-9	25.00	1.1552	2
795	C2H4BrNO	N-bromoacetamide	79-15-2	25.00	1.7475	2	1046	C2H6N2O2	N-methyl-N-nitromethanamine	4164-28-7	72.00	1.1090	1
796	C2H4BrNO	2-bromoacetamide	683-57-8	25.00	1.7475	2	1052	C2H6N2S	N-methylthiourea	598-52-7	25.00	1.0952	2
798	C2H4Br2	1,1-dibromoethane	557-91-5	-63.00	2.5925	2	1054	C2H6N4O	(aminoiminomethyl)urea	141-83-3	25.00	1.2627	2
799	C2H4Br2	1,2-dibromoethane	106-93-4	9.70	2.5737	2	1055	C2H6N4O2	1,2-hydrazinedicarboxamide	110-21-4	17.00	1.6040	1
806	C2H4ClNO	2-chloroacetamide	79-07-2	25.00	1.2257	2	1056	C2H6N4O2	oxalyl dihydrazide	996-98-5	22.00	1.4580	1
807	C2H4ClNO	N-chloroacetamide	598-49-2	25.00	1.2257	2	1057	C2H6N4O2	N-methyl-N'-nitroguanidine	4245-76-5	19.50	1.5310	2
812	C2H4Cl2	1,1-dichloroethane	75-34-3	-96.96	1.5734	2	1058	C2H6N4O4	N,N'-dinitro-1,2-ethanediamine	505-71-5	25.00	1.5362	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
1059	C2H6N4S	amidinothiourea	2114-02-5	25.00	1.3013	2	1377	C3H2N2	malononitrile	109-77-3	14.00	1.2020	1
1060	C2H6N4S	guanidine thiocyanate	593-84-0	25.00	1.3013	2	1379	C3H2N2O3	imidazolidinetrione	120-89-8	25.00	1.5632	2
1061	C2H6N4S2	2,5-dithiobiurea	142-46-1	25.00	1.4123	2	1380	C3H2N2O4	diazirine-3,3-dicarboxylic acid	76429-98-6	25.00	1.6551	2
1065	C2H6O	ethyl alcohol	64-17-5	-114.10	1.0550	2	1382	C3H2N2S2	methylenedithiocyanate	6317-18-6	25.00	1.4922	2
1066	C2H6O	dimethyl ether	115-10-6	-141.50	1.0227	2	1388	C3H2S3	1,3-dithiole-2-thione	930-35-8	25.00	1.4234	2
1067	C2H6OS	dimethyl sulfoxide	67-68-5	5.00	1.2301	1	1398	C3H3BrN2	4-bromopyrazole	2075-45-8	25.00	1.8263	2
1068	C2H6OS	2-mercaptoethanol	60-24-2	-73.15	1.3908	2	1400	C3H3BrO2	2-bromo-2-propenoic acid	10443-65-9	25.00	1.8142	2
1072	C2H6O2	ethylene glycol	107-21-1	-13.00	1.3283	2	1402	C3H3Cl	propargyl chloride	624-65-7	19.85	1.2071	2
1075	C2H6O2S	dimethyl sulfone	67-71-0	110.00	1.1700	1	1408	C3H3ClO2	cis-3-chloro-2-propenoic acid	1609-93-4	25.00	1.3222	2
1083	C2H6O4S	dimethyl sulfate	77-78-1	-32.00	1.6271	2	1409	C3H3ClO2	trans-3-chloro-2-propenoic acid	2345-61-1	25.00	1.3222	2
1084	C2H6O4S	ethyl sulfate	540-82-9	15.85	1.5406	2	1410	C3H3ClO2	2-chloroacrylic acid	598-79-8	25.00	1.3222	2
1087	C2H6O5S2	methanesulfonic anhydride	7143-01-3	25.00	1.4831	2	1411	C3H3ClO2	2-chloromalonaldehyde	36437-19-1	25.00	1.3222	2
1088	C2H6O6	oxalic acid dihydrate	6153-56-6	18.00	1.6530	1	1423	C3H3Cl3N6	trichloromelamine	7673-09-8	25.00	1.7761	2
1089	C2H6O6S2	1,2-ethanedisulfonic acid	110-04-3	25.00	1.5454	2	1434	C3H3Cl3O2	2,2,3-trichloropropanoic acid	3278-46-4	25.00	1.5435	2
1092	C2H6S	ethyl mercaptan	75-08-1	-147.89	1.1806	2	1435	C3H3Cl3O3	3,3,3-trichloro-2-hydroxypropanoic acid	599-01-9	25.00	1.6044	2
1093	C2H6S	dimethyl sulfide	75-18-3	-98.27	1.1309	2	1441	C3H3F3	3,3,3-trifluoropropene	677-21-4	-111.15	1.7866	2
1094	C2H6S2	dimethyl disulfide	624-92-0	-84.71	1.3659	2	1449	C3H3F5	1,1,1,2,2-pentafluoropropane	1814-88-6	-123.15	1.8365	2
1095	C2H6S2	1,2-ethanedithiol	540-63-6	-41.20	1.3942	2	1454	C3H3F5O	perfluoroethyl methyl ether	---	-123.15	1.9956	2
1110	C2H7ClN2	ethanimidamide monohydrochloride	124-42-5	25.00	1.0689	2	1462	C3H3N	acrylonitrile	107-13-1	-83.52	1.0772	2
1112	C2H7ClSi	chlorodimethylsilane	1066-35-9	-111.00	1.1827	2	1463	C3H3NO	oxazole	288-42-6	-82.00	0.9254	2
1114	C2H7LiO4	lithium acetate dihydrate	6108-17-4	25.00	1.3000	1	1464	C3H3NO	isoxazole	288-14-2	-67.10	1.3701	2
1115	C2H7N	ethylamine	75-04-7	-81.00	0.9287	2	1467	C3H3NOS2	2-thioxo-4-thiazolidinone	141-84-4	25.00	0.8680	1
1116	C2H7N	dimethylamine	124-40-3	-92.19	0.8927	2	1468	C3H3NO2	cyanoacetic acid	372-09-8	25.00	1.1295	2
1117	C2H7NO	monoethanolamine	141-43-5	10.50	1.1972	2	1471	C3H3NO2S	2,4-thiazolidinedione	2295-31-0	25.00	1.4082	2
1118	C2H7NO	1-aminoethanol	75-39-8	22.50	0.9610	2	1475	C3H3N3	1,3,5-triazine	290-87-9	25.00	1.3800	1
1119	C2H7NO	N-hydroxyethanamine	624-81-7	20.00	0.9079	1	1477	C3H3N3O2	2-nitro-1H-imidazole	527-73-1	25.00	1.4858	2
1122	C2H7NO2	ammonium acetate	631-61-8	20.00	1.1700	1	1478	C3H3N3O2	6-azauracil	461-89-2	25.00	1.4858	2
1125	C2H7NO3S	2-aminoethanesulfonic acid	107-35-7	25.00	1.2588	2	1479	C3H3N3O2	4-nitroimidazole	3034-38-6	25.00	1.4858	2
1127	C2H7NO4S	2-aminoethyl hydrogen sulfate	926-39-6	25.00	1.3439	2	1480	C3H3N3O2S	5-nitro-2-thiazolamine	121-66-4	25.00	1.5833	2
1128	C2H7NS	cysteamine	60-23-1	25.00	0.9344	2	1482	C3H3N3O3	cyanuric acid	108-80-5	25.00	1.5795	2
1132	C2H7N3O	glycine hydrazide	14379-80-7	25.00	1.0984	2	1483	C3H3N3O3	2-carbamoyl-2-nitroacetonitrile	475-08-1	25.00	1.5795	2
1133	C2H7N3S	4-methylthiosemicarbazide	6610-29-3	25.00	1.1548	2	1487	C3H3N3S3	trithiocyanuric acid	638-16-4	25.00	1.5890	2
1134	C2H7N5	imidodicarbonimidic diamide	56-03-1	25.00	1.2038	2	1492	C3H4	methylacetylene	74-99-7	-102.70	0.8934	2
1135	C2H7N5O2	imidodicarboxylic acid, dihydrazide	4375-11-5	25.00	1.3978	2	1493	C3H4	allene	463-49-0	-136.28	0.9135	2
1145	C2H8BrN	ethylammoniumbromide	593-55-5	25.00	1.3791	2	1495	C3H4BrClO	1-bromo-3-chloroacetone	53535-68-5	18.00	1.6985	2
1147	C2H8ClN	dimethylamine hydrochloride	506-59-2	25.00	0.9193	2	1505	C3H4Br2	1,1-dibromo-1-propene	13195-80-7	20.00	1.9767	1
1148	C2H8ClN	ethylamine hydrochloride	557-66-4	20.00	1.2160	1	1506	C3H4Br2	cis-1,3-dibromo-1-propene	32121-06-5	20.00	2.0599	1
1151	C2H8ClNS	b-mercaptoethylamine hydrochloride	156-57-0	25.00	1.0896	2	1507	C3H4Br2	trans-1,3-dibromo-1-propene	32121-07-6	20.00	1.9791	1
1154	C2H8NO2PS	methamidophos	10265-92-6	20.00	1.3100	1	1508	C3H4Br2	2,3-dibromo-1-propene	513-31-5	25.00	2.0345	1
1159	C2H8N2	ethylenediamine	107-15-3	11.14	1.0578	2	1509	C3H4Br2	1,3-dibromo-1-propene	627-15-6	25.00	2.0000	1
1165	C2H8N2O4	ammonium oxalate	1113-38-8	18.50	1.3098	1	1511	C3H4Br2O	1,3-dibromo-2-propanone	816-39-7	18.00	2.1670	1
1166.1	C2H8O6P2	1,2-ethane diphosphonic acid	6145-31-9	25.00	1.7570	2	1513	C3H4Br2O2	2,3-dibromopropanoic acid	600-05-5	25.00	2.1557	2
1168	C2H8Si	dimethyl silane	1111-74-6	-150.22	0.9086	2	1514	C3H4Br4	1,1,1,2-tetrabromopropane	62127-49-5	20.00	2.6790	1
1170	C2H9NaO5	sodium acetate trihydrate	6131-90-4	25.00	1.4500	1	1515	C3H4Br4	1,1,1,3-tetrabromopropane	62127-50-8	21.50	2.6895	2
1199	C2I2	diiodoacetylene	624-74-8	25.00	3.1462	2	1516	C3H4Br4	1,1,2,2-tetrabromopropane	34570-59-7	20.00	2.6870	1
1200	C2I4	tetraiodoethene	513-92-8	20.00	2.9830	1	1517	C3H4Br4	1,1,2,3-tetrabromopropane	34581-76-5	21.50	2.6895	2
1210	C2N2	cyanogen	460-19-5	-95.00	1.2500	1	1518	C3H4Br4	1,1,3,3-tetrabromopropane	51525-97-4	21.00	2.7020	1
1216	C2N2S	sulfur dicyanide	627-52-1	25.00	1.5216	2	1531	C3H4ClN5	2-chloro-4,6-diamino-1,3,5-triazine	3397-62-4	25.00	1.5310	2
1219	C2N2S3	sulfur thiocyanate	57670-85-6	25.00	1.7157	2	1533	C3H4Cl2	2,3-dichloropropene	78-88-6	-90.00	1.6091	2
1220	C2N2Zn	zinc cyanide	557-21-1	25.00	1.8500	1	1548	C3H4Cl2O	1,3-dichloroacetone	534-07-6	46.00	1.3826	1
1222	C2N4O6	trinitroacetonitrile	630-72-8	25.00	2.1496	2	1555	C3H4Cl2O2	2,3-dichloropropanoic acid	565-64-0	19.25	1.3685	2
1226	C2N6O12	hexanitroethane	918-37-6	25.00	2.4181	2	1561	C3H4Cl3NO2	N-(2,2,2-trichloro-1-hydroxyethyl)formamide	515-82-2	25.00	1.5557	2
1231	C2Na2O4	sodium oxalate	62-76-0	25.00	2.3400	1	1562	C3H4Cl3NO2	trichloroethyl carbamate	107-69-7	25.00	1.5557	2
1232	C2O4Pb	lead(ii) oxalate	15843-48-8	25.00	5.2800	1	1563	C3H4Cl3NO3	1,1,1-trichloro-3-nitro-2-propanol	760-40-7	25.00	1.6119	2
1233	C2O4Sn	tin(ii) oxalate	814-94-8	25.00	3.5600	1	1576	C3H4F3NO	N-methyltrifluoroacetamide	815-06-5	25.00	1.3215	2
1251	C3ClN	chlorocyanoacetylene	2003-31-8	25.00	1.4236	2	1585	C3H4I4	1,1,1,2-tetraiodopropane	66794-31-8	25.00	3.2061	2
1254	C3Cl2F6	1,2-dichlorohexafluoropropane	661-97-2	-124.90	2.2093	2	1586	C3H4I4	1,1,1,3-tetraiodopropane	66794-32-9	25.00	3.2061	2
1263	C3Cl3N3	2,4,6-trichloro-1,3,5-triazine	108-77-0	25.00	1.7916	2	1587	C3H4I4	1,1,2,2-tetraiodopropane	66794-33-0	25.00	3.2061	2
1264	C3Cl3N3O3	symclosene	87-90-1	25.00	1.9403	2	1588	C3H4I4	1,1,2,3-tetraiodopropane	66794-21-6	25.00	3.2061	2
1273	C3Cl6O2	trichloromethyl trichloroacetate	6135-29-1	35.00	1.6733	1	1589	C3H4I4	1,1,3,3-tetraiodopropane	66794-34-1	25.00	3.2061	2
1274	C3Cl6O3	bis(trichloromethyl) carbonate	32315-10-9	80.00	1.6290	1	1590	C3H4I4	1,2,2,3-tetraiodopropane	66794-20-5	25.00	3.2061	2
1284	C3F6	hexafluoropropylene	116-15-4	-156.50	2.3104	2	1592	C3H4N2	imidazole	288-32-4	101.00	1.0303	1
1287	C3F6O	hexafluoroacetone	684-16-2	-125.45	2.1367	2	1593	C3H4N2	(methyleneamino)acetonitrile	109-82-0	25.00	1.0452	2
1291	C3F6O	trifluoromethyl trifluorovinyl ether	1187-93-5	-155.15	1.9845	2	1594	C3H4N2	1H-pyrazole	288-13-1	25.00	1.1500	1
1299	C3F8	octafluoropropane	76-19-7	-147.69	2.3127	2	1596	C3H4N2O	2-cyanoacetamide	107-91-5	25.00	1.1884	2
1311	C3HBrN2O2S	2-bromo-5-nitrothiazole	3034-48-8	25.00	2.1273	2	1598	C3H4N2OS	pseudothiohydantoin	556-90-1	25.00	1.3456	2
1312	C3HBr3N2	2,4,5-tribromoimidazole	2034-22-2	25.00	2.7418	2	1599	C3H4N2OS	2-thiohydantoin	503-87-7	25.00	1.3456	2
1313	C3HBr5O	1,1,1,3,3-pentabromo-2-propanone	79-49-2	25.00	3.0584	2	1600	C3H4N2OS2	N-aminorhodanine	1438-16-0	25.00	1.4548	2
1323	C3HCl3O2	2,3,3-trichloro-2-propenoic acid	2257-35-4	25.00	1.6558	2	1601	C3H4N2O2	2,4-imidazolidinedione	461-72-3	25.00	1.3105	2
1328	C3HCl7	1,1,1,2,2,3,3-heptachloropropane	594-89-8	34.00	1.8048	1	1605	C3H4N2S	2-thiazolamine	96-50-4	25.00	1.2410	2
1333	C3HF7	heptafluoropropane	431-89-0	-131.15	2.2274	2	1606	C3H4N2S	cyano-N-methylthioformamide	13621-47-1	25.00	1.2410	2
1342	C3H2Br2O2	3,3-dibromo-2-propenoic acid	1578-21-8	25.00	2.3323	2	1607	C3H4N2S	2-cyanothioacetamide	7357-70-2	25.00	1.2410	2
1343	C3H2Br2O2	cis-2,3-dibromo-2-propenoic acid	24557-10-6	25.00	2.3323	2	1608	C3H4N2S2	2-mercapto-5-methyl-1,3,4-thiadiazole	29490-19-5	25.00	1.3735	2
1347	C3H2ClF5O	isoflurane	26675-46-7	25.00	1.5393	2	1610	C3H4N2S3	3-methylmercapto-5-mercapto-1,2,4-thiadiazole	20069-40-3	25.00	1.4691	2
1352	C3H2Cl2O2	3,3-dichloro-2-propenoic acid	1561-20-2	25.00	1.5117	2	1612	C3H4N4	3-amino-1,2,4-triazine	1120-99-6	25.00	1.3051	2
1357	C3H2Cl3NO	3,3,3-trichloro-2-hydroxypropanenitrile	513-96-2	25.00	1.5992	2	1613	C3H4N4	2-amino-1,3,5-triazine	4122-04-7	25.00	1.3051	2
1360	C3H2Cl4O	1,1,1,3-tetrachloro-2-propanone	16995-35-0	25.00	1.6240	1	1615	C3H4N4O	5-azacytosine	931-86-2	25.00	1.4145	2
1363	C3H2Cl4O2	2,2,2-trichloroethyl chloroformate	17341-93-4	25.00	1.5350	1	1621	C3H4O	acrolein	107-02-8	-87.70	1.1325	2
1364	C3H2Cl6	1,1,1,2,2,3-hexachloropropane	24425-97-6	25.00	1.7187	1	1622	C3H4O	propargyl alcohol	107-19-7	-51.80	1.1998	2
1369	C3H2F6	1,1,1,2,3,3-hexafluoropropane	431-63-0	-103.15	2.0677	2	1626	C3H4O2	acrylic acid	79-10-7	13.50	1.2960	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
1627	C3H4O2	beta-propiolactone	57-57-8	-33.40	1.4052	2	1923	C3H6O	acetone	67-64-1	-99.00	0.9686	1
1632	C3H4O2	propanedial	542-78-9	23.00	1.0896	2	1924	C3H6O	1,2-propylene oxide	75-56-9	-111.93	1.1442	2
1633	C3H4O3	ethylene carbonate	96-49-1	36.40	1.5700	2	1925	C3H6O	1,3-propylene oxide	503-30-0	-18.15	1.1093	2
1634	C3H4O3	pyruvic acid	127-17-3	13.60	1.4971	2	1930	C3H6O2	propanoic acid	79-09-4	-35.00	1.1894	1
1636	C3H4O4	malonic acid	141-82-2	134.80	1.5926	1	1931	C3H6O2	ethyl formate	109-94-4	-79.60	1.2149	2
1637	C3H4O5	hydroxypropanedioic acid	80-69-3	25.00	1.4172	2	1932	C3H6O2	methyl acetate	79-20-9	-98.00	1.2519	2
1641	C3H4S3	ethylene trithiocarbonate	822-38-8	25.00	1.3187	2	1934	C3H6O2	1-hydroxy-2-propanone	116-09-6	-17.00	1.2964	2
1654	C3H5BrO2	2-bromopropanoic acid, (±)	10327-08-9	20.00	1.7000	1	1937	C3H6O2	(±)-glycidol	556-52-5	-45.00	1.3853	2
1655	C3H5BrO2	3-bromopropanoic acid	590-92-1	25.00	1.4800	1	1942	C3H6O2S	3-mercaptopropionic acid	107-96-0	17.50	1.4330	2
1660	C3H5BrO2	(±)-2-bromopropionic acid	598-72-1	25.00	1.7000	1	1946	C3H6O2S	thietane 1,1-dioxide	5687-92-3	22.50	1.2104	2
1663	C3H5Br3	1,1,1-tribromopropane	62127-61-1	25.00	2.3500	1	1948	C3H6O3	lactic acid	50-21-5	16.75	1.4413	2
1666	C3H5Br3	1,2,2-tribromopropane	14476-30-3	20.00	2.2984	1	1949	C3H6O3	methoxyacetic acid	625-45-6	7.85	1.3872	2
1670	C3H5Cl	2-chloro-1-propene	557-98-2	-137.40	1.3162	2	1950	C3H6O3	trioxane	110-88-3	25.00	1.3900	1
1671	C3H5Cl	3-chloro-1-propene	107-05-1	-134.50	1.3086	2	1951	C3H6O3	2,3-dihydroxypropanal, (±)	56-82-6	18.00	1.4530	1
1676	C3H5ClO	alpha-epichlorohydrin	106-89-8	-57.20	1.4804	2	1952	C3H6O3	1,3-dihydroxy-2-propanone	96-26-4	27.75	1.2049	2
1688	C3H5ClO2	methyl chloroacetate	96-34-4	-32.12	1.5302	2	1953	C3H6O3	dimethyl carbonate	616-38-6	0.00	1.2791	2
1689	C3H5ClO2	ethyl chloroformate	541-41-3	-81.15	1.4976	2	1957	C3H6O3	paraformaldehyde	30525-89-4	27.75	1.2049	2
1692	C3H5ClO2	3-chloropropanoic acid	107-94-8	22.86	1.2119	2	1958	C3H6O3	L-(+)-lactic acid	79-33-4	25.00	1.2080	1
1707	C3H5Cl3	1,2,3-trichloropropane	96-18-4	-14.70	1.6807	2	1965	C3H6O4S	trimethylene sulfate	1073-05-8	25.00	1.3325	2
1709	C3H5Cl3O	1,1,1-trichloro-2-propanol	76-00-6	25.00	1.3811	2	1967	C3H6S	thiacyclobutane	287-27-4	-73.24	1.2902	2
1710	C3H5Cl3Si	trichloro-2-propenylsilane	107-37-9	20.00	1.2011	1	1972	C3H6S2	1,2-dithiolane	557-22-2	25.00	1.0975	2
1740	C3H5IO2	2-iodopropanoic acid, (±)	18791-49-6	18.00	2.0730	1	1974	C3H6S3	1,3,5-trithiane	291-21-4	24.00	1.6374	1
1741	C3H5IO2	3-iodopropanoic acid	141-76-4	25.00	1.9815	2	1978	C3H7Br	1-bromopropane	106-94-5	-110.00	1.8203	2
1742	C3H5I3	1,1,1-triiodopropane	---	25.00	2.8735	2	1979	C3H7Br	2-bromopropane	75-26-3	-89.00	1.7711	2
1745	C3H5I3	1,2,2-triiodopropane	---	25.00	2.8735	2	1986	C3H7Cl	1-chloropropane	540-54-5	-122.80	1.2331	2
1752	C3H5N	propionitrile	107-12-0	-92.89	1.0300	2	1987	C3H7Cl	2-chloropropane	75-29-6	-117.18	1.1781	2
1755	C3H5NO	acrylamide	79-06-1	84.50	1.1243	1	2002	C3H7ClO2	3-chloro-1,2-propanediol	96-24-2	-40.00	1.6360	2
1756	C3H5NO	hydracrylonitrile	109-78-4	-46.00	1.2794	2	2014	C3H7Cl2N	(chloromethylene)dimethylammonium chloride	3724-43-4	25.00	1.1766	2
1757	C3H5NO	lactonitrile	78-97-7	-40.15	1.2083	2	2025	C3H7I	1-iodopropane	107-08-4	-101.30	2.2949	2
1758	C3H5NO	2-azetidinone	930-21-2	22.50	0.9632	2	2026	C3H7I	2-iodopropane	75-30-9	-90.00	2.2269	2
1767	C3H5NO2	2-oxopropanal oxime	306-44-5	67.00	1.0744	1	2030	C3H7N	allylamine	107-11-9	-88.20	0.9878	2
1768	C3H5NO2	2-oxazolidinone	497-25-6	33.50	1.0619	2	2031	C3H7N	propyleneimine	75-55-8	-44.15	1.0220	2
1772	C3H5NO3	nitroacetone	10230-68-9	25.00	1.2534	2	2036	C3H7NO	N,N-dimethylformamide	68-12-2	-60.43	1.1914	2
1775	C3H5NO4	N-formyl-N-hydroxyglycine	689-13-4	25.00	1.3554	2	2037	C3H7NO	N-methylacetamide	79-16-3	28.00	1.0001	2
1782	C3H5NS2	2-mercaptothiazoline	96-53-7	25.00	1.2351	2	2039	C3H7NO	propanal oxime	627-39-4	20.00	0.9258	1
1783	C3H5N3	1H-pyrazol-4-amine	28466-26-4	25.00	1.1246	2	2040	C3H7NO	propanamide	79-05-0	110.00	0.9262	1
1784	C3H5N3	3-aminopyrazole	1820-80-0	25.00	1.1246	2	2041	C3H7NO	2-propanone oxime	127-06-0	62.00	0.9113	1
1785	C3H5N3O	cyanoacetohydrazide	140-87-4	25.00	1.2464	2	2042	C3H7NOS	o-ethyl thiocarbamate	625-57-0	20.00	1.0690	1
1786	C3H5N3O	3-amino-5-hydroxypyrazole	6126-22-3	25.00	1.2464	2	2043	C3H7NOS	s-ethyl thiocarbamate	637-98-9	25.00	1.1002	2
1792	C3H5N3O2	1-nitrosoimidazolidinone	3844-63-1	25.00	1.3521	2	2045	C3H7NO2	1-nitropropane	108-03-2	-103.99	1.3097	2
1796	C3H5N3O9	nitroglycerine	55-63-0	13.00	1.8757	2	2046	C3H7NO2	2-nitropropane	79-46-9	-91.32	1.2830	2
1797	C3H5N3S	2-amino-5-methyl-1,3,4-thiadiazole	108-33-8	25.00	1.2874	2	2047	C3H7NO2	DL-alanine	302-72-7	25.00	1.4240	1
1798	C3H5N3S2	2-amino-5-methylthio-1,3,4-thiadiazole	5319-77-7	25.00	1.4020	2	2048	C3H7NO2	D-alanine	338-69-2	22.00	1.4310	2
1809	C3H6	cyclopropane	75-19-4	-127.56	0.9174	2	2049	C3H7NO2	L-alanine	56-41-7	22.00	1.4329	1
1810	C3H6	propylene	115-07-1	-185.26	0.7954	1	2050	C3H7NO2	beta-alanine	107-95-9	19.00	1.4370	1
1818	C3H6BrNO	bromoacetone oxime	62116-25-0	25.00	1.5938	2	2051	C3H7NO2	ethyl carbamate	51-79-6	21.00	0.9862	1
1820	C3H6BrNO4	2-bromo-2-nitro-1,3-propanediol	52-51-7	25.00	1.7823	2	2052	C3H7NO2	2-hydroxypropanamide, (±)	65144-02-7	80.00	1.1381	1
1833	C3H6ClNO	2-chloropropionamide	27816-36-0	25.00	1.1600	2	2055	C3H7NO2	sarcosine	107-97-1	30.14	0.9997	2
1839	C3H6ClNO2	3-chloro-L-alanine	2731-73-9	19.40	1.2310	2	2056	C3H7NO2	N-(hydroxymethyl)acetamide	625-51-4	25.00	1.1400	1
1840	C3H6ClNO2	N-hydroxymethyl-2-chloroacetamide	2832-19-1	19.40	1.2310	2	2057	C3H7NO2	(S)-(-)-lactamide	89673-71-2	30.14	0.9997	2
1842	C3H6ClNS	dimethylcarbamothioic chloride	16420-13-6	25.00	1.2041	2	2058	C3H7NO2S	L-cysteine	52-90-4	25.00	1.1972	2
1844	C3H6Cl2	1,1-dichloropropane	78-99-9	-105.24	1.4349	2	2059	C3H7NO2S	DL-cysteine	3374-22-9	25.00	1.1972	2
1845	C3H6Cl2	1,2-dichloropropane	78-87-5	-100.44	1.5253	2	2066	C3H7NO3	DL-serine	302-84-1	22.00	1.6030	1
1846	C3H6Cl2	1,3-dichloropropane	142-28-9	-99.50	1.5479	2	2067	C3H7NO3	D-serine	312-84-5	22.00	1.6015	2
1850	C3H6Cl2O	2,3-dichloro-1-propanol	616-23-9	-29.15	1.6510	2	2068	C3H7NO3	L-serine	56-45-1	22.00	1.6000	1
1853	C3H6Cl2O	1,3-dichloro-2-propanol	96-23-1	-4.00	1.6381	2	2072	C3H7NO5	1,2,3-propanetriol 1-nitrate	624-43-1	20.00	1.4164	1
1856	C3H6Cl2Si	dichlorovinylmethylsilane	124-70-9	-95.00	1.4248	2	2073	C3H7NO5	1,2,3-propanetriol 2-nitrate	620-12-2	22.00	1.4000	1
1858	C3H6Cl3N	phosgene iminium chloride	33842-02-3	25.00	1.3373	2	2074	C3H7NO5S	DL-cysteic acid	3024-83-7	25.00	1.4330	2
1882	C3H6N2	imidazoline	504-75-6	18.50	0.9892	2	2080	C3H7N3OS	1-acetylthiosemicarbazide	2302-88-7	25.00	1.2796	2
1883	C3H6N2O	2-imidazolidinone	120-93-4	25.00	1.0794	2	2081	C3H7N3O2	N-ethyl-N-nitrosourea	759-73-9	25.00	1.2441	2
1886	C3H6N2OS	N-(aminothioxomethyl)acetamide	591-08-2	25.00	1.2395	2	2082	C3H7N3O2	glycocyamine	352-97-6	25.00	1.2441	2
1888	C3H6N2O2	N-(aminocarbonyl)acetamide	591-07-1	25.00	1.1958	2	2085	C3H7N3O4	L-alanosine	5854-93-3	25.00	1.4152	2
1889	C3H6N2O2	4-amino-3-isoxazolidinone, (R)	68-41-7	25.00	1.1958	2	2086	C3H7N3O5	1,3,5-triazine-2,4,6(1H,3H,5H)-trione dihydr*	6202-04-6	20.00	2.5000	1
1890	C3H6N2O2	2-(hydroxyimino)propanal oxime	1804-15-5	25.00	1.1958	2	2094	C3H8	propane	74-98-6	-187.68	0.7551	1
1891	C3H6N2O2	propanediamide	108-13-4	25.00	1.1958	2	2102	C3H8IN	eschenmoser's salt	33797-51-2	25.00	1.7217	2
1892	C3H6N2O2	L-cycloserine	339-72-0	25.00	1.1958	2	2111	C3H8N2O	N,N-dimethylurea	598-94-7	25.00	1.2555	1
1898	C3H6N2O4	2,2-dinitropropane	595-49-3	25.00	1.3000	1	2112	C3H8N2O	N,N'-dimethylurea	96-31-1	25.00	1.1420	1
1899	C3H6N2O4	ethyl nitrocarbamate	626-37-9	20.00	1.0074	1	2113	C3H8N2O	N-ethylurea	625-52-5	18.00	1.2130	1
1903	C3H6N2O6	2,2-dinitro-1,3-propanediol	2736-80-3	25.00	1.5402	2	2116	C3H8N2O2	3-aminoalanine	515-94-6	25.00	1.1030	2
1904	C3H6N2O7	glycerol 1,3-dinitrate	623-87-0	20.00	1.5230	1	2117	C3H8N2O2	ethyl hydrazinecarboxylate	4114-31-2	25.00	1.1030	2
1906	C3H6N2S	4,5-dihydro-2-thiazolamine	1779-81-3	25.00	1.1388	2	2122	C3H8N2O3	oxymethurea	140-95-4	25.00	1.2010	2
1907	C3H6N2S	2-imidazolidinethione	96-45-7	25.00	1.1388	2	2124	C3H8N2S	N,N'-dimethylthiourea	534-13-4	25.00	1.0552	2
1915	C3H6N4O4	1,3-dinitro-1,3-diazacyclopentane	5754-91-6	25.00	1.5423	2	2128	C3H8N4O4	N,N'-dinitro-N-methyl-1,2-diaminoethane	10308-90-4	25.00	1.4382	2
1916	C3H6N4S	3-amino-5-methylthio-1H-1,2,4-triazole	45534-08-5	25.00	1.3255	2	2129	C3H8O	propyl alcohol	71-23-8	-126.20	1.0697	2
1917	C3H6N6	1,3,5-triazine-2,4,6-triamine	108-78-1	25.00	1.5730	1	2130	C3H8O	isopropyl alcohol	67-63-0	-87.87	1.0276	2
1918	C3H6N6O3	hexahydro-1,3,5-trinitroso-1,3,5-triazine	13980-04-6	25.00	1.6125	2	2131	C3H8O	methyl ethyl ether	540-67-0	-113.15	0.9856	2
1919	C3H6N6O6	hexahydro-1,3,5-trinitro-1,3,5-triazine	121-82-4	20.00	1.8200	1	2138	C3H8O2	2-methoxyethanol	109-86-4	-85.10	1.2251	2
1920	C3H6O	allyl alcohol	107-18-6	-129.00	1.1442	2	2139	C3H8O2	methylal	109-87-5	-104.80	1.1871	2
1921	C3H6O	methyl vinyl ether	107-25-5	-122.00	1.0687	2	2140	C3H8O2	1,2-propanediol (propylene glycol)	57-55-6	-60.00	1.2784	2
1922	C3H6O	propionaldehyde	123-38-6	-103.15	1.0803	2	2141	C3H8O2	1,3-propanediol	504-63-2	-26.70	1.2708	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
2143	C3H8O2	(R)-(-)-1,2-propanediol	4254-14-2	25.00	1.0400	1	2440	C4H3BrN2	2-bromopyrimidine	4595-60-2	25.00	1.8093	2
2144	C3H8O2	(S)-(+)-1,2-propanediol	4254-15-3	25.00	1.0400	1	2441	C4H3BrN2O2	5-bromo-2,4(1H,3H)-pyrimidinedione	51-20-7	25.00	1.9271	2
2148	C3H8O3	glycerol	56-81-5	18.00	1.3356	1	2444	C4H3BrO4	bromofumaric acid	584-99-6	25.00	1.9145	2
2152	C3H8O3S	2-(methanesulfonyl)ethanol	15205-66-0	25.00	1.1893	2	2445	C4H3BrO4	bromomaleic acid	644-80-4	25.00	1.9145	2
2158	C3H8S	propyl mercaptan	107-03-9	-113.20	1.1348	2	2454	C4H3ClN2	2-chloropyrimidine	1722-12-9	25.00	1.3440	2
2159	C3H8S	isopropyl mercaptan	75-33-2	-130.54	1.1272	2	2455	C4H3ClN2O2	5-chlorouracil	1820-81-1	25.00	1.5193	2
2160	C3H8S	methyl ethyl sulfide	624-89-5	-105.92	1.1272	2	2456	C4H3ClN2O3	5-chlorobarbituric acid	19645-77-3	25.00	1.5924	2
2165	C3H9Al	trimethyl aluminum	75-24-1	-10.00	0.8770	1	2461	C4H3ClO2S2	2-thiophenesulfonyl chloride	16629-19-9	25.00	1.5338	2
2190	C3H9ClSi	trimethylchlorosilane	75-77-4	-57.70	1.1190	2	2465	C4H3Cl2N3	5-amino-4,6-dichloropyrimidine	5413-85-4	25.00	1.5376	2
2193	C3H9Ga	trimethylgallium	1445-79-0	-15.70	1.3894	2	2466	C4H3Cl2N3	2-amino-4,6-dichloropyrimidine	56-05-3	25.00	1.5376	2
2195	C3H9IOS	trimethylsulfoxonium iodide	1774-47-6	25.00	1.7074	2	2470	C4H3Cl3O2	(R)-(-)-3-hydroxy-4,4,4-trichlorobutyric b-l*	16493-62-2	25.00	1.5484	2
2196	C3H9IS	trimethylsulfonium iodide	2181-42-2	25.00	1.6554	2	2474	C4H3FN2O2	5-fluorouracil	51-21-8	25.00	1.4593	2
2200	C3H9N	propylamine	107-10-8	-84.79	0.9517	2	2475	C4H3F3N2	3-(trifluoromethyl)pyrazole	20154-03-4	25.00	1.3931	2
2201	C3H9N	isopropylamine	75-31-0	-95.20	0.9399	2	2477	C4H3F3O2	2-(trifluoromethyl)acrylic acid	381-98-6	25.00	1.3949	2
2203	C3H9N	trimethylamine	75-50-3	-117.07	0.9103	2	2485	C4H3IN2O2	5-iodouracil	696-07-1	25.00	2.2076	2
2204	C3H9NO	1-amino-2-propanol	78-96-6	1.74	1.1417	2	2492	C4H3NO2	1H-pyrrole-2,5-dione	541-59-3	106.00	1.2493	1
2205	C3H9NO	3-amino-1-propanol	156-87-6	11.00	1.1642	2	2493	C4H3NO2S	2-nitrothiophene	609-40-5	43.00	1.3644	1
2206	C3H9NO	methylethanolamine	109-83-1	-4.50	1.1267	2	2494	C4H3NO2S	3-nitrothiophene	822-84-4	25.00	1.4258	2
2209	C3H9NO	trimethylamine oxide	1184-78-7	25.00	0.9566	2	2495	C4H3NO3	2-nitrofuran	609-39-2	25.00	1.4025	2
2218	C3H9NO2	serinol	534-03-2	23.33	1.1751	2	2496	C4H3NO3	N-hydroxymaleimide	4814-74-8	25.00	1.4025	2
2219	C3H9NO3	ammonium lactate	52003-58-4	20.00	1.2006	1	2497	C4H3NO3	isoxazole-5-carboxylic acid	21169-71-1	25.00	1.4025	2
2220	C3H9NO3S	2-(methylamino)ethanesulfonic acid	107-68-6	25.00	1.2016	2	2499	C4H3N3O4	2,4,5,6(1H,3H)-pyrimidinetetrone 5-oxime	87-39-8	25.00	1.6581	2
2221	C3H9NO3S	3-amino-1-propanesulfonic acid	3687-18-1	25.00	1.2016	2	2500	C4H3N3O4	4,6-dihydroxy-5-nitropyrimidine	2164-83-2	25.00	1.6581	2
2224	C3H9N3S	4,4-dimethyl-3-thiosemicarbazide	6926-58-5	25.00	1.1090	2	2501	C4H3N3O4	5-nitrouracil	611-08-5	25.00	1.6581	2
2225	C3H9N3S	4-ethyl-3-thiosemicarbazide	13431-34-0	25.00	1.1090	2	2503	C4H3N3O5	5-nitro-2,4,6(1H,3H,5H)-pyrimidinetrione	480-68-2	25.00	1.7248	2
2234	C3H9O3P	isopropylphosphonic acid	4721-37-3	20.00	1.1367	2	2506	C4H3N5O2	1H-v-triazolo(4,5-d)pyrimidine-5,7(4H,6H)-di*	1468-26-4	25.00	1.6641	2
2235	C3H9O3P	propylphosphonic acid	4672-38-2	20.00	1.1367	2	2510	C4H4	vinylacetylene	689-97-4	-93.20	0.9426	2
2241	C3H9O4P	trimethyl phosphate	512-56-1	-46.15	1.4848	2	2517	C4H4BrN3O	5-bromocytosine	2240-25-7	25.00	1.8583	2
2248	C3H10ClN	ethylmethylamine hydrochloride	624-60-2	20.00	1.0874	1	2518	C4H4BrNO2	N-bromosuccinimide	128-08-5	25.00	2.0980	1
2249	C3H10ClN	propylamine hydrochloride	556-53-6	25.00	0.9092	2	2520	C4H4Br2O2	2,2'-dibromobiacetyl	6305-43-7	25.00	2.1214	2
2250	C3H10ClN	trimethylamine hydrochloride	593-81-7	25.00	0.9092	2	2521	C4H4Br2O4	meso-2,3-dibromosuccinic acid	526-78-3	25.00	2.1862	2
2255	C3H10N2	1,2-propanediamine	78-90-0	-36.62	1.0674	2	2524	C4H4ClNO2	N-chlorosuccinimide	128-09-6	25.00	1.6500	1
2258	C3H10N2	1,3-propanediamine	109-76-2	-12.00	1.0822	2	2530	C4H4ClN3O	2-amino-6-chloro-4-pyrimidinol monohydrate	1194-21-4	25.00	1.4615	2
2260	C3H10N2O	1,3-diamino-2-hydroxypropane	616-29-5	25.00	0.9217	2	2531	C4H4ClN3O2	5-chloro-3-methyl-4-nitro-1H-pyrazole	6814-58-0	25.00	1.5356	2
2266	C3H10O3Si	trimethoxysilane	2487-90-3	-113.55	1.2953	2	2532	C4H4ClN3O2	5-chloro-1-methyl-4-nitroimidazole	4897-25-0	25.00	1.5356	2
2268	C3H10Si	trimethyl silane	993-07-7	-135.89	0.9200	2	2540	C4H4Cl2O2	4,4-dichlorocrotonic acid	99980-00-4	99.00	1.3331	1
2276	C3H12BN	trimethylamine borane	75-22-9	25.00	0.7920	1	2541	C4H4Cl2O3	chloroacetic anhydride	541-88-8	20.00	1.5497	1
2292	C4Br4S	tetrabromothiophene	3958-03-0	25.00	2.8356	2	2543	C4H4Cl2O4	2,3-dichlorobutanedioic acid, (±)	1114-09-6	15.00	1.8440	1
2302	C4Cl2F6	1,2-dichloro-1,2,3,3,4,4-hexafluorocyclobuta*	356-18-3	-24.00	2.1640	2	2554	C4H4F3N3S	4-methyl-5-trifluoromethyl-4H-1,2,4-triazoli*	30682-81-6	25.00	1.5014	2
2313	C4Cl4F4	1,1,2,2-tetrachloro-3,3,4,4-tetrafluorocyclo*	336-50-5	25.00	1.7228	2	2560	C4H4INO2	1-iodo-2,5-pyrrolidinedione	516-12-1	25.00	2.2450	1
2315	C4Cl4N2	2,4,5,6-tetrachloropyrimidine	1780-40-1	25.00	1.7673	2	2561	C4H4I2	1,4-diiodo-2-butyne	116529-73-8	25.00	2.5252	2
2317	C4Cl4S	tetrachlorothiophene	6012-97-1	28.82	2.0017	2	2562	C4H4N2	succinonitrile	110-61-2	25.00	1.0220	1
2318	C4Cl6	hexachloro-1,3-butadiene	87-68-3	-21.00	2.0365	2	2563	C4H4N2	pyrazine	290-37-9	20.00	1.2660	1
2334	C4F8	octafluoro-2-butene	360-89-4	-135.00	2.1803	2	2564	C4H4N2	pyridazine	289-80-5	-8.00	1.3135	2
2336	C4F8	octafluorocyclobutane	115-25-3	-40.19	2.0203	2	2565	C4H4N2	pyrimidine	289-95-2	21.75	1.2334	2
2338.1	C4F8O	pentafluoroethyl trifluorovinyl ether	10493-43-3	-145.15	2.0722	2	2566	C4H4N2O	4(3H)-pyrimidone	51953-17-4	25.00	1.2296	2
2341	C4F9I	perfluoro-tert-butyl iodide	4459-18-1	25.00	2.1157	2	2567	C4H4N2OS	2,3-dihydro-2-thioxo-4(1H)-pyrimidinone	141-90-2	25.00	1.3676	2
2344	C4F10	decafluorobutane	355-25-9	-128.20	2.2946	2	2568	C4H4N2OS	4-thiouracil	591-28-6	25.00	1.3676	2
2351	C4HBrCl2N2	5-bromo-2,4-dichloropyrimidine	36082-50-5	25.00	1.7810	1	2569	C4H4N2O2	2-butynediamide	543-21-5	25.00	1.3382	2
2354	C4HBr3S	2,3,5-tribromothiophene	3141-24-0	25.00	2.5539	2	2570	C4H4N2O2	uracil	66-22-8	25.00	1.3382	2
2356	C4HClN2	cis-2-chloro-2-butenedinitrile	71200-79-8	20.00	1.2499	1	2571	C4H4N2O2	4,6-dihydroxypyrimidine	1193-24-4	25.00	1.3382	2
2357	C4HClO3	3-chloro-2,5-furandione	96-02-6	25.00	1.5375	1	2572	C4H4N2O2	maleic hydrazide	123-33-1	25.00	1.3382	2
2358	C4HCl2NO2	dichloromaleimide	1193-54-0	25.00	1.6533	2	2573	C4H4N2O2S	4,6-dihydroxy-2-mercaptopyrimidine	504-17-6	25.00	1.4513	2
2359	C4HCl2N3O2	2,4-dichloro-5-nitropyrimidine	49845-33-2	25.00	1.7816	2	2574	C4H4N2O3	barbituric acid	67-52-7	25.00	1.4331	2
2364	C4HCl7O2	2,2,3,3,5,5,6-heptachloro-1,4-dioxane	6629-96-5	25.00	1.8080	2	2575	C4H4N2O5	alloxanic acid	470-44-0	25.00	1.5912	2
2370	C4HI4N	2,3,4,5-tetraiodo-1H-pyrrole	87-58-1	25.00	3.3777	2	2577	C4H4N2S	2-mercaptopyrimidine	1450-85-7	25.00	1.2731	2
2377	C4H2Br2N2O3	5,5-dibromo-2,4,6(1H,3H,5H)-pyrimidinetrione	511-67-1	25.00	2.3811	2	2578	C4H4N2S2	ethylene glycol dithiocyanate	629-17-4	25.00	1.4200	1
2380	C4H2Br2O3	mucobromic acid	488-11-9	25.00	2.3113	2	2579	C4H4N2S2	dithiouracil	2001-93-6	25.00	1.3913	2
2381	C4H2Br2O4	dibromomaleic acid	608-37-7	25.00	2.3371	2	2581	C4H4N2S3	ethylene thiuram monosulfide	33813-20-6	25.00	1.4786	2
2389	C4H2Cl2N2	2,6-dichloropyrazine	4774-14-5	25.00	1.5217	2	2582	C4H4N4	3-amino-4-pyrazolecarbonitrile	16617-46-2	25.00	1.3342	2
2390	C4H2Cl2N2	3,6-dichloropyridazine	141-30-0	25.00	1.5217	2	2583	C4H4N4	diaminomaleonitrile	1187-42-4	25.00	1.3342	2
2391	C4H2Cl2N2	4,6-dichloropyrimidine	1193-21-1	25.00	1.5217	2	2585	C4H4N4O2	5-nitropyrimidinamine	3073-77-6	25.00	1.5186	2
2392	C4H2Cl2N2	2,4-dichloropyrimidine	3934-20-1	25.00	1.5217	2	2588	C4H4N6O	8-azaguanine	134-58-7	25.00	1.5989	2
2394	C4H2Cl2O2S2	5-chlorothiophenesulphonyl chloride	2766-74-7	25.00	1.6476	2	2592	C4H4O	furan	110-00-9	-121.15	1.1560	2
2395	C4H2Cl2O3	mucochloric acid	87-56-9	25.00	1.5902	2	2598	C4H4O2	diketene	674-82-8	-6.50	1.2611	2
2405	C4H2Cl8O	bis(1,2,2,2-tetrachloroethyl) ether	41284-12-2	25.00	1.7645	2	2599	C4H4O2	2-butynoic acid	590-93-2	20.00	0.9641	1
2406	C4H2F4O4	tetrafluorosuccinic acid	377-38-8	25.00	1.6241	2	2603	C4H4O3	succinic anhydride	108-30-5	20.00	1.1040	2
2409	C4H2F7NO	2,2,3,3,4,4,4-heptafluorobutyramide	662-50-0	25.00	1.5891	2	2604	C4H4O3	4-hydroxy-2(5H)-furanone	541-57-1	25.00	1.2373	2
2415	C4H2I2S	2,5-diiodothiophene	625-88-7	25.00	2.6310	2	2605	C4H4O4	fumaric acid	110-17-8	20.00	1.6350	2
2420	C4H2N2	trans-2-butenedinitrile	764-42-1	96.80	1.1217	2	2606	C4H4O4	maleic acid	110-16-7	20.00	1.5900	2
2420.1	C4H2N2	maleonitrile	928-53-0	31.25	1.3507	2	2607	C4H4O4	diglycolic anhydride	4480-83-5	22.50	1.6125	2
2421	C4H2N2O4	2,4,5,6(1H,3H)-pyrimidinetetrone	50-71-5	25.00	1.6523	2	2608	C4H4O4	1,4-dioxane-2,5-dione	502-97-6	22.50	1.6125	2
2422	C4H2N2O4S	2,5-dinitrothiophene	59434-05-8	25.00	1.7149	2	2609	C4H4O5	oxaloacetic acid	328-42-7	25.00	1.4338	2
2423	C4H2N2O4S	2,4-dinitrothiophene	5347-12-6	25.00	1.7149	2	2610	C4H4O6	2,3-dihydroxymaleic acid	526-84-1	25.00	1.5151	2
2426	C4H2N4O2	diazouracil	2435-76-9	25.00	1.6588	2	2613	C4H4S	thiophene	110-02-1	-38.21	1.1886	2
2430	C4H2O3	maleic anhydride	108-31-6	52.57	1.4980	2	2625	C4H5BrN2	4-bromo-3-methyl-1H-pyrazole	13808-64-5	100.00	1.5638	1
2431	C4H2O3	moniliformin	31876-38-7	25.00	1.3644	2	2628	C4H5BrO2	3-bromo-2-methyl-2-propenoic acid	89123-63-7	25.00	1.6561	2
2432	C4H2O4	2-butynedioic acid	142-45-0	25.00	1.4720	2	2630	C4H5BrO4	bromobutanedioic acid, (±)	584-98-5	25.00	2.0730	1
2433	C4H2O4	3,4-dihydroxy-3-cyclobutene-1,2-dione	2892-51-5	25.00	1.4720	2	2631	C4H5BrO4	DL-bromosuccinic acid	923-06-8	25.00	1.7770	2
2439	C4H3BrN2	5-bromopyrimidine	4595-59-9	25.00	1.8093	2	2634	C4H5Cl	chloroprene	126-99-8	-130.00	1.3103	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
2641	C4H5ClN2	3-chloro-5-methyl-1H-pyrazole	15953-45-4	25.00	1.2369	2	2887	C4H6N2	2-methyl-1H-imidazole	693-98-1	16.60	1.0205	2
2644	C4H5ClN2S3	5-chloromethylthio-3-methylmercapto-1,2,4-th*	---	25.00	1.5097	2	2888	C4H6N2	4-methyl-1H-imidazole	822-36-6	14.00	1.0416	1
2645	C4H5ClN4	2,6-diamino-4-chloropyrimidine / 4-chloro-2,*	156-83-2	25.00	1.4073	2	2889	C4H6N2	1-methyl-1H-pyrazole	930-36-9	13.00	0.9929	1
2653	C4H5ClO2	cis-3-chlorobutenoic acid	6213-90-7	66.00	1.1905	1	2890	C4H6N2	3-methyl-1H-pyrazole	1453-58-3	16.00	1.0203	1
2654	C4H5ClO2	trans-3-chlorobutenoic acid	6214-28-4	69.00	1.1969	1	2891	C4H6N2	4-methyl-1H-pyrazole	7554-65-6	20.00	1.0150	1
2655	C4H5ClO2	trans-2-chloro-2-butenoic acid	22038-56-8	40.00	1.1631	2	2895	C4H6N2O	3-amino-5-methylisoxazole	1072-67-9	25.00	1.1256	2
2656	C4H5ClO2	4-chloro-2-butenoic acid	16197-90-3	40.00	1.1631	2	2896	C4H6N2O	5-amino-3-methylisoxazole	14678-02-5	25.00	1.1256	2
2657	C4H5ClO2	trans-4-chlorocrotonic acid	26340-58-9	40.00	1.1631	2	2897	C4H6N2O	3-methyl-2-pyrazolin-5-one	108-26-9	25.00	1.1256	2
2674	C4H5Cl3O2	2,2,3-trichlorobutanoic acid	5344-55-8	25.00	1.4575	2	2898	C4H6N2O	4-methyl-2-pyrazolin-5-one	13315-23-6	25.00	1.1256	2
2676	C4H5Cl5	1,1,2,3,4-pentachlorobutane	77753-24-3	53.00	1.5390	1	2903	C4H6N2O2	2,5-piperazinedione	106-57-0	15.50	1.0932	2
2677	C4H5Cl5	1,2,2,3,4-pentachlorobutane	2431-52-9	20.00	1.5543	1	2904	C4H6N2O2	5,6-dihydrouracil	504-07-4	15.50	1.0932	2
2678	C4H5Cl5	1,1,1,2,3-pentachloroisobutane	4749-31-9	25.00	1.5686	1	2905	C4H6N2O2	fumaramide	627-64-5	15.50	1.0932	2
2679	C4H5Cl5	1,1,2,3-tetrachloro-2-(chloromethyl)propane	66997-45-3	25.00	1.5686	1	2906	C4H6N2O2	1-methylhydantoin	616-04-6	15.50	1.0932	2
2680	C4H5Cl5	pentachlorobutane	31391-27-2	30.75	1.5576	2	2907	C4H6N2O2	N-acetylglycinamide	2620-63-5	15.50	1.0932	2
2695	C4H5N	trans-crotonitrile	627-26-9	-51.15	1.0265	2	2910	C4H6N2O2	5-aminomethyl-3-isoxyzole	2763-96-4	15.50	1.0932	2
2696	C4H5N	cis-crotonitrile	1190-76-7	-72.60	1.0667	2	2919	C4H6N2S	1,3-dihydro-1-methyl-2H-imidazole-2-thione	60-56-0	25.00	1.1757	2
2697	C4H5N	methacrylonitrile	126-98-7	-35.80	0.9997	2	2920	C4H6N2S	2,5-dimethyl-1,3,4-thiadiazole	27464-82-0	25.00	1.1757	2
2698	C4H5N	vinylacetonitrile	109-75-1	-87.00	1.0869	2	2921	C4H6N2S	4-methyl-2-thiazolamine	1603-91-4	25.00	1.1757	2
2701	C4H5N	pyrrole	109-97-7	-23.41	1.1741	2	2922	C4H6N2S2	N-cyanoimido-S,S-dimethyl-dithiocarbonate,re*	10191-60-3	25.00	1.2979	2
2709	C4H5NO	2-hydroxy-3-butenenitrile	5809-59-6	-80.15	1.2896	2	2924	C4H6N4	4,5-diaminopyrimidine	13754-19-3	25.00	1.2230	2
2710	C4H5NOS	monothiosuccinimide	4166-00-1	25.00	1.2255	2	2926	C4H6N4O	2,4-diamino-6-hydroxypyrimidine	56-06-4	25.00	1.3185	2
2711	C4H5NOS2	3-hydroxy-4-methyl-2(3H)-thiazolethione	49762-08-5	25.00	1.3441	2	2927	C4H6N4O	5-aminoimidazole-4-carboxamide	360-97-4	25.00	1.3185	2
2713	C4H5NO2	methyl cyanoacetate	105-34-0	-13.07	1.3575	2	2929	C4H6N4O2	tetrahydroimidazo[4,5-d]imidazole-2,5(1H,3H)*	496-46-8	25.00	1.4033	2
2714	C4H5NO2	2-cyanopropanoic acid	632-07-5	20.00	1.1400	1	2931	C4H6N4O3	allantoin	97-59-6	25.00	1.4793	2
2716	C4H5NO2	succinimide	123-56-8	25.00	1.4180	2	2932	C4H6N4O3S2	acetazolamide	59-66-5	25.00	1.6103	2
2721	C4H5NO3	cis-4-amino-4-oxo-2-butenoic acid	557-24-4	25.00	1.2839	2	2936	C4H6N4O12	1,2,3,4-butanetetrol tetranitrate, (R*,S*)	7297-25-8	25.00	1.9191	2
2723	C4H5NO3	N-hydroxysuccinimide	6066-82-6	25.00	1.2839	2	2938	C4H6N6O	5-nitroso-2,4,6-triaminopyrimidine	1006-23-1	25.00	1.4799	2
2729	C4H5NS2	4-methyl-2(3H)-thiazolethione	5685-06-3	25.00	1.2628	2	2939.1	C4H6O	cis-crotonaldehyde	15798-64-8	-114.77	1.1039	2
2730	C4H5N3	2-pyrimidinamine	109-12-6	25.00	1.1700	2	2940	C4H6O	trans-crotonaldehyde	123-73-9	-76.50	1.1004	2
2731	C4H5N3	aminopyrazine	5049-61-6	25.00	1.1700	2	2941	C4H6O	methacrolein	78-85-3	-81.00	1.1074	2
2732	C4H5N3	4-aminopyrimidine	591-54-8	25.00	1.1700	2	2942	C4H6O	2,5-dihydrofuran	1708-29-8	-102.15	1.2546	2
2733	C4H5N3	1,1'-imidodiacetonitrile	628-87-5	76.00	1.1508	2	2943	C4H6O	2,3-dihydrofuran	1191-99-7	-97.15	1.2228	2
2734	C4H5N3O	cytosine	71-30-7	25.00	1.2785	2	2944	C4H6O	divinyl ether	109-93-3	-101.10	1.0093	2
2735	C4H5N3OS	6-aza-2-thiothymine	615-76-9	25.00	1.3973	2	2963	C4H6O2	2-butyne-1,4-diol	110-65-6	57.85	1.3172	2
2738	C4H5N3O2	6-methyl-1,2,4-triazine-3,5(2H,4H)-dione	932-53-6	25.00	1.3738	2	2964	C4H6O2	3-butyne-1,2-diol	616-28-4	22.12	1.0379	2
2739	C4H5N3O2	2-amino-4,6-dihydroxypyrimidine	56-09-7	25.00	1.3738	2	2965	C4H6O2	gamma-butyrolactone	96-48-0	-43.37	1.3774	2
2740	C4H5N3O2	4-amino-2,6-dihydroxypyrimidine	873-83-6	25.00	1.3738	2	2966	C4H6O2	cis-2-butenoic acid	503-64-0	15.50	1.2053	2
2741	C4H5N3O2	3-aminopyrazole-4-carboxylic acid	41680-34-6	25.00	1.3738	2	2967	C4H6O2	trans-2-butenoic acid	107-93-7	71.40	1.1018	1
2742	C4H5N3O2	5-aminouracil	932-52-5	25.00	1.3738	2	2969	C4H6O2	methacrylic acid	79-41-4	15.00	1.1880	2
2743	C4H5N3O2	2-methyl-5-nitroimidazole	88054-22-2	25.00	1.3738	2	2970	C4H6O2	methyl acrylate	96-33-3	-76.83	1.2741	2
2745	C4H5N3O2	1-methyl-4-nitro-1H-imidazole	3034-41-1	25.00	1.3738	2	2971	C4H6O2	vinyl acetate	108-05-4	-92.80	1.2397	2
2747	C4H5N3O3	5-amino-2,4,6(1H,3H,5H)-pyrimidinetrione	118-78-5	25.00	1.4583	2	2986	C4H6O2S	2,5-dihydrothiophene 1,1-dioxide	77-79-2	25.00	1.1834	2
2750	C4H5N3S	4-amino-2-mercaptopyrimidine	333-49-3	25.00	1.3131	2	2990	C4H6O3	acetic anhydride	108-24-7	-73.00	1.3884	2
2754	C4H6	dimethylacetylene	503-17-3	-32.24	1.1300	2	2991	C4H6O3	acetoacetic acid	541-50-4	23.45	1.2171	2
2755	C4H6	ethylacetylene	107-00-6	-125.72	0.9196	2	2992	C4H6O3	2-hydroxy-3-butenoic acid	600-17-9	21.00	1.2020	1
2756	C4H6	1,2-butadiene	590-19-2	-136.20	0.9574	2	2994	C4H6O3	2-oxobutanoic acid	600-18-0	17.00	1.2000	1
2757	C4H6	butadiene (1,3 butadiene)	106-99-0	-108.90	0.9670	2	2995	C4H6O3	propylene carbonate	108-32-7	-49.20	1.4905	2
2770	C4H6Br2	1,1-dibromo-1-butene	73383-24-1	20.00	1.8330	1	3000	C4H6O3	1-hydroxy-1-cyclopropanecarboxylic acid	17994-25-1	23.45	1.2171	2
2771	C4H6Br2	1,2-dibromo-1-butene	55030-56-3	25.00	1.8870	1	3006	C4H6O4	succinic acid	110-15-6	25.00	1.5660	1
2772	C4H6Br2	1,3-dibromo-2-butene	64930-16-1	20.00	1.8768	1	3007	C4H6O4	(acetyloxy)acetic acid	13831-30-6	68.00	1.6412	1
2773	C4H6Br2	3,4-dibromo-1-butene	10463-48-6	24.00	1.8650	1	3008	C4H6O4	diacetylperoxide	110-22-5	32.50	1.3449	2
2774	C4H6Br2	trans-1,4-dibromo-2-butene	821-06-7	22.00	1.8895	2	3009	C4H6O4	dimethyl oxalate	553-90-2	60.00	1.1716	1
2777	C4H6Br2	1,3-dibromo-2-methyl-1-propene	35911-17-2	20.00	1.8630	1	3011	C4H6O4	methylmalonic acid	516-05-2	20.00	1.4550	1
2778	C4H6Br2	1,4-dibromo-2-butene	6974-12-5	22.00	1.8895	2	3012	C4H6O4	(3R,4R)-(-)-D-erythronolactone	15667-21-7	32.50	1.3449	2
2783	C4H6Br2O2	2,3-dibromobutanoic acid	600-30-6	20.00	1.9162	2	3014	C4H6O4Mn	manganese acetate	638-38-0	25.00	1.5900	1
2786	C4H6Br2O2	trans-2,3-dibromo-2-butene-1,4-diol	3234-02-4	20.00	1.9162	2	3015	C4H6O4Pb	lead(ii) acetate	301-04-2	25.00	3.2500	1
2788	C4H6Br4	1,1,4,4-tetrabromobutane	116779-77-2	20.00	2.5290	1	3016	C4H6O4S	thiodiglycolic acid	123-93-3	25.00	1.3518	2
2790	C4H6Br4	1,2,3,4-tetrabromobutane, (±)	2657-65-0	20.00	2.5195	2	3017	C4H6O4S	DL-mercaptosuccinic acid	70-49-5	25.00	1.3518	2
2791	C4H6Br4	1,2,3,4-tetrabromobutane	1529-68-6	20.00	2.5195	2	3018	C4H6O4S2	meso-2,3-dimercaptosuccinic acid	304-55-2	25.00	1.4389	2
2793	C4H6CdO4	cadmium acetate	543-90-8	25.00	2.3400	1	3020	C4H6O4Sn	tin(ii) acetate	638-39-1	25.00	2.3100	1
2801	C4H6ClNO2	5-chloromethyl-2-oxazolidinone	22625-57-6	25.00	1.2822	2	3022	C4H6O4Zn	zinc acetate	557-34-6	25.00	1.7875	1
2806	C4H6Cl2	1,3-dichloro-trans-2-butene	7415-31-8	-48.00	1.3750	2	3023	C4H6O5	diglycolic acid	110-99-6	19.85	1.5999	2
2807	C4H6Cl2	1,4-dichloro-cis-2-butene	1476-11-5	-50.00	1.4875	2	3024	C4H6O5	malic acid	6915-15-7	20.00	1.6010	1
2808	C4H6Cl2	1,4-dichloro-trans-2-butene	110-57-6	2.50	1.4125	2	3025	C4H6O5	(hydroxymethyl)propanedioic acid	4360-96-7	25.00	1.3259	2
2809	C4H6Cl2	3,4-dichloro-1-butene	760-23-6	-61.15	1.4625	2	3027	C4H6O5	D(+)-malic acid	636-61-3	25.00	1.3259	2
2840	C4H6Cl2O2	3,4-dichlorobutyric acid	29653-38-1	22.14	1.3452	2	3028	C4H6O5	L(-)-malic acid	97-67-6	25.00	1.3259	2
2841	C4H6Cl2O2	2,3-dichloro-1,4-dioxane	95-59-0	20.00	1.4680	1	3029	C4H6O5	methyl tartronic acid	595-48-2	25.00	1.3259	2
2844	C4H6Cl2O2	trans-2,3-dichloro-1,4-dioxane	3883-43-0	22.14	1.3452	2	3030	C4H6O5	monoperoxy succinic acid	3504-13-0	25.00	1.3259	2
2848	C4H6Cl2O3	3,3-dichloro-2-hydroxy-2-methylpropanoic acid	31340-44-0	22.50	1.3990	2	3033	C4H6O6	tartaric acid	87-69-4	21.67	1.7086	2
2856	C4H6Cl4	1,1,1,2-tetrachlorobutane	39966-95-5	20.00	1.3907	1	3034	C4H6O6	D-tartaric acid	147-71-7	20.00	1.7598	1
2858	C4H6Cl4	1,2,3,3-tetrachlorobutane	13138-51-7	20.00	1.4204	1	3035	C4H6O6	DL-tartaric acid	133-37-9	20.00	1.7880	1
2859	C4H6Cl4	1,1,1,2-tetrachloro-2-methylpropane	7086-07-9	21.60	1.4363	2	3036	C4H6O6	meso-tartaric acid	147-73-9	20.00	1.6660	1
2861	C4H6Cl4	1,2,3-trichloro-2-(chloromethyl)propane	18963-00-3	25.00	1.5036	1	3038	C4H6O6S	sulfonyldiacetic acid	123-45-5	25.00	1.4893	2
2862	C4H6Cl4	1,2,3,4-tetrachlorobutane	3405-32-1	21.60	1.4363	2	3040	C4H6O8	dihydroxytartaric acid	76-30-2	25.00	1.5434	2
2873	C4H6F3NO2	2-amino-4,4,4-trifluorobutyric acid	15960-05-1	25.00	1.3293	2	3072	C4H7BrO2	2-bromo-2-methylpropanoic acid	2052-01-9	60.00	1.4969	1
2874	C4H6F3NO2	3-amino-4,4,4-trifluorobutyric acid	584-20-3	25.00	1.3293	2	3076	C4H7BrO2	4-bromobutyric acid	2623-87-2	26.44	1.5166	2
2875	C4H6F3NO2	N-(2-hydroxyethyl)trifluoroacetamide	6974-29-4	25.00	1.4130	1	3082	C4H7Br2Cl2O4P	naled	300-76-5	20.00	1.9600	1
2877	C4H6F4O2	2,2,3,3-tetrafluoro-1,4-butanediol	425-61-6	25.00	1.3091	2	3083	C4H7Br3	1,1,1-tribromobutane	62127-62-2	23.38	2.1707	2
2881	C4H6HgO4	mercury(ii) acetate	1600-27-7	25.00	3.2800	1	3086	C4H7Br3	1,1,4-tribromobutane	---	23.38	2.1707	2
2884	C4H6MgO4	magnesium acetate	142-72-3	25.00	1.5000	1	3087	C4H7Br3	1,2,2-tribromobutane	3675-69-2	20.00	2.1692	1

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
3090	C4H7Br3	1,3,3-tribromobutane	62127-46-2	20.00	2.1445	1	3464	C4H8N4O2	1,4-dinitrosopiperazine	140-79-4	25.00	1.3069	2
3092	C4H7Br3	1,1,1-tribromo-2-methylpropane	---	23.38	2.1707	2	3466	C4H8N4O2	di(N-nitroso)-perhydropyrimidine	15973-99-6	25.00	1.3069	2
3093	C4H7Br3	1,1,2-tribromo-2-methylpropane	15331-16-5	23.38	2.1707	2	3468	C4H8N4O4S2	tetramine (adamantane derivative)	80-12-6	25.00	1.5740	2
3095	C4H7Br3	1,2,3-tribromo-2-methylpropane	631-28-7	22.00	2.1930	1	3472	C4H8N8O8	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazo*	2691-41-0	25.00	1.8399	2
3097	C4H7Br3O	1,1,1-tribromo-2-methyl-2-propanol	76-08-4	25.00	2.1779	2	3474	C4H8O	1,2-epoxybutane	106-88-7	-129.28	1.1393	2
3139	C4H7ClO2	2-chloro-2-methylpropanoic acid	594-58-1	20.00	1.1790	1	3476	C4H8O	ethyl vinyl ether	109-92-2	-115.80	1.0672	2
3142	C4H7ClO2	ethyl chloroacetate	105-39-5	-26.00	1.4093	2	3478	C4H8O	butyraldehyde	123-72-8	-195.00	1.0744	1
3171	C4H7Cl3O	1,1,1-trichloro-2-methyl-2-propanol	57-15-8	25.00	1.3170	2	3479	C4H8O	isobutyraldehyde	78-84-2	-65.00	1.0311	2
3172	C4H7Cl3O2	2,2,2-trichloro-1-ethoxyethanol	515-83-3	40.00	1.1430	1	3480	C4H8O	methyl ethyl ketone	78-93-3	-86.67	1.0600	2
3174	C4H8Cl3O4P	trichlorfon	52-68-6	20.00	1.7300	1	3481	C4H8O	tetrahydrofuran	109-99-9	-108.50	1.1826	2
3188	C4H7FN2O3	2-fluoroethyl-N-methyl-N-nitrosocarbamate	63982-15-0	25.00	1.3310	2	3495	C4H8O	cyclopropanemethanol	2516-33-8	25.00	0.9000	1
3224	C4H7I3	1,1,1-triiodobutane	---	25.00	2.6705	2	3499	C4H8OS	s-ethyl thioacetate	625-60-5	-73.15	1.2525	2
3228	C4H7I3	1,2,2-triiodobutane	---	25.00	2.6705	2	3500	C4H8OS	3-(methylthio)propanal	3268-49-3	-26.15	1.2605	2
3231	C4H7I3	1,3,3-triiodobutane	---	25.00	2.6705	2	3504	C4H8O2	butyric acid	107-92-6	-183.00	1.0903	1
3236	C4H7I3	1,2,3-triiodo-2-methylpropane	---	25.00	2.6705	2	3505	C4H8O2	isobutyric acid	79-31-2	-46.00	1.1982	2
3238	C4H7N	butyronitrile	109-74-0	-111.90	1.0573	2	3506	C4H8O2	propyl formate	110-74-7	-92.90	1.1982	2
3239	C4H7N	isobutyronitrile	78-82-0	-71.45	1.0020	2	3508	C4H8O2	ethyl acetate	141-78-6	-83.55	1.1806	2
3246	C4H7NO	acetone cyanohydrin	75-86-5	-20.00	1.1319	2	3509	C4H8O2	methyl propanoate	554-12-1	-87.50	1.2071	2
3247	C4H7NO	2-methacrylamide	79-39-0	25.00	1.1100	1	3510	C4H8O2	1,4-dioxane	123-91-1	11.80	1.2159	2
3248	C4H7NO	3-methoxypropionitrile	110-67-8	-63.03	1.8128	2	3511	C4H8O2	cis-2-butene-1,4-diol	6117-80-2	11.00	1.2687	2
3249	C4H7NO	2-pyrrolidone	616-45-5	20.00	1.1200	1	3512	C4H8O2	trans-2-butene-1,4-diol	821-11-4	27.30	1.2423	2
3250	C4H7NO	trans-2-butenamide	625-37-6	120.00	0.9461	1	3514	C4H8O2	1,3-dioxane	505-22-6	-45.00	1.2775	2
3263	C4H7NO2	2-azetidinecarboxylic acid	2517-04-6	25.00	1.0867	2	3517	C4H8O2	3-hydroxybutanal	107-89-1	0.00	1.2864	2
3264	C4H7NO2	2,3-butanedione monooxime	57-71-6	25.00	1.0867	2	3535.1	C4H8O2	4-hydroxybutraldehyde	25714-71-0	0.00	1.2775	2
3265	C4H7NO2	N-acetylacetamide	625-77-4	25.00	1.0867	2	3535.2	C4H8O2	3-hydroxy-2-methyl propionaldehyde	38433-80-6	-68.15	1.2511	2
3266	C4H7NO2	1-amino-1-cyclopropanecarboxylic acid	22059-21-8	25.00	1.0867	2	3536	C4H8O2S	sulfolane	126-33-0	27.40	1.4781	2
3267	C4H7NO2	(S)-(-)-2-azetidinecarboxylic acid	2133-34-8	25.00	1.0867	2	3540	C4H8O2S	2-mercapto-2-methylpropanoic acid	4695-31-2	21.14	1.1431	2
3271	C4H7NO2	N-(hydroxymethyl)acrylamide	924-42-5	25.00	1.0867	2	3544	C4H8O2S2	p-dithiane-2,5-diol	40018-26-6	25.00	1.2236	2
3275	C4H7NO2S	4-thiazolidinecarboxylic acid	444-27-9	25.00	1.2263	2	3549	C4H8O3	2-hydroxybutanoic acid, (±)	600-15-7	20.00	1.1250	1
3276	C4H7NO2S	ethyl thiooxamate	16982-21-1	25.00	1.2263	2	3550	C4H8O3	3-hydroxybutanoic acid, (±)	625-71-8	21.93	1.0985	2
3277	C4H7NO2S	L(-)-thiazolidine-4-carboxylic acid	34592-47-7	25.00	1.2263	2	3551	C4H8O3	4-hydroxybutanoic acid	591-81-1	21.93	1.0985	2
3278	C4H7NO2S	thiazolidine-2-carboxylic acid	65126-70-7	25.00	1.2263	2	3552	C4H8O3	2-hydroxy-2-methylpropanoic acid	594-61-6	25.00	1.2300	1
3279	C4H7NO2S2	1,1-bis(methylthio)-2-nitroethylene	13623-94-4	25.00	1.3308	2	3557	C4H8O3	(±)-3-hydroxybutyric acid	300-85-6	25.00	1.1260	1
3280	C4H7NO3	N-acetylglycine	543-24-8	25.00	1.1871	2	3564	C4H8O3	methyl lactate	547-64-8	-66.00	1.3742	2
3281	C4H7NO3	ethyl oxamate	617-36-7	25.00	1.1871	2	3570	C4H8O3S	1,4-thioxane-1,1-dioxide	107-61-9	22.50	1.2831	2
3282	C4H7NO3	succinamic acid	638-32-4	25.00	1.1871	2	3575	C4H8O4	D-threose	95-43-2	25.00	1.1491	2
3283	C4H7NO4	4-amino-2-hydroxy-4-oxobutanoic acid	66398-52-5	18.00	1.5770	1	3576	C4H8O4	L(+)-erythrose	533-49-3	25.00	1.1491	2
3284	C4H7NO4	DL-aspartic acid	617-45-8	13.00	1.6622	1	3581	C4H8S	tetrahydrothiophene	110-01-0	-96.16	1.2785	2
3285	C4H7NO4	L-aspartic acid	56-84-8	13.00	1.6603	1	3589	C4H8S2	1,2-dithiane	505-20-4	25.00	1.0623	2
3287	C4H7NO4	iminodiacetic acid	142-73-4	14.67	1.6332	2	3590	C4H8S2	1,3-dithiane	505-23-7	25.00	1.0623	2
3288	C4H7NO4	D(-)-aspartic acid	1783-96-6	14.67	1.6332	2	3591	C4H8S2	1,4-dithiane	505-29-3	25.00	1.0623	2
3296	C4H7N3	3-amino-5-methylpyrazole	31230-17-8	25.00	1.0755	2	3598	C4H9Br	1-bromobutane	109-65-9	-112.40	1.6990	2
3298	C4H7N3O	creatinine	60-27-5	25.00	1.1794	2	3599	C4H9Br	2-bromobutane	78-76-2	-111.90	1.6442	2
3309	C4H7N3S	2-amino-5-ethyl-1,3,4-thiadiazole	14068-53-2	25.00	1.2203	2	3610	C4H9Cl	1-chlorobutane	109-69-3	-123.10	1.2034	2
3310	C4H7N3S	2-(ethylamino)-1,3,4-thiadiazole	13275-68-8	25.00	1.2203	2	3611	C4H9Cl	1-chloro-2-methylpropane	513-36-0	-130.30	1.1849	2
3311	C4H7N3S2	2-amino-5-ethylthio-1,3,4-thiadiazole	25660-70-2	25.00	1.3280	2	3612	C4H9Cl	2-chlorobutane	78-86-4	-131.30	1.1941	2
3312	C4H7N5	2,4,6-triaminopyrimidine	1004-38-2	25.00	1.2666	2	3613	C4H9Cl	2-chloro-2-methylpropane	507-20-0	-25.40	0.8950	1
3319	C4H8	cyclobutane	287-23-0	-100.15	0.8400	1	3625	C4H9ClO	2-chloro-2-methyl-1-propanol	558-38-3	20.00	1.0472	1
3320	C4H8	1-butene	106-98-9	-185.35	0.9370	2	3653	C4H9Cl3Si	tert-butyltrichlorosilane	18171-74-9	21.67	1.1805	2
3322	C4H8	cis-2-butene	590-18-1	-138.89	0.9140	2	3666	C4H9I	1-iodobutane	542-69-8	-103.00	2.0978	2
3323	C4H8	trans-2-butene	624-64-6	-105.53	0.8584	2	3675	C4H9N	pyrrolidine	123-75-1	-57.84	1.0882	2
3324	C4H8	isobutene	115-11-7	-140.34	0.8921	2	3681	C4H9NO	N,N-dimethylacetamide	127-19-5	-20.00	1.1413	2
3327	C4H8BaO5	barium acetate monohydrate	5908-64-5	25.00	2.1900	1	3682	C4H9NO	morpholine	110-91-8	-4.60	1.1936	2
3332	C4H8BrNO	2-bromo-2-methylpropanamide	7462-74-0	25.00	1.4853	2	3685	C4H9NO	butanamide	541-35-5	120.00	0.8850	1
3346	C4H8Br2O	2,3-dibromo-1-butanol	4021-75-4	20.00	1.9475	1	3689	C4H9NO	2-methylpropanamide	563-83-7	20.00	1.0130	1
3351	C4H8Br2O2	2,3-dibromo-1,4-butanediol	20163-90-0	25.00	1.8642	2	3697	C4H9NO2	1-nitrobutane	627-05-4	-81.33	1.2478	2
3352	C4H8Br2O2	DL-1,4-dibromo-2,3-butanediol	299-70-7	25.00	1.8642	2	3700	C4H9NO2	2-nitro-2-methylpropane	594-70-7	28.00	0.9501	1
3361	C4H8Cl2	1,2-dichlorobutane	616-21-7	-63.15	1.3971	2	3701	C4H9NO2	N-acetylethanolamine	142-26-7	25.00	1.1079	1
3363	C4H8Cl2	1,4-dichlorobutane	110-56-5	-37.30	1.3971	2	3702	C4H9NO2	DL-2-aminobutanoic acid	2835-81-6	20.00	1.2300	1
3370	C4H8Cl2	2,3-dichlorobutane, dl and meso	7581-97-7	-80.00	1.4352	2	3703	C4H9NO2	DL-3-aminobutanoic acid	2835-82-7	24.86	0.9809	2
3375	C4H8Cl2O	bis(2-chloroethyl) ether	111-44-4	-47.00	1.5159	2	3704	C4H9NO2	4-aminobutanoic acid	56-12-2	24.86	0.9809	2
3380	C4H8Cl2O2	1,4-dichloro-2,3-butanediol	2419-73-0	25.00	1.2454	2	3709	C4H9NO2	N,N-dimethylglycine	1118-68-9	24.86	0.9809	2
3381	C4H8Cl2O2	2,2-dichloro-1,4-butanediol	---	25.00	1.2454	2	3713	C4H9NO2	isopropyl carbamate	1746-77-6	66.00	0.9951	1
3383	C4H8Cl2O2S	bis(2-chloroethyl)sulfone	471-03-4	25.00	1.3340	2	3714	C4H9NO2	2-methylalanine	62-57-7	24.86	0.9809	2
3411	C4H8N2	2-butyne-1,4-diamine	53878-96-9	21.67	0.9294	2	3716	C4H9NO2	propyl carbamate	627-12-3	24.86	0.9809	2
3412	C4H8N2	4,5-dihydro-2-methyl-1H-imidazole	534-26-9	21.67	0.9294	2	3717	C4H9NO2	L(+)-2-aminobutyric acid	1492-24-6	24.86	0.9809	2
3419	C4H8N2O	allylurea	557-11-9	25.00	1.0410	2	3718	C4H9NO2	D(-)-2-aminobutyric acid	2623-91-8	24.86	0.9809	2
3429	C4H8N2O2	dimethylglyoxime	95-45-4	25.00	1.1408	2	3719	C4H9NO2	ethyl acetohydroxamate	10576-12-2	24.86	0.9809	2
3430	C4H8N2O2	N-[(methylamino)carbonyl]acetamide	623-59-6	25.00	1.1408	2	3722	C4H9NO2	DL-beta-aminoisobutyric acid	10569-72-9	24.86	0.9809	2
3431	C4H8N2O2	4-nitrosomorpholine	59-89-2	25.00	1.1408	2	3723	C4H9NO2S	DL-homocysteine	454-29-5	25.00	1.1494	2
3432	C4H8N2O2	succinamide	110-14-5	25.00	1.1408	2	3724	C4H9NO2S	L-homocysteine	6027-13-0	25.00	1.1494	2
3433	C4H8N2O2	1,2-diacetylhydrazine	3148-73-0	25.00	1.1408	2	3727	C4H9NO3	3-amino-4-hydroxybutanoic acid	589-44-6	22.50	1.0765	2
3444	C4H8N2O3	L-asparagine	70-47-3	15.00	1.5430	1	3730	C4H9NO3	L-homoserine	672-15-1	22.50	1.0765	2
3445	C4H8N2O3	ethyl (aminocarbonyl)carbamate	626-36-8	25.00	1.2301	2	3732	C4H9NO3	2-methyl-2-nitro-1-propanol	76-39-1	22.50	1.0765	2
3446	C4H8N2O3	N-glycylglycine	556-50-3	25.00	1.2301	2	3736	C4H9NO3	DL-threonine	80-68-2	22.50	1.0765	2
3447	C4H8N2O3	1-methoxy-1-methylamino-2-nitroethylene	110763-36-5	25.00	1.2301	2	3737	C4H9NO3	L-threonine	72-19-5	22.50	1.0765	2
3453	C4H8N2O4	1,4-dinitrobutane	4286-49-1	25.00	1.3106	2	3738	C4H9NO3	DL-allo-threonine	144-98-9	22.50	1.0765	2
3455	C4H8N2O4	methyl hydrazodicarboxylate	17643-54-8	25.00	1.3106	2	3739	C4H9NO3	D(-)-allo-threonine	24830-94-2	22.50	1.0765	2
3459	C4H8N2S	allylthiourea	109-57-9	20.00	1.2170	1	3740	C4H9NO3	L(+)-allo-threonine	28954-12-3	22.50	1.0765	2
3462	C4H8N2S	N,N'-trimethylenethiourea	2055-46-1	25.00	1.0949	2	3741	C4H9NO3	(S)-(-)-4-amino-2-hydroxybutyric acid	40371-51-5	22.50	1.0765	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
3742	C4H9NO3	DL-4-amino-3-hydroxybutyric acid	924-49-2	22.50	1.0765	2	3996	C4H11NO	N-ethyl-N-hydroxyethanamine	3710-84-7	-25.50	1.0697	2
3743	C4H9NO3	(S)-2-amino-3-methoxypropanoic acid	32620-11-4	22.50	1.0765	2	4001	C4H11NO	(S)-(+)-2-amino-1-butanol	5856-62-2	25.00	0.9420	1
3744	C4H9NO3	(S)-(+)-2-amino-2-methyl-3-hydroxypropanoic *	16820-18-1	22.50	1.0765	2	4004	C4H11NO	2-amino-1-methoxypropane	37143-54-7	8.00	1.0073	2
3745	C4H9NO3	(R)-(-)-2-amino-2-methyl-3-hydroxypropanoic *	81132-44-7	22.50	1.0765	2	4006	C4H11NO2	diethanolamine	111-42-2	28.00	1.2827	2
3746	C4H9NO3	DL-homoserine	1927-25-9	22.50	1.0765	2	4007	C4H11NO2	2-aminoethoxyethanol	929-06-6	20.00	1.2301	2
3747	C4H9NO3	D-threonine	632-20-2	22.50	1.0765	2	4008	C4H11NO2	2-amino-2-methyl-1,3-propanediol	115-69-5	23.75	1.0509	2
3749	C4H9NO4	2-methyl-2-nitro-1,3-propanediol	77-49-6	25.00	1.1928	2	4010	C4H11NO2	3-methylamino-1,2-propanediol	40137-22-2	25.00	1.0900	1
3750	C4H9NO5	ammonium hydrogen malate	5972-71-4	25.00	1.1500	1	4011	C4H11NO2	D-threoninol	44520-55-0	23.75	1.0509	2
3751	C4H9NO5	2-(hydroxymethyl)-2-nitro-1,3-propanediol	126-11-4	25.00	1.2710	2	4012	C4H11NO2	L(+)-threoninol	515-93-5	23.75	1.0509	2
3752	C4H9NO5S	DL-homocysteic acid	504-33-6	25.00	1.3624	2	4013	C4H11NO3	tris(hydroxymethyl)methylamine	77-86-1	25.00	1.0382	2
3755	C4H9NS	N,N-dimethylthioacetamide	631-67-4	25.00	0.9700	2	4021	C4H11O3P	tert-butylphosphonic acid	4923-84-6	25.00	1.0826	2
3760	C4H9NS2	dihydro-5-methyl-4H-1,3,5-dithiazine	6302-94-9	25.00	1.1092	2	4024	C4H11O3P	isobutylphosphonic acid	4721-34-0	25.00	1.0826	2
3762	C4H9N3O	acetone semicarbazone	110-20-3	25.00	1.0973	2	4041	C4H12BrN	tetramethylammonium bromide	64-20-0	25.00	1.5600	1
3764	C4H9N3O2	creatine	57-00-1	25.00	1.3300	1	4043	C4H12ClN	diethylamine hydrochloride	660-68-4	22.00	1.0477	1
3771	C4H9N3O3	albizziin	1483-07-4	25.00	1.2667	2	4044	C4H12ClN	tetramethylammonium chloride	75-57-0	20.00	1.1690	1
3776	C4H9N3S	4-allylthiosemicarbazide	3766-55-0	25.00	1.1421	2	4045	C4H12ClNO4	tetramethylammonium perchlorate	2537-36-2	25.00	1.2056	2
3783	C4H10	butane	106-97-8	-138.29	0.8295	1	4050	C4H12Cl2N2	3-aminopyrrolidine dihydrochloride	103831-11-4	25.00	1.1126	2
3784	C4H10	isobutane	75-28-5	-159.61	0.8544	2	4061	C4H12IN	tetramethylammonium iodide	75-58-1	25.00	1.8290	1
3794	C4H10CdO6	cadmium acetate dihydrate	5743-04-4	25.00	2.0100	1	4070	C4H12N2	1,4-butanediamine	110-60-1	25.00	0.8770	1
3797	C4H10ClNO2S	methyl L-cysteine hydrochloride	18598-63-5	25.00	1.2321	2	4080	C4H12N2O	N-aminoethyl ethanolamine	111-41-1	0.00	1.2186	2
3815	C4H10Cl4Si2	1,2-bis(dichloromethylsilyl)ethane	3353-69-3	25.00	1.2630	1	4082	C4H12N2OS	tetramethylsulfurous diamide	3768-60-3	25.00	1.0498	2
3826	C4H10NO3PS	acephate	30560-19-1	20.00	1.3500	1	4085	C4H12N2O2S	tetramethylsulfamide	3768-63-6	25.00	1.1244	2
3830	C4H10N2	piperazine	110-85-0	20.00	1.1000	1	4096	C4H12O2Si	dimethoxydimethylsilane	1112-39-6	-80.15	1.1253	2
3832	C4H10N2O	N-(2-aminoethyl)acetamide	1001-53-2	21.67	1.0637	2	4100	C4H12O4	acetaldehyde, tetramer	66056-06-2	25.00	1.0129	2
3833	C4H10N2O	butanohydrazide	3538-65-6	21.67	1.0637	2	4104	C4H12O10Pb	lead(ii) acetate trihydrate	6080-56-4	25.00	2.5500	1
3836	C4H10N2O	trimethylurea	632-14-4	20.00	1.1900	1	4110	C4H12Si	tetramethylsilane	75-76-3	-99.08	0.8911	2
3838	C4H10N2O	isopropylurea(mono)	691-60-1	21.67	1.0637	2	4117	C4H13NO	tetramethylammonium hydroxide	75-59-2	25.00	1.0020	1
3843	C4H10N2O	1-propylurea	627-06-5	21.67	1.0637	2	4118	C4H13N3	diethylene triamine	111-40-0	-39.00	1.1761	2
3855	C4H10N2O4	L-asparagine, monohydrate	5794-13-8	15.00	1.5430	1	4119	C4H13N5O2	deta nonoate	146724-94-9	25.00	1.1905	2
3859	C4H10N2S	1,1,3-trimethyl-2-thiourea	2489-77-2	25.00	1.0267	2	4124	C4H14Cl2N2	1,4-butanediamine dihydrochloride	333-93-7	25.00	1.0598	2
3865	C4H10O	butanol	71-36-3	-89.30	1.0451	2	4127	C4H14MgO8	magnesium acetate tetrahydrate	16674-78-5	25.00	1.4540	1
3866	C4H10O	isobutanol	78-83-1	-108.00	1.0451	2	4128	C4H14MnO8	manganese(ii) acetate tetrahydrate	6156-78-1	25.00	1.5900	1
3867	C4H10O	sec-butanol	78-92-2	-114.70	1.0896	2	4148	C4H22N2O6	piperazine hexahydrate	142-63-2	25.00	1.0368	2
3868	C4H10O	tert-butanol	75-65-0	25.82	0.9636	2	4150	C4I2	1,4-diiodo-1,3-butadiyne	53214-97-4	25.00	2.9276	2
3869	C4H10O	diethyl ether	60-29-7	-116.30	0.9932	2	4164	C5Cl2F3N	3,5-dichloro-2,4,6-trifluoropyridine	1737-93-5	25.00	1.6220	1
3870	C4H10O	methyl propyl ether	557-17-5	-139.18	1.0451	2	4168	C5Cl5N	pentachloropyridine	2176-62-7	25.00	1.7500	2
3871	C4H10O	methyl isopropyl ether	598-53-8	-145.22	1.0377	2	4169	C5Cl6	hexachlorocyclopentadiene	77-47-4	10.50	2.0130	2
3876	C4H10OS	2-(ethylthio)ethanol	110-77-0	-100.00	1.3167	2	4170	C5Cl8	octachlorocyclopentene	706-78-5	50.00	1.8200	1
3880	C4H10OS2	2,2'-oxydiethanethiol	2150-02-9	-80.00	1.4655	2	4178	C5F10	decafluorocyclopentane	376-77-2	25.00	1.6423	2
3881	C4H10O2	t-butyl hydroperoxide	75-91-2	4.30	1.0634	2	4187	C5HCl4N	2,3,5,6-tetrachloropyridine	2402-79-1	25.00	1.6564	2
3882	C4H10O2	1,2-dimethoxyethane	110-71-4	-58.00	1.1085	2	4193	C5H2ClN3O4	2-chloro-3,5-dinitropyridine	2578-45-2	25.00	1.7727	2
3883	C4H10O2	2-ethoxyethanol	110-80-5	-59.00	1.1626	2	4194	C5H2Cl2N2O2	2,6-dichloro-3-nitropyridine	16013-85-7	25.00	1.6561	2
3884	C4H10O2	1,2-butanediol	584-03-2	-53.15	1.2347	2	4195	C5H2Cl2N4	2,6-dichloropurine	5451-40-1	25.00	1.6609	2
3885	C4H10O2	1,3-butanediol	107-88-0	-77.00	1.2527	2	4198	C5H2Cl6O3	2,5-bis(trichloromethyl)-1,3-dioxolan-4-one	554-21-2	25.00	1.7694	2
3886	C4H10O2	1,4-butanediol	110-63-4	19.90	1.1896	2	4199	C5H2F6N2	3,5-bis(trifluoromethyl)pyrazole	14704-41-7	25.00	1.5672	2
3887	C4H10O2	DL-2,3-butanediol	6982-25-8	7.60	1.1806	2	4201	C5H2F6O4	hexafluoroglutaric acid	376-73-8	25.00	1.6649	2
3893.1	C4H10O2	n-butylhydroperoxide	4813-50-7	-60.15	1.1536	2	4203	C5H2O5	4,5-dihydroxy-4-cyclopentene-1,2,3-trione	488-86-8	25.00	1.5698	2
3894	C4H10O2	2-methoxy-1-propanol	1589-47-5	-96.80	1.1806	2	4208	C5H3BrN2O2	2-bromo-3-nitropyridine	19755-53-4	25.00	1.9060	2
3895	C4H10O2	propylene glycol monomethyl ether	107-98-2	-96.67	1.2347	2	4209	C5H3BrN2O2	2-bromo-5-nitropyridine	4487-59-6	25.00	1.9060	2
3897	C4H10O2	(2R,3R)-(-)-2,3-butanediol	24347-58-8	25.00	0.9870	1	4210	C5H3BrOS	5-bromo-2-thiophenecarboxaldehyde	4701-17-1	25.00	1.6090	1
3905	C4H10O2	2-methyl-1,3-propanediol	2163-42-0	-91.00	1.2978	2	4211	C5H3BrOS	4-bromo-2-thiophenecarboxaldehyde	18791-75-8	25.00	1.7697	2
3907	C4H10O2S	bis(2-hydroxyethyl) sulfide	111-48-8	-10.20	1.4174	2	4212	C5H3BrO2	5-bromo-2-furancarboxaldehyde	1899-24-7	25.00	1.7854	2
3908	C4H10O2S	diethyl sulfone	597-35-3	20.00	1.3570	1	4213	C5H3BrO3	5-bromofuroic acid	585-70-6	25.00	1.8430	2
3912	C4H10O2S2	1,4-dithio-L-threitol	16096-97-2	25.00	1.1560	2	4215	C5H3Br2N	3,5-dibromopyridine	625-92-3	25.00	2.1366	2
3913	C4H10O2S2	dithiothreitol	27565-41-9	25.00	1.1560	2	4217	C5H3Br2N	2,5-dibromopyridine	624-28-2	25.00	2.1366	2
3914	C4H10O2S2	2,3-butanediol, 1,4-dimercapto-, (R*,R*)-	3483-12-3	25.00	1.1560	2	4218	C5H3Br2N	2,6-dibromopyridine	626-05-1	25.00	2.1366	2
3918	C4H10O3	diethylene glycol	111-46-6	-10.45	1.3371	2	4220	C5H3ClN2O2	2-chloro-5-nitropyridine	4548-45-2	25.00	1.5267	2
3919	C4H10O3	1,2,3-butanetriol	4435-50-1	-0.15	1.1724	2	4221	C5H3ClN2O2	2-chloro-3-nitropyridine	5470-18-8	25.00	1.5267	2
3920	C4H10O3	1,2,4-butanetriol	3068-00-6	0.85	1.4147	2	4222	C5H3ClN4	6-chloro-1H-purine	87-42-3	25.00	1.5286	2
3928	C4H10O3S	diethyl sulfite	623-81-4	-53.15	1.3542	2	4226	C5H3ClO2S	5-chlorothiophene-2-carboxylic acid	24065-33-6	25.00	1.4659	2
3934	C4H10O4	1,2,3,4-butanetetrol	149-32-6	25.00	1.4510	1	4227	C5H3ClO2S	3-chlorothiophene-2-carboxylic acid	59337-89-2	25.00	1.4659	2
3935	C4H10O4	L(-)-threitol	2319-57-5	25.00	1.0756	2	4228	C5H3Cl2N	2,5-dichloropyridine	16110-09-1	25.00	1.4019	2
3937	C4H10O4S	diethyl sulfate	64-67-5	-25.00	1.4339	2	4229	C5H3Cl2N	2,3-dichloropyridine	2402-77-9	25.00	1.4019	2
3940	C4H10O6Zn	zinc acetate dihydrate	5970-45-6	25.00	1.7350	1	4230	C5H3Cl2N	2,6-dichloropyridine	2402-78-0	25.00	1.4019	2
3942	C4H10S	butyl mercaptan	109-79-5	-115.69	1.1183	2	4238	C5H3F3N2O2	5-(trifluoromethyl)uracil	54-20-6	25.00	1.5484	2
3943	C4H10S	isobutyl mercaptan	513-44-0	-144.84	1.1454	2	4239	C5H3F3N2S	4-(trifluoromethyl)-2-pyrimidinethiol	136547-17-6	25.00	1.4933	2
3944	C4H10S	sec-butyl mercaptan	513-53-1	-140.13	1.1364	2	4247	C5H3NO	3-furonitrile	30078-65-0	25.00	1.2122	2
3945	C4H10S	tert-butyl mercaptan	75-66-1	1.11	0.9560	2	4248	C5H3NO4	5-nitro-2-furancarboxaldehyde	698-63-5	25.00	1.5067	2
3947	C4H10S	diethyl sulfide	352-93-2	-190.00	0.9750	1	4249	C5H3NO5	5-nitro-2-furancarboxylic acid	645-12-5	25.00	1.5826	2
3948	C4H10S	methyl propyl sulfide	3877-15-4	-112.98	1.1274	2	4261	C5H4BrNO	2-bromo-3-pyridinol	6602-32-0	25.00	1.7203	2
3950	C4H10S2	diethyl disulfide	110-81-6	-101.52	1.2837	2	4263	C5H4BrN3O2	2-amino-5-bromo-3-nitropyridine	6945-68-2	25.00	1.8915	2
3958	C4H10Se	diethyl selenide	627-53-2	20.00	1.2300	1	4268	C5H4ClN5	2-amino-6-chloropurine	10310-21-1	25.00	1.5435	2
3969	C4H11ClN2O6	carboxymethoxylamine hemihydrochloride	2921-14-4	25.00	1.4106	2	4269	C5H4ClNO	5-chloro-2-pyridinol	4214-79-3	25.00	1.3153	2
3977	C4H11N	butylamine	109-73-9	-49.10	0.9362	2	4270	C5H4ClNO	2-chloro-3-pyridinol	6636-78-8	25.00	1.3153	2
3978	C4H11N	isobutylamine	78-81-9	-84.60	0.9581	2	4271	C5H4ClNO	5-chloro-3-pyridinol	74115-12-1	25.00	1.3153	2
3979	C4H11N	sec-butylamine	13952-84-6	-104.50	0.9727	2	4274	C5H4Cl2N2	2,4-dichloro-5-methylpyrimidine	1780-31-0	25.00	1.4259	2
3980	C4H11N	tert-butylamine	75-64-9	-66.96	0.8996	2	4275	C5H4Cl2N2	2,4-dichloro-6-methylpyrimidine	5424-21-5	25.00	1.4259	2
3984	C4H11N	diethylamine	109-89-7	-49.80	0.9069	2	4276	C5H4Cl2N2	2,6-dichloro-3-pyridinamine	62476-56-6	25.00	1.4259	2
3988	C4H11NO	dimethylethanolamine	108-01-0	-59.00	1.1231	2	4277	C5H4Cl2N2	2-amino-3,5-dichloropyridine	4214-74-8	25.00	1.4259	2
3993	C4H11NO	2-amino-2-methyl-1-propanol	124-68-5	20.00	0.9340	1	4278	C5H4Cl2N2	3,6-dichloro-4-methylpyridazine	19064-64-3	25.00	1.4259	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
4279	C5H4Cl2N2S	4,6-dichloro-2-(methylthio)pyrimidine	6299-25-8	25.00	1.5020	2	4447	C5H6	cyclopentadiene	542-92-7	-85.00	1.0000	2
4290	C5H4IN	3-iodopyridine	1120-90-7	25.00	1.9668	2	4448	C5H6	2-methyl-1-butene-3-yne	78-80-8	-113.00	0.9717	2
4294	C5H4N2O2	pyrazinecarboxylic acid	98-97-5	25.00	1.3613	2	4449	C5H6	1-pentene-3-yne	646-05-9	-123.15	1.0841	2
4295	C5H4N2O2	3-nitropyridine	2530-26-9	25.00	1.3613	2	4450	C5H6	1-pentene-4-yne	871-28-3	-123.15	1.0048	2
4297	C5H4N2O3	4-nitropyridine 1-oxide	1124-33-0	25.00	1.4476	2	4461	C5H6BrN3	2,3-diamino-5-bromopyridine	38875-53-5	25.00	1.6634	2
4298	C5H4N2O3	3-hydroxy-2-nitropyridine	15128-82-2	25.00	1.4476	2	4462	C5H6BrN3O	2-amino-5-bromo-6-methyl-4-pyrimidinol	6307-35-3	25.00	1.7195	2
4299	C5H4N2O3	2-hydroxy-5-nitropyridine	5418-51-9	25.00	1.4476	2	4464	C5H6Br2N2O2	1,3-dibromo-5,5-dimethyl-2,4-imidazolidinedi*	77-48-5	25.00	2.0442	2
4300	C5H4N2O3	2-hydroxy-3-nitropyridine	6332-56-5	25.00	1.4476	2	4466	C5H6Br3N	pyridinium bromide perbromide	39416-48-3	25.00	2.2173	2
4301	C5H4N2O4	1H-imidazole-4,5-dicarboxylic acid	570-22-9	25.00	1.7490	1	4468	C5H6ClN	pyridine hydrochloride	628-13-7	25.00	1.1342	2
4302	C5H4N2O4	orotic acid	65-86-1	25.00	1.5245	2	4469	C5H6ClN3	2-amino-4-chloro-6-methylpyrimidine	5600-21-5	25.00	1.3007	2
4303	C5H4N2O4	nifuroxime	555-15-7	25.00	1.5245	2	4470	C5H6ClN3	2,3-diamino-5-chloropyridine	25710-20-7	25.00	1.3007	2
4305	C5H4N4	1H-purine	120-73-0	25.00	1.3584	2	4471	C5H6ClN3O	2-amino-4-chloro-6-methoxypyrimidine	5734-64-5	25.00	1.3757	2
4307	C5H4N4O	1,5-dihydro-4H-pyrazolo[3,4-d]pyrimidin-4-one	315-30-0	25.00	1.4474	2	4472	C5H6ClN3O2	2-chloro-4,6-dimethoxy-1,3,5-triazine	3140-73-6	25.00	1.4437	2
4308	C5H4N4O	hypoxanthine	68-94-0	25.00	1.4474	2	4473	C5H6ClN3S	4-amino-6-chloro-2-methylmercaptopyrimidine	1005-38-5	25.00	1.3946	2
4309	C5H4N4O	1-hydroxy-7-azabenzotriazole	39968-33-7	25.00	1.4474	2	4474	C5H6ClNO2	1-(chloromethyl)-2,5-pyrrolidinedione	54553-14-9	25.00	1.3045	2
4311	C5H4N4OS	6-thio-2-hydroxypurine	2002-59-7	25.00	1.5344	2	4475	C5H6ClNO4	pyridinium perchlorate	15598-34-2	25.00	1.4440	2
4316	C5H4N4O2	4,6-dihydroxypyrazolo[3,4-d]pyrimidine	2465-59-0	25.00	1.5264	2	4476	C5H6Cl2N2O2	1,3-dichloro-5,5-dimethyl hydantoin	118-52-5	20.00	1.5000	1
4321	C5H4N4S	1,7-dihydro-6H-purine-6-thione	50-44-2	25.00	1.4634	2	4478	C5H6Cl2O2	2,2-dichloro-1-methyl-cyclopropanecarboxylic*	1447-14-9	22.50	1.3010	2
4322	C5H4N4S	4-mercapto-1H-pyrazolo[3,4-d]pyrimidine hemi*	5334-23-6	25.00	1.4634	2	4482	C5H6Cl4O2	b,b,b-trichloro-tert-butyl chloroformate	66270-36-8	25.00	1.4953	2
4327	C5H4O2	furfural	98-01-1	-36.50	1.4221	2	4488	C5H6F6O2	2,2,3,3,4,4-hexafluoro-1,5-pentanediol	376-90-9	25.00	1.4048	2
4331	C5H4O2	4H-pyran-4-one	108-97-4	25.00	1.1900	1	4490	C5H6N2	glutaronitrile	544-13-8	-28.94	1.1953	2
4332	C5H4O2	4-cyclopentene-1,3-dione	930-60-9	22.50	1.1638	2	4491	C5H6N2	dimethylpropanedinitrile	7321-55-3	22.83	1.0308	2
4334	C5H4O2S	2-thiophenecarboxylic acid	527-72-0	25.00	1.3046	2	4493	C5H6N2	3-methylpyridazine	1632-76-4	26.00	1.0450	1
4335	C5H4O2S	3-thiophenecarboxylic acid	88-13-1	25.00	1.3046	2	4495	C5H6N2	4-methylpyrimidine	3438-46-8	16.00	1.0300	1
4336	C5H4O3	dihydro-3-methylene-2,5-furandione	2170-03-8	25.00	1.2696	2	4496	C5H6N2	5-methylpyrimidine	2036-41-1	22.83	1.0308	2
4337	C5H4O3	2-furancarboxylic acid	88-14-2	25.00	1.2696	2	4497	C5H6N2	2-pyridinamine	504-29-0	22.83	1.0308	2
4338	C5H4O3	3-furancarboxylic acid	488-93-7	25.00	1.2696	2	4498	C5H6N2	3-pyridinamine	462-08-8	22.83	1.0308	2
4339	C5H4O3	3-hydroxy-2H-pyran-2-one	496-64-0	25.00	1.2696	2	4499	C5H6N2	4-pyridinamine	504-24-5	22.83	1.0308	2
4340	C5H4O3	3-methyl-2,5-furandione	616-02-4	8.00	1.4795	2	4503	C5H6N2O	1-acetylimidazole	2466-76-4	25.00	1.1645	2
4341	C5H4O3	furoic acid	26447-28-9	25.00	1.2696	2	4504	C5H6N2O	2-amino-3-hydroxypyridine	16867-03-1	25.00	1.1645	2
4342	C5H4O3	3-oxabicyclo[3.1.0]hexane-2,4-dione	5617-74-3	25.00	1.2696	2	4508	C5H6N2O	1-methyl-2-imidazolecarboxaldehyde	13750-81-7	25.00	1.1645	2
4343	C5H4O4	4,5-dihydro-5-oxo-3-furancarboxylic acid	585-68-2	25.00	1.3641	2	4510	C5H6N2OS	methylthiouracil	56-04-2	25.00	1.2911	2
4349	C5H5BrN2	2-amino-5-bromopyridine	1072-97-5	25.00	1.6590	2	4511	C5H6N2OS	2-acetylaminothiazole	2719-23-5	25.00	1.2911	2
4357	C5H5ClN2	5-chloro-2-pyridinamine	1072-98-6	25.00	1.2650	2	4512	C5H6N2OS	2-thiophenecarboxylic acid hydrazide	2361-27-5	25.00	1.2911	2
4358	C5H5ClN2	3-amino-6-chloropyridine	5350-93-6	25.00	1.2650	2	4514	C5H6N2O2	6-methyl-2,4(1H,3H)-pyrimidinedione	626-48-2	25.00	1.2590	2
4359	C5H5ClN2	3-amino-2-chloropyridine	6298-19-7	25.00	1.2650	2	4515	C5H6N2O2	thymine	65-71-4	25.00	1.2590	2
4360	C5H5ClN2	2-chloro-4-aminopyridine	14432-12-3	25.00	1.2650	2	4516	C5H6N2O2	4,6-dihydroxy-2-methylpyrimidine	40497-30-1	25.00	1.2590	2
4371	C5H5Cl3O2	(S)-(-)-4-methyl-4-(trichloromethyl)-2-oxeta*	93206-60-1	25.00	1.4663	2	4517	C5H6N2O2	2-furoic acid hydrazide	3326-71-4	25.00	1.2590	2
4372	C5H5Cl3O2	(R)-(+)-4-methyl-4-(trichloromethyl)-2-oxeta*	93239-42-0	25.00	1.4663	2	4518	C5H6N2O2	1-methyl-3,6-(1H,2H)-pyridazinedione	5436-01-1	25.00	1.2590	2
4376	C5H5F3N2O	5-hydroxy-2-methyl-3-trifluoromethyl-1H-pyra*	119022-51-4	25.00	1.3876	2	4521	C5H6N2O2S	(2-aminothiazole-4-yl)acetic acid	29676-71-9	25.00	1.3667	2
4380	C5H5F3O2	4,4,4-trifluoro-3-methyl-2-butenoic acid	93404-33-2	25.00	1.3180	1	4522	C5H6N2O2S	1-acetyl-2-thiohydantoin	584-26-9	25.00	1.3667	2
4384	C5H5F5O2	ethyl pentafluoropropionate	426-65-3	25.00	1.2990	1	4524	C5H6N2O3	ethyl cyanoglyoxylate-2-oxime	3849-21-6	25.00	1.3434	2
4391	C5H5N	pyridine	110-86-1	-41.62	1.2182	2	4527	C5H6N2O4	2,5-dioxo-1,3-diazolidin-4-ylacetic acid	5427-26-9	25.00	1.4193	2
4395	C5H5NO	pyridine-1-oxide	694-59-7	20.00	1.3910	2	4528	C5H6N4O	2,6-diamino-3-nitrosopyridine	89323-10-4	25.00	1.3404	2
4396	C5H5NO	2-pyridinol	72762-00-6	20.00	1.3910	1	4530	C5H6N6	1H-purine-2,6-diamine	1904-98-9	25.00	1.4173	2
4397	C5H5NO	4-pyridinol	626-64-2	20.00	1.3910	2	4548	C5H6O2	furfuryl alcohol	98-00-0	-14.63	1.3636	2
4398	C5H5NO	2(1H)-pyridinone	142-08-5	20.00	1.3910	1	4556	C5H6O2	2,4-pentadienoic acid	626-99-3	22.00	1.0561	2
4399	C5H5NO	1H-pyrrole-2-carboxaldehyde	1003-29-8	20.00	1.3910	2	4557	C5H6O2	2-pentynoic acid	5963-77-9	20.00	0.9780	1
4400	C5H5NO	3-hydroxypyridine	109-00-2	20.00	1.3910	2	4558	C5H6O2	4-pentynoic acid	6089-09-4	22.00	1.0561	2
4401	C5H5NO	4-(1H)-pyridone	108-96-3	20.00	1.3910	2	4564	C5H6O2	1,3-cyclopentanedione	3859-41-4	22.00	1.0561	2
4403	C5H5NOS	2-mercaptopyridine-N-oxide	1121-31-9	25.00	1.2545	2	4567	C5H6O3	glutaric anhydride	108-55-4	20.00	0.9890	1
4404	C5H5NOS	2-thiophenecarboxamide	5813-89-8	25.00	1.2545	2	4568	C5H6O3	dihydro-3-methyl-2,5-furandione	4100-80-5	25.00	1.2200	1
4405	C5H5NOS	1-hydroxy-2-pyridinethione	1121-30-8	25.00	1.2545	2	4569	C5H6O3	2,3-dihydroxy-2-cyclopenten-1-one	80-72-8	23.33	1.2730	2
4406	C5H5NO2	cis-2-furancarboxaldehyde oxime	1450-58-4	20.00	1.3800	1	4571	C5H6O3	(S)-(-)-5-(hydroxymethyl)-2(5H)-furanone	78508-96-0	23.33	1.2730	2
4409	C5H5NO2	1-cyano-1-cyclopropanecarboxylic acid	6914-79-0	36.25	1.1691	2	4572	C5H6O3	4-methoxy-2(5H)-furanone	69556-70-3	23.33	1.2730	2
4411	C5H5NO2	2,3-dihydroxypyridine	16867-04-2	36.25	1.1691	2	4575	C5H6O3	a-methyl tetronic acid	22885-98-9	23.33	1.2730	2
4412	C5H5NO2	2,4-dihydroxypyridine	626-03-9	36.25	1.1691	2	4576	C5H6O4	citraconic acid	498-23-7	20.00	1.6170	1
4413	C5H5NO2	3-hydroxypyridine-N-oxide	6602-28-4	36.25	1.1691	2	4577	C5H6O4	itaconic acid	97-65-4	20.00	1.4900	1
4414	C5H5NO2	N-methylmaleimide	930-88-1	36.25	1.1691	2	4578	C5H6O4	1,1-cyclopropanedicarboxylic acid	598-10-7	22.50	1.5290	2
4416	C5H5NO2S	4-methyl-5-thiazolecarboxylic acid	20485-41-0	25.00	1.3382	2	4579	C5H6O4	trans-1,2-cyclopropanedicarboxylic acid, (±)-	58616-95-8	20.00	1.4600	1
4417	C5H5NO3S	3-pyridinesulfonic acid	636-73-7	25.00	1.7130	1	4580	C5H6O4	2,4-dioxopentanoic acid	5699-58-1	22.50	1.5290	2
4418	C5H5NO3S2	rhodanine-N-acetic acid	5718-83-2	25.00	1.4921	2	4581	C5H6O4	trans-1-propene-1,2-dicarboxylic acid	498-24-8	20.00	1.4660	1
4419	C5H5NO4	methyl 3-hydroxyisoxazole-5-carboxylate	10068-07-2	25.00	1.3940	2	4582	C5H6O4	(S)-(+)-5-oxo-2-tetrahydrofurancarboxylic ac*	21461-84-7	22.50	1.5290	2
4421	C5H5NS	2-mercaptopyridine	2637-34-5	25.00	1.1610	2	4583	C5H6O4	(R)-(-)-5-oxo-2-tetrahydrofurancarboxylic ac*	53558-93-3	22.50	1.5290	2
4424	C5H5N3O	pyrazinecarboxamide	98-96-4	25.00	1.3056	2	4584	C5H6O4S3	bis(carboxymethyl) trithiocarbonate	6326-83-6	25.00	1.5127	2
4426	C5H5N3O2	2-amino-3-nitropyridine	4214-75-9	25.00	1.3923	2	4585	C5H6O5	2-oxoglutaric acid	328-50-7	25.00	1.3462	2
4427	C5H5N3O2	2-amino-5-nitropyridine	4214-76-0	25.00	1.3923	2	4586	C5H6O5	3-oxopentanedioic acid	542-05-2	25.00	1.3462	2
4428	C5H5N3O2	3-aminopyrazine-2-carboxylic acid	5424-01-1	25.00	1.3923	2	4587	C5H6S	2-methylthiophene	554-14-3	-63.36	1.2958	2
4430	C5H5N3O3S	N-(5-nitro-2-thiazolyl)acetamide	140-40-9	25.00	1.5457	2	4588	C5H6S	3-methylthiophene	616-44-4	-68.96	1.2958	2
4431	C5H5N5	adenine	73-24-5	25.00	1.3905	2	4596	C5H7BrN2	4-bromo-3,5-dimethylpyrazole	3398-16-1	25.00	1.5449	2
4432	C5H5N5	2-aminopurine	452-06-2	25.00	1.3905	2	4612	C5H7ClN2	3-chloro-1,5-dimethyl-1H-pyrazole	51500-32-4	100.00	1.0823	1
4433	C5H5N5	4-aminopyrazolo[3,4-d]pyrimidine	2380-63-4	25.00	1.3905	2	4613	C5H7ClN2	4-chloro-3,5-dimethyl-1H-pyrazole	15953-73-8	59.00	1.1095	2
4434	C5H5N5O	6-amino-1,3-dihydro-2H-purin-2-one	3373-53-3	25.00	1.4702	2	4616	C5H7ClN2O2	1-chloroacetyl-3-pyrazolidinone	---	25.00	1.3340	2
4435	C5H5N5O	guanine	73-40-5	25.00	1.4702	2	4638	C5H7Cl2NO	2-chloro-N-3-chloroallylacetamide	100130-25-4	25.00	1.3005	2
4436	C5H5N5O	4-amino-6-hydroxypyrazolo[3,4-d]pyrimidine	5472-41-3	25.00	1.4702	2	4655	C5H7IN2	1-aminopyridinium iodide	6295-87-0	25.00	1.8200	2
4437	C5H5N5O	2-hydroxy-6-aminopurine	3373-53-3	25.00	1.4702	2	4658	C5H7N	N-methylpyrrole	96-54-8	-56.24	1.1600	2
4438	C5H5N5O	adenine-1-N-oxide	700-02-7	25.00	1.4702	2	4674	C5H7NOS	N-methylmonothiosuccinimide	2043-24-5	25.00	1.1703	2
4440	C5H5N5OS	2-amino-6-hydroxy-8-mercaptopurine	28128-40-7	25.00	1.5478	2	4675	C5H7NOS	R-5-vinyl-2-oxazolidinethione	1072-93-1	25.00	1.1703	2
4441	C5H5N5S	2-amino-1,7-dihydro-6H-purine-6-thione	154-42-7	25.00	1.4830	2	4676	C5H7NOS2	3-ethylrhodanine	7648-01-3	25.00	1.3030	1
4446	C5H5N5S	4-amino-6-mercaptopyrazolo[3,4-d]pyrimidine	23771-52-0	25.00	1.4830	2	4677	C5H7NO2	ethyl cyanoacetate	105-56-6	-22.50	1.2895	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
4681	C5H7NO2	1-methyl-2,5-pyrrolidinedione	1121-07-9	20.80	1.0719	2	4927	C5H8O3	2-hydroxyethyl acrylate	818-61-1	-60.15	1.2657	2
4683	C5H7NO2	glutarimide	1121-89-7	20.80	1.0719	2	4928	C5H8O3	levulinic acid	123-76-2	25.00	1.4470	1
4687	C5H7NO3	5,5-dimethyl-2,4-oxazolidinedione	695-53-4	25.00	1.2175	2	4929	C5H8O3	methyl acetoacetate	105-45-3	-80.00	1.3470	2
4688	C5H7NO3	L-pyroglutamic acid	98-79-3	25.00	1.2175	2	4932	C5H8O3	3-methyl-2-oxobutanoic acid	759-05-7	20.00	0.9968	1
4689	C5H7NO3	2-acetamidoacrylic acid	5429-56-1	25.00	1.2175	2	4945	C5H8O4	glutaric acid	110-94-1	15.00	1.4290	1
4690	C5H7NO3	4-acetoxy-2-azetidinone	28562-53-0	25.00	1.2175	2	4949	C5H8O4	ethylpropanedioic acid	601-75-2	22.86	1.2063	2
4691	C5H7NO3	3-acetyl-2-oxazolidinone	1432-43-5	25.00	1.2175	2	4951	C5H8O4	methyl hydrogen succinate	3878-55-5	22.86	1.2063	2
4692	C5H7NO3	1-(aminocarbonyl)-1-cyclopropanecarboxylic a*	6914-74-5	25.00	1.2175	2	4955	C5H8O4	methylsuccinic acid	498-21-5	22.86	1.2063	2
4694	C5H7NO3	N-methylmaleamic acid	6936-48-7	25.00	1.2175	2	4956	C5H8O4	a-acetoxypropionic acid	535-17-1	22.86	1.2063	2
4695	C5H7NO3	DL-2-pyrrolidone-5-carboxylic acid	149-87-1	25.00	1.2175	2	4958	C5H8O5	(S)-(+)-citramalic acid	6236-09-5	25.00	1.2601	2
4696	C5H7NO3	(R)-(+)-2-pyrrolidone-5-carboxylic acid	4042-36-8	25.00	1.2175	2	4959	C5H8O5	(R)-(-)-citramalic acid	6236-10-8	25.00	1.2601	2
4697	C5H7NO4	acrylamido glycolic acid, anhydrous	6737-24-2	25.00	1.2996	2	4960	C5H8O5	D(+)-ribonic acid g-lactone	5336-08-3	25.00	1.2601	2
4704	C5H7NS	4,5-dimethylthiazole	3581-91-7	20.00	1.0699	1	5003	C5H9BrO2	2-bromo-3-methylbutanoic acid, (±)	10323-40-7	20.00	1.4590	1
4709	C5H7N3	4-methyl-2-pyrimidinamine	108-52-1	25.00	1.1170	2	5004	C5H9BrO2	3-bromo-3-methylbutanoic acid	5798-88-9	22.54	1.4353	2
4710	C5H7N3	5-methyl-2-pyrimidinamine	50840-23-8	25.00	1.1170	2	5012	C5H9BrO2	a-bromoisovaleric acid	565-74-2	22.54	1.4353	2
4711	C5H7N3	6-methyl-4-pyrimidinamine	3435-28-7	25.00	1.1170	2	5013	C5H9BrO2	(S)-(-)-2-bromo-3-methylbutyric acid	26782-75-2	22.54	1.4353	2
4712	C5H7N3	2,3-pyridinediamine	452-58-4	25.00	1.1170	2	5014	C5H9BrO2	(R)-(+)-2-bromo-3-methylbutyric acid	76792-22-8	22.54	1.4353	2
4713	C5H7N3	2,5-pyridinediamine	4318-76-7	25.00	1.1170	2	5015	C5H9BrO2	5-bromovaleric acid	2067-33-6	22.54	1.4353	2
4714	C5H7N3	2,6-pyridinediamine	141-86-6	25.00	1.1170	2	5022	C5H9Br3	1,1,1-tribromopentane	16644-66-9	25.00	2.0118	2
4715	C5H7N3	2(1H)-pyridinone hydrazone	4930-98-7	25.00	1.1170	2	5077	C5H9ClO2	3-chloro-2,2-dimethylpropanoic acid	13511-38-1	19.28	1.1261	2
4716	C5H7N3	3,4-diaminopyridine	54-96-6	25.00	1.1170	2	5081	C5H9ClO2	3-chloropentanoic acid	51637-47-9	20.00	1.1484	1
4717	C5H7N3	imidazolepyrazole	6714-29-0	25.00	1.1170	2	5099	C5H9Cl2N3O2	N,N'-bis(2-chloroethyl)-N-nitrosourea	154-93-8	25.00	1.4052	2
4718	C5H7N3O	4-amino-5-methyl-2(1H)-pyrimidinone	554-01-8	25.00	1.2112	2	5182	C5H9I3	1,1,1-triiodopentane	---	25.00	2.5046	2
4719	C5H7N3O	2-amino-4-hydroxy-6-methylpyrimidine	3977-29-5	25.00	1.2112	2	5183	C5H9N	valeronitrile	110-59-8	-96.20	1.0392	2
4723	C5H7N3O2	4-amino-5-(hydroxymethyl)-2(1H)-pyrimidinone	1123-95-1	25.00	1.2956	2	5197	C5H9NO	butyl isocyanate	111-36-4	-93.15	1.1400	2
4724	C5H7N3O2	1,2-dimethyl-5-nitro-1H-imidazole	551-92-8	25.00	1.2956	2	5198	C5H9NO	N-methyl-2-pyrrolidone	872-50-4	-24.00	1.2491	2
4726	C5H7N3O2	1,2-dimethyl-4-nitro-1H-imidazole	13230-04-1	25.00	1.2956	2	5199	C5H9NO	cyclopentanone oxime	1192-28-5	22.29	0.9570	2
4732	C5H7N3O4	azaserine	115-02-6	25.00	1.4408	2	5202	C5H9NO	4-imino-2-pentanone	870-74-6	25.00	0.9427	1
4733	C5H7N3O5	L-quisqualic acid	52809-07-1	25.00	1.5037	2	5204	C5H9NO	2-isocyanato-2-methylpropane	1609-86-5	7.00	0.8670	1
4737	C5H8	cyclopentene	142-29-0	-135.02	1.0695	2	5206	C5H9NO	5-methyl-2-pyrrolidinone	108-27-0	20.00	1.0458	1
4738	C5H8	isoprene	78-79-5	-145.88	0.9741	2	5207	C5H9NO	2-piperidinone	675-20-7	22.29	0.9570	2
4739	C5H8	3-methyl-1,2-butadiene	598-25-4	-113.62	0.9537	2	5212	C5H9NO	fluoral-p	1118-66-7	22.29	0.9570	2
4740	C5H8	1,2-pentadiene	591-95-7	-137.26	0.9741	2	5219	C5H9NO2	4-morpholinecarboxaldehyde	4394-85-8	20.45	1.3462	2
4741	C5H8	cis-1,3-pentadiene	1574-41-0	-140.80	0.9809	2	5221	C5H9NO2	2,3-pentanedione 3-oxime	609-29-0	24.00	1.0643	2
4742	C5H8	trans-1,3-pentadiene	2004-70-8	-87.44	0.8992	2	5222	C5H9NO2	DL-proline	609-36-9	24.00	1.0643	2
4743	C5H8	1,4-pentadiene	591-93-5	-148.29	1.0013	2	5223	C5H9NO2	L-proline	147-85-3	24.00	1.0643	2
4744	C5H8	2,3-pentadiene	591-96-8	-125.65	0.9673	2	5224	C5H9NO2	(S)-(-)-2-amino-4-pentenoic acid	16338-48-0	24.00	1.0643	2
4745	C5H8	1-pentyne	627-19-0	-105.70	1.0013	2	5225	C5H9NO2	DL-2-amino-4-pentenoic acid	7685-44-1	24.00	1.0643	2
4746	C5H8	2-pentyne	627-21-4	-109.32	0.9741	2	5227	C5H9NO2	(S)-(+)-5-hydroxymethyl-2-pyrrolidinone	17342-08-4	24.00	1.0643	2
4747	C5H8	3-methyl-1-butyne	598-23-2	-89.70	0.9196	2	5228	C5H9NO2	(R)-(-)-5-(hydroxymethyl)-2-pyrrolidinone	66673-40-3	24.00	1.0643	2
4758	C5H8Br2O2	2,3-dibromopentanoic acid	79912-57-5	22.50	1.8211	2	5229	C5H9NO2	methyl 3-aminocrotonate	14205-39-1	24.00	1.0643	2
4764	C5H8Br4	1,3-dibromo-2,2-bis(bromomethyl)propane	3229-00-3	15.00	2.5960	1	5231	C5H9NO2	D(+)-proline	344-25-2	24.00	1.0643	2
4769	C5H8ClNO3	N-chloroacetyl urethane	6092-47-3	25.00	1.2961	2	5236	C5H9NO2S	(4S,2RS)-2-methylthiazolidine-4-carboxylicac*	---	25.00	1.1775	2
4791	C5H8Cl2O2	3,3-dichloro-2-hydroxytetrahydropyran	---	22.17	1.2377	2	5237	C5H9NO2S2	cheirolin	505-34-0	25.00	1.2752	2
4794	C5H8Cl2O2	3,3'-dichloropivalic acid	67329-11-7	22.17	1.2377	2	5239	C5H9NO3	trans-4-hydroxyproline	51-35-4	25.00	1.1397	2
4797	C5H8Cl4	2,2-bis(chloromethyl)-1,3-dichloropropane	3228-99-7	25.00	1.3267	2	5240	C5H9NO3	cis-4-hydroxy-D-proline	2584-71-6	25.00	1.1397	2
4811	C5H8N2	1,4-dimethyl-1H-imidazole	6338-45-0	16.00	0.9960	1	5241	C5H9NO3	trans-3-hydroxy-L-proline	4298-08-2	25.00	1.1397	2
4812	C5H8N2	2,4-dimethylimidazole	930-62-1	27.10	0.9540	2	5242	C5H9NO3	cis-4-hydroxy-L-proline	618-27-9	25.00	1.1397	2
4813	C5H8N2	1,3-dimethyl-1H-pyrazole	694-48-4	17.00	0.9561	1	5243	C5H9NO3S	N-acetyl-L-cysteine	616-91-1	25.00	1.2494	2
4814	C5H8N2	1,5-dimethyl-1H-pyrazole	694-31-5	17.00	0.9813	1	5244	C5H9NO3S	meprin	1953-02-2	25.00	1.2494	2
4815	C5H8N2	3,4-dimethyl-1H-pyrazole	2820-37-3	99.00	0.9325	1	5245	C5H9NO4	L-glutamic acid	56-86-0	20.00	1.5380	1
4816	C5H8N2	3,5-dimethyl-1H-pyrazole	67-51-6	16.00	0.8839	1	5247	C5H9NO4	DL-glutamic acid	617-65-2	20.00	1.4601	1
4817	C5H8N2	1-ethyl-1H-pyrazole	2817-71-2	20.00	0.9537	1	5248	C5H9NO4	D-glutamic acid	6893-26-1	20.00	1.5380	1
4820	C5H8N2	2-ethylimidazole	1072-62-4	27.10	0.9540	2	5251	C5H9NO4	N-methyl-L-aspartic acid	4226-18-0	20.00	1.5120	2
4825	C5H8N2O	1H-imidazole-1-ethanol	1615-14-1	25.00	1.0826	2	5252	C5H9NO4	N-methyl-D-aspartic acid	6384-92-5	20.00	1.5120	2
4826	C5H8N2O	2,4-dihydro-2,5-dimethyl-3H-pyrazol-3-one	2749-59-9	25.00	1.0826	2	5253	C5H9NO4	N-methyliminodiacetic acid	4408-64-4	20.00	1.5120	2
4831	C5H8N2O2	5,5-dimethyl-2,4-imidazolidinedione	77-71-4	25.00	1.1735	2	5256	C5H9NO4S	S-(carboxymethyl)-L-cysteine	638-23-3	25.00	1.3153	2
4833	C5H8N2O2	N-(2-cyanoethyl)glycine	3088-42-4	25.00	1.1735	2	5257	C5H9NO4S	S-carboxymethylcysteine	2387-59-9	25.00	1.3153	2
4836	C5H8N2O3	N,N'-diacetylurea	638-20-0	25.00	1.2555	2	5258	C5H9NO5	3-hydroxy-DL-glutamic acid	5985-23-9	25.00	1.2917	2
4839	C5H8N2O5	carbamoyl-dl-aspartic acid	923-37-5	25.00	1.3975	2	5269.1	C5H9NS	N-methylthiopyrrolidone	10441-57-3	2.85	1.6013	2
4840	C5H8N4	3-amino-5,6-dimethyl-1,2,4-triazine	17584-12-2	25.00	1.1662	2	5270	C5H9N3	histamine	51-45-6	25.00	1.0416	2
4845	C5H8N4O12	pentaerythritol tetranitrate	78-11-5	20.00	1.7730	1	5271	C5H9N3	5-amino-1-ethylpyrazole	3528-58-3	25.00	1.0416	2
4848	C5H8O	cyclopentanone	120-92-3	-51.30	1.1861	2	5285	C5H10	cyclopentane	287-92-3	-93.84	0.9749	2
4849	C5H8O	methyl isopropenyl ketone	814-78-8	-53.60	1.0767	2	5286	C5H10	1-pentene	109-67-1	-165.13	0.9468	2
4881	C5H8OS	tetrahydrothiopyran-4-one	1072-72-6	25.00	1.0501	2	5288	C5H10	cis-2-pentene	627-20-3	-151.40	0.9608	2
4882	C5H8O2	acetylacetone	123-54-6	-23.20	1.1914	2	5289	C5H10	trans-2-pentene	646-04-8	-140.26	0.9258	2
4883	C5H8O2	allyl acetate	591-87-7	-135.15	1.2715	2	5290	C5H10	2-methyl-1-butene	563-46-2	-137.57	0.9328	2
4885	C5H8O2	vinyl propionate	105-38-4	-81.10	1.2014	2	5291	C5H10	3-methyl-1-butene	563-45-1	-168.49	0.9328	2
4888	C5H8O2	ethyl acrylate	140-88-5	-71.20	1.1914	2	5292	C5H10	2-methyl-2-butene	513-35-9	-133.76	0.9188	2
4889	C5H8O2	methyl methacrylate	80-62-6	-48.20	1.1914	2	5319	C5H10Br2O2	2,2-bis(bromomethyl)-1,3-propanediol	3296-90-0	25.00	1.7533	2
4891	C5H8O2	trans-2-methyl-2-butenoic acid	80-59-1	76.00	0.9641	1	5320	C5H10Br2O2	1,3-dibromo-2,2-dimethoxypropane	22094-18-4	25.00	1.7533	2
4892	C5H8O2	cis-2-methyl-2-butenoic acid	565-63-9	49.00	0.9834	1	5325	C5H10ClNS	diethylthiocarbamoyl chloride	88-11-9	25.00	1.1195	2
4894	C5H8O2	3-methyl-2-butenoic acid	541-47-9	24.00	1.0062	1	5327	C5H10ClN3O3	1-(2-chloroethyl)-3-(2-hydroxyethyl)-1-nitro*	60784-46-5	25.00	1.3466	2
4897	C5H8O2	cis-2-pentenoic acid	16666-42-5	25.68	0.9972	2	5334	C5H10Cl2	1,5-dichloropentane	628-76-2	-72.80	1.3878	2
4899	C5H8O2	cis-3-pentenoic acid	33698-87-2	25.68	0.9972	2	5354	C5H10Cl2O2	2,2-bis(chloromethyl)-1,3-propanediol	2209-86-1	25.00	1.2009	2
4904	C5H8O2	4-methyl-gamma-butyrolactone	108-29-2	-31.00	1.2915	2	5355	C5H10Cl2O2	2,2-dichloro-1,5-pentanediol	41942-66-	25.00	1.2009	2
4909	C5H8O2	pentanedial	111-30-8	-77.15	1.2915	2	5401	C5H10NNaS2	sodium N,N-diethyldithiocarbamate	148-18-5	25.00	1.1000	1
4919	C5H8O2	1-methylcyclopropanecarboxylic acid	6914-76-7	25.68	0.9972	2	5409	C5H10N2O	1-formylpiperazine	7755-92-2	25.00	1.1030	1
4921	C5H8O2	2-vinyl-1,3-dioxolane	3984-22-3	25.00	1.0010	1	5410	C5H10N2O	L-prolinamide hydrochloride	7531-52-4	22.67	1.0700	2
4926	C5H8O2S	2,5-dihydro-3-methyl-thiophene 1,1-dioxide	1193-10-8	25.00	1.1370	2	5416	C5H10N2O2	2,3-pentanedione dioxime	4775-86-4	25.00	1.1011	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
5417	C5H10N2O2	2,4-pentanedione dioxime	2157-56-4	25.00	1.1011	2	5726	C5H11NO2S	3-mercapto-D-valine	52-67-5	25.00	1.1134	2
5426	C5H10N2O2S	methomyl	16752-77-5	24.00	1.2946	1	5727	C5H11NO2S	DL-methionine	59-51-8	25.00	1.3400	1
5428	C5H10N2O3	L-glutamine	56-85-9	25.00	1.1804	2	5728	C5H11NO2S	L-methionine	63-68-3	25.00	1.1134	2
5429	C5H10N2O3	glycylalanine	1188-01-8	25.00	1.1804	2	5729	C5H11NO2S	D-methionine	348-67-4	25.00	1.1134	2
5437	C5H10N2O4	1,5-dinitropentane	6848-84-6	25.00	1.2528	2	5730	C5H11NO2S	L(+)-penicillamine	1113-41-3	25.00	1.1134	2
5445	C5H10O	pentanal	110-62-3	-91.15	1.0594	2	5731	C5H11NO2S	DL-penicillamine	52-66-4	25.00	1.1134	2
5450	C5H10O	methyl propyl ketone	107-87-9	-76.86	1.0508	2	5739	C5H11NO3	(S)-(+)-2-amino-3-hydroxy-3-methylbutanoicac*	2280-27-5	23.86	1.0493	2
5451	C5H10O	diethyl ketone	96-22-0	-38.97	1.0164	2	5741	C5H11NO3	(R,S)-2-amino-3-hydroxy-3-methylbutanoic acid	2280-28-6	23.86	1.0493	2
5452	C5H10O	methyl isopropyl ketone	563-80-4	-93.00	1.0681	2	5742	C5H11NO3	(2S,3S)-2-amino-3-methoxybutanoic acid	104195-80-4	23.86	1.0493	2
5492	C5H10O2	pentanoic acid	109-52-4	-34.00	1.1077	1	5746	C5H11NO3	tert-butyl N-hydroxycarbamate	36016-38-3	23.86	1.0493	2
5494	C5H10O2	3-methylbutanoic acid	503-74-2	-37.00	1.1060	1	5747	C5H11NO3S	DL-methionine sulfoxide	454-41-1	25.00	1.1832	2
5495	C5H10O2	2,2-dimethylpropanoic acid	75-98-9	25.00	0.9800	1	5748	C5H11NO4	2-ethyl-2-nitro-1,3-propanediol	597-09-1	25.00	1.1500	2
5496	C5H10O2	2-methylbutanoic acid	600-07-7	-80.15	1.1950	2	5759	C5H11N3O2	n-butylnitrosourea	869-01-2	25.00	1.1434	2
5497	C5H10O2	butyl formate	592-84-7	-91.90	1.1643	2	5772	C5H12	pentane	109-66-0	-129.73	0.9137	1
5498	C5H10O2	isobutyl formate	542-55-2	-95.80	1.1541	2	5773	C5H12	isopentane	78-78-4	-159.90	0.9091	2
5499	C5H10O2	sec-butyl formate	589-40-2	-117.15	1.1847	2	5774	C5H12	neopentane	463-82-1	-24.25	0.6917	1
5500	C5H10O2	tert-butyl formate	762-75-4	-17.15	1.0826	2	5781	C5H12Cl3N	bis(2-chloroethyl)methylamine	55-86-7	25.00	1.1788	2
5501	C5H10O2	propyl acetate	109-60-4	-95.00	1.1745	2	5790	C5H12NO3PS2	cygon	60-51-5	65.00	1.2770	1
5502	C5H10O2	isopropyl acetate	108-21-4	-73.40	1.1337	2	5793	C5H12N2	1-methylpiperazine	109-01-3	25.00	0.9305	2
5503	C5H10O2	ethyl propanoate	105-37-3	-73.90	1.1541	2	5794	C5H12N2	2-methylpiperazine	109-07-9	25.00	0.9305	2
5504	C5H10O2	methyl butanoate	623-42-7	-85.80	1.1643	2	5797	C5H12N2	homopiperazine	505-66-8	25.00	0.9305	2
5505	C5H10O2	methyl isobutanoate	547-63-7	-84.70	1.1643	2	5798	C5H12N2	(S)-(+)-2-methylpiperazine	74879-18-8	25.00	0.9305	2
5506	C5H10O2	tetrahydrofurfuryl alcohol	97-99-4	-80.15	1.3175	2	5799	C5H12N2	(R)-(-)-2-methylpiperazine	75336-86-6	25.00	0.9305	2
5507	C5H10O2	cis-1,2-cyclopentanediol	5057-98-7	23.82	0.9586	2	5800	C5H12N2O	butylurea	592-31-4	22.50	1.0051	2
5508	C5H10O2	trans-1,2-cyclopentanediol	5057-99-8	23.82	0.9586	2	5801	C5H12N2O	tert-butylurea	1118-12-3	22.50	1.0051	2
5509	C5H10O2	cis-1,3-cyclopentanediol	16326-97-9	15.00	1.0990	1	5802	C5H12N2O	N,N-diethylurea	634-95-7	22.50	1.0051	2
5510	C5H10O2	trans-1,3-cyclopentanediol	16326-98-0	25.00	1.0940	1	5803	C5H12N2O	N,N'-diethylurea	623-76-7	25.00	1.0415	1
5523	C5H10O2	(1S,2S)-(+)-trans-1,2-cyclopentanediol	63261-45-0	23.82	0.9586	2	5811	C5H12N2O2	L-ornithine	70-26-8	25.00	1.0389	2
5524	C5H10O2	1,3-cyclopentanediol, cis and trans	59719-74-3	25.00	1.0920	1	5812	C5H12N2O2	tert-butyl carbazate	870-46-2	25.00	1.0389	2
5537	C5H10O2S	3-methyl sulfolane	872-93-5	0.50	1.4091	2	5818	C5H12N2O3S	L-methionine sulfoximine	15985-39-4	25.00	1.2145	2
5541	C5H10O2S	2H-thiopyran, tetrahydro-, 1,1-dioxide	4988-33-4	25.00	1.0880	2	5822	C5H12N2S	N,N'-diethylthiourea	105-55-5	25.00	1.0052	2
5543	C5H10O3	diethyl carbonate	105-58-8	-43.00	1.2168	2	5823	C5H12N2S	tetramethylthiourea	2782-91-4	25.00	1.0052	2
5544	C5H10O3	ethyl lactate	97-64-3	-26.00	1.2758	2	5825	C5H12N2S2	1-pyrrolidinecarbodithioic acid, ammoniumsalt	5108-96-3	25.00	1.1168	2
5548	C5H10O3	3-hydroxy-3-methylbutanoic acid	625-08-1	20.00	0.9384	1	5831	C5H12O	1-pentanol	71-41-0	-77.59	1.0402	2
5549	C5H10O3	2-hydroxypentanoic acid	617-31-2	21.72	1.0354	2	5832	C5H12O	2-pentanol	6032-29-7	-73.15	1.0314	2
5556	C5H10O3	(S)-(+)-2-hydroxy-3-methylbutyric acid	17407-55-5	21.72	1.0354	2	5833	C5H12O	3-pentanol	584-02-1	-69.00	1.0490	2
5571	C5H10O4	3-hydroxy-2-(hydroxymethyl)-2-methylpropanoi*	4767-03-7	21.00	1.1765	2	5834	C5H12O	2-methyl-1-butanol	137-32-6	-78.15	1.0402	2
5575	C5H10O4	2,2-bis(hydroxymethyl)propionic acid	4767-07-3	21.00	1.1765	2	5837	C5H12O	3-methyl-1-butanol	123-51-3	-117.20	1.0490	2
5576	C5H10O4	2-deoxy-L-ribose	18546-37-7	21.00	1.1765	2	5838	C5H12O	tert-pentyl-alcohol	75-85-4	-8.80	0.9785	2
5577	C5H10O4	2-deoxy-D-ribose	533-67-5	21.00	1.1765	2	5839	C5H12O	3-methyl-2-butanol	598-75-4	-96.72	1.0578	2
5580	C5H10O5	alpha-D-arabinopyranose	608-45-7	25.00	1.5850	1	5840	C5H12O	2,2-dimethyl-1-propanol	75-84-3	54.00	0.8515	2
5581	C5H10O5	beta-D-arabinopyranose	6748-95-4	25.00	1.6250	1	5841	C5H12O	methyl butyl ether	628-28-4	-115.67	1.0049	2
5582	C5H10O5	D-ribose	50-69-1	23.33	1.5783	2	5842	C5H12O	methyl isobutyl ether	625-44-5	-120.31	1.0049	2
5583	C5H10O5	D-xylose	58-86-6	20.00	1.5250	1	5843	C5H12O	methyl sec-butyl ether	6795-87-5	-120.31	1.0225	2
5584	C5H10O5	DL-arabinose	20235-19-2	23.33	1.5783	2	5844	C5H12O	methyl tert-butyl ether	1634-04-4	-108.60	1.0049	2
5585	C5H10O5	D(-)-arabinose	28697-53-2	23.33	1.5783	2	5845	C5H12O	ethyl propyl ether	628-32-0	-127.50	1.0137	2
5586	C5H10O5	L(+)-arabinose	87-72-9	23.33	1.5783	2	5846	C5H12O	ethyl isopropyl ether	625-54-7	-133.15	1.0225	2
5587	C5H10O5	D(-)-lyxose, anomers	1114-34-7	23.33	1.5783	2	5857	C5H12O2	ethylene glycol monopropyl ether	2807-30-9	-90.00	1.1665	2
5588	C5H10O5	L(+)-lyxose, anomers	1949-78-6	23.33	1.5783	2	5858	C5H12O2	neopentyl glycol	126-30-7	20.00	1.0470	1
5589	C5H10O5	L(+)-ribose	24259-59-4	23.33	1.5783	2	5863	C5H12O2	1,5-pentanediol	111-29-5	-16.00	1.1873	2
5590	C5H10O5	DL-xylose	41247-05-6	23.33	1.5783	2	5865	C5H12O2	2,4-pentanediol	625-69-4	52.50	1.0936	2
5591	C5H10O5	L(-)-xylose	609-06-3	23.33	1.5783	2	5868	C5H12O2	DL-2,4-pentanediol	1825-14-5	22.04	0.9286	2
5592	C5H10O5	D-arabinose	10323-20-3	23.33	1.5783	2	5869	C5H12O2	meso-2,4-pentanediol	3950-21-8	22.04	0.9286	2
5617	C5H11BrO3	2-(bromomethyl)-2-(hydroxymethyl)-1,3-propan*	19184-65-7	25.00	1.4251	2	5877	C5H12O2	diethoxymethane	462-95-3	-66.50	1.0727	2
5620	C5H11Cl	1-chloropentane	543-59-9	-99.00	1.1619	2	5888	C5H12O2	(R,R)-(-)-2,4-pentanediol	42075-32-1	22.04	0.9286	2
5638	C5H11ClO	3-chloro-2,2-dimethyl-1-propanol	13401-56-4	21.00	1.0079	2	5889	C5H12O2	(2S,4S)-(+)-pentanediol	72345-23-4	22.04	0.9286	2
5669	C5H11N	N-methylpyrrolidine	120-94-5	-90.00	1.0473	2	5897	C5H12O2Si	(trimethylsilyl)acetic acid	2345-38-2	25.00	0.8830	2
5670	C5H11N	piperidine	110-89-4	-10.50	1.0388	2	5899	C5H12O3	2-(2-methoxyethoxy)ethanol	111-77-3	-65.00	1.2856	2
5671	C5H11N	cyclopentylamine	1003-03-8	-82.70	1.1069	2	5901	C5H12O3	2-(hydroxymethyl)-2-methyl-1,3-propanediol	77-85-0	24.25	1.0393	2
5675	C5H11NO	tert-butylformamide	2425-74-3	16.00	1.0621	2	5912	C5H12O4	pentaerythritol	115-77-5	30.00	1.3970	1
5678	C5H11NO	3-methylbutanal oxime	626-90-4	20.00	0.8934	1	5916	C5H12O5	ribitol	488-81-3	25.00	1.1223	2
5679	C5H11NO	3-methylbutanamide	541-46-8	28.93	0.9326	2	5917	C5H12O5	xylitol	87-99-0	25.00	1.1223	2
5681	C5H11NO	pentanamide	626-97-1	110.00	0.8735	1	5918	C5H12O5	D-arabitol	488-82-4	25.00	1.1223	2
5687	C5H11NO	4-hydroxypiperidine	5382-16-1	28.93	0.9326	2	5919	C5H12O5	L(-)-arabitol	7643-75-6	25.00	1.1223	2
5700	C5H11NO2	1-nitro-3-methylbutane	627-67-8	25.00	0.9458	1	5921	C5H12S	pentyl mercaptan	110-66-7	-75.70	1.0838	2
5704	C5H11NO2	5-aminopentanoic acid	660-88-8	23.46	0.9308	2	5930	C5H12S	methyl butyl sulfide	628-29-5	-97.85	1.0943	2
5705	C5H11NO2	betaine	107-43-7	23.46	0.9308	2	5935	C5H12S	3,3-dimethyl-2-thiabutane	6163-64-0	-82.31	1.0630	2
5706	C5H11NO2	butyl carbamate	592-35-8	23.46	0.9308	2	5939	C5H12S4	tetrakis(methylthio)methane	6156-25-8	25.00	1.1807	2
5708	C5H11NO2	ethyl ethylcarbamate	623-78-9	20.00	0.9813	1	5942	C5H13Br2N	(2-bromoethyl)trimethylammonium bromide	2758-06-7	25.00	1.5838	2
5709	C5H11NO2	isobutyl carbamate	543-28-2	23.46	0.9308	2	5946	C5H13Cl2N	chlormequat chloride	999-81-5	25.00	1.0494	2
5711	C5H11NO2	DL-isovaline	595-39-1	23.46	0.9308	2	5947	C5H13N	pentylamine	110-58-7	-55.00	0.9501	2
5713	C5H11NO2	DL-norvaline	760-78-1	23.46	0.9308	2	5951	C5H13N	1,1-dimethylpropylamine	594-39-8	-105.00	1.0021	2
5714	C5H11NO2	L-norvaline	6600-40-4	23.46	0.9308	2	5966	C5H13NO	2-amino-3-methyl-1-butanol, (±)	16369-05-4	25.00	0.9300	1
5717	C5H11NO2	DL-valine	516-06-3	23.46	0.9308	2	5967	C5H13NO	2-amino-3-pentanol	116836-16-9	23.00	0.9289	1
5718	C5H11NO2	L-valine	72-18-4	23.46	0.9308	2	5968	C5H13NO	5-amino-1-pentanol	2508-29-4	17.00	0.9488	1
5720	C5H11NO2	2-(methylamino)isobutyric acid	2566-34-9	23.46	0.9308	2	5969	C5H13NO	1-(dimethylamino)-2-propanol	108-16-7	25.00	0.8370	1
5721	C5H11NO2	D(-)-norvaline	2013-12-9	23.46	0.9308	2	5970	C5H13NO	2-(dimethylamino)-1-propanol	15521-18-3	26.00	0.8820	1
5722	C5H11NO2	O-(tetrahydrO-2H-pyran-2-yl)hydroxylamine	6723-30-4	23.46	0.9308	2	5971	C5H13NO	3-(dimethylamino)-1-propanol	3179-63-3	25.00	0.8720	1
5723	C5H11NO2	D-valine	640-68-6	23.46	0.9308	2	5975	C5H13NO	2-(propylamino)ethanol	16369-21-4	20.00	0.9005	1
5725	C5H11NO2	ethyl-N,N-dimethyl carbamate	687-48-9	23.46	0.9308	2	5976	C5H13NO	(S)-(+)-2-amino-3-methyl-1-butanol	2026-48-4	25.00	0.9260	1

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
5977	C5H13NO	(R)-(-)-2-amino-3-methyl-1-butanol	4276-09-9	23.29	0.8939	2	6202	C6H2I4	1,2,3,5-tetraiodobenzene	634-92-4	25.00	3.1612	2
5978	C5H13NO	2-amino-3-methyl-1-butanol	473-75-6	25.00	0.9360	1	6203	C6H2I4	1,2,4,5-tetraiodobenzene	636-31-7	25.00	3.1612	2
5979	C5H13NO	DL-2-amino-1-pentanol	4146-04-7	25.00	0.9220	1	6205	C6H2N2O8	nitranilic acid	479-22-1	25.00	1.8670	2
5980	C5H13NO	(S)-(+)-1-dimethylamino-2-propanol	53636-17-2	25.00	0.8370	1	6207	C6H2N4O5	5,7-dinitro-1,2,3-benzoxadiazole	87-31-0	25.00	1.8288	2
5981	C5H13NO	3-ethoxypropylamine	6291-85-6	25.00	0.8610	1	6210	C6H2N4O6	4,6-dinitrobenzofurazan-N-oxide	5128-28-9	25.00	1.8763	2
5983	C5H13NOS	L-methioninol	2899-37-8	25.00	0.9841	2	6211	C6H2N4O9	2,3,4,6-tetranitrophenol	641-16-7	25.00	1.9956	2
5984	C5H13NOS	(R)-(+)-methioninol	87206-44-8	25.00	1.0950	1	6212	C6H2N6O6	picryl azide	1600-31-3	25.00	1.9699	2
5986	C5H13NO2	methyl diethanolamine	105-59-9	-21.00	1.2512	2	6215	C6H2O6	5,6-dihydroxy-5-cyclohexene-1,2,3,4-tetrone	118-76-3	25.00	1.6430	2
5987	C5H13NO2	2-amino-2-ethyl-1,3-propanediol	115-70-8	20.00	1.0990	1	6219	C6H3BrClNO2	1-bromo-4-chloro-2-nitrobenzene	41513-04-6	25.00	1.8641	2
5988	C5H13NO2	ammonium valerate	42739-38-8	23.33	1.0004	2	6220	C6H3BrFI	1-bromo-3-fluoro-4-iodobenzene	105931-73-5	25.00	2.2691	2
6005	C5H14ClNO	choline chloride	67-48-1	25.00	0.9726	2	6221	C6H3BrFI	1-bromo-2-fluoro-4-iodobenzene	136434-77-0	25.00	2.2691	2
6006	C5H14ClN3O	girard's T	123-46-6	25.00	1.1025	2	6228	C6H3BrCl2	1-bromo-2,3-dichlorobenzene	56961-77-4	25.00	1.7572	2
6014	C5H14N2	2,2-dimethyl-1,3-propanediamine	7328-91-8	25.00	0.8510	1	6229	C6H3BrCl2	1-bromo-2,4-dichlorobenzene	1193-72-2	25.00	1.7572	2
6015	C5H14N2	1-dimethylamino-2-propylamine	62689-51-4	25.00	0.7920	1	6230	C6H3BrCl2	1-bromo-3,5-dichlorobenzene	19752-55-7	25.00	1.7572	2
6049	C6Br2F4	1,4-dibromotetrafluorobenzene	344-03-6	25.00	2.1984	2	6231	C6H3BrCl2	2-bromo-1,3-dichlorobenzene	19393-92-1	25.00	1.7572	2
6050	C6Br4O2	tetrabromo-o-benzoquinone	2435-54-3	25.00	2.7979	2	6232	C6H3BrCl2	2-bromo-1,4-dichlorobenzene	1435-50-3	25.00	1.7572	2
6051	C6Br6	hexabromobenzene	87-82-1	25.00	3.0656	2	6234	C6H3BrCl2O	2-bromo-4,6-dichlorophenol	4524-77-0	25.00	1.8029	2
6061	C6Cl3F3	1,3,5-trichloro-2,4,6-trifluorobenzene	319-88-0	25.00	1.6575	2	6236	C6H3BrN2O4	1-bromo-2,3-dinitrobenzene	19613-76-4	25.00	1.9739	2
6063	C6Cl4O2	2,3,5,6-tetrachloro-2,5-cyclohexadiene-1,4-d*	118-75-2	25.00	1.7462	2	6237	C6H3BrN2O4	1-bromo-2,4-dinitrobenzene	584-48-5	25.00	1.9739	2
6064	C6Cl4O2	tetrachloro-o-benzoquinone	2435-53-2	25.00	1.7462	2	6238	C6H3BrN2O5	2-bromo-4,6-dinitrophenol	2316-50-9	25.00	2.0115	2
6065	C6Cl5NO2	pentachloronitrobenzene	82-68-8	25.00	1.7180	1	6239	C6H3BrN2O5	4-bromo-2,6-dinitrophenol	40466-95-3	25.00	2.0115	2
6067	C6Cl6	hexachlorobenzene	118-74-1	23.50	2.0440	1	6243	C6H3Br2Cl	1,2-dibromo-3-chlorobenzene	104514-49-0	25.00	2.0604	2
6068	C6Cl6O	2,3,4,5,6,6-hexachloro-2,4-cyclohexadien-1-o*	21306-21-8	25.00	1.7737	2	6244	C6H3Br2Cl	1,2-dibromo-4-chlorobenzene	60956-24-3	25.00	2.0604	2
6070	C6Cl10	1,1,2,3,3,4,4,5,6,6-decachloro-1,5-hexadiene	29030-84-0	52.00	1.9050	1	6245	C6H3Br2Cl	1,3-dibromo-2-chlorobenzene	19230-27-4	25.00	2.0604	2
6072	C6CrO6	chromium carbonyl	13007-92-6	25.00	1.7700	1	6246	C6H3Br2Cl	1,4-dibromo-2-chlorobenzene	3460-24-0	25.00	2.0604	2
6076	C6F4O2	tetrafluoro-p-benzoquinone	527-21-9	25.00	1.6138	2	6247	C6H3Br2Cl	2,4-dibromo-1-chlorobenzene	29604-75-9	25.00	2.0604	2
6080	C6F6	hexafluorobenzene	392-56-3	-17.00	1.8799	1	6248	C6H3Br2F	2,4-dibromo-1-fluorobenzene	1435-53-6	20.00	2.0470	1
6085	C6FeK3N6	potassium hexacyanoferrate(iii)	13746-66-2	25.00	1.8500	1	6250	C6H3Br2F	1,4-dibromo-2-fluorobenzene	1435-52-5	25.00	2.0491	2
6090	C6F12	perfluorocyclohexane	355-68-0	25.00	1.6450	2	6251	C6H3Br2NO2	1,2-dibromo-4-nitrobenzene	5411-50-7	8.00	2.3540	1
6103	C6HBr5	pentabromobenzene	608-90-2	25.00	2.8720	2	6252	C6H3Br2NO2	1,3-dibromo-2-nitrobenzene	13402-32-9	8.00	2.2110	1
6104	C6HBr5O	pentabromophenol	608-71-9	25.00	2.8712	2	6253	C6H3Br2NO2	1,3-dibromo-5-nitrobenzene	6311-60-0	8.00	2.3600	1
6105	C6HClF4S	4-chloro-tetrafluorothiophenol	13634-93-0	25.00	1.5740	2	6254	C6H3Br2NO2	1,4-dibromo-2-nitrobenzene	3460-18-2	8.00	2.3680	1
6107	C6HCl2FN2	2,6-dichloro-5-fluoro-3-pyridinecarbonitrile	82671-02-1	25.00	1.6175	2	6255	C6H3Br2NO2	2,4-dibromo-1-nitrobenzene	51686-78-3	8.00	2.3560	1
6110	C6HCl3N2O4	4,6-dinitro-1,2,3-trichlorobenzene	6379-46-0	25.00	1.8359	2	6256	C6H3Br2NO3	2,6-dibromo-4-nitrophenol	99-28-5	25.00	2.1974	2
6112	C6HCl4NO2	1,2,4,5-tetrachloro-3-nitrobenzene	117-18-0	25.00	1.7440	1	6257	C6H3Br3	1,2,3-tribromobenzene	608-21-9	25.00	2.6580	1
6115	C6HCl5	pentachlorobenzene	608-93-5	16.00	1.8342	1	6258	C6H3Br3	1,2,4-tribromobenzene	615-54-3	25.00	2.3515	2
6116	C6HCl5O	pentachlorophenol	87-86-5	22.00	1.9780	1	6259	C6H3Br3	1,3,5-tribromobenzene	626-39-1	25.00	2.3515	2
6124	C6HF5O	pentafluorophenol	771-61-9	25.00	1.5294	2	6260	C6H3Br3O	2,4,6-tribromophenol	118-79-6	20.00	2.5500	1
6127	C6HI5	pentaiodobenzene	608-96-8	25.00	3.4011	2	6262	C6H3ClFNO2	2-chloro-5-fluoronitrobenzene	345-17-5	25.00	1.5019	2
6138	C6H2Br2ClF	1-chloro-2,6-dibromo-4-fluorobenzene	179897-90-6	25.00	2.1110	2	6263	C6H3ClFNO2	3-chloro-4-fluoronitrobenzene	350-30-1	25.00	1.5019	2
6140	C6H2Br2ClNO	2,6-dibromoquinone-4-chlorimide	537-45-1	25.00	2.1919	2	6268	C6H3ClF3N	2-chloro-5-(trifluoromethyl)pyridine	52334-81-3	25.00	1.4475	2
6141	C6H2Br2FI	1,3-dibromo-5-fluoro-2-iodobenzene	62720-29-0	25.00	2.5671	2	6272	C6H3ClNO3	2,6-dichloro-4-nitrophenol	618-80-4	25.00	1.8220	1
6142	C6H2Br2F2	1,2-dibromo-3,5-difluorobenzene	139215-43-3	25.00	2.1030	2	6273	C6H3ClN2	2-chloronicotinitrile	6602-54-6	25.00	1.3854	2
6143	C6H2Br2F2	1,4-dibromo-2,5-difluorobenzene	327-51-5	25.00	2.1030	2	6274	C6H3ClO2	2-chloro-1,4-benzoquinone	695-99-8	25.00	1.3872	2
6144	C6H2Br2F2	1,2-dibromo-4,5-difluorobenzene	64695-78-9	25.00	2.1030	2	6277	C6H3Cl2F	1,3-dichloro-2-fluorobenzene	2268-05-5	25.00	1.3967	2
6145	C6H2Br3F	1-fluoro-2,3,5-tribromobenzene	2839-37-4	25.00	2.3899	2	6279	C6H3Cl2FO	2,6-dichloro-4-fluorophenol	392-71-2	25.00	1.4571	2
6146	C6H2Br3F	1,2,3-tribromo-5-fluorobenzene	3925-78-8	25.00	2.3899	2	6280	C6H3Cl2F4NO3S	N-fluoro-3,5-dichloropyridinium triflate	107264-06-2	25.00	1.7093	2
6147	C6H2Br3NO2	1,2,3-tribromo-5-nitrobenzene	3460-20-6	25.00	2.6450	1	6281	C6H3ClN2O4	1-chloro-2,4-dinitrobenzene	97-00-7	22.00	1.6870	1
6148	C6H2Br3NO2	1,3,5-tribromo-2-nitrobenzene	3463-40-9	25.00	2.4841	2	6282	C6H3ClN2O4	2-chloro-1,3-dinitrobenzene	606-21-3	16.00	1.6867	1
6149	C6H2Br4	1,2,3,5-tetrabromobenzene	634-89-9	25.00	2.6385	2	6283	C6H3ClN2O4	1-chloro-3,4-dinitrobenzene	610-40-2	25.00	1.6870	1
6150	C6H2Br4	1,2,4,5-tetrabromobenzene	636-28-2	20.00	3.0720	1	6285	C6H3ClN2O4S	2,4-dinitrobenzenesulfenyl chloride	528-76-7	25.00	1.6996	2
6151	C6H2Br4O	2,3,4,6-tetrabromophenol	14400-94-3	25.00	2.6462	2	6286	C6H3ClN2O5	4-chloro-2,6-dinitrophenol	88-87-9	22.00	1.7400	1
6152	C6H2Br4O	2,4,4,6-tetrabromo-2,5-cyclohexadien-1-one	20244-61-5	25.00	2.6462	2	6287	C6H3ClN2O5	5-chloro-2,4-dinitrophenol	54715-57-0	22.00	1.7400	1
6153	C6H2Br4O2	2,3,5,6-tetrabromo-1,4-benzenediol	2641-89-6	21.00	3.0230	1	6290	C6H3Cl2I	3,4-dichloroiodobenzene	20555-91-3	25.00	1.9882	2
6154	C6H2Br4O2	tetrabromocatechol	488-47-1	25.00	2.6533	2	6291	C6H3Cl2I	1,2-dichloro-3-iodobenzene	2401-21-0	25.00	1.9882	2
6157	C6H2ClN3O3	nbd chloride	10199-89-0	25.00	1.7114	2	6293	C6H3Cl2I	1,3-dichloro-5-iodobenzene	3032-81-3	25.00	1.9882	2
6158	C6H2ClN3O6	2-chloro-1,3,5-trinitrobenzene	88-88-0	20.00	1.7970	1	6294	C6H3Cl2NO	2-chloronicotinoyl chloride	49609-84-9	25.00	1.4843	2
6163	C6H2Cl2FNO2	2,6-dichloro-5-fluoropyridine-3-carboxylicac*	82671-06-5	25.00	1.6207	2	6296	C6H3Cl2NO2	1,2-dichloro-4-nitrobenzene	99-54-7	42.50	1.7453	2
6164	C6H2Cl2O2	2,6-dichloro-p-benzoquinone	697-91-6	25.00	1.5332	2	6297	C6H3Cl2NO2	clopyralid	1702-17-6	60.17	1.5163	2
6167	C6H2Cl2O4	chloranilic acid	87-88-7	25.00	1.6499	2	6298	C6H3Cl2NO2	1,2-dichloro-3-nitrobenzene	3209-22-1	14.00	1.7210	1
6169	C6H2Cl3NO	2,6-dichloro-4-(chloroimino)-2,5-cyclohexadi*	101-38-2	25.00	1.6033	2	6299	C6H3Cl2NO2	1,3-dichloro-2-nitrobenzene	601-88-7	17.00	1.6030	1
6170	C6H2Cl3NO2	1,2,3-trichloro-5-nitrobenzene	20098-48-0	25.00	1.8070	1	6300	C6H3Cl2NO2	1,3-dichloro-5-nitrobenzene	618-62-2	100.00	1.4000	1
6171	C6H2Cl3NO2	1,2,4-trichloro-5-nitrobenzene	89-69-0	23.00	1.7900	1	6301	C6H3Cl2NO2	1,4-dichloro-2-nitrobenzene	89-61-2	75.00	1.4390	1
6172	C6H2Cl3NO3	3,4,6-trichloro-2-nitrophenol	82-62-2	25.00	1.7015	2	6302	C6H3Cl2NO2	2,4-dichloro-1-nitrobenzene	611-06-3	80.00	1.4790	1
6174	C6H2Cl4	1,2,3,4-tetrachlorobenzene	634-66-2	25.00	1.5578	2	6303	C6H3Cl2NO3	2,4-dichloro-6-nitrophenol	609-89-2	25.00	1.6024	2
6175	C6H2Cl4	1,2,3,5-tetrachlorobenzene	634-90-2	25.00	1.5578	2	6304	C6H3Cl2NO4S	4-chloro-3-nitrobenzenesulfonyl chloride	97-08-5	25.00	1.6960	2
6176	C6H2Cl4	1,2,4,5-tetrachlorobenzene	95-94-3	22.00	1.8580	1	6305	C6H3Cl3	1,2,4-trichlorobenzene	120-82-1	17.00	1.7056	2
6177	C6H2Cl4O	2,3,4,5-tetrachlorophenol	4901-51-3	25.00	1.6081	2	6306	C6H3Cl3	1,2,3-trichlorobenzene	87-61-6	25.00	1.6900	1
6178	C6H2Cl4O	2,3,4,6-tetrachlorophenol	58-90-2	25.00	1.6081	2	6307	C6H3Cl3	1,3,5-trichlorobenzene	108-70-3	63.50	1.6221	2
6179	C6H2Cl4O	2,3,5,6-tetrachlorophenol	935-95-5	25.00	1.6081	2	6308	C6H3Cl3	trichlorobenzene	12002-48-1	25.00	1.4560	1
6180	C6H2Cl4O2	3,4,5,6-tetrachloro-1,2-benzenediol	1198-55-6	25.00	1.6546	2	6309	C6H3Cl3N2O2	4-amino-3,5,6-trichloropyridinecarboxlic acid	1918-02-1	25.00	1.6580	2
6181	C6H2Cl4O2	tetrachlorohydroquinone	87-87-6	25.00	1.6546	2	6310	C6H3Cl3O	2,3,4-trichlorophenol	15950-66-0	25.00	1.5013	2
6184	C6H2FN3O3	7-fluoro-4-nitrobenzo-2-oxa-1,3-diazole	29270-56-2	25.00	1.6753	2	6311	C6H3Cl3O	2,3,5-trichlorophenol	933-78-8	25.00	1.5013	2
6185	C6H2F2N2O4	1,5-difluoro-2,4-dinitrobenzene	327-92-4	25.00	1.6930	2	6312	C6H3Cl3O	2,3,6-trichlorophenol	933-75-5	25.00	1.5013	2
6192	C6H2F4O	2,3,5,6-tetrafluorophenol	769-39-1	25.00	1.4445	2	6313	C6H3Cl3O	2,4,5-trichlorophenol	95-95-4	25.00	1.5013	2
6193	C6H2F4O2	tetrafluorohydroquinone	771-63-1	25.00	1.5099	2	6314	C6H3Cl3O	2,4,6-trichlorophenol	88-06-2	75.00	1.4901	1
6195	C6H2F5N	2,3,4,5,6-pentafluoroaniline	771-60-8	25.00	1.4826	2	6315	C6H3Cl3O	3,4,5-trichlorophenol	609-19-8	25.00	1.5013	2
6198	C6H2I2O2	diiodoquinone	20389-01-9	25.00	2.6051	2	6316	C6H3Cl3O	trichlorophenol	25167-82-2	25.00	1.5013	2
6200	C6H2I3NO2	1,2,3-triiodo-5-nitrobenzene	53663-23-3	25.00	3.2560	1	6317	C6H3Cl3O2	3,4,5-trichloro-1,2-benzenediol	56961-20-7	25.00	1.5565	2
6201	C6H2I4	1,2,3,4-tetraiodobenzene	634-68-4	25.00	3.1612	2	6320	C6H3Cl3O2S	2,5-dichlorobenzenesulfonyl chloride	5402-73-3	25.00	1.6078	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
6322	C6H3Cl3O3	2,4,6-trichloro-1,3,5-benzenetriol	56961-23-0	25.00	1.6073	2	6470	C6H4Cl2	m-dichlorobenzene	541-73-1	-24.76	1.5729	2
6323	C6H3Cl3O3S	3,5-dichloro-2-hydroxybenzenesulfonyl chlori*	23378-88-3	25.00	1.6519	2	6471	C6H4Cl2	p-dichlorobenzene	106-46-7	52.99	1.4806	1
6324	C6H3Cl3S	2,4,5-trichlorothiophenol	3773-14-6	25.00	1.5093	2	6475	C6H4Cl2N2O2	2,6-dichloro-4-nitroaniline	99-30-9	25.00	1.5572	2
6325	C6H3Cl4N	nitrapyrin	1929-82-4	25.00	1.5671	2	6476	C6H4Cl2N2O2	2,4-dichloro-6-nitroaniline	2683-43-4	25.00	1.5572	2
6328	C6H3FN2O4	1-fluoro-2,4-dinitrobenzene	70-34-8	54.00	1.4718	1	6477	C6H4Cl2N2O2	2,5-dichloro-4-nitroaniline	6627-34-5	25.00	1.5572	2
6336	C6H3F2NO3	2,3-difluoro-6-nitrophenol	82419-26-9	25.00	1.5200	2	6479	C6H4Cl2O	2,3-dichlorophenol	576-24-9	25.00	1.3717	2
6340	C6H3F3O	2,3,6-trifluorophenol	113798-74-6	25.00	1.4585	2	6480	C6H4Cl2O	2,4-dichlorophenol	120-83-2	25.00	1.3717	2
6341	C6H3F3O	2,3,5-trifluorophenol	2268-15-7	25.00	1.4570	1	6481	C6H4Cl2O	2,5-dichlorophenol	583-78-8	25.00	1.3717	2
6342	C6H3F3O	2,4,5-trifluorophenol	2268-16-8	25.00	1.4585	2	6482	C6H4Cl2O	2,6-dichlorophenol	87-65-0	20.00	1.6530	1
6343	C6H3F3O	2,4,6-trifluorophenol	2268-17-9	25.00	1.4585	2	6483	C6H4Cl2O	3,4-dichlorophenol	95-77-2	25.00	1.3717	2
6344	C6H3F3O	2,3,4-trifluorophenol	2822-41-5	25.00	1.4600	1	6484	C6H4Cl2O	3,5-dichlorophenol	591-35-5	25.00	1.3717	2
6347	C6H3F4N	2,3,4,5-tetrafluoroaniline	5580-80-3	25.00	1.4700	2	6485	C6H4Cl2OS	3-acetyl-2,5-dichlorothiophene	36157-40-1	25.00	1.4514	2
6348	C6H3F4N	2,3,5,6-tetrafluoroaniline	700-17-4	25.00	1.4700	2	6486	C6H4Cl2O2	3,5-dichloro-1,2-benzenediol	13673-92-2	25.00	1.4383	2
6350	C6H3F5N2	pentafluorophenylhydrazine	828-73-9	25.00	1.4980	2	6487	C6H4Cl2O2	4,5-dichloro-1,2-benzenediol	3428-24-8	25.00	1.4383	2
6354	C6H3I2NO3	2,6-diiodo-4-nitrophenol	305-85-1	25.00	2.5630	2	6488	C6H4Cl2O2	4,6-dichloro-1,3-benzenediol	137-19-9	25.00	1.4383	2
6355	C6H3I3	1,2,3-triiodobenzene	608-29-7	25.00	2.8493	2	6491	C6H4Cl2O2	2,5-dichloro-1,4-benzenediol	824-69-1	25.00	1.4383	2
6356	C6H3I3	1,2,4-triiodobenzene	615-68-9	25.00	2.8493	2	6492	C6H4Cl2O2S	4-chlorobenzenesulfonyl chloride	98-60-2	25.00	1.5075	2
6357	C6H3I3	1,3,5-triiodobenzene	626-44-8	25.00	2.8493	2	6494	C6H4Cl2O4S2	1,3-benzenedisulfonyl chloride	585-47-7	25.00	1.6494	2
6358	C6H3I3O	2,4,6-triiodophenol	609-23-4	25.00	2.8493	2	6496	C6H4Cl2S	2,3-dichlorobenzenethiol	17231-95-7	25.00	1.3905	2
6365	C6H3N3O2S	4-nitro-2,1,3-benzothiadiazole	6583-06-8	25.00	1.5911	2	6497	C6H4Cl2S	2,6-dichlorobenzenethiol	24966-39-0	25.00	1.3905	2
6367	C6H3N3O6	1,3,5-trinitrobenzene	99-35-4	20.00	1.7600	1	6500	C6H4Cl3N	2,3,4-trichloroaniline	634-67-3	25.00	1.4590	2
6368	C6H3N3O7	2,4,6-trinitrophenol	88-89-1	25.00	1.8128	2	6501	C6H4Cl3N	2,4,5-trichloroaniline	636-30-6	25.00	1.4590	2
6369	C6H3N3O8	2,4,6-trinitro-1,3-benzenediol	82-71-3	25.00	1.8569	2	6502	C6H4Cl3N	2,4,6-trichloroaniline	634-93-5	25.00	1.4590	2
6370	C6H3N3O9	trinitrophloroglucinol	4328-17-0	25.00	1.8974	2	6504	C6H4Cl3N	3,4,5-trichloroaniline	634-91-3	25.00	1.4590	2
6372	C6H3N5O8	tetranitroaniline	3698-54-2	25.00	1.9440	2	6510	C6H4Cl6O4	ethylene glycol bis(trichloroacetate)	2514-53-6	25.00	1.7257	2
6385	C6H4BrCl	1-bromo-4-chlorobenzene	106-39-8	71.00	1.5760	1	6517	C6H4FNO2	1-fluoro-3-nitrobenzene	402-67-5	19.00	1.3254	1
6386	C6H4BrClO	3-bromo-5-chlorophenol	56962-04-0	25.00	1.7076	2	6519	C6H4FNO3	4-fluoro-2-nitrophenol	394-33-2	25.00	1.4306	2
6387	C6H4BrClO	4-bromo-2-chlorophenol	3964-56-5	20.00	1.6170	1	6520	C6H4FNO3	3-fluoro-4-nitrophenol	394-41-2	25.00	1.4306	2
6388	C6H4BrClO	2-bromo-4-chlorophenol	695-96-5	25.00	1.7076	2	6521	C6H4FNO3	2-fluoro-4-nitrophenol	403-19-0	25.00	1.4306	2
6389	C6H4BrClO2S	4-bromobenzenesulfonyl chloride	98-58-8	25.00	1.7910	2	6522	C6H4FNO3	5-fluoro-2-nitrophenol	446-36-6	25.00	1.4306	2
6390	C6H4BrClO2S	2-bromobenzenesulfonyl chloride	2905-25-1	25.00	1.7910	2	6523	C6H4FNO4S	4-nitrobenzenesulfonyl fluoride	349-96-2	25.00	1.5663	2
6391	C6H4BrCl2N	6-bromo-2,4-dichloroaniline	697-86-9	25.00	1.7545	2	6527	C6H4F2O	2,5-difluorophenol	2713-31-7	25.00	1.2483	2
6396	C6H4BrFO	2-bromo-4-fluorophenol	496-69-5	25.00	1.6170	2	6528	C6H4F2O	3,4-difluorophenol	2713-33-9	25.00	1.2483	2
6398	C6H4BrF2N	2-bromo-4,6-difluoroaniline	444-14-4	25.00	1.6953	2	6529	C6H4F2O	3,5-difluorophenol	2713-34-0	25.00	1.2483	2
6401	C6H4BrI	1-bromo-4-iodobenzene	589-87-7	25.00	2.2236	2	6530	C6H4F2O	2,6-difluorophenol	28177-48-2	25.00	1.2483	2
6403	C6H4BrNO2	1-bromo-2-nitrobenzene	577-19-5	80.00	1.6245	1	6532	C6H4F2O	2,3-difluorophenol	6418-38-8	25.00	1.2483	2
6404	C6H4BrNO2	1-bromo-3-nitrobenzene	585-79-5	20.00	1.7036	1	6534	C6H4F3N	3,4,5-trifluoroaniline	163733-96-8	25.00	1.3510	2
6405	C6H4BrNO2	1-bromo-4-nitrobenzene	586-78-7	25.00	1.9480	1	6535	C6H4F3N	2,4,6-trifluoroaniline	363-81-5	25.00	1.3510	2
6406	C6H4BrNO2	5-bromonicotinic acid	20826-04-4	41.67	1.7587	2	6536	C6H4F3N	2,4,5-trifluoroaniline	367-34-0	25.00	1.3510	2
6407	C6H4BrNO3	2-bromo-3-nitrophenol	101935-40-4	25.00	1.8201	2	6538	C6H4F3N	2,3,6-trifluoroaniline	67815-56-9	25.00	1.3900	1
6408	C6H4BrNO3	4-bromo-2-nitrophenol	7693-52-9	25.00	1.8201	2	6541	C6H4F4N2	2,3,5,6-tetrafluorophenylhydrazine	653-11-2	25.00	1.4197	2
6410	C6H4BrN3O4	2-bromo-4,6-dinitroaniline	1817-73-8	25.00	1.9570	2	6545	C6H4INO2	1-iodo-2-nitrobenzene	609-73-4	75.00	1.9186	1
6411	C6H4Br2	m-dibromobenzene	108-36-1	-6.90	2.3284	2	6546	C6H4INO2	1-iodo-3-nitrobenzene	645-00-1	50.00	1.9477	1
6413	C6H4Br2	p-dibromobenzene	106-37-6	17.00	2.2610	1	6547	C6H4INO2	1-iodo-4-nitrobenzene	636-98-6	155.00	1.8090	1
6414	C6H4Br2	dibromobenzene	26249-12-7	20.67	2.0641	2	6548	C6H4INO3	4-iodo-3-nitrophenol	50590-07-3	25.00	2.0627	2
6415	C6H4Br2FN	2,6-dibromo-4-fluoraniline	344-18-3	25.00	2.0271	2	6553	C6H4I2	o-diiodobenzene	615-42-9	20.00	2.5400	1
6416	C6H4Br2N2O2	2,4-dibromo-6-nitroaniline	827-23-6	25.00	2.1404	2	6554	C6H4I2	m-diiodobenzene	626-00-6	25.00	2.4700	1
6417	C6H4Br2N2O2	2,6-dibromo-4-nitroaniline	827-94-1	25.00	2.1404	2	6555	C6H4I2	p-diiodobenzene	624-38-4	22.50	2.5050	2
6418	C6H4Br2O	2,4-dibromophenol	615-58-7	20.00	2.0700	1	6556	C6H4I2N2O2	2,6-diiodo-4-nitroaniline	5398-27-6	25.00	2.5050	2
6419	C6H4Br2O	2,6-dibromophenol	608-33-3	25.00	2.0291	2	6557	C6H4I2O2	2,6-diiodohydroquinone	1955-21-1	25.00	2.4593	2
6420	C6H4Br2O	3,5-dibromophenol	626-41-5	25.00	2.0291	2	6566	C6H4N2	2-pyridinecarbonitrile	100-70-9	25.00	1.0810	1
6421	C6H4Br3N	2,4,6-tribromoaniline	147-82-0	20.00	2.3500	1	6567	C6H4N2	3-pyridinecarbonitrile	100-54-9	25.00	1.1590	1
6425	C6H4ClFN2O2	5-chloro-4-fluoro-2-nitroaniline	104222-34-6	25.00	1.5168	2	6568	C6H4N2	4-pyridinecarbonitrile	100-48-1	25.00	1.1200	2
6427	C6H4ClFO	3-chloro-4-fluorophenol	2613-23-2	25.00	1.3675	2	6571	C6H4N2OS	oxazolo[4,5-b]pyridin-2(3H)thione	53052-06-5	25.00	1.4024	2
6428	C6H4ClFO	4-chloro-3-fluorophenol	348-60-7	25.00	1.3675	2	6572	C6H4N2O2	benzofurazan, 1-oxide	480-96-6	25.00	1.3810	2
6431	C6H4ClFO2S	4-fluorobenzenesulfonyl chloride	349-88-2	25.00	1.4665	2	6578	C6H4N2O3S	benzenediazonium-2-sulfonate	612-31-7	25.00	1.5381	2
6435	C6H4ClF3N2	2-amino-3-chloro-5-(trifluoromethyl)pyridine	79456-26-1	25.00	1.4650	2	6580	C6H4N2O4	m-dinitrobenzene	99-65-0	90.08	1.5546	1
6439	C6H4ClI	1-chloro-4-iodobenzene	637-87-6	27.00	1.8860	1	6581	C6H4N2O4	o-dinitrobenzene	528-29-0	16.85	1.5730	1
6440	C6H4ClIO2S	4-iodobenzenesulfonyl chloride	98-61-3	25.00	1.9986	2	6582	C6H4N2O4	p-dinitrobenzene	100-25-4	20.00	1.6170	1
6442	C6H4ClNO	4-chloroimino-2,5-cyclohexadiene-1-one	637-61-6	25.00	1.3368	2	6583	C6H4N2O4	2,3-pyrazinedicarboxylic acid	89-01-0	52.00	1.5040	2
6443	C6H4ClNO2	m-chloronitrobenzene	121-73-3	20.00	1.5340	1	6586	C6H4N2O5	2,3-dinitrophenol	66-56-8	20.00	1.6810	1
6444	C6H4ClNO2	o-chloronitrobenzene	88-73-3	33.00	1.5913	2	6587	C6H4N2O5	2,4-dinitrophenol	51-28-5	24.00	1.6830	1
6445	C6H4ClNO2	p-chloronitrobenzene	100-00-5	83.50	1.5188	2	6588	C6H4N2O5	2,5-dinitrophenol	329-71-5	23.80	1.6836	2
6446	C6H4ClNO2	6-chloronicotinic acid	5326-23-8	127.33	1.3363	2	6589	C6H4N2O5	2,6-dinitrophenol	573-56-8	23.80	1.6836	2
6448	C6H4ClNO2	6-chloropicolinic acid	4684-94-0	127.33	1.3363	2	6590	C6H4N2O5	3,4-dinitrophenol	577-71-9	25.00	1.6720	1
6449	C6H4ClNO2S	4-nitrobenzenesulfenyl chloride	937-32-6	25.00	1.4923	2	6591	C6H4N2O5	3,5-dinitrophenol	586-11-8	25.00	1.7020	1
6450	C6H4ClNO2S	2-nitrobenzenesulfenyl chloride	7669-54-7	25.00	1.4923	2	6592	C6H4N2O5	dinitrophenol	25550-58-7	25.00	1.6800	1
6451	C6H4ClNO3	5-chloro-2-nitrophenol	611-07-4	25.00	1.4818	2	6593	C6H4N2O6	2,4-dinitro-1,3-benzenediol	519-44-8	25.00	1.6535	2
6452	C6H4ClNO3	5-chloro-6-hydroxynicotinic acid, tautomers	54127-63-8	25.00	1.4818	2	6595	C6H4N2O7S	2,4-dinitrobenzenesulfonic acid	89-02-1	25.00	1.7452	2
6453	C6H4ClNO3	2-chloro-6-nitrophenol	603-86-1	25.00	1.4818	2	6596	C6H4N2S	2,1,3-benzothiadiazole	273-13-2	25.00	1.3235	2
6454	C6H4ClNO3	2-chloro-4-nitrophenol	619-08-9	25.00	1.4818	2	6599	C6H4N4	pteridine	91-18-9	25.00	1.3788	2
6455	C6H4ClNO3	4-chloro-2-nitrophenol	89-64-5	25.00	1.4818	2	6600	C6H4N4	2-amino-1-propene-1,1,3-tricarbonitrile	868-54-2	25.00	1.3788	2
6456	C6H4ClNO4S	3-nitrobenzenesulfonyl chloride	121-51-7	25.00	1.6025	2	6602	C6H4N4O2	5-nitro-1H-benzotriazole	2338-12-7	25.00	1.5331	2
6457	C6H4ClNO4S	4-nitrobenzenesulfonyl chloride	98-74-8	25.00	1.6025	2	6603	C6H4N4O2	2,4(1H,3H)-pteridinedione	487-21-8	25.00	1.5331	2
6459	C6H4ClNO5S	2-chloro-5-nitrobenzenesulfonic acid	96-73-1	25.00	1.6511	2	6608	C6H4N4O6	2,4,6-trinitroaniline	489-98-5	10.00	1.7620	1
6462	C6H4ClN3	5-chlorobenzotriazole	94-97-3	25.00	1.4119	2	6611	C6H4N6	1,4-diazidobenzene	2294-47-5	25.00	1.5351	2
6465	C6H4ClN3O4	6-chloro-2,4-dinitroaniline	3531-19-9	25.00	1.6579	2	6616	C6H4O2	p-benzoquinone	106-51-4	20.00	1.3200	1
6466	C6H4ClN3O4	4-chloro-2,6-dinitroaniline	5388-62-5	25.00	1.6579	2	6617	C6H4O2	o-benzoquinone	583-63-1	25.00	1.2002	2
6468	C6H4ClO2P	2-chloro-1,3,2-benzodioxaphosphole	1641-40-3	20.00	1.4650	1	6618	C6H4O2S	2,5-thiophenedicarboxaldehyde	932-95-6	25.00	1.3269	2
6469	C6H4Cl2	o-dichlorobenzene	95-50-1	-40.00	1.4750	1	6619	C6H4O3S	2-thiopheneglyoxylic acid	4075-59-6	25.00	1.4038	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
6620	C6H4O3S2	5,6-dihydro-1,4-dithiine-2,3-dicarboxylicanh*	10489-75-5	25.00	1.4844	2	6802	C6H5IO2	4-iodo-1,2-benzenediol	76149-14-9	25.00	1.9169	2
6621	C6H4O4	2-oxo-2H-pyran-5-carboxylic acid	500-05-0	25.00	1.3830	2	6803	C6H5IO2	5-iodo-1,3-benzenediol	64339-43-1	25.00	1.9169	2
6622	C6H4O4	2,5-dihydroxy-1,4-benzoquinone	615-94-1	25.00	1.3830	2	6805	C6H5I2N	2,4-diiodoaniline	533-70-0	25.00	2.7480	1
6623	C6H4O4S	2,5-thiophenedicarboxylic acid	4282-31-9	25.00	1.4732	2	6813	C6H5NO	nitrosobenzene	586-96-9	25.00	1.1143	2
6624	C6H4O4S	3,4-thiophenedicarboxylic acid	4282-29-5	25.00	1.4732	2	6819	C6H5NO2	nitrobenzene	98-95-3	0.00	1.3440	1
6625	C6H4O5	2,3-furandicarboxylic acid	4282-24-0	25.00	1.4600	2	6820	C6H5NO2	4-nitrosophenol	104-91-6	25.00	1.3360	2
6626	C6H4O5	2,4-furandicarboxylic acid	4282-28-4	25.00	1.4600	2	6821	C6H5NO2	2-pyridinecarboxylic acid	98-98-6	25.00	1.3360	2
6627	C6H4O5	2,5-furandicarboxylic acid	3238-40-2	20.00	1.7400	1	6822	C6H5NO2	3-pyridinecarboxylic acid	59-67-6	20.00	1.4730	1
6630	C6H4S4	tetrathiafulvalene	31366-25-3	25.00	1.4485	2	6823	C6H5NO2	4-pyridinecarboxylic acid	55-22-1	25.00	1.3360	2
6656	C6H5Br	bromobenzene	108-86-1	-180.00	1.6539	1	6825	C6H5NO2S	1,2-dihydro-2-thioxo-3-pyridinecarboxylic ac*	38521-46-9	25.00	1.3566	2
6657	C6H5BrClN	4-bromo-2-chloroaniline	38762-41-3	25.00	1.6567	2	6826	C6H5NO2S	4-nitrothiophenol	1849-36-1	25.00	1.3566	2
6662	C6H5BrFN	4-bromo-2-fluoroaniline	367-24-8	25.00	1.6196	2	6827	C6H5NO2S	5-nitrothiophenol	---	25.00	1.3566	2
6663	C6H5BrFN	4-bromo-3-fluoroaniline	656-65-5	25.00	1.6196	2	6829	C6H5NO3	1,6-dihydro-6-oxo-3-pyridinecarboxylic acid	5006-66-6	53.33	1.3510	2
6665	C6H5BrN2O2	2-bromo-6-nitroaniline	59255-95-7	25.00	1.9880	1	6830	C6H5NO3	o-nitrophenol	88-75-5	40.00	1.2942	1
6666	C6H5BrN2O2	4-bromo-2-nitroaniline	875-51-4	25.00	1.7656	2	6831	C6H5NO3	m-nitrophenol	554-84-7	100.00	1.2797	1
6668	C6H5BrN2O2	2-bromo-5-nitroaniline	10403-47-1	25.00	1.7656	2	6832	C6H5NO3	p-nitrophenol	100-02-7	20.00	1.4790	1
6669	C6H5BrN2O2	4-bromo-3-nitroaniline	53324-38-2	25.00	1.7656	2	6833	C6H5NO3	3-pyridinecarboxylic acid 1-oxide	2398-81-4	53.33	1.3510	2
6672	C6H5BrO	m-bromophenol	591-20-8	17.50	1.6662	2	6834	C6H5NO3	2-hydroxynicotinic acid	609-71-2	53.33	1.3510	2
6673	C6H5BrO	p-bromophenol	106-41-2	15.00	1.8400	1	6835	C6H5NO3	3-hydroxy-2-pyridinecarboxylic acid	874-24-8	53.33	1.3510	2
6675	C6H5BrOS	1-(5-bromo-2-thienyl)ethanone	5370-25-2	25.00	1.6489	2	6836	C6H5NO3	isonicotinic acid N-oxide	13602-12-5	53.33	1.3510	2
6676	C6H5BrO2	2-bromo-1,4-benzenediol	583-69-7	25.00	1.6519	2	6837	C6H5NO3	picolinic acid N-oxide	824-40-8	53.33	1.3510	2
6677	C6H5BrO2	4-bromo-1,3-benzenediol	6626-15-9	25.00	1.6519	2	6838	C6H5NO4	citrazinic acid	99-11-6	25.00	1.4094	2
6679	C6H5BrS	4-bromobenzenethiol	106-53-6	83.00	1.5260	1	6839	C6H5NO4	4-nitro-1,3-benzenediol	3613-07-3	25.00	1.4094	2
6683	C6H5Br2N	2,4-dibromoaniline	615-57-6	20.00	2.2600	1	6840	C6H5NO4	4-nitrocatechol	3316-09-4	25.00	1.4094	2
6684	C6H5Br2N	2,6-dibromoaniline	608-30-0	25.00	1.9714	2	6841	C6H5NO4	2-nitroresorcinol	601-89-8	25.00	1.4094	2
6685	C6H5Br2N	3,4-dibromoaniline	615-55-4	25.00	1.9714	2	6843	C6H5NO5	methyl 5-nitro-2-furoate	1874-23-3	25.00	1.4793	2
6686	C6H5Br2N	3,5-dibromoaniline	626-40-4	25.00	1.9714	2	6844	C6H5NO5S	4-nitrobenzenesulfonic acid	138-42-1	25.00	1.5482	2
6687	C6H5Br2N	2,5-dibromoaniline	3638-73-1	25.00	1.9714	2	6845	C6H5NO5S	3-nitrobenzenesulfonic acid	98-47-5	25.00	1.5482	2
6690	C6H5Br2NO	4-amino-2,6-dibromophenol	609-21-2	25.00	2.0084	2	6849	C6H5N3	1H-benzotriazole	95-14-7	25.00	1.2398	2
6692	C6H5Cl	chlorobenzene	108-90-7	-45.20	1.3732	2	6850	C6H5N3	4-azabenzimidazole	273-21-2	25.00	1.2398	2
6693	C6H5ClFN	2-chloro-6-fluoroaniline	363-51-9	23.00	1.3160	1	6851	C6H5N3O	1-hydroxybenzotriazole	2592-95-2	25.00	1.3287	2
6697	C6H5ClFN	3-chloro-4-fluoroaniline	367-21-5	24.60	1.2912	2	6852	C6H5N3O	1-hydroxybenzotriazole hydrate	123333-53-9	25.00	1.3287	2
6699	C6H5ClFNO2S	3-amino-4-chlorobenzenesulfonyl fluoride	368-72-9	25.00	1.4819	2	6856	C6H5N3O4	2,3-dinitroaniline	602-03-9	50.00	1.6460	1
6704	C6H5ClIN	3-chloro-4-iodoaniline	135050-44-1	25.00	1.9011	2	6857	C6H5N3O4	2,4-dinitroaniline	97-02-9	14.00	1.6150	1
6705	C6H5ClIN	2-chloro-4-iodoaniline	42016-93-3	25.00	1.9011	2	6858	C6H5N3O4	2,5-dinitroaniline	619-18-1	38.00	1.6207	2
6708	C6H5ClN2O	2-chloronicotinamide	10366-35-5	25.00	1.3657	2	6859	C6H5N3O4	2,6-dinitroaniline	606-22-4	38.00	1.6207	2
6709	C6H5ClN2O2	5-chloro-2-nitroaniline	1635-61-6	25.00	1.4350	2	6860	C6H5N3O4	3,5-dinitroaniline	618-87-1	50.00	1.6010	1
6710	C6H5ClN2O2	2-chloro-4-methyl-5-nitropyridine	23056-33-9	25.00	1.4350	2	6862	C6H5N3O5	2-amino-4,6-dinitrophenol	96-91-3	25.00	1.6037	2
6711	C6H5ClN2O2	2-chloro-4-nitroaniline	121-87-9	25.00	1.0000	1	6863	C6H5N3O5	o-(2,4-dinitrophenyl)hydroxylamine	17508-17-7	25.00	1.6037	2
6712	C6H5ClN2O2	2-chloro-5-nitroaniline	6283-25-6	25.00	1.4350	2	6864	C6H5N5O	2-amino-4-hydroxypteridine	2236-60-4	25.00	1.4805	2
6713	C6H5ClN2O2	4-chloro-3-nitroaniline	635-22-3	25.00	1.4350	2	6865	C6H5N5O2	xanthopterin	119-44-8	25.00	1.5590	1
6714	C6H5ClN2O2	4-chloro-2-nitroaniline	89-63-4	25.00	1.4350	2	6876	C6H6	benzene	71-43-2	5.53	1.0124	1
6720	C6H5ClO	m-chlorophenol	108-43-0	25.00	1.2565	1	6880	C6H6	1,4-hexadiyne	10420-91-4	25.00	0.8250	1
6721	C6H5ClO	o-chlorophenol	95-57-8	8.85	1.4913	2	6882	C6H6	2,4-hexadiyne	2809-69-0	21.67	0.8155	2
6722	C6H5ClO	p-chlorophenol	106-48-9	42.85	1.4000	2	6883	C6H6	1,3-hexadiyne	4447-21-6	21.67	0.8155	2
6723	C6H5ClOS	benzenesulfinyl chloride	4972-29-6	25.00	1.3469	1	6905	C6H6BrN	o-bromoaniline	615-36-1	20.00	1.5780	1
6724	C6H5ClOS	2-acetyl-5-chlorothiophene	6310-09-4	25.00	1.3240	2	6907	C6H6BrN	p-bromoaniline	106-40-1	100.00	1.4970	1
6726	C6H5ClO2	3-chloro-1,2-benzenediol	4018-65-9	25.00	1.2934	2	6909	C6H6BrN	2-bromo-5-methylpyridine	3510-66-5	35.83	1.5426	2
6727	C6H5ClO2	4-chloro-1,2-benzenediol	2138-22-9	25.00	1.2934	2	6917	C6H6Br2N2	2-bromo-2-(bromomethyl)pentanedinitrile	35691-65-7	25.00	1.9549	2
6728	C6H5ClO2	5-chloro-1,3-benzenediol	52780-23-1	25.00	1.2934	2	6920	C6H6ClFN2	4-chloro-5-fluoro-o-phenylenediamine	132942-81-5	25.00	1.3011	2
6729	C6H5ClO2	2-chloro-1,4-benzenediol	615-67-8	25.00	1.2934	2	6923	C6H6ClN	m-chloroaniline	108-42-9	-10.40	1.4671	2
6730	C6H5ClO2	4-chlororesorcinol	95-88-5	25.00	1.2934	2	6924	C6H6ClN	o-chloroaniline	95-51-2	-2.10	1.4416	2
6737	C6H5ClS	4-chlorobenzenethiol	106-54-7	20.00	1.1911	1	6925	C6H6ClN	p-chloroaniline	106-47-8	19.00	1.4288	1
6739	C6H5ClS2	4-chloro-1,3-benzenedithiol	58593-78-5	25.00	1.3930	1	6926	C6H6ClN	2-chloro-4-methylpyridine	3678-62-4	20.00	1.1459	1
6740	C6H5Cl2N	3,4-dichloroaniline	95-76-1	71.50	1.5700	2	6930	C6H6ClNO	2-amino-4-chlorophenol	95-85-2	25.00	1.2495	2
6742	C6H5Cl2N	2,4-dichloroaniline	554-00-7	20.00	1.5670	1	6932	C6H6ClNO	2-amino-5-chlorophenol	28443-50-7	25.00	1.2495	2
6743	C6H5Cl2N	2,5-dichloroaniline	95-82-9	25.00	1.3283	2	6934	C6H6ClNO2S	4-chlorobenzenesulfonamide	98-64-6	25.00	1.4083	2
6744	C6H5Cl2N	2,6-dichloroaniline	608-31-1	25.00	1.3283	2	6937	C6H6ClN2O4	4,5-dichloro-1,3-benzenedisulfonamide	120-97-8	25.00	1.5116	2
6745	C6H5Cl2N	3,5-dichloroaniline	626-43-7	25.00	1.3283	2	6941	C6H6Cl2N2	2,5-dichloro-4-phenylenediamine	20103-09-7	25.00	1.3542	2
6748	C6H5Cl2NO	2-amino-4,6-dichlorophenol	527-62-8	25.00	1.3953	2	6942	C6H6Cl2N2	4,5-dichloro-o-phenylenediamine	5348-42-5	25.00	1.3542	2
6749	C6H5Cl2NO	4-amino-2,6-dichlorophenol	5930-28-9	25.00	1.3953	2	6943	C6H6Cl2N2	2,5-dichlorophenylhydrazine	305-15-7	25.00	1.3542	2
6756	C6H5Cl2O2P	phenyl dichlorophosphate	770-12-7	25.00	1.4120	1	6944	C6H6Cl2N2	1,4-diamino-2,6-dichlorobenzene	609-20-1	25.00	1.3542	2
6762	C6H5Cl3N2	2,4,6-trichlorophenylhydrazine	5329-12-4	25.00	1.4746	2	6948	C6H6Cl6	1,2,3,4,5,6-hexachlorocyclohexane, (1alpha,2*	58-89-9	21.33	1.8767	2
6763	C6H5Cl3N2O2S	2,4,5-trichlorobenzenesulfonyl hydrazide	6655-72-7	25.00	1.6189	2	6950	C6H6Cl6	1,2,3,4,5,6-hexachlorocyclohexane, (1alpha,2*	319-86-8	21.33	1.8767	2
6764	C6H5Cl3Si	trichlorophenylsilane	98-13-5	-39.95	1.6226	2	6951	C6H6Cl6	1,2,3,4,5,6-hexachlorocyclohexane, (1alpha,2*	60291-32-9	20.00	1.8700	1
6769	C6H5F	fluorobenzene	462-06-6	-42.21	1.2782	2	6952	C6H6Cl6	1,2,3,4,5,6-hexachloro-3-hexene	1725-74-2	21.33	1.8767	2
6770	C6H5FN2O2	4-fluoro-3-nitroaniline	364-76-1	25.00	1.3822	2	6953	C6H6Cl6	a-hexachlorocyclohexane	319-84-6	21.33	1.8767	2
6771	C6H5FN2O2	4-fluoro-2-nitroaniline	364-78-3	25.00	1.3822	2	6954	C6H6Cl6	hexachlorocyclohexane; (mixed isomers)	608-73-1	25.00	1.8700	1
6772	C6H5FN2O2	2-fluoro-5-nitroaniline	369-36-8	25.00	1.3822	2	6959	C6H6FNO2S	4-aminobenzenesulfonyl fluoride	98-62-4	25.00	1.3604	2
6775	C6H5FO	4-fluorophenol	371-41-5	56.00	1.1889	1	6963	C6H6F8O2	2,2,3,3,4,4,5,5-octafluoro-1,6-hexanediol	355-74-8	25.00	1.4712	2
6776	C6H5FO2	3-fluorocatechol	363-52-0	25.00	1.5140	1	6972	C6H6IN	o-iodoaniline	615-43-0	25.00	1.8155	2
6782	C6H5F2N	3,5-difluoroaniline	372-39-4	25.00	1.2662	2	6973	C6H6IN	m-iodoaniline	626-01-7	25.00	1.8155	2
6783	C6H5F2N	3,4-difluoroaniline	3863-11-4	25.00	1.3020	1	6974	C6H6IN	p-iodoaniline	540-37-4	25.00	1.8155	2
6788	C6H5F4NO3S	N-fluoropyridinium triflate	107263-95-6	25.00	1.5493	2	6975	C6H6INO	6-iodo-2-picolin-5-ol	23003-30-7	25.00	1.8615	2
6795	C6H5I	iodobenzene	591-50-4	-31.32	1.9041	1	6979	C6H6N2	cis-dicyano-1-butene	2141-58-4	-24.15	1.1992	2
6797	C6H5IO	o-iodophenol	533-58-4	80.00	1.8757	1	6980	C6H6N2	trans-dicyano-1-butene	2141-59-5	-13.00	1.2841	2
6798	C6H5IO	m-iodophenol	626-02-8	96.00	1.8665	2	6981	C6H6N2	trans-1,4-dicyano-2-butene	1119-85-3	75.85	1.1250	2
6799	C6H5IO	p-iodophenol	540-38-5	112.00	1.8573	1	6987	C6H6N2O	(ethoxymethylene)propanedinitrile	123-06-8	25.00	1.2538	2
6800	C6H5IO	iodosobenzene	536-80-1	96.00	1.8665	2	6988	C6H6N2O	4-nitrosoaniline	659-49-4	25.00	1.2538	2
6801	C6H5IO	iodosylbenzene	696-33-3	96.00	1.8665	2	6989	C6H6N2O	2-pyridinecarboxaldehyde oxime	873-69-8	25.00	1.2538	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
6990	C6H6N2O	3-pyridinecarboxamide	98-92-0	25.00	1.4000	1	7116	C6H6O6	DL-isocitric acid lactone	4702-32-3	25.00	1.4325	2
6991	C6H6N2O	acetylpyrazine	22047-25-2	25.00	1.1075	1	7117	C6H6O6	aconitic acid	499-12-7	25.00	1.4325	2
6992	C6H6N2O	isonicotinamide	1453-82-3	25.00	1.2538	2	7118	C6H6O7S2	4-hydroxy-1,3-benzenedisulfonic acid	96-77-5	25.00	1.6062	2
6994	C6H6N2O	3-pyridinealdoxime	1193-92-6	25.00	1.2538	2	7121	C6H6S	phenyl mercaptan	108-98-5	-14.89	1.3001	2
6995	C6H6N2O	4-pyridinealdoxime	696-54-8	25.00	1.2538	2	7122	C6H6S2	1,2-benzenedithiol	17534-15-5	25.00	1.1956	2
6996	C6H6N2O2	m-nitroaniline	99-09-2	25.00	1.4300	1	7123	C6H6S2	1,3-benzenedithiol	626-04-0	25.00	1.1956	2
6997	C6H6N2O2	o-nitroaniline	88-74-4	20.00	1.4400	1	7131	C6H7BrN2	(4-bromophenyl)hydrazine	589-21-9	25.00	1.5497	2
6998	C6H6N2O2	p-nitroaniline	100-01-6	25.00	1.4239	1	7132	C6H7BrN2	2-amino-3-bromo-5-methylpyridine	17282-00-7	25.00	1.5497	2
6999	C6H6N2O2	6-amino-3-pyridinecarboxylic acid	3167-49-5	25.00	0.9013	2	7134	C6H7BrN2	2-amino-5-bromo-3-picoline	3430-21-5	25.00	1.5497	2
7000	C6H6N2O2	N-nitroaniline	645-55-6	25.00	0.9013	2	7139	C6H7ClIN	2-chloro-1-methylpyridinium iodide	14338-32-0	25.00	1.7949	2
7002	C6H6N2O2	2-aminonicotinic acid	5345-47-1	25.00	0.9013	2	7140	C6H7ClN2	4-chloro-1,2-benzenediamine	95-83-0	25.00	1.1775	2
7004	C6H6N2O2	a,a-dicyanoethyl acetate	7790-01-4	25.00	0.9013	2	7147	C6H7ClN2	3-chloro-4-aminoaniline	615-66-7	25.00	1.1775	2
7005	C6H6N2O2	5-methyl-2-pyrazinecarboxylic acid	5521-55-1	25.00	0.9013	2	7149	C6H7ClN2	4-chloro-m-phenylenediamine	5131-60-2	25.00	1.1775	2
7006	C6H6N2O2	nicotinamide-N-oxide	1986-81-8	25.00	0.9013	2	7150	C6H7ClN2O2	6-chloro-1,3-dimethyluracil	6972-27-6	25.00	1.3505	2
7007	C6H6N2O2	urocanic acid	104-98-3	25.00	0.9013	2	7158	C6H7Cl2N	2-chloroaniline hydrochloride	137-04-2	18.00	1.5050	1
7008	C6H6N2O2	dioxime-p-benzoquinone	105-11-3	25.00	0.9013	2	7160	C6H7Cl3N2	2,6-dichlorophenylhydrazine hydrochloride	50709-36-9	25.00	1.4006	2
7009	C6H6N2O2S	(2-pyrimidylthio)acetic acid	88768-45-0	25.00	1.3821	2	7169	C6H7KO2	potassium trans,trans-2,4-hexadienoate	24634-61-5	25.00	1.3610	1
7010	C6H6N2O3	2-amino-3-nitrophenol	603-85-0	25.00	1.3617	2	7170	C6H7KO2	potassium sorbate	590-00-1	25.00	1.3630	1
7011	C6H6N2O3	4-amino-2-nitrophenol	119-34-6	25.00	1.3617	2	7172	C6H7N	aniline	62-53-3	-6.02	1.2200	2
7012	C6H6N2O3	2-amino-5-nitrophenol	121-88-0	25.00	1.3617	2	7173	C6H7N	2-methylpyridine	109-06-8	-66.71	1.1920	2
7013	C6H6N2O3	4-amino-3-nitrophenol	610-81-1	25.00	1.3617	2	7174	C6H7N	3-methylpyridine	108-99-6	-18.14	1.1548	2
7014	C6H6N2O3	2-amino-4-nitrophenol	99-57-0	25.00	1.3617	2	7175	C6H7N	4-methylpyridine	108-89-4	3.65	1.1362	2
7015	C6H6N2O3	3-hydroxy-6-methyl-2-nitropyridine	15128-90-2	25.00	1.3617	2	7182	C6H7NO	2-aminophenol	95-55-6	25.00	1.3280	1
7016	C6H6N2O3	2-hydroxy-4-methyl-3-nitropyridine	21901-18-8	25.00	1.3617	2	7183	C6H7NO	3-aminophenol	591-27-5	22.86	1.1195	2
7017	C6H6N2O3	2-hydroxy-4-methyl-5-nitropyridine	21901-41-7	25.00	1.3617	2	7184	C6H7NO	4-aminophenol	123-30-8	22.86	1.1195	2
7021	C6H6N2O3	2-methoxy-5-nitropyridine	5446-92-4	25.00	1.3617	2	7186	C6H7NO	2-methylpyridine-1-oxide	931-19-1	22.86	1.1195	2
7022	C6H6N2O3	3-methyl-4-nitropyridine N-oxide	1074-98-2	25.00	1.3617	2	7187	C6H7NO	3-methylpyridine-1-oxide	1003-73-2	22.86	1.1195	2
7025	C6H6N2O3	2-methyl-4-nitropyridine-1-oxide	5470-66-6	25.00	1.3617	2	7188	C6H7NO	1-methyl-2(1H)-pyridinone	694-85-9	20.00	1.1120	1
7026	C6H6N2O4	methyl orotate	6153-44-2	25.00	1.4320	2	7189	C6H7NO	3-methyl-2(1H)-pyridinone	1003-56-1	22.86	1.1195	2
7027	C6H6N2O4S	3-nitrobenzenesulfonamide	121-52-8	25.00	1.5048	2	7190	C6H7NO	4-methyl-2(1H)-pyridinone	13466-41-6	22.86	1.1195	2
7028	C6H6N2O4S	2-nitrobenzenesulfonamide	5455-59-4	25.00	1.5048	2	7191	C6H7NO	phenylhydroxylamine	100-65-2	22.86	1.1195	2
7029	C6H6N2O4S	4-nitrobenzenesulfonamide	6325-93-5	25.00	1.5048	2	7194	C6H7NO	4-pyridinemethanol	586-95-8	22.86	1.1195	2
7034	C6H6N2O6S	2-hydroxy-5-nitrometanilic acid	96-67-3	25.00	1.6085	2	7195	C6H7NO	1-(1H-pyrrol-2-yl)ethanone	1072-83-9	22.86	1.1195	2
7035	C6H6N2S	thionicotinamide	4621-66-3	25.00	1.2349	2	7196	C6H7NO	(±)-2-azabicyclo[2.2.1]hept-5-en-3-one	49805-30-3	22.86	1.1195	2
7037	C6H6N4	1-aminobenzotriazole	1614-12-6	25.00	1.2795	2	7197	C6H7NO	3-hydroxy-2-methylpyridine	1121-25-1	22.86	1.1195	2
7038	C6H6N4	6-methylpurine	2004-03-7	25.00	1.2795	2	7198	C6H7NO	3-hydroxy-6-methylpyridine	1121-78-4	22.86	1.1195	2
7039	C6H6N4	nitrilotrisacetonitrile	7327-60-8	126.00	1.2958	2	7199	C6H7NO	2-hydroxy-6-methylpyridine	3279-76-3	22.86	1.1195	2
7040	C6H6N4O	6-methoxypurine	1074-89-1	25.00	1.3593	2	7205	C6H7NOS2	3-allylrhodanine	1457-47-2	25.00	1.1350	1
7041	C6H6N4O	5-methyl-s-triazolo[1,5-a]pyrimidin-7-ol	2503-56-2	25.00	1.3593	2	7206	C6H7NO2	1-ethyl-1H-pyrrole-2,5-dione	128-53-0	25.00	1.0823	2
7043	C6H6N4O2	2,3-pyrazinedicarboxamide	6164-78-9	25.00	1.4314	2	7209	C6H7NO2	methyl 1-pyrrolecarboxylate	4277-63-8	25.00	1.1130	1
7045	C6H6N4O3	4,9-dihydro-3-methyl-1H-purine-2,6,8(3H)-tri*	605-99-2	25.00	1.6104	1	7210	C6H7NO2	N-methylpyrrole-2-carboxylic acid	6973-60-0	25.00	1.0823	2
7046	C6H6N4O3	7,9-dihydro-7-methyl-1H-purine-2,6,8(3H)-tri*	612-37-3	25.00	1.7060	1	7211	C6H7NO2	4-pyridylcarbinol N-oxide	22346-75-4	25.00	1.0823	2
7048	C6H6N4O3S	nitrothiazole	61-57-4	25.00	1.5607	2	7213	C6H7NO2S	benzenesulfonamide	98-10-2	25.00	1.2739	2
7049	C6H6N4O4	(2,4-dinitrophenyl)hydrazine	119-26-6	25.00	1.5565	2	7214	C6H7NO2S	methyl 3-amino-2-thiophenecarboxylate	22288-78-4	25.00	1.2739	2
7050	C6H6N4O4	nitrofurazone	59-87-0	25.00	1.5565	2	7215	C6H7NO3	3,5-dimethylisoxazole-4-carboxylic acid	2510-36-3	25.00	1.2440	2
7053	C6H6N4S	6-(methylthio)purine	50-66-8	25.00	1.3805	2	7216	C6H7NO3S	o-aminobenzenesulfonic acid	88-21-1	25.00	1.3425	2
7057	C6H6O	phenol	108-95-2	40.91	1.1320	1	7218	C6H7NO3S	p-aminobenzenesulfonic acid	121-57-3	25.00	1.4850	1
7065	C6H6OS	4-mercaptophenol	637-89-8	25.00	1.1285	1	7219	C6H7NO3S	N-hydroxybenzenesulfonamide	599-71-3	25.00	1.3425	2
7068	C6H6OS	3-acetylthiophene	1468-83-3	23.75	1.1759	2	7222	C6H7NS	2-aminobenzenethiol	137-07-5	25.00	1.1360	2
7070	C6H6O2	pyrocatechol	120-80-9	20.00	1.3368	1	7223	C6H7NS	4-aminobenzenethiol	1193-02-8	25.00	1.1360	2
7071	C6H6O2	resorcinol	108-46-3	20.00	1.2711	1	7228	C6H7N3	(dimethylaminomethylene)malononitrile	16849-88-0	25.00	1.1527	2
7072	C6H6O2	p-hydroquinone	123-31-9	20.00	1.3300	1	7229	C6H7N3O	isoniazid	54-85-3	25.00	1.2387	2
7073	C6H6O2	1-(2-furanyl)ethanone	1192-62-7	20.00	1.0980	1	7230	C6H7N3O	nicotinic acid hydrazide	553-53-7	25.00	1.2387	2
7076	C6H6O2S	benzenesulfinic acid	618-41-7	22.50	1.3650	2	7231	C6H7N3O	6-aminonicotinamide	329-89-5	25.00	1.2387	2
7077	C6H6O2S	1-(3-hydroxy-2-thienyl)ethanone	5556-07-0	20.00	1.5000	1	7234	C6H7N3O2	4-nitro-1,2-benzenediamine	99-56-9	25.00	1.3165	2
7080	C6H6O2S	5-methyl-2-thiophenecarboxylic acid	1918-79-2	22.50	1.3650	2	7235	C6H7N3O2	(4-nitrophenyl)hydrazine	100-16-3	25.00	1.3165	2
7081	C6H6O2S	3-methyl-2-thiophenecarboxylic acid	23806-24-8	22.50	1.3650	2	7236	C6H7N3O2	2-amino-4-methyl-5-nitropyridine	21901-40-6	25.00	1.3165	2
7082	C6H6O2S	2-thiopheneacetic acid	1918-77-0	22.50	1.3650	2	7237	C6H7N3O2	2-amino-4-methyl-3-nitropyridine	6635-86-5	25.00	1.3165	2
7083	C6H6O2S	3-thiopheneacetic acid	6964-21-2	22.50	1.3650	2	7241	C6H7N3O2	3-nitro-1,2-phenylenediamine	3694-52-8	25.00	1.3165	2
7084	C6H6O2Se	benzeneseleninic acid	6996-92-5	20.00	1.9300	1	7242	C6H7N3O2	2-nitro-p-phenylenediamine	5307-14-2	25.00	1.3165	2
7085	C6H6O3	1,2,3-benzenetriol	87-66-1	4.00	1.4531	1	7243	C6H7N3O2	2-nitrophenylhydrazine	3034-19-3	25.00	1.3165	2
7086	C6H6O3	1,2,4-benzenetriol	533-73-3	35.17	1.2630	2	7247	C6H7N3O3S	2-(2-aminothiazole-4-yl)-2-methoxyiminoaceti*	65872-41-5	25.00	1.4633	2
7087	C6H6O3	1,3,5-benzenetriol	108-73-6	25.00	1.4600	1	7248	C6H7N5	7-methyladenine	935-69-3	25.00	1.3131	2
7088	C6H6O3	3,4-dimethyl-2,5-furandione	766-39-2	100.00	1.1070	1	7249	C6H7N5	1-methyladenine	5142-22-3	25.00	1.3131	2
7089	C6H6O3	2-furanacetic acid	2745-26-8	35.17	1.2630	2	7250	C6H7N5	9-methyladenine	700-00-5	25.00	1.3131	2
7090	C6H6O3	5-(hydroxymethyl)-2-furancarboxaldehyde	67-47-0	25.00	1.2062	1	7252	C6H7N5O	2-amino-1,7-dihydro-7-methyl-6H-purin-6-one	578-76-7	25.00	1.3855	2
7091	C6H6O3	3-hydroxy-2-methyl-4H-pyran-4-one	118-71-8	35.17	1.2630	2	7256	C6H7N5O5	5,6-dinitro-2-dimethylaminopyrimidinone	---	25.00	1.6175	2
7094	C6H6O3	5-methyl-2-furancarboxylic acid	1917-15-3	35.17	1.2630	2	7257	C6H7N5S	2-amino-6-methylmercaptopurine	1198-47-6	25.00	1.4031	2
7095	C6H6O3	5-methyl-3-furancarboxylic acid	21984-93-0	35.17	1.2630	2	7264	C6H7O3P	phenylphosphonic acid	1571-33-1	25.00	1.4750	1
7096	C6H6O3	4-hydroxy-6-methyl-2-pyrone	675-10-5	35.17	1.2630	2	7267	C6H8	1,3-cyclohexadiene	592-57-4	-112.15	1.1378	2
7097	C6H6O3	3-methyl-2-furoic acid	4412-96-8	35.17	1.2630	2	7268	C6H8	methylcyclopentadiene	26519-91-5	-123.15	1.0978	2
7098	C6H6O3	2-methyl-3-furoic acid	6947-94-0	35.17	1.2630	2	7269	C6H8	1,4-cyclohexadiene	628-41-1	-49.20	1.0737	2
7105	C6H6O4	5-hydroxy-2-(hydroxymethyl)-4H-pyran-4-one	501-30-4	25.00	1.2883	2	7280	C6H8AsNO3	(4-aminophenyl)arsonic acid	98-50-0	10.00	1.9571	1
7106	C6H6O4	cis,cis-muconic acid	1119-72-8	25.00	1.2883	2	7291	C6H8ClN	aniline hydrochloride	142-04-1	4.00	1.2215	1
7107	C6H6O4	3,4-dimethoxy-3-cyclobutene-1,2-dione	5222-73-1	25.00	1.2883	2	7298	C6H8ClN3O4S2	4-amino-6-chloro-1,3-benzenedisulfonamide	121-30-2	25.00	1.5840	2
7108	C6H6O4	DL-3-methylenecyclopropane-trans-1,2-dicarbo*	499-02-5	25.00	1.2883	2	7304	C6H8Cl2O3	3,3-dichloro-2,2-dihydroxycyclohexanone	83878-01-7	25.00	1.3440	2
7109	C6H6O4	trans,trans-muconic acid	3588-17-8	25.00	1.2883	2	7306	C6H8Cl2O4	bis(2-chloroethyl) oxalate	7208-92-6	25.00	1.3990	2
7111	C6H6O4S	2-hydroxybenzenesulfonic acid	609-46-1	25.00	1.3838	2	7307	C6H8Cl2O4	ethylene glycol bis(chloroacetate)	6941-69-1	25.00	1.3990	2
7114	C6H6O6	cis-1-propene-1,2,3-tricarboxylic acid	585-84-2	25.00	1.4325	2	7311	C6H8Cl4O	2,2,6,6-tetrachlorocyclohexanol	56207-45-5	25.00	1.3895	2
7115	C6H6O6	trans-1-propene-1,2,3-tricarboxylic acid	4023-65-8	25.00	1.4325	2	7312	C6H8F3NO2	ethyl 3-amino-4,4,4-trifluorocrotonate	372-29-2	25.00	1.2450	1

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
7316	C6H8N2	adiponitrile	111-69-3	2.40	1.1463	2	7579	C6H9O6Sb	antimony(iii) acetate	3643-76-3	25.00	1.2200	1
7317	C6H8N2	methylglutaronitrile	4553-62-2	-45.00	1.1896	2	7582	C6H9N3	1,2,3-benzenetriamine	608-32-2	25.00	1.0793	2
7318	C6H8N2	m-phenylenediamine	108-45-2	65.95	1.2869	2	7583	C6H9N3	1,2,4-benzenetriamine	615-71-4	25.00	1.0793	2
7319	C6H8N2	o-phenylenediamine	95-54-5	103.80	1.2653	2	7584	C6H9N3	2,6-dimethyl-4-pyrimidinamine	461-98-3	25.00	1.0793	2
7320	C6H8N2	p-phenylenediamine	106-50-3	139.85	1.2328	2	7585	C6H9N3	4,5-dimethyl-2-pyrimidinamine	1193-74-4	25.00	1.0793	2
7321	C6H8N2	phenylhydrazine	100-63-0	19.20	1.1700	2	7586	C6H9N3	4,6-dimethylpyrimidinamine	767-15-7	25.00	1.0793	2
7324	C6H8N2	2,6-dimethylpyrazine	108-50-9	50.00	0.9647	1	7594	C6H9N3O	2-amino-4-methoxy-6-methylpyrimidine	7749-47-5	25.00	1.1623	2
7329	C6H8N2	3-methyl-2-pyridinamine	1603-40-3	27.57	1.0275	2	7595	C6H9N3O	3,5-dimethylpyrazole-1-carboxamide	934-48-5	25.00	1.1623	2
7330	C6H8N2	4-methyl-2-pyridinamine	695-34-1	27.57	1.0275	2	7596	C6H9N3O2	cupferron	135-20-6	25.00	1.2379	2
7331	C6H8N2	4-methyl-3-pyridinamine	3430-27-1	27.57	1.0275	2	7597	C6H9N3O2	L-histidine	71-00-1	25.00	1.2379	2
7332	C6H8N2	6-methyl-2-pyridinamine	1824-81-3	27.57	1.0275	2	7598	C6H9N3O2	3-amino-4-carbethoxypyrazole	6994-25-8	25.00	1.2379	2
7334	C6H8N2	N-methylpyridinamine	1121-58-0	27.57	1.0275	2	7599	C6H9N3O2	2-amino-4,6-dimethoxypyrimidine	36315-01-2	25.00	1.2379	2
7339	C6H8N2	6-amino-3-picoline	1603-41-4	27.57	1.0275	2	7600	C6H9N3O2	D-histidine	351-50-8	25.00	1.2379	2
7342	C6H8N2	4-amino-3-picoline	1990-90-5	27.57	1.0275	2	7601	C6H9N3O2	DL-histidine	4998-57-6	25.00	1.2379	2
7343	C6H8N2O	bis(cyanoethyl) ether	1656-48-0	-26.30	1.2663	2	7604	C6H9N3O3	metronidazole	443-48-1	25.00	1.3070	2
7344	C6H8N2O	2,4-diaminophenol	95-86-3	23.33	1.0930	2	7605	C6H9N3O3	1,3,5-trimethyl-1,3,5-triazine-2,4,6(1H,3H,5*	827-16-7	25.00	1.3070	2
7345	C6H8N2O	6-methoxy-3-pyridinamine	6628-77-9	23.33	1.0930	2	7606	C6H9N3O3	2,4,6-trimethoxy-1,3,5-triazine	877-89-4	25.00	1.3070	2
7347	C6H8N2O	4,6-dimethyl-2-hydroxypyrimidine	108-79-2	23.33	1.0930	2	7609	C6H9N3O3	6-diazo-5-oxonorleucine	157-03-9	25.00	1.3070	2
7348	C6H8N2O	2,4-dimethyl-6-hydroxypyrimidine	6622-92-0	23.33	1.0930	2	7619	C6H10	1-methylcyclopentene	693-89-0	-126.53	1.0515	2
7351	C6H8N2O2	2,4-dihydroxy-5,6-dimethylpyrimidine	26305-13-5	25.00	1.2020	2	7620	C6H10	3-methylcyclopentene	1120-62-3	-158.15	1.0597	2
7354	C6H8N2O2	ethyl 4-pyrazolecarboxylate	37622-90-5	25.00	1.2020	2	7621	C6H10	4-methylcyclopentene	1759-81-5	-160.85	1.0843	2
7355	C6H8N2O2	1,3-dimethyl-2,4(1H,3H)-pyrimidinedione	874-14-6	25.00	1.2020	2	7622	C6H10	cyclohexene	110-83-8	-103.48	1.0761	2
7357	C6H8N2O2S	4-aminobenzenesulfonamide	63-74-1	25.00	1.0800	1	7623	C6H10	1,2-hexadiene	592-44-9	-128.15	0.9857	2
7358	C6H8N2O2S	benzenesulfonyl hydrazide	80-17-1	25.00	1.3031	2	7626	C6H10	1,4-hexadiene	592-45-0	-138.70	0.9775	2
7359	C6H8N2O2S	m-aminobenzenesulfonamide	98-18-0	25.00	1.3031	2	7629	C6H10	1,5-hexadiene	592-42-7	-140.68	0.9611	2
7360	C6H8N2O3	aniline nitrate	542-15-4	4.00	1.3560	1	7632	C6H10	cis-2,trans-4-hexadiene	5194-50-3	-96.10	0.9611	2
7363	C6H8N2O3S	4-hydrazinobenzenesulfonic acid	98-71-5	25.00	1.3661	2	7634	C6H10	trans-2,trans-4-hexadiene	5194-51-4	-44.90	0.9036	2
7365	C6H8N2O3S	2,5-diaminobenzenesulfonic acid	88-45-9	25.00	1.3661	2	7644	C6H10	3-methyl-1,4-pentadiene	1115-08-8	-141.15	0.9761	2
7368	C6H8N2O8	cardis	87-33-2	25.00	1.5713	2	7647	C6H10	2,3-dimethyl-1,3-butadiene	513-81-5	-76.00	0.9447	2
7370	C6H8N2S	4,6-dimethyl-2-mercaptopyrimidine	22325-27-5	25.00	1.1595	2	7648	C6H10	1-hexyne	693-02-7	-131.90	0.9857	2
7374	C6H8N4O3S	1-ethyl-3-(5-nitro-2-thiazolyl) urea	139-94-6	25.00	1.4783	2	7649	C6H10	2-hexyne	764-35-2	-89.50	0.9611	2
7376	C6H8N4O4	1-methyl-5-nitroimidazole-2-methanol carbama*	7681-76-7	25.00	1.4684	2	7650	C6H10	3-hexyne	928-49-4	-103.10	0.9611	2
7379	C6H8N6O18	D-mannitol hexanitrate	15825-70-4	20.00	1.8000	1	7670	C6H10Br2	cis-1,4-dibromocyclohexane	16661-99-7	20.00	1.7834	1
7409	C6H8O2	1,2-cyclohexanedione	765-87-7	21.00	1.1187	1	7673	C6H10Br2O2	ethyl 2,3-dibromobutanoate	609-11-0	20.00	1.6800	1
7410	C6H8O2	1,3-cyclohexanedione	504-02-9	91.00	1.0861	1	7680	C6H10ClNO	1-chloro-1-nitrosocyclohexane	695-64-7	25.00	1.1140	1
7411	C6H8O2	1,4-cyclohexanedione	637-88-7	91.00	1.0861	1	7700	C6H10Cl3NO	2,2,2-trichloro-N,N-diethylacetamide	2430-00-4	25.00	1.3060	2
7412	C6H8O2	1-cyclopentene-1-carboxylic acid	1560-11-8	28.61	1.0403	2	7712	C6H10N2	1-ethyl-3-methyl-1H-pyrazole	30433-57-9	20.00	0.9360	1
7416	C6H8O2	2,4-hexadienoic acid	110-44-1	19.00	1.2040	1	7713	C6H10N2	1,3,4-trimethyl-1H-pyrazole	15802-99-0	17.00	0.9567	1
7417	C6H8O2	2-hexynoic acid	764-33-0	20.00	0.9820	1	7714	C6H10N2	1,3,5-trimethyl-1H-pyrazole	1072-91-9	40.00	0.9269	1
7428	C6H8O2	2-methyl-1,3-cyclopentanedione	765-69-5	28.61	1.0403	2	7715	C6H10N2	1,4,5-trimethyl-1H-pyrazole	15802-97-8	17.00	0.9685	1
7429	C6H8O2	3-methyl-1,2-cyclopentanedione	765-70-8	28.61	1.0403	2	7716	C6H10N2	3,4,5-trimethyl-1H-pyrazole	5519-42-6	23.50	0.9473	2
7441	C6H8O3	2,5-dimethyl-4-hydroxy-3(2H)-furanone	3658-77-3	21.67	1.1435	2	7717	C6H10N2	3-imino-2-methylpentanenitrile	95642-49-2	19.00	0.9525	1
7442	C6H8O3	2,2-dimethylsuccinic anhydride	17347-61-4	25.00	1.1350	1	7719	C6H10N2	2-ethyl-4-methylimidazole	931-36-2	25.00	0.9750	1
7443	C6H8O3	3-methylglutaric anhydride	4166-53-4	21.67	1.1435	2	7720	C6H10N2	2-isopropylimidazole	36947-68-9	23.50	0.9473	2
7446	C6H8O4	dimethyl maleate	624-48-6	-19.00	1.3952	2	7722	C6H10N2	2-propylimidazole	50995-95-4	23.50	0.9473	2
7447	C6H8O4	allylpropanedioic acid	2583-25-7	44.00	1.2096	2	7723	C6H10N2O	3,5-dimethylpyrazole-1-carbinol	85264-33-1	25.00	1.0515	2
7448	C6H8O4	cis-1,3-cyclobutanedicarboxylic acid	2398-16-5	44.00	1.2096	2	7724	C6H10N2O	TMIO	136440-22-7	25.00	1.0515	2
7449	C6H8O4	trans-1,3-cyclobutanedicarboxylic acid	7439-33-0	44.00	1.2096	2	7726	C6H10N2O2	1,2-cyclohexanedione dioxime	492-99-9	25.00	1.1318	2
7450	C6H8O4	2,2-dimethyl-1,3-dioxane-4,6-dione	2033-24-1	44.00	1.2096	2	7727	C6H10N2O2	DL-alanine anhydride	5625-46-7	25.00	1.1318	2
7451	C6H8O4	dimethyl fumarate	624-49-7	20.00	1.3700	1	7728	C6H10N2O2	N-ethylpiperizine-2,3-dione	59702-31-7	25.00	0.6400	1
7452	C6H8O4	ethyl hydrogen fumarate	2459-05-4	87.00	1.1109	1	7729	C6H10N2O2	1,4-piperazinedicarboxaldehyde	4164-39-0	25.00	1.1318	2
7453	C6H8O4	(1-methylethylidene)propanedioic acid	4441-90-1	44.00	1.2096	2	7730	C6H10N2O2	sarcosine anhydride	5076-82-4	25.00	1.1318	2
7455	C6H8O4	1,1-cyclobutanedicarboxylic acid	5445-51-2	44.00	1.2096	2	7731	C6H10N2O2	1,5,5-trimethylhydantoin	6851-81-6	25.00	1.1318	2
7457	C6H8O5	6-deoxy-L-ascorbic acid	528-81-4	25.00	1.2816	2	7732	C6H10N2O2	DL-5-ethyl-5-methyl-2,4-imidazolidinedione	16820-12-5	25.00	1.1318	2
7459	C6H8O6	ascorbic acid	50-81-7	25.00	1.6500	1	7737	C6H10N2O2	nootropyl	7491-74-9	25.00	1.1318	2
7460	C6H8O6	DL-ascorbic acid	62624-30-0	22.50	1.7050	2	7744	C6H10N2O4	1,1-dinitrocyclohexane	4028-15-3	25.00	1.2728	2
7461	C6H8O6	D-glucuronic acid gamma-lactone	32449-92-6	20.00	1.7600	1	7748	C6H10N2O5	ADA	26239-55-4	25.00	1.3349	2
7462	C6H8O6	1,2,3-propanetricarboxylic acid	99-14-9	22.50	1.7050	2	7751	C6H10N4	6,7,8,9-tetrahydro-5H-tetrazolo[1,5-a]azepine	54-95-5	25.00	1.1246	2
7463	C6H8O6	D(-)-isoascorbic acid	89-65-6	22.50	1.7050	2	7755	C6H10N4O6	N,N'-diacetyl-N,N'-dinitro-1,2-diaminoethane	922-89-4	25.00	1.4957	2
7464	C6H8O7	citric acid	77-92-9	18.00	1.6650	1	7758	C6H10N6O	dacarbazine	4342-03-4	25.00	1.3301	2
7465	C6H8O7	isocitric acid	320-77-4	25.00	1.4109	2	7760	C6H10O	cyclohexanone	108-94-1	-31.15	1.1581	2
7493	C6H9ClN2	phenylhydrazine monohydrochloride	59-88-1	25.00	1.1381	2	7761	C6H10O	mesityl oxide	141-79-7	-53.00	1.0796	2
7515	C6H9Cl3O2	tert-butyl trichloroacetate	1860-21-5	25.00	1.2363	1	7780	C6H10O	1,4-hexadien-3-ol	1070-14-0	23.00	0.8590	1
7518	C6H9Cl3O3	chloroacetaldehyde, trimer	65438-35-9	25.00	1.3870	2	7781	C6H10O	1,5-hexadien-3-ol	924-41-4	25.00	0.8596	1
7540	C6H9NO	(1S,4R)-2-azabicyclo[2.2.1]heptan-3-one	134003-03-5	23.75	0.9968	2	7782	C6H10O	2,4-hexadien-1-ol	111-28-4	23.00	0.8967	1
7541	C6H9NO	6-azabicyclo[3.2.0]heptan-7-one	22031-52-3	23.75	0.9968	2	7783	C6H10O	3,5-hexadien-2-ol	3280-51-1	20.00	0.8678	1
7546	C6H9NO2	1-ethyl-2,5-pyrrolidinedione	2314-78-5	25.00	1.0881	2	7784	C6H10O	trans,trans-2,4-hexadien-1-ol	17102-64-6	20.00	0.8967	1
7547	C6H9NO2	1,2,5,6-tetrahydro-3-pyridinecarboxylic acid	498-96-4	25.00	1.0881	2	7788	C6H10O	2-methyl-2-pentenal	623-36-9	-35.15	1.0600	2
7548	C6H9NO2	(1S,4R)-4-aminocyclopent-2-enecarboxylic acid	102579-72-6	25.00	1.0881	2	7793	C6H10O	3-methyl-1-pentyn-3-ol	77-75-8	20.00	0.8688	1
7549	C6H9NO2	(1R,4S)-4-aminocyclopent-2-enecarboxylic acid	134003-04-6	25.00	1.0881	2	7813	C6H10O2	epsilon-caprolactone	502-44-3	-1.30	1.2670	2
7556	C6H9NO2S	DL-N-acetylhomocysteine thiolactone	17896-21-8	25.00	1.2024	2	7814	C6H10O2	ethyl methacrylate	97-63-2	-1.15	1.1529	2
7557	C6H9NO2S	N-(tetrahydro-2-oxo-3-thienyl)acetamide	1195-16-0	25.00	1.2024	2	7815	C6H10O2	propyl acrylate	925-60-0	-68.15	1.1529	2
7559	C6H9NO3	triacetamide	641-06-5	25.00	1.1467	2	7816	C6H10O2	allyl glycidyl ether	106-92-3	-50.15	1.2040	2
7560	C6H9NO3	3,5,5-trimethyl-2,4-oxazolidinedione	127-48-0	25.00	1.1467	2	7821	C6H10O2	trans-2-ethyl-2-butenoic acid	1187-13-9	50.00	0.9578	1
7562	C6H9NO3	N-(2-hydroxyethyl)succinimide	18190-44-8	25.00	1.1467	2	7822	C6H10O2	2-hexenoic acid	1191-04-4	20.00	0.9650	1
7564	C6H9NO3	methyl 2-acetamidoacrylate	35356-70-8	25.00	1.1467	2	7826	C6H10O2	4-methyl-2-pentenoic acid	10321-71-8	21.00	0.9529	1
7569	C6H9NO6	L-gamma-carboxyglutamic acid	53861-57-7	25.00	1.3721	2	7846	C6H10O2	methyl 3-methyl-2-butenoate	924-50-5	20.00	0.9337	1
7570	C6H9NO6	nitrilotriacetic acid	139-13-9	25.00	1.3721	2	7847	C6H10O2	trans-1,4-cyclohexenediol	41513-32-0	22.07	0.9546	2
7571	C6H9NO6	isosorbide 2-mononitrate	16106-20-0	25.00	1.3721	2	7848.1	C6H10O2	isopropyl acrylate	689-12-3	-83.15	1.1574	2
7572	C6H9NO6	isosorbide 5-nitrate	16051-77-7	25.00	1.3721	2	7849	C6H10O2	3,4-dihydro-2-methoxy-2H-pyran	4454-05-1	-18.15	1.2099	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
7856	C6H10O2	trans-2-hexenoic acid	13419-69-7	25.00	0.9650	1	8159	C6H11NO2S	N,S-diacetylcysteamine	1420-88-8	25.00	1.1400	2
7864	C6H10O2	2-hydroxycyclohexanone	533-60-8	22.07	0.9546	2	8160	C6H11NO2S	(4S,2RS)-2-ethylthiazolidine-4-carboxylicacid	205985-92-8	25.00	1.1400	2
7873	C6H10O2S2	diethyl dithiooxalate	615-85-0	21.00	1.0565	1	8163	C6H11NO3	adipamic acid	334-25-8	25.00	1.1041	2
7876	C6H10O2S4	bis(ethylxanthogen) disulfide	502-55-6	25.00	1.3515	2	8164	C6H11NO3	ethyl acetamidoacetate	1906-82-7	25.00	1.1041	2
7881	C6H10O3	ethylacetoacetate	141-97-9	-39.00	1.2676	2	8168	C6H11NO3S	3-(allylsulfinyl)-L-alanine, (S)	556-27-4	25.00	1.2053	2
7882	C6H10O3	propionic anhydride	123-62-6	-45.00	1.2624	2	8169	C6H11NO4	2-aminoadipic acid	626-71-1	25.00	1.1410	2
7887	C6H10O3	3,3-dimethyl-2-oxobutanoic acid	815-17-8	22.84	1.0572	2	8170	C6H11NO4	diethyl iminodicarboxylate	19617-44-8	25.00	1.1410	2
7888	C6H10O3	ethylene glycol monomethacrylate	868-77-9	-12.00	1.2884	2	8171	C6H11NO4	L-2-aminoadipic acid	1118-90-7	25.00	1.1410	2
7896	C6H10O3	3-methyl-4-oxopentanoic acid	6628-79-1	17.00	1.0932	1	8174	C6H11NO4	L-glutamic acid 5-methyl ester	1499-55-4	25.00	1.1410	2
7898	C6H10O3	pantolactone	599-04-2	22.84	1.0572	2	8176	C6H11NO4S	3-((2-carboxyethyl)thio)alanine	4033-46-9	25.00	1.2658	2
7899	C6H10O3	tetrahydro-2H-pyran-4-carboxylic acid	5337-03-1	22.84	1.0572	2	8177	C6H11NO5	N-(2-hydroxyethyl)iminodiacetic acid	93-62-9	25.00	1.2414	2
7905	C6H10O3	cis-2-hydroxy-1-cyclopentanecarboxylic acid	17502-28-2	22.84	1.0572	2	8190	C6H11N3O4	N-(N-glycylglycyl)glycine	556-33-2	25.00	1.2994	2
7909	C6H10O3	(±)-mevalonolactone	674-26-0	22.84	1.0572	2	8191	C6H11N3O4	caracemide	81424-67-1	25.00	1.2994	2
7910	C6H10O3	(S)-(+)-pantolactone	5405-40-3	22.84	1.0572	2	8214	C6H12	methylcyclopentane	96-37-7	-142.42	1.0352	2
7917	C6H10O4	adipic acid	124-04-9	152.35	1.3480	1	8215	C6H12	cyclohexane	110-82-7	-180.00	0.8561	1
7918	C6H10O4	diethyl oxalate	95-92-1	-40.60	1.3357	2	8216	C6H12	1-hexene	592-41-6	-139.76	0.9510	2
7919	C6H10O4	ethylene glycol diacetate	111-55-7	-31.00	1.3547	2	8218	C6H12	cis-2-hexene	7688-21-3	-141.15	0.9594	2
7920	C6H10O4	ethylidene diacetate	542-10-9	18.85	1.0730	1	8219	C6H12	trans-2-hexene	4050-45-7	-132.98	0.9426	2
7921	C6H10O4	1,4:3,6-dianhydro-D-mannitol	641-74-7	22.92	1.1232	2	8221	C6H12	cis-3-hexene	7642-09-3	-137.82	0.9510	2
7922	C6H10O4	2,3-dimethylbutanedioic acid	13545-04-5	22.92	1.1232	2	8222	C6H12	trans-3-hexene	13269-52-8	-113.42	0.9258	2
7924	C6H10O4	dimethyl succinate	106-65-0	18.20	1.3121	2	8223	C6H12	2-methyl-1-pentene	763-29-1	-135.73	0.9510	2
7926	C6H10O4	ethylbutanedioic acid, (R)	4074-24-2	20.00	1.0017	1	8224	C6H12	3-methyl-1-pentene	760-20-3	-152.95	0.9510	2
7928	C6H10O4	3-methylglutaric acid	626-51-7	22.92	1.1232	2	8225	C6H12	4-methyl-1-pentene	691-37-2	-153.64	0.9426	2
7930	C6H10O4	dianhydro-d-glucitol	652-67-5	22.92	1.1232	2	8227	C6H12	4-methyl-cis-2-pentene	691-38-3	-134.85	0.9342	2
7931	C6H10O4	2,2-dimethylsuccinic acid	597-43-3	22.92	1.1232	2	8228	C6H12	4-methyl-trans-2-pentene	674-76-0	-140.80	0.9426	2
7932	C6H10O4	2-methylglutaric acid	18069-17-5	22.92	1.1232	2	8229	C6H12	2-methyl-2-pentene	625-27-4	-135.08	0.9510	2
7936	C6H10O4	n-propylmalonic acid	616-62-6	22.92	1.1232	2	8230	C6H12	3-methyl-cis-2-pentene	922-62-3	-134.84	0.9594	2
7937	C6H10O4	racemic-2,3-dimethyl-butanedioic acid	608-40-2	22.92	1.1232	2	8232	C6H12	3-methyl-trans-2-pentene	616-12-6	-138.44	0.9679	2
7941	C6H10O4S	3,3'-thiodipropionic acid	111-17-1	25.00	1.2384	2	8233	C6H12	2,3-dimethyl-1-butene	563-78-0	-157.26	0.9679	2
7943	C6H10O4S2	dimethipin	55290-64-7	25.00	1.3187	2	8234	C6H12	2,3-dimethyl-2-butene	563-79-1	-74.23	0.9174	2
7944	C6H10O4S2	3,3'-dithiodipropionic acid	1119-62-6	25.00	1.3187	2	8235	C6H12	3,3-dimethyl-1-butene	558-37-2	-115.20	0.9005	2
7948	C6H10O5	1,6-anhydro-b-D-glucopyranose	498-07-7	23.33	1.1747	2	8236	C6H12	2-ethyl-1-butene	760-21-4	-131.54	0.9594	2
7953	C6H10O5	b-hydroxy-b-methylglutaric acid	503-49-1	23.33	1.1747	2	8244	C6H12BrNO	diethylbromoacetamide	511-70-6	25.00	1.3422	2
7953.1	C6H10O5	dilactic acid	19201-34-4	112.50	1.1880	2	8246	C6H12Br2	1,2-dibromo-2,3-dimethylbutane	29916-45-8	20.00	1.6033	1
7954	C6H10O6	dimethyl tartrate, (±)	608-69-5	90.00	1.2604	1	8247	C6H12Br2	1,4-dibromo-2,3-dimethylbutane	54462-70-3	20.00	1.6200	1
7955	C6H10O6	ethyl tartrate	608-89-9	46.67	1.3695	2	8248	C6H12Br2	2,3-dibromo-2,3-dimethylbutane	594-81-0	21.00	1.8110	1
7956	C6H10O6	beta-lactonegluconic acid	3087-62-5	25.00	1.6100	1	8249	C6H12Br2	1,2-dibromohexane	624-20-4	20.00	1.5774	1
7958	C6H10O6	(-)-dimethyl d-tartrate	13171-64-7	46.67	1.3695	2	8250	C6H12Br2	1,4-dibromohexane	25118-28-9	15.00	1.6020	1
7961	C6H10O6	L-glucono-1,5-lactone	52153-09-0	46.67	1.3695	2	8251	C6H12Br2	1,5-dibromohexane	627-96-3	20.00	1.5650	1
7962	C6H10O6	L(+)-gulonic acid g-lactone	1128-23-0	46.67	1.3695	2	8253	C6H12Br2	2,3-dibromohexane	6423-02-5	20.00	1.5812	1
7963	C6H10O6	D(-)-gulonic acid g-lactone	6322-07-2	46.67	1.3695	2	8255	C6H12Br2	1,2-dibromo-3,3-dimethylbutane	640-21-1	25.00	1.6100	1
7967	C6H10O7	D-galacturonic acid	685-73-4	25.00	1.3372	2	8256	C6H12Br2	3,4-dibromohexane	16230-28-7	25.00	1.5940	1
7968	C6H10O7	D-glucuronic acid	6556-12-3	25.00	1.3372	2	8257	C6H12Br2	2,5-dibromohexane	24774-58-1	21.62	1.6081	2
7969	C6H10O8	galactaric acid	526-99-8	25.00	1.3935	2	8258	C6H12Br2	1,5-dibromo-3-methylpentane	4457-72-1	25.00	1.6000	1
7970	C6H10O8	D-glucaric acid	87-73-0	25.00	1.3935	2	8259	C6H12Br2O4	dibromodulcitol	10318-26-0	25.00	1.7395	2
7984	C6H11BrN2O2	N-(aminocarbonyl)-2-bromo-3-methylbutanamide	496-67-3	15.00	1.5600	1	8260	C6H12Br2O4	1,6-dibromomannitol	488-41-5	25.00	1.7395	2
7991	C6H11BrO2	6-bromohexanoic acid	4224-70-8	22.60	1.3477	2	8264	C6H12ClNO	2-chloro-N-sec-butylacetamide	32322-73-9	25.00	1.0541	2
8004	C6H11Br3	1,1,1-tribromohexane	62127-63-3	25.00	1.9001	2	8268	C6H12ClNO2	2-chloro-N-(3-methoxypropyl)acetamide	1709-03-1	25.00	1.1224	2
8018	C6H11ClO	cis-2-chlorocyclohexanol, (±)	116783-28-9	25.00	1.1261	1	8314	C6H12NO4PS2	formothion	2540-82-1	25.00	1.3610	1
8019	C6H11ClO	trans-2-chlorocyclohexanol	6628-80-4	16.00	1.1460	1	8315	C6H12N2	triethylenediamine	280-57-9	161.10	1.1800	1
8020	C6H11ClO	trans-4-chlorocyclohexanol	29538-77-0	13.00	1.1435	1	8319	C6H12N2	6-aminohexanenitrile	2432-74-8	20.00	0.9070	1
8065	C6H11Cl2OP	cyclohexylphosphonic dichloride	1005-22-7	25.00	1.2960	1	8321	C6H12N2O	1-acetylpiperazine	13889-98-0	25.00	0.9936	2
8086	C6H11I3	1,1,1-triiodohexane	---	25.00	2.3664	2	8322	C6H12N2O	cis-2-amino-1-cyclopentanecarboxamide	135053-11-1	25.00	0.9936	2
8088	C6H11N	hexanenitrile	628-73-9	-80.30	1.0299	2	8324	C6H12N2O	isonipecotamide	39546-32-2	25.00	0.9936	2
8095	C6H11N	3,3-dimethylbutanenitrile	3302-16-7	24.70	0.8132	2	8325	C6H12N2O	nipecotamide	4138-26-5	25.00	0.9936	2
8096	C6H11N	N-allyl-2-propen-1-amine	124-02-7	-88.40	1.0621	2	8337	C6H12N2O2	N,N'-diethylethanediamide	615-84-9	4.00	1.1690	1
8101	C6H11NO	epsilon-caprolactam	105-60-2	69.21	1.0960	2	8338	C6H12N2O2	adipamide	628-94-4	25.00	1.0710	2
8102	C6H11NO	cyclohexanone oxime	100-64-1	20.00	1.0100	1	8346	C6H12N2O3	daminozide	1596-84-5	25.00	1.1422	2
8104	C6H11NO	3,3-dimethyl-2-pyrrolidinone	4831-43-0	24.55	0.9646	2	8347	C6H12N2O3	L-alanyl-L-alanine	1948-31-8	25.00	1.1422	2
8108	C6H11NO	3-methyl-2-piperidinone	3768-43-2	24.55	0.9646	2	8348	C6H12N2O3	DL-alanyl-DL-alanine	2867-20-1	25.00	1.1422	2
8114	C6H11NO	N-isopropylacrylamide	2210-25-5	24.55	0.9646	2	8357	C6H12N2O4	diethyl 1,1-hydrazinedicarboxylate	5311-96-6	16.00	1.1857	2
8116	C6H11NO	poly(iminocarbonylpentamethylene)	25038-54-4	25.00	1.0800	1	8358	C6H12N2O4	diethyl 1,2-hydrazinedicarboxylate	4114-28-7	8.00	1.3240	1
8117	C6H11NO	2,4,4-trimethyl-2-oxazoline	1772-43-6	25.00	0.8870	1	8359	C6H12N2O4	1,6-dinitrohexane	4286-47-9	16.00	1.1857	2
8127	C6H11NO2	1-aminocyclopentanecarboxylic acid	52-52-8	22.00	1.0359	2	8362	C6H12N2O4	2,3-dimethyl-2,3-dinitrobutane	3964-18-9	16.00	1.1857	2
8128	C6H11NO2	ethyl trans-3-amino-2-butenoate	41867-20-3	19.00	1.0219	1	8363	C6H12N2O4	ethylenediamine-N,N'-diacetic acid	5657-17-0	16.00	1.1857	2
8134	C6H11NO2	2-piperidinecarboxylic acid	535-75-1	22.00	1.0359	2	8366	C6H12N2O4S	L-lanthionine	922-55-4	25.00	1.2902	2
8135	C6H11NO2	3-piperidinecarboxylic acid	498-95-3	22.00	1.0359	2	8367	C6H12N2O4S2	L-cystine	56-89-3	25.00	1.6770	1
8136	C6H11NO2	4-piperidinecarboxylic acid	498-94-2	22.00	1.0359	2	8368	C6H12N2O4S2	D-cystine	349-46-2	25.00	1.3579	2
8137	C6H11NO2	cis-2-amino-1-cyclopentanecarboxylic acid	37910-65-9	22.00	1.0359	2	8369	C6H12N2O4S2	DL-cystine	923-32-0	25.00	1.3579	2
8138	C6H11NO2	(1S,3R)-3-aminocyclopentanecarboxylic acid	71830-07-4	22.00	1.0359	2	8378	C6H12N2S	1-methallyl-3-methyl-2-thiourea	21018-38-2	25.00	1.0381	2
8139	C6H11NO2	(1R,3S)-3-aminocyclopentanecarboxylic acid	71830-08-5	22.00	1.0359	2	8379	C6H12N2S3	tetramethylthiodicarbonic diamide	97-74-5	25.00	1.3700	1
8143	C6H11NO2	ethyl 3-aminocrotonate	626-34-6	25.00	1.0220	1	8380	C6H12N2S4	thiram	137-26-8	25.00	1.2952	2
8144	C6H11NO2	ethyl 3-aminocrotonate	7318-00-5	22.00	1.0359	2	8381	C6H12N2S4Zn	ziram	137-30-4	25.00	1.6600	1
8145	C6H11NO2	cis-2-hydroxy-1-cyclopentanecarboxamide	40481-98-9	22.00	1.0359	2	8385	C6H12N4	methenamine	100-97-0	24.30	1.3416	1
8146	C6H11NO2	(4S)-(-)-4-isopropyl-2-oxazolidinone	17016-83-0	22.00	1.0359	2	8394	C6H12O	butyl vinyl ether	111-34-2	-92.00	1.0317	2
8147	C6H11NO2	(4R)-(+)-4-isopropyl-2-oxazolidinone	95530-58-8	22.00	1.0359	2	8400	C6H12O	cyclohexanol	108-93-0	23.45	1.1118	2
8151	C6H11NO2	D(+)-pipecolinic acid	1723-00-8	22.00	1.0359	2	8401	C6H12O	hexanal	66-25-1	-56.00	1.0216	2
8152	C6H11NO2	L(-)-pipecolinic acid	3105-95-1	22.00	1.0359	2	8409	C6H12O	2-hexanone	591-78-6	-55.80	1.0216	2
8153	C6H11NO2	DL-pipecolinic acid	4043-87-2	22.00	1.0359	2	8410	C6H12O	3-hexanone	589-38-8	-55.65	1.0216	2
8154	C6H11NO2	L-proline methyl ester hydrochloride	2133-40-6	22.00	1.0359	2	8411	C6H12O	3-methyl-2-pentanone	565-61-7	-106.00	1.0717	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
8412	C6H12O	4-methyl-2-pentanone	108-10-1	-84.00	1.0417	2	8758	C6H13N	N-ethyl-2-methylallylamine	18328-90-0	-44.15	0.9531	2
8413	C6H12O	ethyl isopropyl ketone	565-69-5	-69.00	1.0517	2	8763	C6H13NO	trans-2-aminocyclohexanol, (±)	33092-82-9	22.20	0.9366	2
8414	C6H12O	3,3-dimethyl-2-butanone	75-97-8	-52.00	1.0216	2	8770	C6H13NO	hexanamide	628-02-4	20.00	0.9990	1
8441	C6H12O	1-methylcyclopentanol	1462-03-9	23.00	0.9044	1	8772	C6H13NO	1-methyl-4-piperidinol	106-52-5	22.20	0.9366	2
8448	C6H12O	1,2-epoxyhexane	1436-34-6	25.00	0.8310	1	8773	C6H13NO	2-piperidinemethanol	3433-37-2	22.20	0.9366	2
8460	C6H12O2	hexanoic acid	142-62-1	-12.00	1.0664	1	8774	C6H13NO	3-piperidinemethanol	4606-65-9	20.00	1.0263	1
8461	C6H12O2	2-ethyl butyric acid	88-09-5	-15.00	1.1175	2	8775	C6H13NO	N-propylpropanamide	3217-86-5	25.00	0.8985	1
8463	C6H12O2	2,2-dimethylbutanoic acid	595-37-9	-14.00	1.1163	2	8777	C6H13NO	trans-4-aminocyclohexanol	27489-62-9	22.20	0.9366	2
8468	C6H12O2	pentyl formate	638-49-3	-73.50	1.1465	2	8784	C6H13NO	2,2,N-trimethylpropanamide	6830-83-7	22.20	0.9366	2
8476	C6H12O2	butyl acetate	123-86-4	-73.50	1.1384	2	8785	C6H13NO	N-hydroxycyclohexylamine	2211-64-5	22.20	0.9366	2
8477	C6H12O2	isobutyl acetate	110-19-0	-98.85	1.1453	2	8790	C6H13NO2	1-nitrohexane	646-14-0	20.00	0.9396	1
8478	C6H12O2	sec-butyl acetate	105-46-4	-99.00	1.1546	2	8796	C6H13NO2	2-nitro-2-methylpentane	---	24.32	1.0011	2
8479	C6H12O2	tert-butyl acetate	540-88-5	-58.15	1.0989	2	8800	C6H13NO2	3-nitro-3-methylpentane	---	24.32	1.0011	2
8480	C6H12O2	propyl propanoate	106-36-5	-75.90	1.1372	2	8801	C6H13NO2	1-nitro-2,2-dimethylbutane	2625-29-8	24.32	1.0011	2
8482	C6H12O2	ethyl butanoate	105-54-4	-98.00	1.1535	2	8803	C6H13NO2	1-nitro-3,3-dimethylbutane	---	24.32	1.0011	2
8483	C6H12O2	ethyl isobutanoate	97-62-1	-88.15	1.1372	2	8805	C6H13NO2	2-nitro-3,3-dimethylbutane	599-02-0	24.32	1.0011	2
8484	C6H12O2	cyclohexyl peroxide	766-07-4	-20.00	1.2313	2	8807	C6H13NO2	6-aminohexanoic acid	60-32-2	24.32	1.0011	2
8485	C6H12O2	diacetone alcohol	123-42-2	-44.00	1.1593	2	8809	C6H13NO2	ethyl isopropylcarbamate	2594-20-9	20.00	0.9540	1
8486	C6H12O2	cis-1,2-cyclohexanediol	1792-81-0	101.00	1.0297	1	8810	C6H13NO2	ethyl N-propylcarbamate	623-85-8	15.00	0.9921	1
8487	C6H12O2	trans-1,2-cyclohexanediol, (±)	54383-22-1	24.00	1.1470	1	8812	C6H13NO2	DL-isoleucine	443-79-8	24.32	1.0011	2
8488	C6H12O2	trans-1,4-cyclohexanediol	6995-79-5	20.00	1.1800	1	8813	C6H13NO2	L-isoleucine	73-32-5	24.32	1.0011	2
8503	C6H12O2	(1R,2R)-trans-1,2-cyclohexanediol	1072-86-2	24.92	0.9324	2	8814	C6H13NO2	isopentyl carbamate	543-86-2	71.00	0.9438	1
8504	C6H12O2	trans-1,2-cyclohexanediol	1460-57-7	24.92	0.9324	2	8815	C6H13NO2	DL-leucine	328-39-2	18.00	1.2930	1
8505	C6H12O2	1,3-cyclohexanediol; (cis+trans)	504-01-8	24.92	0.9324	2	8816	C6H13NO2	D-leucine	328-38-1	24.32	1.0011	2
8506	C6H12O2	1,4-cyclohexanediol	556-48-9	24.92	0.9324	2	8817	C6H13NO2	L-leucine	61-90-5	18.00	1.2930	1
8507	C6H12O2	(1S,2S)-trans-1,2-cyclohexanediol	57794-08-8	24.92	0.9324	2	8820	C6H13NO2	methyl sec-butylcarbamate	39076-02-3	25.00	0.9651	1
8508	C6H12O2	1,2-cyclohexanediol	931-17-9	24.92	0.9324	2	8821	C6H13NO2	methyl tert-butylcarbamate	27701-01-5	15.00	0.9660	1
8518	C6H12O2	cis-1,3-cyclohexandiol	823-18-7	24.92	0.9324	2	8823	C6H13NO2	DL-norleucine	616-06-8	25.00	1.1720	1
8528	C6H12O2S2	2,5-dihydroxy-2,5-dimethyl-1,4-dithiane	55704-78-4	25.00	1.1466	2	8824	C6H13NO2	L-norleucine	327-57-1	24.32	1.0011	2
8531	C6H12O3	2-ethoxyethyl acetate	111-15-9	-61.70	1.2330	2	8825	C6H13NO2	tert-pentyl carbamate	590-60-3	24.32	1.0011	2
8532	C6H12O3	hydroxycaproic acid	1191-25-9	40.00	1.1339	2	8826	C6H13NO2	D-alloisoleucine	1509-35-9	24.32	1.0011	2
8533	C6H12O3	paraldehyde	123-63-7	12.60	1.1599	1	8827	C6H13NO2	3-amino-4-methylpentanoic acid	5699-54-7	24.32	1.0011	2
8541	C6H12O3	2-hydroxyhexanoic acid, (±)	636-36-2	23.70	1.0160	2	8832	C6H13NO2	D-isoleucine	319-78-8	24.32	1.0011	2
8555	C6H12O3	2-ethyl-2-hydroxybutyric acid	3639-21-2	23.70	1.0160	2	8834	C6H13NO2	D(-)-norleucine	327-56-0	24.32	1.0011	2
8556	C6H12O3	DL-a-hydroxycaproic acid	6064-63-7	60.85	1.1749	2	8835	C6H13NO2	DL-tert-butylglycine	33105-81-6	24.32	1.0011	2
8557	C6H12O3	DL-a-hydroxyisocaproic acid	10303-64-7	23.70	1.0160	2	8836	C6H13NO2	L-tert-leucine	20859-02-3	24.32	1.0011	2
8558	C6H12O3	L-a-hydroxyisocaproic acid	13748-90-8	23.70	1.0160	2	8838	C6H13NO2S	ethionine	13073-35-3	25.00	1.0851	2
8563	C6H12O3	3-oxobutyraldehyde dimethylacetal	5436-21-5	25.00	0.9930	1	8839	C6H13NO2S	D-ethionine	535-32-0	25.00	1.0851	2
8564	C6H12O3	propylene glycol monomethyl ether acetate	108-65-6	-68.15	1.2344	2	8840	C6H13NO2S	DL-ethionine	67-21-0	25.00	1.0851	2
8571	C6H12O4	digitoxose	527-52-6	21.25	1.1819	2	8841	C6H13NO3	(2S,3R)-(+)-2-amino-3-hydroxy-4-methylpentan*	10148-71-7	25.00	1.0476	2
8575	C6H12O4	3,3,6,6-tetramethyl-1,2,4,5-tetraoxane	1073-91-2	21.25	1.1819	2	8842	C6H13NO3	(2R,3S)-(-)-2-amino-3-hydroxy-4-methylpentan*	87421-23-6	25.00	1.0476	2
8578	C6H12O5	2-deoxy-D-glucose	154-17-6	25.00	1.1483	2	8843	C6H13NO3	2,2-diethoxyacetamide	61189-99-9	25.00	1.0476	2
8579	C6H12O5	2-deoxy-D-chiro-inositol	488-73-3	13.00	1.5845	1	8845	C6H13NO3	DL-2-isopropylserine	7522-43-2	25.00	1.0476	2
8580	C6H12O5	quinovose	7658-08-4	25.00	1.1483	2	8848	C6H13NO3S	cyclohexylsulfamic acid	100-88-9	25.00	1.1486	2
8581	C6H12O5	2,5-anhydro-D-mannitol	41107-82-8	25.00	1.1483	2	8850	C6H13NO4	N,N-bis(2-hydroxyethyl)glycine	150-25-4	25.00	1.1168	2
8582	C6H12O5	2-deoxy-D-galactose	1949-89-9	25.00	1.1483	2	8853	C6H13NO5	tricine	5704-04-1	25.00	1.1810	2
8583	C6H12O5	L(-)-fucose	2438-80-4	25.00	1.1483	2	8855	C6H13NO7	1-deoxy-1-nitro-D-galactitol	20971-06-6	25.00	1.2959	2
8584	C6H12O5	D(+)-fucose	3615-37-0	25.00	1.1483	2	8856	C6H13NO7	1-deoxy-1-nitro-L-galactitol	94481-72-8	25.00	1.2959	2
8588	C6H12O6	D-allose	2595-97-3	20.90	1.5817	2	8857	C6H13NO7	1-deoxy-1-nitro-D-mannitol	14199-83-8	25.00	1.2959	2
8589	C6H12O6	D-altrose	1990-29-0	20.90	1.5817	2	8858	C6H13NO7	1-deoxy-1-nitro-L-mannitol	6027-42-5	25.00	1.2959	2
8590	C6H12O6	DL-chiro-inositol	18685-70-6	20.90	1.5817	2	8859	C6H13NS2	dihydro-2,4,6-trimethyl-4H-1,3,5-dithiazine,*	638-17-5	50.00	1.0613	1
8591	C6H12O6	beta-D-fructose	53188-23-1	20.00	1.6000	1	8860	C6H13N3	(3-methyl-2-butenyl)guanidine	543-83-9	25.00	0.9626	2
8592	C6H12O6	D-galactose	59-23-4	20.90	1.5817	2	8865	C6H13N3O3	citrulline	372-75-8	25.00	1.1759	2
8593	C6H12O6	alpha-D-glucose	26655-34-5	18.00	1.5620	1	8869	C6H13N5O4	nitro-L-arginine	2149-70-4	25.00	1.3440	2
8594	C6H12O6	beta-D-glucose	28905-12-6	18.00	1.5620	1	8877	C6H14	hexane	110-54-3	-95.32	0.8471	1
8596	C6H12O6	scyllo-inositol	488-59-5	19.00	1.6590	1	8878	C6H14	2,2-dimethylbutane	75-83-2	-98.87	0.8790	2
8597	C6H12O6	D-mannose	3458-28-4	25.00	1.5400	1	8879	C6H14	2,3-dimethylbutane	79-29-8	-127.96	0.9135	2
8598	C6H12O6	DL-sorbose	65732-90-3	17.00	1.6380	1	8880	C6H14	2-methylpentane	107-83-5	-153.60	0.9307	2
8599	C6H12O6	L-sorbose	87-79-6	17.00	1.6120	1	8881	C6H14	3-methylpentane	96-14-0	-162.90	0.9479	2
8600	C6H12O6	D-tagatose	87-81-0	20.90	1.5817	2	8886	C6H14BrNO2S	D-methionine methylsulfonium bromide	---	25.00	1.3969	2
8601	C6H12O6	L(-)-allose	7635-11-2	20.90	1.5817	2	8887	C6H14BrNO2S	DL-methionine methylsulfonium bromide	2766-51-0	25.00	1.3969	2
8603	C6H12O6	L-chiro-inositol	551-72-4	20.90	1.5817	2	8891	C6H14ClN	cyclohexylamine hydrochloride	4998-76-9	25.00	0.9333	2
8604	C6H12O6	D-chiro-inositol	643-12-9	20.90	1.5817	2	8893	C6H14ClNO3	(1S,2R,3S,4S)-2,3-dihydroxy-4-(hydroxymethyl*	220497-88-1	25.00	1.1323	2
8605	C6H12O6	1,3-dihydroxyacetone dimer	62147-49-3	20.90	1.5817	2	8895	C6H14ClNO5	d-galactosamine hydrochloride	1772-03-8	25.00	1.2434	2
8607	C6H12O6	fructose	7660-25-5	25.00	1.6000	1	8918	C6H14N2	cis-2,5-dimethylpiperazine	6284-84-0	23.33	0.9140	2
8608	C6H12O6	L(-)-galactose	15572-79-9	20.90	1.5817	2	8919	C6H14N2	trans-2,5-dimethylpiperazine	2815-34-1	23.33	0.9140	2
8609	C6H12O6	glucose	50-99-7	25.00	1.5440	1	8920	C6H14N2	cis-2,6-dimethylpiperazine	21655-48-1	23.33	0.9140	2
8610	C6H12O6	L(-)-glucose	921-60-8	20.90	1.5817	2	8925	C6H14N2	(1R,2R)-(-)-1,2-diaminocyclohexane	20439-47-8	23.33	0.9140	2
8611	C6H12O6	a-D(+)-glucose, anhydrous	492-62-6	20.90	1.5817	2	8926	C6H14N2	(1S,2S)-(+)-1,2-diaminocyclohexane	21436-03-3	23.33	0.9140	2
8613	C6H12O6	inositol	87-89-8	15.00	1.7520	1	8928	C6H14N2	2,5-dimethylpiperazine	106-55-8	23.33	0.9140	2
8614	C6H12O6	L(-)-mannose	10030-80-5	20.90	1.5817	2	8929	C6H14N2	2,6-dimethylpiperazine	108-49-6	23.33	0.9140	2
8615	C6H12O6	D(+)-sorbose	3615-56-3	20.90	1.5817	2	8932	C6H14N2O	N-isopropyl-N-nitroso-2-propanamine	601-77-4	20.00	0.9422	1
8616	C6H12O6	L(-)-talose	23567-25-1	20.90	1.5817	2	8933	C6H14N2O	4-morpholineethanamine	2038-03-1	20.00	0.9897	1
8617	C6H12O6	D(+)-talose	2595-98-4	20.90	1.5817	2	8935	C6H14N2O	1-piperazineethanol	103-76-4	4.85	1.2550	2
8620	C6H12O7	D-gluconic acid	526-95-4	25.00	1.2721	2	8944	C6H14N2O2	lysine	56-87-1	25.00	1.2370	1
8637	C6H12S	cyclohexanethiol	1569-69-3	-83.51	1.2088	2	8945	C6H14N2O2	DL-lysine	70-54-2	25.00	1.0179	2
8640	C6H12S3	thioacetaldehyde trimer	2765-04-0	25.00	1.1163	2	8962	C6H14N4O2	D-arginine	7200-25-1	25.00	1.1452	2
8724	C6H13I	1-iodohexane	638-45-9	-68.15	1.8047	2	8963	C6H14N4O2	L-arginine	74-79-3	25.00	1.1452	2
8742	C6H13N	cyclohexylamine	108-91-8	-17.70	1.0513	2	8964	C6H14N4O2	adipic dihydrazide	1071-93-8	25.00	1.1452	2
8745	C6H13N	hexamethyleneimine	111-49-9	-37.00	1.0810	2	8965	C6H14N4O2	D(-)-arginine	157-06-2	25.00	1.1452	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
8970	C6H14O	1-hexanol	111-27-3	-44.60	1.0105	2	9281	C6H16ClNO	(2-hydroxypropyl)trimethyl ammonium chloride	2382-43-6	25.00	0.9605	2
8971	C6H14O	2-hexanol	626-93-7	-50.15	1.0177	2	9283	C6H16ClNS	2-diethylaminoethanethiol hydrochloride	1942-52-5	25.00	0.9989	2
8973	C6H14O	2-methyl-1-pentanol	105-30-6	-70.45	1.0218	2	9292	C6H16N2	hexamethylenediamine	124-09-4	25.00	0.9600	2
8974	C6H14O	3-methyl-1-pentanol	589-35-5	-65.15	1.0320	2	9295	C6H16N2	N,N,N',N'-tetramethyl-1,2-ethanediamine	110-18-9	-55.10	0.9781	2
8976	C6H14O	4-methyl-2-pentanol	108-11-2	-90.00	1.0422	2	9306	C6H16N2O2	N,N'-bis(2-hydroxyethyl)ethylenediamine	4439-20-7	25.00	0.9710	2
8980	C6H14O	3-methyl-3-pentanol	77-74-7	-23.60	1.0115	2	9348	C6H18FeN3O15	ammonium ferric oxalate trihydrate	13268-42-3	17.00	1.7800	1
8981	C6H14O	2-ethyl-1-butanol	97-95-0	-114.40	1.0933	2	9356	C6H18N3OP	hexamethyl phosphoramide	680-31-9	7.00	1.2114	2
8993	C6H14O	dipropyl ether	111-43-3	-123.20	1.0095	2	9359	C6H18N4	triethylene tetramine	112-24-3	12.00	1.1567	2
8995	C6H14O	diisopropyl ether	108-20-3	-85.50	0.9645	2	9362	C6H18OSi2	hexamethyldisiloxane	107-46-0	-68.22	0.9889	2
8996	C6H14O	methyl pentyl ether	628-80-8	-97.15	1.0095	2	9366	C6H18O3Si3	hexamethylcyclotrisiloxane	541-05-9	25.00	1.1200	1
9002	C6H14O	methyl tert-pentyl ether	994-05-8	-124.04	1.0422	2	9393	C6H24O2	4'-octyloxyacetophenone	37062-63-8	25.00	0.7118	2
9004	C6H14O	ethyl butyl ether	628-81-9	-103.00	0.9993	2	9395	C6H26O8	2,3-dimethyl-2,3-butanediol hexahydrate	6091-58-3	15.00	0.9670	1
9007	C6H14O	ethyl tert-butyl ether	637-92-3	-94.00	0.9921	2	9401	C6N4	tetracyanoethene	670-54-2	25.00	1.3480	1
9020	C6H14O2	acetal	105-57-7	-100.00	1.0990	2	9402	C6N6	1,3,5-triazine-2,4,6-tricarbonitrile	7615-57-8	25.00	1.8090	2
9021	C6H14O2	2-butoxyethanol	111-76-2	-73.98	1.1404	2	9404	C6N6O6	benzo[1,2-c:3,4-c':5,6-c"]tris[1,2,5]oxadia*	3470-17-5	25.00	2.1011	2
9022	C6H14O2	hexylene glycol	107-41-5	-50.00	1.1321	2	9405	C6N6O12	hexanitrobenzene	13232-74-1	25.00	2.2651	2
9023	C6H14O2	1,2-hexanediol	6920-22-5	22.11	0.9274	2	9412	C6O6W	tungsten carbonyl	14040-11-0	25.00	2.6500	1
9027	C6H14O2	1,6-hexanediol	629-11-8	42.00	1.1168	2	9427	C7HCl5O2	pentachlorobenzoic acid	1012-84-6	25.00	1.7324	2
9028	C6H14O2	2,3-hexanediol	617-30-1	15.00	0.9900	1	9428	C7HCl7	pentachloro(dichloromethyl)benzene	2136-95-0	25.00	1.7262	2
9030	C6H14O2	2,5-hexanediol	2935-44-6	20.00	0.9610	1	9430	C7HF4N	2,3,5,6-tetrafluorobenzonitrile	5216-17-1	25.00	1.5029	2
9041	C6H14O2	DL-erythro-4-methyl-2,3-pentanediol	6702-10-9	22.11	0.9274	2	9431	C7HF4NO4	2,3,4,5-tetrafluoro-6-nitrobenzoic acid	16583-08-7	25.00	1.7205	2
9042	C6H14O2	DL-threo-4-methyl-2,3-pentanediol	6464-40-0	22.11	0.9274	2	9433	C7HF5O2	2,3,4,5,6-pentafluorobenzoic acid	602-94-8	25.00	1.5902	2
9043	C6H14O2	2-ethyl-1,2-butanediol	66553-16-0	22.11	0.9274	2	9442	C7H2ClF3N2O4	4-chloro-3,5-dinitrobenzotrifluoride	393-75-9	25.00	1.7453	2
9052	C6H14O2	2,3-dimethyl-2,3-butanediol	76-09-5	22.11	0.9274	2	9448	C7H2ClN3O4	4-chloro-3,5-dinitrobenzonitrile	1930-72-9	25.00	1.7557	2
9053	C6H14O2	3,3-dimethyl-1,2-butanediol	59562-82-2	22.11	0.9274	2	9450	C7H2Cl2F3NO2	2,4-dichloro-5-nitrobenzotrifluoride	400-70-4	25.00	1.6589	2
9056	C6H14O2	2-methyl-2-ethyl-1,3-propanediol	77-84-9	22.11	0.9274	2	9452	C7H2Cl2N2O6	2,4-dichloro-3,5-dinitrobenzoic acid	52729-03-0	25.00	1.8272	2
9057	C6H14O2	1-(1-methylethoxy)-2-propanol	3944-36-3	-63.15	1.1215	2	9458	C7H2F3N	3,4,5-trifluorobenzonitrile	134227-45-5	25.00	1.2465	2
9059	C6H14O2	1-propoxy-2-propanol	1569-01-3	-80.00	1.1451	2	9460	C7H2F3N	2,4,6-trifluorobenzonitrile	96606-37-0	25.00	1.2465	2
9060	C6H14O2	ethylene glycol diethyl ether	629-14-1	-74.00	1.0742	2	9465	C7H2F4O2	2,3,4,5-tetrafluorobenzoic acid	1201-31-6	25.00	1.5165	2
9061	C6H14O2	(2R,5R)-2,5-hexanediol	17299-07-9	22.11	0.9274	2	9466	C7H2F4O2	2,3,5,6-tetrafluorobenzoic acid	652-18-6	25.00	1.5165	2
9062	C6H14O2	(2S,5S)-2,5-hexanediol	34338-96-0	22.11	0.9274	2	9467	C7H2F5NO	2,3,4,5,6-pentafluorobenzamide	652-31-3	25.00	1.5464	2
9069	C6H14O2S	dipropyl sulfone	598-03-8	29.85	1.2185	2	9471	C7H2F12O2	2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoi*	1546-95-8	25.00	1.6714	2
9071	C6H14O2S2	3,6-dithiaoctane-1,8-diol	5244-34-8	25.00	1.0966	2	9476	C7H3BrClNO	4-bromo-2-chlorophenyl isocyanate	190774-47-1	25.00	1.8072	2
9075	C6H14O3	diethylene glycol dimethyl ether	111-96-6	-64.04	1.2049	2	9477	C7H3BrClNO2	6-bromo-5-chloro-2-benzoxazolinone	5579-85-1	25.00	1.8508	2
9076	C6H14O3	dipropylene glycol	25265-71-8	-40.15	1.2586	2	9478	C7H3BrClNS	4-bromo-2-chlorophenyl isothiocyanate	98041-69-1	25.00	1.7934	2
9077	C6H14O3	2-(2-ethoxyethoxy)ethanol	111-90-0	-54.00	1.2331	2	9479	C7H3BrFN	3-bromo-4-fluorobenzonitrile	79630-23-2	25.00	1.7286	2
9078	C6H14O3	trimethylolpropane	77-99-6	58.00	1.2827	2	9480	C7H3BrFN	4-bromo-2-fluorobenzonitrile	105942-08-3	25.00	1.7286	2
9083	C6H14O3	2,3,4-hexanetriol	93972-93-1	22.78	1.0055	2	9481	C7H3BrFN	5-bromo-2-fluorobenzonitrile	179897-89-3	25.00	1.7286	2
9085	C6H14O3	1,2,3-hexanetriol	90325-47-6	22.78	1.0055	2	9484	C7H3BrF3NO2	2-bromo-5-nitrobenzotrifluoride	367-67-9	25.00	1.7750	2
9092	C6H14O4	triethylene glycol	112-27-6	-7.36	1.3351	2	9485	C7H3BrF3NO2	5-bromo-2-nitrobenzotrifluoride	344-38-7	25.00	1.7900	1
9100	C6H14O6	sorbitol	50-70-4	91.50	1.4750	1	9488	C7H3Br2NO	3,5-dibromo-4-hydroxybenzonitrile	1689-84-5	25.00	2.1093	2
9101	C6H14O6	galactitol	608-66-2	20.00	1.4700	1	9489	C7H3Br3O3	3-hydroxy-2,4,6-tribromobenzoic acid	14348-40-4	25.00	2.3705	2
9102	C6H14O6	D-mannitol	69-65-8	20.00	1.4890	1	9490	C7H3Br4NO3	2,3,5,6-tetrabromo-4-methyl-4-nitrocyclohexa*	95111-49-2	25.00	2.5724	2
9103	C6H14O6	L-iditol	488-45-9	21.67	1.4763	2	9491	C7H3Br5	pentabromomethylbenzene	87-83-2	17.00	2.9700	1
9104	C6H14O6S2	busulfan	55-98-1	25.00	1.3051	2	9492	C7H3Br5O	2,3,4,5,6-pentabromobenzyl alcohol	79415-41-1	25.00	2.6939	2
9107	C6H14S	hexyl mercaptan	111-31-9	-80.53	1.0748	2	9493	C7H3ClFN	3-chloro-4-fluorobenzonitrile	117482-84-5	25.00	1.3760	2
9112	C6H14S	dipropyl sulfide	111-47-7	-102.71	1.0914	2	9494	C7H3ClFN	4-chloro-2-fluorobenzonitrile	57381-51-8	25.00	1.3760	2
9123	C6H14S	3,3-dimethyl-2-thiapentane	13286-92-5	-78.15	1.0713	2	9495	C7H3ClFN	2-chloro-4-fluorobenzonitrile	60702-69-4	25.00	1.3760	2
9126	C6H14S	2,2-dimethyl-3-thiapentane	14290-92-7	-88.95	1.0595	2	9496	C7H3ClFN	2-chloro-6-fluorobenzonitrile	668-45-1	25.00	1.3760	2
9130	C6H14S2	dipropyl disulfide	629-19-6	-85.48	1.2250	2	9504	C7H3ClF2O2	2-chloro-4,5-difluorobenzoic acid	110877-64-0	25.00	1.4821	2
9135	C6H15Al	triethyl aluminum	97-93-8	-52.50	1.0344	2	9505	C7H3ClF2O2	4-chloro-2,5-difluorobenzoic acid	132794-07-1	25.00	1.4821	2
9153	C6H15ClN2O2	carbachol	51-83-2	25.00	1.1048	2	9506	C7H3ClF3I	5-chloro-2-iodobenzotrifluoride	23399-77-1	25.00	1.9700	1
9165	C6H15ClSi	tert-butyldimethylsilyl chloride	18162-48-6	21.25	0.8837	2	9508	C7H3ClF3NO2	4-chloro-3-nitrobenzotrifluoride	121-17-5	20.00	1.7706	2
9173	C6H15N	hexylamine	111-26-2	-21.30	0.9300	2	9511	C7H3ClN2O2	2-chloro-5-nitrobenzonitrile	16588-02-6	25.00	1.5388	2
9202	C6H15N	di-propylamine	142-84-7	-63.00	0.9461	2	9512	C7H3ClN2O2	2-chloro-4-nitrobenzonitrile	28163-00-0	25.00	1.5388	2
9203	C6H15N	diisopropylamine	108-18-9	-96.30	0.9532	2	9513	C7H3ClN2O2	5-chloro-2-nitrobenzonitrile	34662-31-2	25.00	1.5388	2
9208	C6H15N	dimethylbutylamine	927-62-8	-63.15	0.9259	2	9514	C7H3ClN2O2	4-chloro-3-nitrobenzonitrile	939-80-0	25.00	1.5388	2
9212	C6H15N	triethylamine	121-44-8	-114.70	0.9806	2	9515	C7H3ClN2O5	3,5-dinitrobenzoyl chloride	99-33-2	25.00	1.7017	2
9213	C6H15NO	6-aminohexanol	4048-33-3	57.85	0.9200	2	9516	C7H3ClN2O6	4-chloro-3,5-dinitrobenzoic acid	118-97-8	25.00	1.7473	2
9214	C6H15NO	2-amino-4-methyl-1-pentanol, (±)	16369-17-8	13.00	0.9173	1	9517	C7H3ClN2O6	2-chloro-3,5-dinitrobenzoic acid	2497-91-8	25.00	1.7473	2
9215	C6H15NO	2-(butylamino)ethanol	111-75-1	20.00	0.8907	1	9518	C7H3Cl2FO2	2,4-dichloro-5-fluorobenzoic acid	86522-89-6	25.00	1.5231	2
9216	C6H15NO	2-[tert-butylamino]ethanol	4620-70-6	20.00	0.8818	1	9519	C7H3Cl2F3	2,4-dichlorobenzotrifluoride	320-60-5	-25.60	1.8297	2
9217	C6H15NO	2-diethylaminoethanol	100-37-8	-20.15	1.0805	2	9523	C7H3Cl2N	2,6-dichlorobenzonitrile	1194-65-6	25.00	1.4292	2
9219	C6H15NO	N-hydroxy-N-propyl-1-propanamine	7446-43-7	21.64	0.8872	2	9524	C7H3Cl2N	2,3-dichlorobenzonitrile	6574-97-6	25.00	1.4292	2
9220	C6H15NO	2-(isobutylamino)ethanol	17091-40-6	20.00	0.8818	1	9525	C7H3Cl2N	2,4-dichlorobenzonitrile	6574-98-7	25.00	1.4292	2
9221	C6H15NO	DL-2-amino-1-hexanol	5665-74-7	25.00	0.9120	1	9526	C7H3Cl2N	3,5-dichlorobenzonitrile	6575-00-4	25.00	1.4292	2
9223	C6H15NO	(S)-(+)-isoleucinol	24629-25-2	21.64	0.8872	2	9527	C7H3Cl2NO	3,4-dichlorophenyl isocyanate	102-36-3	43.00	1.6432	2
9224	C6H15NO	3-isopropoxypropylamine	2906-12-9	25.00	0.8430	1	9528	C7H3Cl2NO	2,4-dichlorophenyl isocyanate	2612-57-9	25.00	1.4000	2
9225	C6H15NO	L-tert-leucinol	112245-13-3	25.00	0.9000	1	9529	C7H3Cl2NO	3,5-dichlorophenyl isocyanate	34893-92-0	25.00	1.3800	1
9228	C6H15NO	4-amino-4-methyl-2-pentanol	4404-98-2	21.64	0.8872	2	9530	C7H3Cl2NO	2,6-dichlorophenyl isocyanate	39920-37-1	25.00	1.4000	2
9230	C6H15NO2	diisopropanolamine	110-97-4	45.00	1.1561	2	9532	C7H3Cl2NO	2,5-dichlorophenyl isocyanate	5392-82-5	25.00	1.4000	2
9239	C6H15NO3	triethanolamine	102-71-6	21.20	1.3144	2	9533	C7H3Cl2NO2	2,6-pyridinedicarbonyl chloride	3739-94-4	25.00	1.5504	2
9240	C6H15NO5	1-amino-1-deoxy-D-glucitol	488-43-7	25.00	1.1273	2	9534	C7H3Cl2NO3	4-chloro-3-nitrobenzoyl chloride	38818-50-7	25.00	1.6035	2
9241	C6H15NO5S	bes	10191-18-1	25.00	1.2097	2	9536	C7H3Cl2NS	3,5-dichlorophenyl isothiocyanate	6590-93-8	25.00	1.4228	2
9242	C6H15NO6S	TES	7365-44-8	25.00	1.2603	2	9538	C7H3Cl2NS	2,4-dichlorophenyl isothiocyanate	6590-96-1	25.00	1.4100	1
9247	C6H15N3	N-aminoethyl piperazine	140-31-8	-19.00	1.1797	2	9539	C7H3Cl2NS	2,3-dichlorophenyl isothiocyanate	6590-97-2	25.00	1.4340	1
9248	C6H15N3	1,4,7-triazacyclononane	4730-54-5	25.00	0.9510	2	9542	C7H3Cl3O	3,5-dichlorobenzoyl chloride	2905-62-6	25.00	1.5078	2
9250	C6H15N3O	1-amino-4-(2-hydroxyethyl)piperazine	3973-70-4	25.00	0.9894	2	9543	C7H3Cl3O	2,6-dichlorobenzoyl chloride	4659-45-4	25.00	1.4560	1
9268	C6H15O4P	triethyl phosphate	78-40-0	-56.50	1.3389	2	9544	C7H3Cl3O	2,3,6-trichlorobenzaldehyde	4659-47-6	25.00	1.5078	2
9280	C6H16ClN	triethylamine hydrochloride	554-68-7	21.00	1.0689	1	9545	C7H3Cl3O	2,3,5-trichlorobenzaldehyde	56961-75-2	25.00	1.5078	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
9546	C7H3Cl3O2	2,3,6-trichlorobenzoic acid	50-31-7	25.00	1.5599	2	9697	C7H4ClN	3-chlorobenzonitrile	766-84-7	25.00	1.2777	2
9547	C7H3Cl3O2	2,4,5-trichlorobenzoic acid	50-82-8	25.00	1.5599	2	9698	C7H4ClN	4-chlorobenzonitrile	623-03-0	17.00	1.1133	1
9548	C7H3Cl3O2	2,4,6-trichlorobenzoic acid	50-43-1	25.00	1.5599	2	9700	C7H4ClNO	1-chloro-2-isocyanatobenzene	3320-83-0	21.50	1.3027	2
9549	C7H3Cl3O2	2,3,5-trichlorobenzoic acid	50-73-7	25.00	1.5599	2	9701	C7H4ClNO	4-chlorophenyl isocyanate	104-12-1	21.50	1.3027	2
9550	C7H3Cl4F	a,a,a,2-tetrachloro-6-fluorotoluene	84473-83-6	25.00	1.5458	2	9702	C7H4ClNO	5-chlorobenzoxazole	17200-29-2	21.50	1.3027	2
9552	C7H3Cl5	1,2-dichloro-4-(trichloromethyl)benzene	13014-24-9	20.00	1.5913	1	9704	C7H4ClNOS	6-chloro-2-benzoxazolethiol	22876-20-6	25.00	1.4407	2
9553	C7H3Cl5	2,3,4,5,6-pentachlorotoluene	877-11-2	20.00	1.5935	2	9705	C7H4ClNO2	5-chloro-2(3H)-benzoxazolone	95-25-0	25.00	1.4261	2
9554	C7H3Cl5	1,2,3-trichloro-4-(dichloromethyl)benzene	56961-82-1	20.00	1.5935	2	9706	C7H4ClNO2	6-chloro-2-benzoxazolinone	19932-84-4	25.00	1.4261	2
9558	C7H3Cl5O	methyl pentachlorophenate	1825-21-4	25.00	1.6178	2	9707	C7H4ClNO3	3-nitrobenzoyl chloride	121-90-4	25.00	1.4903	2
9559	C7H3FN2O3	4-fluoro-2-nitrophenyl isocyanate	90774-51-	25.00	1.5571	2	9708	C7H4ClNO3	p-nitrobenzoyl chloride	122-04-3	25.00	1.4903	2
9560	C7H3FN2O3	4-fluoro-3-nitrophenyl isocyanate	65303-82-4	25.00	1.4530	1	9709	C7H4ClNO3	4-chloro-3-nitrobenzaldehyde	16588-34-4	25.00	1.4903	2
9561	C7H3F2N	2,6-difluorobenzonitrile	1897-52-5	25.00	1.2460	1	9713	C7H4ClNO3S	4-(chlorosulfonyl)phenyl isocyanate	6752-38-1	25.00	1.5536	2
9563	C7H3F2N	2,4-difluorobenzonitrile	3939-09-1	25.00	1.2490	2	9714	C7H4ClNO4	2-chloro-3-nitrobenzoic acid	3970-35-2	18.00	1.6620	1
9564	C7H3F2N	3,4-difluorobenzonitrile	64248-62-0	25.00	1.2490	2	9715	C7H4ClNO4	2-chloro-5-nitrobenzoic acid	2516-96-3	18.00	1.6080	1
9565	C7H3F2N	3,5-difluorobenzonitrile	64248-63-1	25.00	1.2490	2	9716	C7H4ClNO4	3-chloro-2-nitrobenzoic acid	4771-47-5	18.00	1.5660	1
9566	C7H3F2N	2,5-difluorobenzonitrile	64248-64-2	25.00	1.2490	2	9717	C7H4ClNO4	4-chloro-3-nitrobenzoic acid	96-99-1	18.00	1.6450	1
9573	C7H3F3N2O4	3,5-dinitrobenzotrifluoride	401-99-0	25.00	1.6588	2	9718	C7H4ClNO4	5-chloro-2-nitrobenzoic acid	2516-95-2	18.00	1.6203	2
9579	C7H3F3O2	3,4,5-trifluorobenzoic acid	121602-93-5	25.00	1.4362	2	9719	C7H4ClNO4	4-chloro-2-nitrobenzoic acid	6280-88-2	18.00	1.6203	2
9580	C7H3F3O2	2,4,6-trifluorobenzoic acid	28314-80-9	25.00	1.4362	2	9720	C7H4ClNO4	2-chloro-4-nitrobenzoic acid	99-60-5	18.00	1.6203	2
9581	C7H3F3O2	2,4,5-trifluorobenzoic acid	446-17-3	25.00	1.4362	2	9721	C7H4ClNO4	2-nitrophenyl chloroformate	50353-00-9	18.00	1.6203	2
9582	C7H3F3O2	2,3,4-trifluorobenzoic acid	61079-72-9	25.00	1.4362	2	9722	C7H4ClNO4	4-nitrophenyl chloroformate	7693-46-1	18.00	1.6203	2
9589	C7H3F5O	2,3,4,5,6-pentafluorobenzyl alcohol	440-60-8	25.00	1.4485	2	9724	C7H4ClNS	1-chloro-4-isothiocyanatobenzene	2131-55-7	20.00	1.3195	2
9590	C7H3F12N3	4-amino-2,2,5,5-tetrakis(trifluoromethyl)-3-*	23757-42-8	25.00	1.6760	2	9727	C7H4ClNS2	5-chloro-2-mercaptobenzothiazole	5331-91-9	25.00	1.4532	2
9593	C7H3I2NO	ioxynil	1689-83-4	25.00	2.4947	2	9729	C7H4ClN3O2	2-amino-3-chloro-5-nitrobenzonitrile	20352-84-5	25.00	1.5509	2
9594	C7H3I3O2	3,4,5-triiodobenzoic acid	2338-20-7	25.00	2.7985	2	9732	C7H4Cl2F3N	2,6-dichloro-4-(trifluoromethyl)aniline	24279-39-8	25.00	1.5320	1
9595	C7H3I3O2	2,3,5-triiodobenzoic acid	88-82-4	25.00	2.7985	2	9733	C7H4Cl2N2	2-amino-3,5-dichlorobenzonitrile	36764-94-0	25.00	1.4486	2
9596	C7H3NO3	2,3-pyridinedicarboxylic anhydride	699-98-9	25.00	1.4501	2	9734	C7H4Cl2N2	4-amino-3,5-dichlorobenzonitrile	78473-00-4	25.00	1.4486	2
9598	C7H3IN2O3	4-hydroxy-3-iodo-5-nitrobenzonitrile	1689-89-0	25.00	2.1385	2	9736	C7H4Cl2O	m-chlorobenzoyl chloride	618-46-2	6.85	1.6976	2
9599	C7H3N3O4	3,5-dinitrobenzonitrile	4110-35-4	25.00	1.6516	2	9739	C7H4Cl2O	2,5-dichlorobenzaldehyde	6361-23-5	22.50	1.4035	2
9602	C7H3N3O8	2,4,6-trinitrobenzoic acid	129-66-8	25.00	1.8445	2	9740	C7H4Cl2O	3,4-dichlorobenzaldehyde	6287-38-3	22.50	1.4035	2
9606	C7H4BrClF3N	4-amino-3-bromo-5-chlorobenzotrifluoride	109919-26-8	25.00	1.7463	2	9741	C7H4Cl2O	3,5-dichlorobenzaldehyde	10203-08-4	22.50	1.4035	2
9610	C7H4BrClO	4-bromobenzoyl chloride	586-75-4	25.00	1.7028	2	9742	C7H4Cl2O	2,3-dichlorobenzaldehyde	6334-18-5	22.50	1.4035	2
9612	C7H4BrClO2	5-bromo-2-chlorobenzoic acid	21739-92-4	25.00	1.7506	2	9743	C7H4Cl2O	2,6-dichlorobenzaldehyde	83-38-5	22.50	1.4035	2
9613	C7H4BrClO2	3-bromo-5-chloro-2-hydroxybenzaldehyde	19652-32-5	25.00	1.7506	2	9744	C7H4Cl2O	2,4-dichlorobenzaldehyde	874-42-0	22.50	1.4035	2
9615	C7H4BrFO	4-bromo-2-fluorobenzaldehyde	57848-46-1	25.00	1.6698	2	9745	C7H4Cl2O2	2,4-dichlorobenzoic acid	50-84-0	25.00	1.4487	2
9616	C7H4BrFO	3-bromo-4-fluorobenzaldehyde	77771-02-9	25.00	1.6698	2	9746	C7H4Cl2O2	2,5-dichlorobenzoic acid	50-79-3	25.00	1.4487	2
9618	C7H4BrFO2	2-bromo-4-fluorobenzoic acid	1006-41-3	25.00	1.7218	2	9747	C7H4Cl2O2	2,6-dichlorobenzoic acid	50-30-6	25.00	1.4487	2
9623	C7H4BrF3	2,3,6-trifluorobenzyl bromide	151412-02-1	25.00	1.7180	1	9748	C7H4Cl2O2	3,5-dichlorobenzoic acid	51-36-5	25.00	1.4487	2
9627	C7H4BrF3N2O2	4-amino-3-bromo-5-nitrobenzotrifluoride	113170-71-1	25.00	1.8334	2	9749	C7H4Cl2O2	2,3-dichlorobenzoic acid	50-45-3	25.00	1.4487	2
9631	C7H4BrN	2-bromobenzonitrile	2042-37-7	25.00	1.6498	2	9750	C7H4Cl2O2	3,4-dichlorobenzoic acid	51-44-5	25.00	1.4487	2
9632	C7H4BrN	3-bromobenzonitrile	6952-59-6	25.00	1.6498	2	9751	C7H4Cl2O2	3,5-dichlorosalicylaldehyde	90-60-8	25.00	1.4487	2
9633	C7H4BrN	4-bromobenzonitrile	623-00-7	25.00	1.6498	2	9752	C7H4Cl2O3	3,5-dichloro-2-hydroxybenzoic acid	320-72-9	25.00	1.5059	2
9637	C7H4BrNOS	6-bromo-2-benzothiazolinone	62266-82-4	25.00	1.7496	2	9753	C7H4Cl2O3	3,5-dichloro-4-hydroxybenzoic acid	3336-41-2	25.00	1.5059	2
9640	C7H4BrNO4	2-bromo-4-nitrobenzoic acid	16426-64-5	25.00	1.8527	2	9758	C7H4Cl3NO3	triclopyr	55335-06-3	25.00	1.6140	2
9641	C7H4BrNO4	2-bromo-5-nitrobenzoic acid	943-14-6	25.00	1.8527	2	9760	C7H4Cl4	1-chloro-2-(trichloromethyl)benzene	2136-89-2	20.00	1.5187	1
9642	C7H4BrNO4	4-bromo-3-nitrobenzoic acid	6319-40-0	25.00	1.8527	2	9762	C7H4Cl4	1-chloro-4-(trichloromethyl)benzene	5216-25-1	20.00	1.4463	1
9643	C7H4BrNO4	2-nitro-5-bromobenzoic acid	6950-43-2	18.00	1.9200	1	9763	C7H4Cl4	1,2-dichloro-4-(dichloromethyl)benzene	56961-84-3	22.00	1.5150	1
9646	C7H4BrNS	p-bromophenyl isothiocyanate	1985-12-2	25.00	1.7006	2	9764	C7H4Cl4	1,2,3,5-tetrachloro-4-methylbenzene	875-40-1	19.20	1.5044	2
9647	C7H4BrN3O	p-bromobenzoyl azide	14917-59-0	25.00	1.8164	2	9765	C7H4Cl4	1,2,4,5-tetrachloro-3-methylbenzene	1006-31-1	19.20	1.5044	2
9649	C7H4BrN3O2	3-bromo-7-nitroindazole	74209-34-0	25.00	1.8610	2	9766	C7H4Cl4	1,2,4-trichloro-5-(chloromethyl)benzene	3955-26-8	20.00	1.5470	1
9651	C7H4Br2F3N	4-amino-3,5-dibromobenzotrifluoride	72678-19-4	25.00	1.9954	2	9767	C7H4Cl4	trichlorobenzyl chloride	1344-32-7	19.20	1.5044	2
9652	C7H4Br2N2	2-amino-3,5-dibromobenzonitrile	68385-95-5	25.00	2.0527	2	9768	C7H4Cl4O	2,3,4,6-tetrachloro-5-methylphenol	10460-33-0	25.00	1.5311	2
9654	C7H4Br2O2	2,4-dibromobenzoic acid	611-00-7	25.00	2.0408	2	9769	C7H4Cl4O2	2,3,5,6-tetrachloro-4-methoxyphenol	484-67-3	25.00	1.5756	2
9655	C7H4Br2O2	2,5-dibromobenzoic acid	610-71-9	25.00	2.0408	2	9771	C7H4FIO2	2-fluoro-6-iodobenzoic acid	111771-08-5	25.00	1.9575	2
9656	C7H4Br2O2	2,6-dibromobenzoic acid	601-84-3	25.00	2.0408	2	9772	C7H4FN	4-fluorobenzonitrile	1194-02-1	55.00	1.1070	1
9657	C7H4Br2O2	3,5-dibromo-2-hydroxybenzaldehyde	90-59-5	25.00	2.0408	2	9778	C7H4FNO3S	4-fluorobenzenesulfonyl isocyanate	3895-25-8	25.00	1.5152	2
9658	C7H4Br2O2	3,5-dibromobenzoic acid	618-58-6	25.00	2.0408	2	9779	C7H4FNO4	4-fluoro-3-nitrobenzoic acid	453-71-4	25.00	1.5071	2
9659	C7H4Br2O2	3,5-dibromo-4-hydroxybenzaldehyde	2973-77-5	25.00	2.0408	2	9782	C7H4FNS	4-fluorophenyl isothiocyanate	1544-68-9	25.00	1.2813	2
9660	C7H4Br2O3	3,5-dibromo-2-hydroxybenzoic acid	3147-55-5	25.00	2.0726	2	9790	C7H4F2O2	2,4-difluorobenzoic acid	1583-58-0	25.00	1.3486	2
9661	C7H4Br2O3	3,5-dibromo-4-hydroxybenzoic acid	3337-62-0	25.00	2.0726	2	9791	C7H4F2O2	2,5-difluorobenzoic acid	2991-28-8	25.00	1.3486	2
9662	C7H4Br2O5	2,6-dibromo-3,4,5-trihydroxybenzoic acid	602-92-6	25.00	2.1292	2	9792	C7H4F2O2	2,6-difluorobenzoic acid	385-00-2	25.00	1.3486	2
9663	C7H4Br4O	1,2,3,5-tetrabromo-4-methoxybenzene	95970-07-3	25.00	2.4745	2	9793	C7H4F2O2	2,3-difluorobenzoic acid	4519-39-5	25.00	1.3486	2
9664	C7H4Br4O	2,3,4,5-tetrabromo-6-methylphenol	576-55-6	25.00	2.4745	2	9794	C7H4F2O2	3,5-difluorobenzoic acid	455-40-3	25.00	1.3486	2
9665	C7H4Br4O	2,3,5,6-tetrabromo-4-methylphenol	37721-75-8	25.00	2.4745	2	9795	C7H4F2O2	3,4-difluorobenzoic acid	455-86-7	25.00	1.3486	2
9666	C7H4ClFN2S	6-chloro-5-fluorobenzimidazole-2-thiol	142313-30-2	25.00	1.4752	2	9799	C7H4F3NO2	3-nitrobenzotrifluoride	98-46-4	-1.15	1.7104	2
9671	C7H4ClFO	4-chloro-2-fluorobenzaldehyde	61072-56-8	25.00	1.3310	2	9800	C7H4F3NO2	1-nitro-2-(trifluoromethyl)benzene	384-22-5	25.00	1.3910	2
9672	C7H4ClFO	3-chloro-4-fluorobenzaldehyde	34328-61-5	25.00	1.3310	2	9801	C7H4F3NO2	4-nitro-a,a,a-trifluorotoluene	402-54-0	25.00	1.3910	2
9673	C7H4ClFO	2-chloro-6-fluorobenzaldehyde	387-45-1	25.00	1.3310	2	9803	C7H4F3NO2S	2-nitro-4-(trifluoromethyl)benzenethiol	14371-82-5	25.00	1.5190	2
9674	C7H4ClFO	2-chloro-4-fluorobenzaldehyde	84194-36-5	25.00	1.3310	2	9805	C7H4F3NO3	4-nitro-3-(trifluoromethyl)phenol	88-30-2	25.00	1.5120	2
9677	C7H4ClFO2	2-chloro-4-fluorobenzoic acid	2252-51-9	25.00	1.4016	2	9810	C7H4F4N2O	4-amino-2,3,5,6-tetrafluorobenzamide	1548-74-9	25.00	1.4878	2
9678	C7H4ClFO2	3-chloro-4-fluorobenzoic acid	403-16-7	25.00	1.4016	2	9817	C7H4F6N2O4S2	N-(2-pyridyl)bis(trifluoromethanesulfonimide)	145100-50-1	25.00	1.7255	2
9679	C7H4ClFO2	2-chloro-6-fluorobenzoic acid	434-75-3	25.00	1.4016	2	9820	C7H4I2O3	2-hydroxy-3,5-diiodobenzoic acid	133-91-5	25.00	2.4343	2
9680	C7H4ClFO2	4-chloro-2-fluorobenzoic acid	446-30-0	25.00	1.4016	2	9821	C7H4I2O3	4-hydroxy-3,5-diiodobenzoic acid	618-76-8	25.00	2.4343	2
9682	C7H4ClFO3S	4-(fluorosulfonyl)benzoyl chloride	402-55-1	25.00	1.5278	2	9822	C7H4IN	4-iodobenzonitrile	3058-39-7	25.00	1.9241	2
9683	C7H4ClFO4S	2-chloro-5-(fluorosulfonyl)benzoic acid	21346-66-7	25.00	1.5768	2	9826	C7H4I3NO2	3-amino-2,4,6-triiodobenzoic acid	3119-15-1	25.00	2.7479	2
9684	C7H4ClF3	p-chlorobenzotrifluoride	98-56-6	-33.18	1.6503	2	9828	C7H4N2O2	2-nitrobenzonitrile	612-24-8	25.00	1.3979	2
9687	C7H4ClF3N2O2	4-amino-3-chloro-5-nitrobenzotrifluoride	57729-79-0	25.00	1.5744	2	9829	C7H4N2O2	3-nitrobenzonitrile	619-24-9	25.00	1.3979	2
9694	C7H4ClIO	4-iodobenzoyl chloride	1711-02-0	25.00	1.9367	2	9830	C7H4N2O2	4-nitrobenzonitrile	619-72-7	25.00	1.3979	2
9695	C7H4ClIO	2-iodobenzoyl chloride	609-67-6	25.00	1.9367	2	9832	C7H4N2O2	2,3-pyridinedicarboximide	4664-00-0	25.00	1.3979	2
9696	C7H4ClN	2-chlorobenzonitrile	873-32-5	25.00	1.2777	2	9834	C7H4N2O2S	4-nitrophenyl isothiocyanate	2131-61-5	25.00	1.4827	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
9835	C7H4N2O2S	3-nitrophenyl isothiocyanate	3529-82-6	25.00	1.4827	2	9970	C7H5Cl3	1,2,3-trichloro-4-methylbenzene	7359-72-0	25.00	1.3950	2
9836	C7H4N2O2S2	2-mercapto-6-nitrobenzothiazole	4845-58-3	25.00	1.5483	2	9971	C7H5Cl3	1,2,3-trichloro-5-methylbenzene	21472-86-6	25.00	1.3950	2
9838	C7H4N2O3	1-isocyanato-2-nitrobenzene	3320-86-3	25.00	1.4709	2	9972	C7H5Cl3	1,2,4-trichloro-5-methylbenzene	6639-30-1	25.00	1.3950	2
9839	C7H4N2O3	1-isocyanato-3-nitrobenzene	3320-87-4	25.00	1.4709	2	9973	C7H5Cl3	1,2,5-trichloro-3-methylbenzene	56961-86-5	25.00	1.3950	2
9840	C7H4N2O3	1-isocyanato-4-nitrobenzene	100-28-7	25.00	1.4709	2	9974	C7H5Cl3	3-chlorobenzal chloride	15145-69-4	25.00	1.3950	2
9841	C7H4N2O3	4-hydroxy-3-nitrobenzonitrile	3272-08-0	25.00	1.4709	2	9975	C7H5Cl3	2,6-dichlorobenzyl chloride	2014-83-7	25.00	1.3950	2
9844	C7H4N2O5	2,4-dinitrobenzaldehyde	528-75-6	25.00	1.5970	2	9976	C7H5Cl3	dichlorobenzyl chloride	38721-71-0	25.00	1.4100	1
9845	C7H4N2O6	3,4-dinitrobenzoic acid	528-45-0	25.00	1.6517	2	9978	C7H5Cl3	2,3,6-trichlorotoluene	2077-46-5	25.00	1.3950	2
9846	C7H4N2O6	3,5-dinitrobenzoic acid	99-34-3	25.00	1.6517	2	9979	C7H5Cl3	a-a-p-trichlorotoluene	13940-94-8	25.00	1.3950	2
9847	C7H4N2O6	2,4-dinitrobenzoic acid	610-30-0	25.00	1.6517	2	9980	C7H5Cl3O	1,2,4-trichloro-3-methoxybenzene	50375-10-5	25.00	1.4295	2
9849	C7H4N2O7	3,5-dinitrosalicylic acid	609-99-4	25.00	1.7019	2	9981	C7H5Cl3O	1,2,4-trichloro-5-methoxybenzene	6130-75-2	25.00	1.4295	2
9850	C7H4N2O7	4-hydroxy-3,5-dinitrobenzoic acid	1019-52-9	25.00	1.7019	2	9982	C7H5Cl3O	1,3,5-trichloro-2-methoxybenzene	87-40-1	25.00	1.6400	1
9851	C7H4N4O3	4-nitrobenzoyl azide	2733-41-7	25.00	1.6002	2	9983	C7H5Cl3O	2,4,6-trichloro-3-methylphenol	551-76-8	25.00	1.4295	2
9854	C7H4O3S	6-hydroxy-1,3-benzoxathiol-2-one	4991-65-5	25.00	1.4175	2	9984	C7H5Cl3O	2,3,4-trichloro-6-methylphenol	551-78-0	25.00	1.4295	2
9855	C7H4O4S	3H-2,1-benzoxathiol-3-one 1,1-dioxide	81-08-3	25.00	1.4822	2	9985	C7H5Cl3O	2,3,6-trichloro-4-methylphenol	551-77-9	25.00	1.4295	2
9856	C7H4O6	4-oxo-4H-pyran-2,6-dicarboxylic acid	99-32-1	25.00	1.5351	2	9988	C7H5Cl3S	methyl 2,4,5-trichlorophenyl sulfide	4163-78-4	25.00	1.4412	2
9857	C7H4O7	3-hydroxy-4-oxo-4H-pyran-2,6-dicarboxylic ac*	497-59-6	25.00	1.5939	2	9992	C7H5FN2S	2-amino-6-fluorobenzothiazole	348-40-3	25.00	1.3490	2
9866	C7H5BrCl2	a-bromo-2,6-dichlorotoluene	20443-98-5	25.00	1.6550	2	9997	C7H5FO2	2-fluorobenzoic acid	445-29-4	25.00	1.4600	1
9870	C7H5BrF2	a-bromo-2,6-difluorotoluene	85118-00-9	25.00	1.6075	2	9998	C7H5FO2	3-fluorobenzoic acid	455-38-9	25.00	1.4740	1
9875	C7H5BrF3N	4-bromo-3-(trifluoromethyl)aniline	393-36-2	25.00	1.6925	2	9999	C7H5FO2	p-fluorobenzoic acid	456-22-4	25.00	1.4790	1
9877	C7H5BrF3N	2-bromo-5-(trifluoromethyl)aniline	454-79-5	25.00	1.6750	1	10001	C7H5FO3	5-fluorosalicylic acid	345-16-4	25.00	1.3290	2
9878	C7H5BrF3N	2-bromo-4-(trifluoromethyl)aniline	57946-63-1	25.00	1.6925	2	10002	C7H5F2NO	2,6-difluorobenzamide	18063-03-1	25.00	1.3053	2
9881	C7H5BrN2	2-amino-5-bromobenzonitrile	39263-32-6	25.00	1.6546	2	10003	C7H5F3	benzotrifluoride	98-08-8	-29.01	1.4611	2
9882	C7H5BrN2	4-amino-3-bromobenzonitrile	50397-74-5	25.00	1.6546	2	10004	C7H5F3N2O2	2-amino-5-nitrobenzotrifluoride	121-01-7	25.00	1.4711	2
9885	C7H5BrN4	5-(2-bromophenyl)-1H-tetrazole	73096-42-1	25.00	1.7640	2	10005	C7H5F3N2O2	5-amino-2-nitrobenzotrifluoride	393-11-3	25.00	1.4711	2
9889	C7H5BrO	4-bromobenzaldehyde	1122-91-4	25.00	1.5922	2	10006	C7H5F3N2O2	4-amino-3-nitrobenzotrifluoride	400-98-6	25.00	1.4711	2
9890	C7H5BrO2	2-bromobenzoic acid	88-65-3	25.00	1.9290	1	10009	C7H5F3O	a,a,a-trifluoro-o-cresol	444-30-4	25.00	1.3226	2
9891	C7H5BrO2	3-bromobenzoic acid	585-76-2	20.00	1.8450	1	10011	C7H5F3O	4-(trifluoromethyl)phenol	402-45-9	25.00	1.3226	2
9892	C7H5BrO2	4-bromobenzoic acid	586-76-5	20.00	1.8940	1	10015	C7H5F3OS	4-(trifluoromethylthio)phenol	461-84-7	25.00	1.3716	2
9894	C7H5BrO3	5-bromo-2-hydroxybenzoic acid	89-55-4	25.00	1.7030	2	10028	C7H5IO	2-iodobenzaldehyde	26260-02-6	25.00	1.8576	2
9895	C7H5Br2F	4-bromo-2-fluorobenzyl bromide	76283-09-5	25.00	1.9094	2	10029	C7H5IO	3-iodobenzaldehyde	696-41-3	25.00	1.8576	2
9898	C7H5Br2NO	2-amino-3,5-dibromobenzaldehyde	50910-55-9	25.00	1.9881	2	10030	C7H5IO	4-iodobenzaldehyde	15164-44-0	25.00	1.8576	2
9899	C7H5Br3	1,3-dibromo-5-(bromomethyl)benzene	56908-88-4	25.00	2.1881	2	10031	C7H5IO2	o-iodobenzoic acid	88-67-5	25.00	2.2500	1
9900	C7H5Br3	1,3,5-tribromo-2-methylbenzene	6320-40-7	17.00	2.4790	1	10032	C7H5IO2	m-iodobenzoic acid	618-51-9	22.50	2.2170	2
9901	C7H5Br3O	1,2,3-tribromo-5-methoxybenzene	73557-60-5	25.00	2.2119	2	10033	C7H5IO2	p-iodobenzoic acid	619-58-9	20.00	2.1840	1
9902	C7H5Br3O	1,2,4-tribromo-5-methoxybenzene	95970-10-8	25.00	2.2119	2	10034	C7H5IO3	4-hydroxy-3-iodobenzoic acid	37470-46-5	25.00	1.9394	2
9903	C7H5Br3O	1,2,5-tribromo-3-methoxybenzene	73931-44-9	25.00	2.2119	2	10035	C7H5IO3	5-hydroxy-2-iodobenzoic acid	57772-57-3	25.00	1.9394	2
9904	C7H5Br3O	1,3,5-tribromo-2-methoxybenzene	607-99-8	25.00	2.4910	1	10036	C7H5IO3	5-iodosalicylic acid	119-30-2	25.00	1.9394	2
9905	C7H5Br3O	2,4,6-tribromo-3-methylphenol	4619-74-3	25.00	2.2119	2	10037	C7H5I2NO2	4-amino-3,5-diiodobenzoic acid	2122-61-4	25.00	2.3815	2
9907	C7H5ClF3N	5-amino-2-chlorobenzotrifluoride	320-51-4	25.00	1.4070	2	10038	C7H5I2NO2	2-amino-3,5-diiodobenzoic acid	609-86-9	25.00	2.3815	2
9909	C7H5ClF3N	2-chloro-5-(trifluoromethyl)aniline	121-50-6	25.00	1.4280	1	10039	C7H5I3	1,3,5-triiodo-2-methylbenzene	36994-79-3	25.00	2.6637	2
9910	C7H5ClF3N	4-chloro-2-(trifluoromethyl)aniline	445-03-4	25.00	1.3860	1	10045	C7H5N	benzonitrile	100-47-0	-12.75	1.2065	2
9913	C7H5ClN2	3-chloro-1H-indazole	29110-74-5	25.00	1.3106	2	10049	C7H5NO	phenyl isocyanate	103-71-9	-30.00	1.3461	2
9914	C7H5ClN2	2-amino-5-chlorobenzonitrile	5922-60-1	25.00	1.3106	2	10052	C7H5NO	benzoxazole	273-53-0	20.00	1.1754	1
9915	C7H5ClN2	2-chloro-1H-benzimidazole	4857-06-1	25.00	1.3106	2	10053	C7H5NO	3-(2-furanyl)-2-propenenitrile	7187-01-1	37.20	1.1458	2
9916	C7H5ClN2	2-chloro-6-methyl-3-pyridinecarbonitrile	28900-10-9	25.00	1.3106	2	10054	C7H5NO	2-hydroxybenzonitrile	611-20-1	100.00	1.1052	1
9918	C7H5ClN2O	5-chloro-2-benzoxazolamine	61-80-3	25.00	1.3813	2	10055	C7H5NO	3-cyanophenol	873-62-1	37.20	1.1458	2
9923	C7H5ClN2S	2-amino-4-chlorobenzothiazole	19952-47-7	25.00	1.3990	2	10056	C7H5NO	4-hydroxybenzonitrile	767-00-0	37.20	1.1458	2
9924	C7H5ClN2S	2-amino-6-chlorobenzothiazole	95-24-9	25.00	1.3990	2	10057	C7H5NOS	2(3H)-benzothiazolone	934-34-9	25.00	1.3015	2
9925	C7H5ClN2S	5-chloro-2-mercaptobenzimidazole	25369-78-2	25.00	1.3990	2	10058	C7H5NOS	2-mercaptobenzoxazole	2382-96-9	25.00	1.3015	2
9926	C7H5ClN4	5-chloro-1-phenyl-1H-tetrazole	14210-25-4	25.00	1.4457	2	10059	C7H5NOS	2-thenoylacetonitrile	33898-90-7	25.00	1.3015	2
9927	C7H5ClO	benzoyl chloride	98-88-4	-0.50	1.4479	2	10061	C7H5NO2	2-benzoxazolol	69564-68-7	25.00	1.2721	2
9930	C7H5ClO	4-chlorobenzaldehyde	104-88-1	61.00	1.1960	1	10062	C7H5NO2	2(3H)-benzoxazolone	59-49-4	25.00	1.2721	2
9932	C7H5ClO2	o-chlorobenzoic acid	118-91-2	25.00	1.5440	2	10063	C7H5NO2	3,5-dihydroxybenzonitrile	19179-36-3	25.00	1.2721	2
9933	C7H5ClO2	m-chlorobenzoic acid	535-80-8	25.00	1.4960	1	10064	C7H5NO2	2-furoylacetonitrile	31909-58-7	25.00	1.2721	2
9934	C7H5ClO2	p-chlorobenzoic acid	74-11-3	22.50	1.4228	2	10065	C7H5NO2	2,6-pyridinedicarboxaldehyde	5431-44-7	25.00	1.2721	2
9935	C7H5ClO2	3-chloro-4-hydroxybenzaldehyde	2420-16-8	22.50	1.4228	2	10066	C7H5NO3	2-nitrobenzaldehyde	552-89-6	20.00	1.2844	1
9936	C7H5ClO2	5-chloro-2-hydroxybenzaldehyde	635-93-8	22.50	1.4228	2	10067	C7H5NO3	3-nitrobenzaldehyde	99-61-6	20.00	1.2792	1
9940	C7H5ClO3	3-chlorobenzenecarboperoxoic acid	937-14-4	25.00	1.3830	2	10068	C7H5NO3	4-nitrobenzaldehyde	555-16-8	25.00	1.4960	1
9941	C7H5ClO3	3-chloro-4-hydroxybenzoic acid	3964-58-7	25.00	1.3830	2	10069	C7H5NO3S	saccharin	81-07-2	25.00	0.8280	1
9942	C7H5ClO3	5-chlorosalicylic acid	321-14-2	25.00	1.3830	2	10071	C7H5NO4	o-nitrobenzoic acid	552-16-9	20.00	1.5750	1
9943	C7H5ClO3	4-chlorosalicylic acid	5106-98-9	25.00	1.3830	2	10072	C7H5NO4	m-nitrobenzoic acid	121-92-6	20.00	1.4940	1
9944	C7H5ClO3S	a-chloro-a-hydroxy-2-toluenesulfonic acidg-s*	25595-59-9	25.00	1.4581	2	10073	C7H5NO4	p-nitrobenzoic acid	62-23-7	20.00	1.6100	1
9945	C7H5ClO4S	4-(chlorosulfonyl)benzoic acid	10130-89-9	25.00	1.5116	2	10074	C7H5NO4	2,3-pyridinedicarboxylic acid	89-00-9	20.00	1.5597	2
9949	C7H5Cl2F	2-chloro-6-fluorobenzyl chloride	55117-15-2	25.00	1.4010	1	10075	C7H5NO4	2,4-pyridinedicarboxylic acid	499-80-9	20.00	1.5597	2
9952	C7H5Cl2FN2O3	fluroxypyr	69377-81-7	25.00	1.5905	2	10076	C7H5NO4	2,5-pyridinedicarboxylic acid	100-26-5	20.00	1.5597	2
9954	C7H5Cl2NO	2,6-dichlorobenzamide	2008-58-4	25.00	1.4078	2	10077	C7H5NO4	2,6-pyridinedicarboxylic acid	499-83-2	20.00	1.5597	2
9955	C7H5Cl2NO	2,4-dichlorobenzamide	2447-79-2	25.00	1.4078	2	10078	C7H5NO4	3,4-pyridinedicarboxylic acid	490-11-9	20.00	1.5597	2
9956	C7H5Cl2NO2	2-amino-3,6-dichlorobenzoic acid	3032-32-4	25.00	1.4653	2	10079	C7H5NO4	3,5-pyridinedicarboxylic acid	499-81-0	20.00	1.5597	2
9957	C7H5Cl2NO2	3-amino-2,5-dichlorobenzoic acid	133-90-4	25.00	1.4653	2	10080	C7H5NO4	4-hydroxy-3-nitrobenzaldehyde	3011-34-5	20.00	1.5597	2
9958	C7H5Cl2NO2	1-chloro-4-(chloromethyl)-2-nitrobenzene	57403-35-7	25.00	1.3200	1	10081	C7H5NO4	2-hydroxy-5-nitrobenzaldehyde	97-51-8	20.00	1.5597	2
9959	C7H5Cl2NO2	3,5-dichloroanthranilic acid	2789-92-6	25.00	1.4653	2	10082	C7H5NO4	1,2-(methylenedioxy)-4-nitrobenzene	2620-44-2	20.00	1.5597	2
9960	C7H5Cl2NO2	2,6-dichloro-3-nitrotoluene	29682-46-0	25.00	1.4653	2	10083	C7H5NO4	5-nitro-2-furanacrolein	1874-22-2	20.00	1.5597	2
9963	C7H5Cl2NO3	1,3-dichloro-2-methoxy-5-nitrobenzene	17742-69-7	25.00	1.5185	2	10084	C7H5NO4	3-nitrosalicylaldehyde	5274-70-4	20.00	1.5597	2
9964	C7H5Cl2NO4S	4-[(dichloroamino)sulfonyl]benzoic acid	80-13-7	25.00	1.6135	2	10086	C7H5NO5	2-hydroxy-3-nitrobenzoic acid	85-38-1	25.00	1.4880	2
9965	C7H5Cl2NO4S	2,4-dichloro-5-sulfamoylbenzoic acid	2736-23-4	25.00	1.6135	2	10087	C7H5NO5	2-hydroxy-5-nitrobenzoic acid	96-97-9	20.00	1.6500	1
9966	C7H5Cl2NS	2,6-dichlorothiobenzamide	1918-13-4	25.00	1.4220	2	10088	C7H5NO5	4-hydroxy-3-nitrobenzoic acid	616-82-0	25.00	1.4880	2
9967	C7H5Cl3	benzotrichloride	98-07-7	-4.75	1.6381	2	10089	C7H5NO5	3-hydroxy-4-nitrobenzoic acid	619-14-7	25.00	1.4880	2
9968	C7H5Cl3	1,2-dichloro-4-(chloromethyl)benzene	102-47-6	25.00	1.3950	2	10091	C7H5NO5	p-nitroperoxybenzoic acid	943-39-5	25.00	1.4880	2
9969	C7H5Cl3	1,3-dichloro-5-(chloromethyl)benzene	3290-06-0	25.00	1.3950	2	10093	C7H5NS	1,2-benzisothiazole	272-16-2	19.33	1.1764	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
10097	C7H5NS2	2(3H)-benzothiazolethione	149-30-4	20.00	1.4200	1	10243	C7H6ClNO3	4-chloro-2-nitroanisole	89-21-4	25.00	1.4048	2
10099	C7H5N2Cl	2-chloro-3-cyano-6-methylpyridine	35747-58-1	25.00	1.3106	2	10244	C7H6ClNO3	4-chloro-3-nitrobenzyl alcohol	55912-20-4	25.00	1.4048	2
10100	C7H5N3	1,2,4-benzotriazine	254-87-5	25.00	1.2672	2	10245	C7H6ClNO3	5-chloro-2-nitrobenzyl alcohol	73033-58-6	25.00	1.4048	2
10101	C7H5N3	pyrido[2,3-b]pyrazine	322-46-3	25.00	1.2672	2	10246	C7H6ClNO3	2-chloro-5-nitrobenzyl alcohol	80866-80-4	25.00	1.4048	2
10102	C7H5N3O	benzoyl azide	582-61-6	35.00	1.1680	1	10247	C7H6ClNO3	4-chloro-6-nitro-m-cresol	7147-89-9	25.00	1.4048	2
10104	C7H5N3O2	3-hydroxy-1,2,3-benzotriazin-4(3H)-one	28230-32-2	25.00	1.4221	2	10248	C7H6ClNO4S	2-methyl-5-nitrobenzenesulfonyl chloride	121-02-8	25.00	1.5231	2
10105	C7H5N3O2	5-nitroanthranilonitrile	17420-30-3	25.00	1.4221	2	10250	C7H6ClN3O4S2	chlorothiazide	58-94-6	25.00	1.6542	2
10106	C7H5N3O2	6-nitrobenzimidazole	94-52-0	25.00	1.4221	2	10252	C7H6Cl2	benzyl dichloride	98-87-3	-16.15	1.5088	2
10107	C7H5N3O2	7-nitroindazole	2942-42-9	25.00	1.4221	2	10253	C7H6Cl2	2,4-dichlorotoluene	95-73-8	-13.50	1.5040	2
10108	C7H5N3O2	6-nitroindazole	7597-18-4	25.00	1.4221	2	10256	C7H6Cl2	1-chloro-4-(chloromethyl)benzene	104-83-6	21.25	1.2572	2
10109	C7H5N3O2	2-nitrobenzimidazole	5709-67-1	25.00	1.4221	2	10259	C7H6Cl2	2,6-dichlorotoluene	118-69-4	20.00	1.2686	1
10110	C7H5N3O2S	3-amino-5-nitrobenzoisothiazole	84387-89-3	25.00	1.4984	2	10261	C7H6Cl2	3,5-dichlorotoluene	25186-47-4	21.25	1.2572	2
10111	C7H5N3O2S	2-amino-6-nitrobenzothiazole	6285-57-0	25.00	1.4984	2	10264	C7H6Cl2O	2,4-dichloro-1-methoxybenzene	553-82-2	25.00	1.3105	2
10112	C7H5N3O2S	2-mercapto-5-nitrobenzimidazole	6325-91-3	25.00	1.4984	2	10265	C7H6Cl2O	2,4-dichlorobenzenemethanol	1777-82-8	25.00	1.3105	2
10114	C7H5N3O4S	4-carboxybenzenesulfonyl azide	17202-49-2	25.00	1.6056	2	10266	C7H6Cl2O	2,4-dichloro-3-methylphenol	17788-00-0	25.00	1.3105	2
10117	C7H5N3O5	3,5-dinitrobenzamide	121-81-3	25.00	1.6048	2	10267	C7H6Cl2O	2,4-dichloro-5-methylphenol	1124-07-8	25.00	1.3105	2
10118	C7H5N3O6	2,4,6-trinitrotoluene	118-96-7	70.00	1.6253	1	10268	C7H6Cl2O	2,4-dichloro-6-methylphenol	1570-65-6	25.00	1.3105	2
10119	C7H5N3O6	1-methyl-2,3,4-trinitrobenzene	602-29-9	25.00	1.6200	1	10269	C7H6Cl2O	2,6-dichloro-3-methylphenol	13481-70-4	25.00	1.3105	2
10120	C7H5N3O6	1-methyl-2,4,5-trinitrobenzene	610-25-3	25.00	1.6370	2	10270	C7H6Cl2O	2,6-dichloro-4-methylphenol	2432-12-4	25.00	1.3105	2
10121	C7H5N3O7	2-methoxy-1,3,5-trinitrobenzene	606-35-9	80.00	1.4947	1	10272	C7H6Cl2O	2,3-dichloroanisole	1984-59-4	25.00	1.3105	2
10122	C7H5N3O7	3-methyl-2,4,6-trinitrophenol	602-99-3	47.50	1.5564	2	10274	C7H6Cl2O	a,4-dichloroanisole	21151-56-4	25.00	1.3105	2
10123	C7H5N3O7	2,3,5-trinitroanisole	7539-25-5	15.00	1.6180	1	10276	C7H6Cl2O	2,6-dichlorobenzyl alcohol	15258-73-8	25.00	1.3105	2
10127	C7H5N5O8	N-methyl-N,2,4,6-tetranitroaniline	479-45-8	21.00	1.7400	1	10277	C7H6Cl2O	3,4-dichlorobenzyl alcohol	1805-32-9	25.00	1.3105	2
10141	C7H6BrCl	1-bromo-3-(chloromethyl)benzene	932-77-4	25.00	1.5576	2	10278	C7H6Cl2O	2,5-dichlorobenzyl alcohol	34145-05-6	25.00	1.3105	2
10142	C7H6BrCl	1-bromo-4-(chloromethyl)benzene	589-17-3	25.00	1.5576	2	10279	C7H6Cl2O	3,5-dichlorobenzyl alcohol	60211-57-6	25.00	1.3105	2
10149	C7H6BrClO2S	4-bromomethylbenzenesulfonyl chloride	66176-39-4	25.00	1.6944	2	10282	C7H6Cl2O3S	2,6-dichloro-4-methylsulphonyl phenol	20951-05-7	25.00	1.4879	2
10163	C7H6BrI	4-iodobenzyl bromide	16004-15-2	25.00	2.0672	2	10284	C7H6Cl2O4	(2R,3R)-1-carboxy-4,5-dichloro-2,3-dihydroxy*	105587-32-	25.00	1.4795	2
10164	C7H6BrNO	2-bromobenzamide	4001-73-4	25.00	1.6008	2	10289	C7H6FI	2-fluoro-4-iodotoluene	39998-81-7	25.00	1.7657	2
10165	C7H6BrNO	3-bromobenzamide	22726-00-7	25.00	1.6008	2	10290	C7H6FNO	2-fluorobenzamide	445-28-3	25.00	1.2099	2
10166	C7H6BrNO	4-bromobenzamide	698-67-9	25.00	1.6008	2	10291	C7H6FNO	3-fluorobenzamide	455-37-8	25.00	1.2099	2
10167	C7H6BrNO2	2-amino-5-bromobenzoic acid	5794-88-7	25.00	1.6545	2	10292	C7H6FNO	4-fluorobenzamide	824-75-9	25.00	1.2099	2
10168	C7H6BrNO2	1-(bromomethyl)-3-nitrobenzene	3958-57-4	25.00	1.6545	2	10293	C7H6FNO2	1-fluoro-4-methyl-2-nitrobenzene	446-11-7	28.00	1.2619	1
10169	C7H6BrNO2	1-bromo-2-methyl-3-nitrobenzene	55289-35-5	25.00	1.6545	2	10294	C7H6FNO2	2-fluoro-4-methyl-1-nitrobenzene	446-34-4	25.00	1.4380	1
10170	C7H6BrNO2	1-bromo-2-methyl-4-nitrobenzene	7149-70-4	25.00	1.6545	2	10295	C7H6FNO2	4-fluoro-1-methyl-2-nitrobenzene	446-10-6	20.00	1.2686	1
10171	C7H6BrNO2	1-bromo-3-methyl-2-nitrobenzene	52414-97-8	25.00	1.6545	2	10296	C7H6FNO2	4-fluoro-2-methyl-1-nitrobenzene	446-33-3	28.00	1.2720	1
10172	C7H6BrNO2	1-bromo-3-methyl-5-nitrobenzene	52488-28-5	25.00	1.6545	2	10297	C7H6FNO2	2-amino-6-fluorobenzoic acid	434-76-4	25.20	1.3021	2
10173	C7H6BrNO2	2-bromo-1-methyl-3-nitrobenzene	41085-43-2	25.00	1.6545	2	10298	C7H6FNO2	2-amino-5-fluorobenzoic acid	446-08-2	25.20	1.3021	2
10174	C7H6BrNO2	2-bromo-1-methyl-4-nitrobenzene	7745-93-9	25.00	1.6545	2	10299	C7H6FNO2	2-amino-4-fluorobenzoic acid	446-32-2	25.20	1.3021	2
10175	C7H6BrNO2	2-bromo-4-methyl-1-nitrobenzene	40385-54-4	25.00	1.6545	2	10300	C7H6FNO2	2-fluoro-4-nitrotoluene	1427-07-2	25.20	1.3021	2
10176	C7H6BrNO2	4-bromo-1-methyl-2-nitrobenzene	60956-26-5	25.00	1.6545	2	10301	C7H6FNO2	2-fluoro-5-nitrotoluene	455-88-9	25.20	1.3021	2
10177	C7H6BrNO2	4-bromo-3-nitrotoluene	5326-34-1	25.00	1.5740	1	10303	C7H6FNO4S	2-fluoro-5-methylsulphonylnitrobenzene	453-72-5	25.00	1.4870	2
10178	C7H6BrNO2	4-nitrobenzyl bromide	100-11-8	25.00	1.6545	2	10309	C7H6F2N2S	2,4-difluorophenylthiourea	175277-76-6	25.00	1.3533	2
10179	C7H6BrNO2	2-nitrobenzyl bromide	3958-60-9	25.00	1.6545	2	10320	C7H6F3N	2-(trifluoromethyl)aniline	88-17-5	25.00	1.2820	1
10181	C7H6BrNO3	5-bromo-N,2-dihydroxybenzamide	5798-94-7	25.00	1.7038	2	10322	C7H6F3N	4-(trifluoromethyl)aniline	455-14-1	27.00	1.2830	1
10182	C7H6BrNO3	4-bromo-3-nitroanisole	5344-78-5	25.00	1.7038	2	10332	C7H6INO2	4-iodo-3-nitrotoluene	5326-39-6	25.00	1.8886	2
10183	C7H6BrNO3	a-bromo-4-nitro-o-cresol	772-33-8	25.00	1.7038	2	10333	C7H6INO2	2-amino-5-iodobenzoic acid	5326-47-6	25.00	1.8886	2
10184	C7H6Br2	1-bromo-2-(bromomethyl)benzene	3433-80-5	22.00	1.8203	2	10334	C7H6INO3	3-iodo-4-nitroanisole	214279-40-	25.00	1.9259	2
10185	C7H6Br2	1-bromo-4-(bromomethyl)benzene	589-15-1	22.00	1.8203	2	10339	C7H6N2	2-aminobenzonitrile	1885-29-6	25.00	1.1107	2
10187	C7H6Br2	1,2-dibromo-3-methylbenzene	61563-25-5	15.00	1.8234	1	10340	C7H6N2	3-aminobenzonitrile	2237-30-1	25.00	1.1107	2
10192	C7H6Br2	3-bromobenzyl bromide	823-78-9	22.00	1.8203	2	10341	C7H6N2	1H-benzimidazole	51-17-2	25.00	1.1107	2
10194	C7H6Br2	3,5-dibromotoluene	1611-92-3	22.00	1.8203	2	10342	C7H6N2	1H-indazole	271-44-3	25.00	1.1107	2
10195	C7H6Br2O	2,4-dibromo-6-methylphenol	609-22-3	25.00	1.8920	2	10343	C7H6N2	4-aminobenzonitrile	873-74-5	25.00	1.1107	2
10196	C7H6Br2O	3,5-dibromo-2-methylphenol	14122-00-0	25.00	1.8920	2	10344	C7H6N2	7-azaindole	271-63-6	25.00	1.1107	2
10197	C7H6Br2O	2,4-dibromoanisole	21702-84-1	25.00	1.8920	2	10345	C7H6N2	2-cyano-3-methylpyridine	20970-75-6	25.00	1.1107	2
10198	C7H6Br2O	2,6-dibromo-4-methylphenol	2432-14-6	25.00	1.8920	2	10350	C7H6N2O	1,2-dihydro-1-methyl-2-oxo-3-pyridinecarboni*	767-88-4	25.00	1.2266	2
10211	C7H6ClFO	2-chloro-4-fluorobenzylalcohol	208186-84-	25.00	1.2780	2	10351	C7H6N2O	3-cyano-6-methyl-2(1H)-pyridinone	4241-27-4	25.00	1.2266	2
10212	C7H6ClFO	2-chloro-6-fluorobenzyl alcohol	56456-50-9	25.00	1.2780	2	10352	C7H6N2O	2-hydroxybenzimidazole	615-16-7	25.00	1.2266	2
10217	C7H6ClI	3-chloro-2-iodotoluene	5100-98-1	15.67	1.7773	2	10353	C7H6N2O	3-hydroxy-1H-indazole	7364-25-2	25.00	1.2266	2
10218	C7H6ClI	2-iodobenzyl chloride	59473-45-9	15.67	1.7773	2	10354	C7H6N2O	2-aminobenzoxazole	4570-41-6	25.00	1.2266	2
10219	C7H6ClNO	2-chlorobenzamide	609-66-5	25.00	1.2721	2	10355	C7H6N2O2	2-(4-pyrimidyl)malondialdehyde	28648-78-4	25.00	1.3059	2
10220	C7H6ClNO	3-chlorobenzamide	618-48-4	25.00	1.2721	2	10357	C7H6N2O3	2-nitrobenzamide	610-15-1	25.00	1.3777	2
10221	C7H6ClNO	4-chlorobenzamide	619-56-7	25.00	1.2721	2	10358	C7H6N2O3	3-nitrobenzamide	645-09-0	25.00	1.3777	2
10222	C7H6ClNO2	5-amino-2-chlorobenzoic acid	89-54-3	15.00	1.5190	1	10359	C7H6N2O3	4-nitrobenzaldoxime	1129-37-9	25.00	1.3777	2
10223	C7H6ClNO2	1-(chloromethyl)-2-nitrobenzene	612-23-7	40.00	1.3576	2	10360	C7H6N2O3	2-nitrobenzaldoxime	6635-41-2	25.00	1.3777	2
10224	C7H6ClNO2	1-(chloromethyl)-3-nitrobenzene	619-23-8	40.00	1.3576	2	10361	C7H6N2O3	4-nitrobenzamide	619-80-7	25.00	1.3777	2
10225	C7H6ClNO2	1-(chloromethyl)-4-nitrobenzene	100-14-1	40.00	1.3576	2	10362	C7H6N2O3S	1H-benzimidazole-2-sulfonic acid	40828-54-4	25.00	1.4558	2
10226	C7H6ClNO2	1-chloro-2-methyl-3-nitrobenzene	83-42-1	40.00	1.3576	2	10363	C7H6N2O4	2,4-dinitrotoluene	121-14-2	15.00	1.5200	1
10227	C7H6ClNO2	1-chloro-2-methyl-4-nitrobenzene	13290-74-9	40.00	1.3576	2	10364	C7H6N2O4	2,5-dinitrotoluene	619-15-8	50.33	1.5700	2
10228	C7H6ClNO2	1-chloro-3-methyl-5-nitrobenzene	16582-38-0	40.00	1.3576	2	10365	C7H6N2O4	2,6-dinitrotoluene	606-20-2	15.00	1.5390	1
10229	C7H6ClNO2	2-chloro-1-methyl-4-nitrobenzene	121-86-8	40.00	1.3576	2	10366	C7H6N2O4	3,4-dinitrotoluene	610-39-9	58.30	1.5299	2
10231	C7H6ClNO2	4-chloro-1-methyl-2-nitrobenzene	89-59-8	80.00	1.2559	1	10367	C7H6N2O4	3,5-dinitrotoluene	618-85-9	92.50	1.5154	2
10232	C7H6ClNO2	4-chloro-2-methyl-1-nitrobenzene	5367-28-2	40.00	1.3576	2	10368	C7H6N2O4	2-amino-3-nitrobenzoic acid	606-18-8	15.00	1.5580	1
10234	C7H6ClNO2	2-amino-6-chlorobenzoic acid	2148-56-3	40.00	1.3576	2	10369	C7H6N2O4	1-methyl-2,3-dinitrobenzene	602-01-7	79.29	1.3288	2
10235	C7H6ClNO2	4-amino-2-chlorobenzoic acid	2457-76-3	40.00	1.3576	2	10370	C7H6N2O4	5-amino-2-nitrobenzoic acid	13280-60-9	79.29	1.3288	2
10236	C7H6ClNO2	3-amino-4-chlorobenzoic acid	2840-28-0	40.00	1.3576	2	10371	C7H6N2O4	4-amino-3-nitrobenzoic acid	1588-83-6	79.29	1.3288	2
10237	C7H6ClNO2	2-amino-5-chlorobenzoic acid	635-21-2	40.00	1.3576	2	10372	C7H6N2O4	2-amino-5-nitrobenzoic acid	616-79-5	79.29	1.3288	2
10238	C7H6ClNO2	2-amino-4-chlorobenzoic acid	89-77-0	40.00	1.3576	2	10373	C7H6N2O4	3-amino-5-nitrobenzoic acid	618-84-8	79.29	1.3288	2
10239	C7H6ClNO2	2-chloro-6-methyl-3-pyridinecarboxylic acid	30529-70-5	40.00	1.3576	2	10374	C7H6N2O4	dinitrotoluene	25321-14-6	25.00	1.3210	1
10241	C7H6ClNO3	4-chloro-3-nitroanisole	10298-80-3	25.00	1.4048	2	10375	C7H6N2O4	4-nitroanthranilic acid	619-17-0	79.29	1.3288	2
10242	C7H6ClNO3	5-chloro-2-nitroanisole	6627-53-8	25.00	1.4048	2	10377	C7H6N2O5	1-methoxy-2,3-dinitrobenzene	16315-07-4	137.00	1.2300	1

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
10378	C7H6N2O5	1-methoxy-2,4-dinitrobenzene	119-27-7	131.00	1.3364	1	10500	C7H7ClN2	4-pyridylacetonitrile monohydrochloride	92333-25-0	25.00	1.2325	2
10379	C7H6N2O5	1-methoxy-3,5-dinitrobenzene	5327-44-6	12.00	1.5580	1	10501	C7H7ClN2O	3-amino-4-chlorobenzamide	19694-10-1	25.00	1.3017	2
10380	C7H6N2O5	2-methoxy-1,3-dinitrobenzene	3535-67-9	128.00	1.3000	1	10502	C7H7ClN2O	4-chlorobenzoic hydrazide	536-40-3	25.00	1.3017	2
10381	C7H6N2O5	2-methoxy-1,4-dinitrobenzene	3962-77-4	18.00	1.4760	1	10503	C7H7ClN2O2	4-chloro-2-methyl-6-nitroaniline	62790-50-5	25.00	1.3653	2
10382	C7H6N2O5	4-methoxy-1,2-dinitrobenzene	4280-28-8	110.00	1.3332	1	10504	C7H7ClN2O2	6-chloro-2-methyl-4-nitroaniline	69951-02-6	25.00	1.3653	2
10383	C7H6N2O5	2-methyl-4,6-dinitrophenol	534-52-1	89.33	1.3723	2	10505	C7H7ClN2O2	5-chloro-N-methyl-2-nitrobenzenamine	35966-84-8	25.00	1.3653	2
10384	C7H6N2O5	3,5-dinitrobenzyl alcohol	71022-43-0	89.33	1.3723	2	10507	C7H7ClN2S	(2-chlorophenyl)thiourea	5344-82-1	25.00	1.3238	2
10385	C7H6N2O5	2,6-dinitro-p-cresol	609-93-8	89.33	1.3723	2	10509	C7H7ClN4O2	8-chlorotheophylline	85-18-7	25.00	1.4784	2
10386	C7H6N2O5	3,5-dinitro-o-cresol	497-56-3	89.33	1.3723	2	10510	C7H7ClN6O2	mitozolomide	85622-95-3	25.00	1.5790	2
10387	C7H6N2O5	3,5-dinitro-p-cresol	63989-82-2	89.33	1.3723	2	10514	C7H7ClO	2-chlorobenzenemethanol	17849-38-6	19.83	1.1954	2
10389	C7H6N2S	2-benzothiazolamine	136-95-8	25.00	1.2590	2	10515	C7H7ClO	4-chlorobenzenemethanol	873-76-7	19.83	1.1954	2
10390	C7H6N2S	6-benzothiazolamine	533-30-2	25.00	1.2590	2	10516	C7H7ClO	2-chloro-3-methylphenol	608-26-4	19.83	1.1954	2
10391	C7H6N2S	1,3-dihydro-2H-benzimidazole-2-thione	583-39-1	25.00	1.2590	2	10518	C7H7ClO	2-chloro-5-methylphenol	615-74-7	15.00	1.2150	1
10392	C7H6N2S	3-(2-thienyl)pyrazole	19933-24-5	25.00	1.2590	2	10520	C7H7ClO	3-chloro-2-methylphenol	3260-87-5	19.83	1.1954	2
10397	C7H6N4O	N,N'-carbonyldiimidazole	530-62-1	25.00	1.3759	2	10521	C7H7ClO	3-chloro-4-methylphenol	615-62-3	19.83	1.1954	2
10400	C7H6N4S	1,1'-thiocarbonyldiimidazole	6160-65-2	25.00	1.3945	2	10522	C7H7ClO	4-chloro-2-methylphenol	1570-64-5	19.83	1.1954	2
10401	C7H6N4S	1-phenyltetrazole-5-thiol	86-93-1	25.00	1.3945	2	10523	C7H7ClO	4-chloro-3-methylphenol	59-50-7	19.83	1.1954	2
10403	C7H6N6O4	5-(N-methyl-N-nitroso)amino-3-(5-nitro-2-fur*	41735-28-8	25.00	1.6632	2	10525	C7H7ClO	5-chloro-o-cresol	5306-98-9	19.83	1.1954	2
10404	C7H6O	benzaldehyde	100-52-7	-57.13	1.2306	1	10527	C7H7ClO2	2-chloro-4-methoxyphenol	18113-03-6	25.00	1.1530	1
10407	C7H6OS2	2-hydroxybenzenecarbodithioic acid	527-89-9	25.00	1.2899	2	10528	C7H7ClOS	4-methylbenzenesulfinyl chloride	10439-23-3	25.00	1.2645	2
10408	C7H6O2	benzoic acid	65-85-0	122.37	1.2946	1	10531	C7H7ClO2S	p-toluenesulfonyl chloride	98-59-9	25.00	1.3264	2
10409	C7H6O2	p-hydroxybenzaldehyde	123-08-0	117.00	1.3311	2	10532	C7H7ClO2S	4-chlorophenyl methyl sulfone	98-57-7	25.00	1.3264	2
10410	C7H6O2	salicylaldehyde	90-02-8	1.60	1.3678	2	10533	C7H7ClO2S	a-toluenesulfonyl chloride	1939-99-7	25.00	1.3264	2
10412	C7H6O2	3-(2-furanyl)-2-propenal	623-30-3	66.67	1.1365	2	10535	C7H7ClO3S	2-methoxybenzenesulfonyl chloride	10130-87-7	25.00	1.3836	2
10413	C7H6O2	trans-3-(2-furanyl)-2-propenal	39511-08-5	66.67	1.1365	2	10536	C7H7ClO3S	4-methoxybenzenesulfonyl chloride	98-68-0	25.00	1.3836	2
10414	C7H6O2	3-hydroxybenzaldehyde	100-83-4	130.00	1.1179	1	10538	C7H7ClO4	tropylium perchlorate	25230-72-2	25.00	1.3671	2
10415	C7H6O2	2-hydroxy-2,4,6-cycloheptatrien-1-one	533-75-5	66.67	1.1365	2	10539	C7H7ClO4S2	4-methylsulphonylbenzenesulphonyl chloride	82964-91-8	25.00	1.4936	2
10416	C7H6O2	2-methyl-2,5-cyclohexadiene-1,4-dione	553-97-9	75.00	1.0800	1	10540	C7H7ClO4S2	2-methylsulphonylbenzenesulphonyl chloride	89265-35-0	25.00	1.4936	2
10418	C7H6O2S	2-mercaptobenzoic acid	147-93-3	25.00	1.2634	2	10546	C7H7Cl2N	2,6-dichloro-3-methylaniline	64063-37-2	25.00	1.2721	2
10419	C7H6O2S	3-(2-thienyl)acrylic acid	15690-25-2	25.00	1.2634	2	10547	C7H7Cl2NO	clopidol	2971-90-6	25.00	1.3336	2
10420	C7H6O3	salicylic acid	69-72-7	25.00	1.4399	2	10548	C7H7Cl2NO2S	N,N-dichloro-4-methylbenzenesulfonamide	473-34-7	25.00	1.4536	2
10421	C7H6O3	benzenecarboperoxoic acid	93-59-4	23.33	1.4627	2	10566	C7H7FO	4-fluoro-3-methylphenol	452-70-0	25.00	1.1340	1
10422	C7H6O3	2,3-dihydroxybenzaldehyde	24677-78-9	23.33	1.4627	2	10567	C7H7FO	4-fluoro-2-methylphenol	452-72-2	23.83	1.1514	2
10423	C7H6O3	2,4-dihydroxybenzaldehyde	95-01-2	23.33	1.4627	2	10570	C7H7FO2S	4-fluorophenyl methyl sulfone	455-15-2	25.00	1.2768	2
10424	C7H6O3	3,4-dihydroxybenzaldehyde	139-85-5	23.33	1.4627	2	10571	C7H7FO2S	p-fluorosulfonyltoluene	455-16-3	25.00	1.2768	2
10425	C7H6O3	3-(2-furanyl)-2-propenoic acid	539-47-9	23.33	1.4627	2	10572	C7H7FO2S	a-toluenesulfonyl fluoride	329-98-6	25.00	1.2768	2
10426	C7H6O3	m-hydroxybenzoic acid	99-06-9	25.00	1.4850	1	10581	C7H7F3N2	4-(trifluoromethyl)-1,2-phenylenediamine	368-71-8	25.00	1.2773	2
10427	C7H6O3	p-hydroxybenzoic acid	99-96-7	25.00	1.4600	1	10583	C7H7F3N2	4-(trifluoromethyl)phenylhydrazine	368-90-1	25.00	1.2773	2
10428	C7H6O3	1-cyclopentene-1,2-dicarboxylic anhydride	3205-94-5	23.33	1.4627	2	10592	C7H7I	p-iodotoluene	624-31-7	20.00	1.6780	1
10429	C7H6O3	2,5-dihydroxybenzaldehyde	1194-98-5	23.33	1.4627	2	10593	C7H7IO	2-iodo-4-methylphenol	16188-57-1	25.00	1.6840	1
10430	C7H6O3	sesamol	533-31-3	23.33	1.4627	2	10595	C7H7IO	2-iodobenzenemethanol	5159-41-1	24.00	1.7904	2
10432	C7H6O4	2,3-dihydroxybenzoic acid	303-38-8	20.00	1.5420	1	10597	C7H7IO	1-iodo-4-methoxybenzene	696-62-8	24.00	1.7904	2
10433	C7H6O4	2,4-dihydroxybenzoic acid	89-86-1	12.00	1.5330	2	10600	C7H7IO	4-iodo-2-methylphenol	60577-30-2	24.00	1.7904	2
10434	C7H6O4	2,5-dihydroxybenzoic acid	490-79-9	12.00	1.5330	2	10603	C7H7IO3	4-iodylanisole	16825-74-4	25.00	1.8329	2
10435	C7H6O4	3,4-dihydroxybenzoic acid	99-50-3	4.00	1.5240	1	10611	C7H7NO	formanilide	103-70-8	50.00	1.2598	2
10436	C7H6O4	3,5-dihydroxybenzoic acid	99-10-5	12.00	1.5330	2	10612	C7H7NO	benzaldehyde oxime, (z)-	622-32-2	20.00	1.1111	1
10437	C7H6O4	4-hydroxy-4H-furo[3,2-c]pyran-2(6H)-one	149-29-1	12.00	1.5330	2	10613	C7H7NO	trans-benzaldehyde oxime	622-31-1	20.00	1.1450	1
10438	C7H6O4	2,6-dihydroxybenzoic acid	303-07-1	12.00	1.5330	2	10614	C7H7NO	benzamide	55-21-0	129.85	1.3396	2
10439	C7H6O4	methyl coumalate	6018-41-3	12.00	1.5330	2	10619	C7H7NO	2-aminobenzaldehyde	529-23-7	42.14	1.1040	2
10440	C7H6O4	methyl 2-oxo-2H-pyran-3-carboxylate	25991-27-9	12.00	1.5330	2	10620	C7H7NO	syn-benzaldehyde oxime	932-90-1	42.14	1.1040	2
10442	C7H6O4	2,3,4-trihydroxybenzaldehyde	2144-08-3	12.00	1.5330	2	10621	C7H7NO	6-methyl-2-pyridinecarboxaldehyde	1122-72-1	42.14	1.1040	2
10443	C7H6O4	2,4,5-trihydroxybenzaldehyde	35094-87-2	12.00	1.5330	2	10622	C7H7NO	2-nitrosotoluene	611-23-4	42.14	1.1040	2
10444	C7H6O4	2,4,6-trihydroxybenzaldehyde	487-70-7	12.00	1.5330	2	10624	C7H7NO	2-amino-2,4,6-cycloheptatrien-1-one	6264-93-3	42.14	1.1040	2
10446	C7H6O4S	3-thiophenemalonic acid	21080-92-2	25.00	1.3971	2	10626	C7H7NO2	m-nitrotoluene	99-08-1	16.05	1.3590	2
10447	C7H6O5	2,3,4-trihydroxybenzoic acid	610-02-6	25.00	1.3795	2	10627	C7H7NO2	o-nitrotoluene	88-72-2	-3.17	1.3851	2
10448	C7H6O5	2,4,6-trihydroxybenzoic acid	83-30-7	25.00	1.3795	2	10628	C7H7NO2	p-nitrotoluene	99-99-0	51.60	1.2655	1
10449	C7H6O5	3,4,5-trihydroxybenzoic acid	149-91-7	6.00	1.6940	1	10629	C7H7NO2	aniline-2-carboxylic acid	118-92-3	20.00	1.4120	1
10450	C7H6O6S	2-hydroxy-5-sulfobenzoic acid	97-05-2	25.00	1.5099	2	10630	C7H7NO2	aniline-3-carboxylic acid	99-05-8	25.00	1.5100	1
10462	C7H7Br	p-bromotoluene	106-38-7	26.80	1.6351	2	10631	C7H7NO2	aniline-4-carboxylic acid	150-13-0	20.00	1.3740	1
10467	C7H7Br2N	2,4-dibromo-6-methylaniline	30273-41-7	25.00	1.8438	2	10633	C7H7NO2	2-hydroxybenzamide	65-45-2	140.00	1.1750	1
10468	C7H7Br2N	2,6-dibromo-4-methylaniline	6968-24-7	25.00	1.8438	2	10634	C7H7NO2	methyl 3-pyridinecarboxylate	93-60-7	37.08	1.2150	2
10469	C7H7BrN2O	(4-bromophenyl)urea	1967-25-5	25.00	1.6083	2	10637	C7H7NO2	salicylaldoxime	94-67-7	37.08	1.2150	2
10472	C7H7BrN2O2	2-bromo-6-methyl-4-nitroaniline	102170-56-9	25.00	1.6583	2	10640	C7H7NO2	benzohydroxamic acid	495-18-1	37.08	1.2150	2
10473	C7H7BrN2O2	4-bromo-2-methyl-6-nitroaniline	77811-44-0	25.00	1.6583	2	10641	C7H7NO2	3,4-(methylenedioxy)aniline	14268-66-7	37.08	1.2150	2
10477	C7H7BrO	2-bromo-4-methylphenol	6627-55-0	25.00	1.5422	1	10642	C7H7NO2	6-methylnicotinic acid	3222-47-7	37.08	1.2150	2
10478	C7H7BrO	2-bromo-5-methylphenol	14847-51-9	22.50	1.5151	2	10643	C7H7NO2	nitrotoluene	1321-12-6	25.00	1.1600	1
10479	C7H7BrO	3-bromo-2-methylphenol	7766-23-6	22.50	1.5151	2	10644	C7H7NO2	phenyl carbamate	622-46-8	37.08	1.2150	2
10480	C7H7BrO	3-bromo-4-methylphenol	60710-39-6	22.50	1.5151	2	10646	C7H7NO2	4-aminotropolone	698-49-7	37.08	1.2150	2
10481	C7H7BrO	3-bromo-5-methylphenol	74204-00-5	22.50	1.5151	2	10647	C7H7NO2	5-aminotropolone	7021-46-7	37.08	1.2150	2
10482	C7H7BrO	4-bromo-2-methylphenol	2362-12-1	22.50	1.5151	2	10648	C7H7NO2S	1-(methylthio)-2-nitrobenzene	3058-47-7	78.00	1.2628	1
10483	C7H7BrO	4-bromo-3-methylphenol	14472-14-1	22.50	1.5151	2	10649	C7H7NO2S	4-nitrothioanisole	701-57-5	80.00	1.2391	1
10485	C7H7BrO	2-bromobenzyl alcohol	18982-54-2	22.50	1.5151	2	10650	C7H7NO2S	(4-pyridylthio)acetic acid	10351-19-6	79.00	1.2510	2
10486	C7H7BrO	4-bromobenzyl alcohol	873-75-6	22.50	1.5151	2	10652	C7H7NO3	2-methyl-4-nitrophenol	99-53-6	28.40	1.2744	2
10487	C7H7BrO2	5-bromo-2-hydroxybenzenemethanol	2316-64-5	25.00	1.5519	2	10653	C7H7NO3	2-methyl-6-nitrophenol	13073-29-5	28.40	1.2744	2
10490	C7H7BrS	4-bromothioanisole	104-95-0	25.00	1.5027	2	10654	C7H7NO3	4-methyl-2-nitrophenol	119-33-5	20.00	1.2399	1
10492	C7H7Cl	benzyl chloride	100-44-7	-39.00	1.3545	2	10655	C7H7NO3	3-nitroanisole	555-03-3	18.00	1.3730	1
10493	C7H7Cl	o-chlorotoluene	95-49-8	-36.50	1.3291	2	10656	C7H7NO3	4-nitroanisole	100-17-4	60.00	1.2192	1
10494	C7H7Cl	p-chlorotoluene	106-43-4	7.50	1.2621	2	10657	C7H7NO3	2-nitrobenzenemethanol	612-25-9	28.40	1.2744	2
10497	C7H7ClFN	4-chloro-2-fluorobenzylamine hydrochloride	202982-63-(	25.00	1.2175	2	10658	C7H7NO3	3-nitrobenzenemethanol	619-25-0	19.00	1.2960	1
10498	C7H7ClFN	2-chloro-4-fluoro-5-methylaniline	124185-35-9	25.00	1.2175	2	10659	C7H7NO3	4-nitrobenzenemethanol	619-73-8	28.40	1.2744	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
10660	C7H7NO3	o-nitroanisole	91-23-6	10.45	1.4717	2	10809	C7H8N2O2	2-methyl-3-nitroaniline	603-83-8	15.00	1.3780	1
10661	C7H7NO3	4-amino-2-hydroxybenzoic acid	65-49-6	28.40	1.2744	2	10810	C7H8N2O2	2-methyl-4-nitroaniline	99-52-5	140.00	1.1586	1
10662	C7H7NO3	5-amino-2-hydroxybenzoic acid	89-57-6	28.40	1.2744	2	10811	C7H8N2O2	2-methyl-5-nitroaniline	99-55-8	92.67	1.2333	2
10663	C7H7NO3	N,2-dihydroxybenzamide	89-73-6	28.40	1.2744	2	10812	C7H8N2O2	2-methyl-6-nitroaniline	570-24-1	100.00	1.1900	1
10664	C7H7NO3	3-amino-4-hydroxybenzoic acid	1571-72-8	28.40	1.2744	2	10813	C7H8N2O2	4-methyl-2-nitroaniline	89-62-3	121.00	1.1600	1
10665	C7H7NO3	3-aminosalicylic acid	570-23-0	28.40	1.2744	2	10814	C7H8N2O2	N-methyl-2-nitroaniline	612-28-2	92.67	1.2333	2
10666	C7H7NO3	5-hydroxyanthranilic acid	394-31-0	28.40	1.2744	2	10815	C7H8N2O2	N-methyl-4-nitroaniline	100-15-2	155.00	1.2010	1
10667	C7H7NO3	2-hydroxy-6-methylpyridine-3-carboxylic acid	38116-61-9	28.40	1.2744	2	10818	C7H8N2O2	3,4-diaminobenzoic acid	619-05-6	92.67	1.2333	2
10668	C7H7NO3	4-methyl-3-nitrophenol	2042-14-0	28.40	1.2744	2	10819	C7H8N2O2	4-hydrazinobenzoic acid	619-67-0	92.67	1.2333	2
10669	C7H7NO3	3-methyl-4-nitrophenol	2581-34-2	28.40	1.2744	2	10820	C7H8N2O2	4-hydroxybenzoic acid hydrazide	5351-23-5	92.67	1.2333	2
10670	C7H7NO3	3-methyl-2-nitrophenol	4920-77-8	28.40	1.2744	2	10821	C7H8N2O2	1-(3-hydroxyphenyl)urea	701-82-6	92.67	1.2333	2
10671	C7H7NO3	2-methyl-3-nitrophenol	5460-31-1	28.40	1.2744	2	10822	C7H8N2O2	4-methyl-3-nitroaniline	119-32-4	25.00	1.3120	1
10672	C7H7NO3	5-methyl-2-nitrophenol	700-38-9	28.40	1.2744	2	10823	C7H8N2O2	salicylhydrazide	936-02-7	92.67	1.2333	2
10673	C7H7NO3	2-amino-3-hydroxybenzoic acid	548-93-6	28.40	1.2744	2	10824	C7H8N2O2S	2-(carboxymethylthio)-4-methylpyrimidine	46118-95-0	25.00	1.3201	2
10676	C7H7NO4	2-methoxy-3-nitrophenol	20734-71-8	25.00	1.3375	2	10825	C7H8N2O3	2-methoxy-5-nitroaniline	99-59-2	15.00	1.2068	1
10677	C7H7NO4	N-acryloxysuccinimide	38862-24-7	25.00	1.3375	2	10826	C7H8N2O3	3-methoxy-4-nitroaniline	16292-88-9	20.00	1.2089	2
10679	C7H7NO4	4-methoxy-2-nitrophenol	1568-70-3	25.00	1.3375	2	10827	C7H8N2O3	5-methoxy-2-nitroaniline	16133-49-6	20.00	1.2089	2
10680	C7H7NO4	2-methoxy-5-nitrophenol	636-93-1	25.00	1.3375	2	10828	C7H8N2O3	3-ethoxy-2-nitropyridine	74037-50-6	20.00	1.2089	2
10681	C7H7NO4	5-methoxy-2-nitrophenol	704-14-3	25.00	1.3375	2	10829	C7H8N2O3	4-methoxy-2-nitroaniline	96-96-8	20.00	1.2089	2
10682	C7H7NO4	4-nitroguaiacol	3251-56-7	25.00	1.3375	2	10830	C7H8N2O3	2-methoxy-4-nitroaniline	97-52-9	25.00	1.2110	1
10683	C7H7NO4	3,4,5-trihydroxybenzamide hydrate	618-73-5	25.00	1.3375	2	10835	C7H8N2O3S	5-carbethoxy-2-thiouracil	38026-46-9	25.00	1.3793	2
10684	C7H7NO4S	4-(aminosulfonyl)benzoic acid	138-41-0	25.00	1.4167	2	10838	C7H8N2O4	dimethyl 4,5-imidazoledicarboxylate	3304-70-9	25.00	1.3619	2
10685	C7H7NO5S	methyl 4-nitrobenzenesulfonate	6214-20-6	25.00	1.4712	2	10839	C7H8N2O5	N-(2-hydroxyethyl)-a-(5-nitro-2-furyl)nitrone	19561-70-7	25.00	1.4212	2
10686	C7H7NO5S	2-methyl-5-nitrobenzenesulfonic acid	121-03-9	25.00	1.4712	2	10841	C7H8N2S	phenylthiourea	103-85-5	25.00	1.1863	2
10687	C7H7NO5S	4-methyl-3-nitrobenzene sulfonic acid	97-06-3	25.00	1.4712	2	10842	C7H8N4O2	theobromine	83-67-0	25.00	1.3600	2
10688	C7H7NS	thiobenzamide	2227-79-4	25.00	1.1476	2	10843	C7H8N4O2	3,7-dihydro-1,3-dimethyl-1H-purine-2,6-dione	58-55-9	25.00	1.3600	2
10692	C7H7N3	1-methyl-1H-benzotriazole	13351-73-0	22.33	1.0635	2	10844	C7H8N4O2	paraxanthine	611-59-6	25.00	1.3600	2
10693	C7H7N3	2-aminobenzimidazole	934-32-7	22.33	1.0635	2	10845	C7H8N4O3	1,3-dimethyluric acid	944-73-0	25.00	1.4205	2
10694	C7H7N3	5-aminoindazole	19335-11-6	22.33	1.0635	2	10850	C7H8O	anisole	100-66-3	-37.50	1.2220	2
10695	C7H7N3	5-methyl-1H-benzotriazole	136-85-6	22.33	1.0635	2	10851	C7H8O	benzyl alcohol	100-51-6	-15.30	1.0968	1
10696	C7H7N3	4(or 5)-methylbenzotriazole	29385-43-1	22.33	1.0635	2	10852	C7H8O	m-cresol	108-39-4	0.00	1.1109	1
10700	C7H7N3O2	N-methyl-N,p-dinitrosoaniline	99-80-9	25.00	1.3348	2	10853	C7H8O	o-cresol	95-48-7	25.00	1.1350	1
10702	C7H7N3O3	(4-nitrophenyl)urea	556-10-5	25.00	1.4006	2	10854	C7H8O	p-cresol	106-44-5	20.00	1.0341	1
10705	C7H7N3O3S	1-aminobenzimidazole-2-sulfonic acid	120341-04-0	25.00	1.4714	2	10858	C7H8OS	(methylsulfinyl)benzene	1193-82-4	25.00	1.1281	2
10710	C7H7N3O4	2,6-dinitro-p-toluidine	6393-42-6	25.00	1.4608	2	10859	C7H8OS	1-(5-methyl-2-thienyl)ethanone	13679-74-8	25.00	1.1185	1
10712	C7H7N3O4S	2-(2-formamidothiazole-4-yl)-2-methoxyimino *	65872-43-7	25.00	1.5228	2	10862	C7H8OS	5-ethyl-2-thiophenecarboxaldehyde	36880-33-8	25.00	1.1200	1
10713	C7H7N3S	5-amino-2-mercaptobenzimidazole	2818-66-8	25.00	1.2902	2	10866	C7H8O2	guaiacol	90-05-1	20.00	1.2280	1
10715	C7H7N3S	2-hydrazinobenzothiazole	615-21-4	25.00	1.2902	2	10867	C7H8O2	p-methoxyphenol	150-76-5	55.50	1.3159	2
10717	C7H7N5O2	N-2-acetylguanine	19962-37-9	25.00	1.4609	2	10868	C7H8O2	1,2-dihydroxy-3-methylbenzene	488-17-5	36.17	1.1083	2
10718	C7H7N5O2	fervenulin	483-57-8	25.00	1.4609	2	10869	C7H8O2	1,2-dihydroxy-4-methylbenzene	452-86-8	74.00	1.1287	1
10725	C7H8	toluene	108-88-3	-180.00	1.0300	1	10870	C7H8O2	1,3-dihydroxy-2-methylbenzene	608-25-3	36.17	1.1083	2
10735	C7H8BrN	2-bromo-4-methylaniline	583-68-6	20.00	1.5100	1	10871	C7H8O2	1,3-dihydroxy-4-methylbenzene	496-73-1	36.17	1.1083	2
10736	C7H8BrN	2-bromo-5-methylaniline	53078-85-6	25.00	1.4700	1	10872	C7H8O2	1,3-dihydroxy-5-methylbenzene	504-15-4	4.00	1.2900	1
10737	C7H8BrN	3-bromo-4-methylaniline	7745-91-7	23.33	1.4967	2	10873	C7H8O2	1,4-dihydroxy-2-methylbenzene	95-71-6	36.17	1.1083	2
10738	C7H8BrN	4-bromo-2-methylaniline	583-75-5	23.33	1.4967	2	10874	C7H8O2	2,6-dimethyl-4H-pyran-4-one	1004-36-0	137.00	0.9953	1
10739	C7H8BrN	4-bromo-3-methylaniline	6933-10-4	23.33	1.4967	2	10875	C7H8O2	4,6-dimethyl-2H-pyran-2-one	675-09-2	36.17	1.1083	2
10740	C7H8BrN	5-bromo-2-methylaniline	39478-78-9	23.33	1.4967	2	10876	C7H8O2	1-(2-furanyl)-1-propanone	3194-15-8	28.00	1.0626	1
10744	C7H8ClN	2-chloro-5-methylaniline	95-81-8	20.29	1.1629	2	10877	C7H8O2	1-(2-furanyl)-2-propanone	6975-60-6	20.00	1.1040	1
10747	C7H8ClN	3-chloro-4-methylaniline	95-74-9	20.29	1.1629	2	10878	C7H8O2	2-hydroxybenzenemethanol	90-01-7	25.00	1.1613	1
10748	C7H8ClN	4-chloro-2-methylaniline	95-69-2	20.29	1.1629	2	10879	C7H8O2	3-hydroxybenzenemethanol	620-24-6	25.00	1.1610	1
10749	C7H8ClN	4-chloro-3-methylaniline	7149-75-9	20.29	1.1629	2	10880	C7H8O2	4-hydroxybenzenemethanol	623-05-2	36.17	1.1083	2
10751	C7H8ClN	5-chloro-2-methylaniline	95-79-4	20.29	1.1629	2	10885	C7H8O2	(1S,5R)-(-)-cis-2-oxabicyclo[3.3.0]oct-6-en-*	43119-28-4	36.17	1.1083	2
10757	C7H8ClNO	2-chloro-5-methoxyaniline	2401-24-3	25.00	1.2002	2	10886	C7H8O2	(1R,5S)-(+)-cis-2-oxabicyclo[3.3.0]oct-6-en-*	54483-22-6	36.17	1.1083	2
10758	C7H8ClNO	4-chloro-2-methoxyaniline	93-50-5	25.00	1.2002	2	10888	C7H8O2S	2-methylbenzenesulfinic acid	13165-77-0	22.00	1.1758	2
10759	C7H8ClNO	5-chloro-2-methoxyaniline	95-03-4	25.00	1.2002	2	10889	C7H8O2S	4-methylbenzenesulfinic acid	536-57-2	22.00	1.1758	2
10760	C7H8ClNO	3-chloroanisidine	5345-54-0	25.00	1.2002	2	10890	C7H8O2S	methyl phenyl sulfone	3112-85-4	22.00	1.1758	2
10762	C7H8ClNO2S	2-chloro-4-methylsulphonylaniline	13244-35-4	25.00	1.3487	2	10894	C7H8O2S	3-(2-thienyl)propanoic acid	5928-51-8	22.00	1.1758	2
10764	C7H8ClN3O	(2-amino-5-chlorobenzoyl)hydrazide	5584-15-6	25.00	1.3276	2	10895	C7H8O3	ethyl 2-furancarboxylate	614-99-3	21.00	1.1174	1
10765	C7H8ClN3O4S2	hydrochlorothiazide	58-93-5	25.00	1.5856	2	10897	C7H8O3	2-furanpropanoic acid	935-13-7	22.20	1.1022	2
10766	C7H8Cl2Si	dichloromethylphenylsilane	149-74-6	-43.50	1.4621	2	10898	C7H8O3	2-(hydroxymethyl)-1,4-benzenediol	495-08-9	22.20	1.1022	2
10771	C7H8FN	5-fluoro-2-methylaniline	367-29-3	24.22	1.1031	2	10899	C7H8O3	3-methoxy-1,2-benzenediol	934-00-9	22.20	1.1022	2
10773	C7H8FN	3-fluoro-4-methylaniline	452-77-7	25.00	1.0930	1	10900	C7H8O3	5-methoxy-1,3-benzenediol	2174-64-3	22.20	1.1022	2
10777	C7H8FNO	3-fluoro-p-anisidine	366-99-4	25.00	1.1382	2	10901	C7H8O3	5-methyl-1,2,3-benzenetriol	609-25-6	22.20	1.1022	2
10779	C7H8FNO3S	4-methoxymetanilyl fluoride	498-74-8	25.00	1.3608	2	10903	C7H8O3	3,5-dihydroxybenzyl alcohol	29654-55-5	22.20	1.1022	2
10783	C7H8IN	2-iodo-4-methylaniline	29289-13-2	25.00	1.7004	2	10905	C7H8O3	2-methoxyhydroquinone	824-46-4	22.20	1.1022	2
10784	C7H8IN	5-iodo-2-methylaniline	83863-33-6	25.00	1.7004	2	10906	C7H8O3	3-methylfuroic acid, methyl ester	6141-57-7	22.20	1.1022	2
10786	C7H8IN	4-iodo-3-methylaniline	4949-69-3	25.00	1.7004	2	10911	C7H8O3	ethyl maltol	4940-11-8	22.20	1.1022	2
10790	C7H8N2	1,5-dimethyl-2-pyrrolecarbonitrile	56341-36-7	25.00	1.0656	2	10914	C7H8O3S	2-methylbenzenesulfonic acid	88-20-0	25.00	1.4500	2
10791	C7H8N2O	2-aminobenzamide	88-68-6	23.75	1.1683	2	10915	C7H8O3S	p-toluenesulfonic acid	104-15-4	25.00	1.4500	1
10792	C7H8N2O	benzohydrazide	613-94-5	23.75	1.1683	2	10916	C7H8O3S	4-methylsulphonylphenol	14763-60-1	25.00	1.2600	2
10794	C7H8N2O	phenylurea	64-10-8	25.00	1.3020	1	10917	C7H8O3S	phenyl methanesulfonate	16156-59-5	25.00	1.2600	2
10795	C7H8N2O	N-3-pyridinylacetamide	5867-45-8	23.75	1.1683	2	10920	C7H8S	p-methylthiophenol	106-45-6	51.00	1.0220	1
10796	C7H8N2O	4-aminobenzamide	2835-68-9	23.75	1.1683	2	10922	C7H8S	benzenemethanethiol	100-53-8	-29.20	1.2917	2
10797	C7H8N2O	3-aminobenzamide	3544-24-9	23.75	1.1683	2	10923	C7H8S2	4-methyl-1,2-benzenedithiol	496-74-2	25.00	1.1543	2
10798	C7H8N2O	(1-ethoxyethylidene)malononitrile	5417-82-3	23.75	1.1683	2	10943	C7H9ClN2O	2-pyridinealdoxime methochloride	51-15-0	25.00	1.2324	2
10799	C7H8N2O	N-methylnicotinamide	114-33-0	23.75	1.1683	2	10949	C7H9F3N2O4	N-trifluoroacetyl-L-glutamine	2419-34-3	25.00	1.4297	2
10802	C7H8N2O	salicylaldehyde hydrazone	45744-18-1	23.75	1.1683	2	10953	C7H9N	benzylamine	100-46-9	-46.00	1.2109	2
10806	C7H8N2O2	2,3-diaminobenzoic acid	603-81-6	92.67	1.2333	2	10954	C7H9N	N-methylaniline	100-61-8	-57.00	1.2216	2
10807	C7H8N2O2	2,4-diaminobenzoic acid	611-03-0	92.67	1.2333	2	10955	C7H9N	m-toluidine	108-44-1	-31.25	1.2001	2
10808	C7H8N2O2	3,5-diaminobenzoic acid	535-87-5	92.67	1.2333	2	10956	C7H9N	o-toluidine	95-53-4	-16.35	1.2001	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
10957	C7H9N	p-toluidine	106-49-0	29.03	1.0489	1	11176	C7H10O2	3,4-dimethyl-1,2-cyclopentanedione	13494-06-9	23.00	1.0072	2
10961	C7H9N	2,6-dimethylpyridine	108-48-5	-6.15	1.1037	2	11177	C7H10O2	3,5-dimethyl-1,2-cyclopentanedione	21834-98-0	23.00	1.0072	2
10971	C7H9NO	2-aminobenzenemethanol	5344-90-1	26.71	1.0723	2	11180	C7H10O2	2-ethyl-1,3-cyclopentanedione	823-36-9	23.00	1.0072	2
10972	C7H9NO	2-amino-3-methylphenol	2835-97-4	26.71	1.0723	2	11184	C7H10O2	2-methyl-1,3-cyclohexanedione	1193-55-1	23.00	1.0072	2
10973	C7H9NO	2-amino-4-methylphenol	95-84-1	26.71	1.0723	2	11185	C7H10O2	5-methylcyclohexane-1,3-dione	4341-24-6	23.00	1.0072	2
10974	C7H9NO	3-amino-4-methylphenol	2836-00-2	26.71	1.0723	2	11189	C7H10O3	2,4,6-heptanetrione	626-53-9	40.00	1.0599	1
10975	C7H9NO	3-amino-5-methylphenol	76619-89-1	26.71	1.0723	2	11192	C7H10O3	2,2-dimethylglutaric anhydride	2938-48-9	25.56	1.0731	2
10976	C7H9NO	4-amino-2-methylphenol	2835-96-3	26.71	1.0723	2	11193	C7H10O3	3,3-dimethylglutaric anhydride	4160-82-1	25.56	1.0731	2
10977	C7H9NO	2,6-dimethylpyridine-1-oxide	1073-23-0	25.00	1.0730	1	11195	C7H10O3	5-ethyl-3-hydroxy-4-methyl-2(5H)-furanone	698-10-2	25.56	1.0731	2
10978	C7H9NO	N-hydroxy-4-methylaniline	623-10-9	26.71	1.0723	2	11199	C7H10O4	cis-1,3-cyclopentanedicarboxylic acid	876-05-1	21.73	1.1246	2
10981	C7H9NO	4-methoxyaniline	104-94-9	57.00	1.0710	1	11204	C7H10O4	dimethyl methylenesuccinate	617-52-7	18.00	1.1241	1
10985	C7H9NO	3-aminobenzyl alcohol	1877-77-6	26.71	1.0723	2	11206	C7H10O4	(1-methylethylidene)butanedioic acid	584-27-0	21.73	1.1246	2
10986	C7H9NO	4-aminobenzyl alcohol	623-04-1	26.71	1.0723	2	11212	C7H10O4	DL-terebic acid	79-91-4	21.73	1.1246	2
10987	C7H9NO	6-amino-m-cresol	2835-98-5	26.71	1.0723	2	11213	C7H10O4	2,2,5-trimethyl-1,3-dioxane-4,6-dione	3709-18-0	21.73	1.1246	2
10988	C7H9NO	4-amino-m-cresol	2835-99-6	26.71	1.0723	2	11218	C7H10O5	dimethyl methoxymethylenemalonate	22398-14-7	22.00	1.1766	2
10990	C7H9NO	3-amino-o-cresol	53222-92-7	26.71	1.0723	2	11221	C7H10O5	4-ketopimelic acid	502-50-1	22.00	1.1766	2
10991	C7H9NO	2-methylaminophenol	611-24-5	26.71	1.0723	2	11222	C7H10O5	shikimic acid	138-59-0	22.00	1.1766	2
10992	C7H9NO	6-methyl-2-pyridinemethanol	1122-71-0	26.71	1.0723	2	11224	C7H10O6	trimethyl methanetricarboxylate	1186-73-8	25.00	1.2939	2
10993	C7H9NO	4-amino-2-hydroxytoluene	2835-95-2	26.71	1.0723	2	11275	C7H11NO	cyclohexyl isocyanate	3173-53-3	-80.00	1.4019	2
10997	C7H9NO	o-tolylhydroxylamine	611-22-3	26.71	1.0723	2	11276	C7H11NO	1-hydroxycyclohexanecarbonitrile	931-97-5	20.00	1.0172	1
10999	C7H9NO2	ammonium benzoate	1863-63-4	25.00	1.1200	2	11277	C7H11NO	7-azabicyclo[4.2.0]octan-8-one	34102-49-3	22.50	1.0471	2
11001	C7H9NO2	5-amino-2-methoxyphenol	1687-53-2	25.00	1.1200	2	11278	C7H11NO	trans-2-cyano-1-cyclohexanol	63301-31-5	22.50	1.0471	2
11002	C7H9NO2	1,2-dimethyl-3-hydroxy-4-pyridone	30652-11-0	25.00	1.1200	2	11279	C7H11NO	pivaloylacetonitrile	59997-51-2	22.50	1.0471	2
11003	C7H9NO2	2,6-lutidine-alpha2,3-diol	42097-42-7	25.00	1.1200	2	11281	C7H11NO2	arecaidine	499-04-7	23.75	1.0648	2
11004	C7H9NO2	2,6-pyridinedimethanol	1195-59-1	25.00	1.1200	2	11283	C7H11NO2	3-ethyl-3-methyl-2,5-pyrrolidinedione	77-67-8	23.75	1.0648	2
11008	C7H9NO2S	N-phenylmethanesulfonamide	1197-22-4	25.00	1.2247	2	11285	C7H11NO2	cis-2-amino-4-cyclohexene-1-carboxylic acid	54162-90-2	23.75	1.0648	2
11010	C7H9NO2S	o-toluenesulfonamide	88-19-7	25.00	1.2247	2	11286	C7H11NO2	trans-2-amino-4-cyclohexene-1-carboxylic acid	97945-19-2	23.75	1.0648	2
11012	C7H9NO2S2	2,3-dihydro-2-thioxo-4-thiazoleacetic acidet*	38449-49-9	25.00	1.3084	2	11287	C7H11NO2	3,3-dimethylglutarimide	1123-40-6	23.75	1.0648	2
11015	C7H9NO3	3-[(E)-2-butenoyl]-1,3-oxazolidin-2-one	109299-92-5	25.00	1.1948	2	11289	C7H11NO2	methylpentynol carbamate	302-66-9	23.75	1.0648	2
11017	C7H9NO3S	5-amino-2-methylbenzenesulfonic acid	118-88-7	25.00	1.2874	2	11291	C7H11NO2	2-methylenecyclopropanylalanine	156-56-9	23.75	1.0648	2
11018	C7H9NO3S	6-amino-m-toluenesulfonic acid	88-44-8	25.00	1.2874	2	11293	C7H11NO3	N-(ethoxymethyl)succinimide	98431-97-1	25.00	1.0644	2
11030	C7H9N3O	2-phenylhydrazinecarboxamide	103-03-7	25.00	1.1892	2	11297	C7H11NO3	ethyl (R)-(-)-2-pyrrolidone-5-carboxylate	68766-96-1	25.00	1.0644	2
11031	C7H9N3O	N-phenylhydrazinecarboxamide	537-47-3	25.00	1.1892	2	11298	C7H11NO3	ethyl (S)-(+)-2-pyrrolidone-5-carboxylate	7149-65-7	25.00	1.0644	2
11032	C7H9N3O	(2-aminobenzoyl)hydrazide	1904-58-1	25.00	1.1892	2	11303	C7H11NO4	trans-1-acetyl-4-hydroxy-L-proline	33996-33-7	25.00	1.1985	2
11033	C7H9N3O	(4-aminobenzoyl)hydrazide	5351-17-7	25.00	1.1892	2	11307	C7H11NO5	N-acetylglutamic acid	1188-37-0	25.00	1.2603	2
11034	C7H9N3O	3-hydroxy-3-methyl-1-phenyltriazene	5756-69-4	25.00	1.1892	2	11315	C7H11N3	3-methyl-1-(p-tolyl)-triazene	21124-13-0	25.00	1.0511	2
11035	C7H9N3O2	4-amino-2-hydroxybenzohydrazide	6946-29-8	25.00	1.2594	2	11316	C7H11N3O	acetylhistamine	673-49-4	25.00	1.1252	2
11038	C7H9N3O2S2	sulfathiourea	515-49-1	25.00	1.4115	2	11319	C7H11N3O2	ipropran	14885-29-1	25.00	1.1935	2
11040	C7H9N3O3S	sulfanilylurea	547-44-4	25.00	1.3984	2	11322	C7H11N7S	2-azido-4-isopropylamino-6-methylthio-S-tria*	4658-28-0	25.00	1.3815	2
11041	C7H9N3O3S	ethyl 2-(2-aminothiazol-4-yl)-2-hydroxyimino*	64485-82-1	25.00	1.3984	2	11340	C7H12	1-heptyne	628-71-7	-80.89	0.9560	2
11042	C7H9N3S	4-phenyl-3-thiosemicarbazide	5351-69-9	25.00	1.2201	2	11354	C7H12	bicyclo[2.2.1]heptane	279-23-2	23.89	0.7558	2
11043	C7H9N3S	1-phenylthiosemicarbazide	645-48-7	25.00	1.2201	2	11356	C7H12	cycloheptene	628-92-2	-56.00	1.0483	2
11044	C7H9N5	2-dimethylaminopurine	938-55-6	25.00	1.2552	2	11376	C7H12ClN5	simazine	122-34-9	20.00	1.3020	1
11047	C7H10	2-norbornene	498-66-8	25.00	0.9500	1	11383	C7H12N2O	trans-2-amino-4-cyclohexene-1-carboxamide	'27411-24-	25.00	1.0278	2
11060	C7H10BrN	1-ethylpyridinium bromide	1906-79-2	25.00	1.3691	2	11384	C7H12N2O	cis-2-amino-4-cyclohexene-1-carboxamide	111302-96-6	25.00	1.0278	2
11064	C7H10ClN	N-methylaniline hydrochloride	2739-12-0	131.00	1.0660	1	11385	C7H12N2O	1,3-diallylurea	1801-72-5	25.00	1.0278	2
11065	C7H10ClN	o-methylaniline, hydrochloride	636-21-5	25.00	1.0661	2	11387	C7H12N2O2	N-(tert-butoxycarbonyl)-2-aminoacetonitrile	85363-04-8	25.00	1.0998	2
11066	C7H10ClN	m-toluidine hydrochloride	638-03-9	25.00	1.0661	2	11388	C7H12N2O2	(R)-3-isopropyl-2,5-piperazinedione	143673-66-9	25.00	1.0998	2
11068	C7H10ClN3	crimidine	535-89-7	25.00	1.1985	2	11389	C7H12N2O2	2-ethyl-trans-crotonylurea	2884-67-5	25.00	1.0998	2
11069	C7H10ClN3O3	ornidazole	16773-42-5	25.00	1.3722	2	11390	C7H12N2O2	cis-(2-ethylcrotonyl) urea	95-04-5	25.00	1.0998	2
11079	C7H10N2	m-toluenediamine	95-80-7	98.10	1.2217	2	11394	C7H12N2O4S	S-nitroso-N-acetyl-DL-penicillamine	67776-06-1	25.00	1.3048	2
11080	C7H10N2	2-methyl-1,3-benzenediamine	823-40-5	103.50	0.9554	2	11395	C7H12N2O5	glycyl-L-glutamic acid	7412-78-4	25.00	1.2853	2
11081	C7H10N2	2-methyl-1,4-benzenediamine	95-70-5	21.70	1.0289	2	11399	C7H12N2S	2-amino-4-tert-butylthiazole	74370-93-7	25.00	1.0677	2
11082	C7H10N2	3-methyl-1,2-benzenediamine	2687-25-4	21.70	1.0289	2	11434	C7H12O	endo-(±)-norborneol	497-36-9	20.97	0.8793	2
11083	C7H10N2	4-methyl-1,2-benzenediamine	496-72-0	21.70	1.0289	2	11435	C7H12O	(2R)-(+)-endo-norborneol	61277-90-5	20.97	0.8793	2
11084	C7H10N2	N-methyl-1,4-benzenediamine	623-09-6	21.70	1.0289	2	11443	C7H12O	exo-norborneol	497-37-0	20.97	0.8793	2
11085	C7H10N2	2-aminobenzenemethanamine	4403-69-4	21.70	1.0289	2	11450	C7H12O2	butyl acrylate	141-32-2	-64.60	1.1407	2
11087	C7H10N2	2,6-dimethyl-4-pyridinamine	3512-80-9	21.70	1.0289	2	11450.1	C7H12O2	sec-butyl acrylate	2998-08-5	-62.30	1.1330	2
11088	C7H10N2	N,N-dimethyl-2-pyridinamine	5683-33-0	14.00	1.0149	1	11451	C7H12O2	isobutyl acrylate	106-63-8	-61.15	1.1266	2
11096	C7H10N2	2-amino-4,6-dimethylpyridine	5407-87-4	21.70	1.0289	2	11452	C7H12O2	propyl methacrylate	2210-28-8	-85.15	1.1702	2
11097	C7H10N2	3,5-diaminotoluene	108-71-4	21.70	1.0289	2	11455	C7H12O2	cyclohexanecarboxylic acid	98-89-5	22.00	1.0334	1
11098	C7H10N2	4-dimethylaminopyridine	1122-58-3	21.70	1.0289	2	11456	C7H12O2	cyclohexyl formate	4351-54-6	-63.15	1.2535	2
11099	C7H10N2	2,6-dimethyl-3-pyridinamine	3430-33-9	21.70	1.0289	2	11458	C7H12O2	cyclopentaneacetic acid	1123-00-8	13.50	1.1997	2
11103	C7H10N2	p-tolylhydrazine hydrochloride	637-60-5	25.00	1.0033	2	11460	C7H12O2	2,3-heptanedione	96-04-8	18.00	0.9190	1
11108	C7H10N2O	4-methoxy-1,3-benzenediamine	615-05-4	25.00	1.0435	2	11461	C7H12O2	2,6-heptanedione	13505-34-5	37.00	0.9399	1
11109	C7H10N2O	4-methoxy-1,2-benzenediamine	102-51-2	25.00	1.0435	2	11462	C7H12O2	3-methyl-2,5-hexanedione	4437-50-7	20.00	0.9527	1
11114	C7H10N2OS	2,3-dihydro-6-propyl-2-thioxo-4(1H)-pyrimidi*	51-52-5	25.00	1.1909	2	11463	C7H12O2	5-methyl-2,3-hexanedione	13706-86-0	22.00	0.9080	1
11118	C7H10N2O2S	carbimazole	22232-54-8	25.00	1.2536	2	11465	C7H12O2	3-ethyl-2,4-pentanedione	1540-34-7	19.00	0.9531	1
11119	C7H10N2O2S	ethyl 2-amino-4-thiazoleacetate	53266-94-7	25.00	1.2536	2	11489	C7H12O2	3,5-heptanedione	7424-54-6	25.00	0.9460	1
11120	C7H10N2O2S	p-toluenesulfonhydrazide	1576-35-8	25.00	1.2536	2	11493	C7H12O2	vinyl pivalate	3377-92-2	-78.00	1.0209	2
11121	C7H10N2O3	2,2-dimethyl-4-methoxycarbonyl-2H-imidazole-*	38000-94-	25.00	1.2276	2	11505	C7H12O3	2,2-dimethyl-4-oxopentanoic acid	470-49-5	22.00	1.0239	2
11122	C7H10N2O3	5-isopropylbarbituric acid	7391-697-7	25.00	1.2276	2	11515	C7H12O3	1,2-propanediol 1-methacrylate	923-26-2	-73.15	1.3019	2
11124	C7H10N2O4	(R,S)-a-amino-3-hydroxy-5-methyl-4-isoxazole*	74341-63-2	25.00	1.2908	2	11526	C7H12O3	6-oxoheptanoic acid	3218-07-2	25.00	1.0590	1
11131	C7H10N4O2	2-(2-aminoethylamino)-5-nitropyridine	29602-39-9	25.00	1.2876	2	11528	C7H12O3	botryodiplodin	27098-03-9	22.00	1.0239	2
11132	C7H10N4O2S	sulfaguanidine	57-67-0	25.00	1.3642	2	11530	C7H12O4	diethyl malonate	105-53-3	-48.90	1.3134	2
11138	C7H10O	3-cyclohexene-1-carboxaldehyde	100-50-5	-96.10	1.2296	1	11531	C7H12O4	butylpropanedioic acid	534-59-8	21.89	1.1150	2
11148	C7H10O	1-ethynylcyclopentanol	17356-19-3	25.00	0.9620	1	11532	C7H12O4	diethylpropanedioic acid	510-20-3	21.89	1.1150	2
11157	C7H10O	norcamphor	497-38-1	22.32	0.9407	2	11535	C7H12O4	3,3-dimethylpentanedioic acid	4839-46-7	20.00	1.4278	1
11159	C7H10O	(1a,2b,4b,5a)-3-oxatricyclo[3.2.1.02,4]octane	3146-39-2	22.32	0.9407	2	11537	C7H12O4	heptanedioic acid	111-16-0	106.00	1.2648	2
11165	C7H10O2	1-cyclohexene-1-carboxylic acid	636-82-8	20.00	1.1090	1	11538	C7H12O4	isobutylpropanedioic acid	4361-06-2	21.89	1.1150	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
11540	C7H12O4	2-methylhexanedioic acid	626-70-0	21.89	1.1150	2	11831	C7H14O	4-heptanone	123-19-3	-32.50	1.0083	2
11541	C7H12O4	3-methylhexanedioic acid, (±)	81177-02-8	21.89	1.1150	2	11834	C7H14O	5-methyl-2-hexanone	110-12-3	-73.90	1.0391	2
11546	C7H12O4	2,4,8,10-tetraoxaspiro[5.5]undecane	126-54-5	21.89	1.1150	2	11843	C7H14O	2,4-dimethyl-3-pentanone	565-80-0	-68.34	1.1761	2
11548	C7H12O4	2,2-dimethylglutaric acid	681-57-2	21.89	1.1150	2	11844	C7H14O	1-methylcyclohexanol	590-67-0	26.00	1.0848	2
11549	C7H12O4	2,4-dimethylglutaric acid, DL and meso	2121-67-7	21.89	1.1150	2	11845	C7H14O	cis-2-methylcyclohexanol	7443-70-1	7.00	1.1076	2
11552	C7H12O4	3-methyladipic acid	3058-01-3	21.89	1.1150	2	11846	C7H14O	trans-2-methylcyclohexanol	7443-52-9	-4.00	1.1042	2
11553	C7H12O4	(R)-(+)-3-methyladipic acid	623-82-5	21.89	1.1150	2	11847	C7H14O	cis-3-methylcyclohexanol	5454-79-5	-5.50	1.0951	2
11562	C7H12O5	1,3-diacetin	102-62-5	15.00	1.1780	1	11848	C7H14O	trans-3-methylcyclohexanol	7443-55-2	-0.50	1.0951	2
11564	C7H12O6	quinic acid	77-95-2	25.00	1.6400	1	11849	C7H14O	cis-4-methylcyclohexanol	7731-28-4	-9.20	1.1099	2
11565	C7H12O6Si	methyltriacetoxysilane	4253-34-3	20.00	1.1750	1	11850	C7H14O	trans-4-methylcyclohexanol	7731-29-5	-8.15	1.0939	2
11566	C7H12O7	a-D-glucoheptonic acid g-lactone	60046-25-5	25.00	1.2882	2	11884	C7H14O2	heptanoic acid	111-14-8	-7.32	1.0192	1
11576	C7H13BrN2O2	N-(aminocarbonyl)-2-bromo-2-ethylbutanamide	77-65-6	25.00	1.5440	1	11891	C7H14O2	hexyl formate	629-33-4	-62.62	1.1066	2
11579	C7H13BrO2	7-bromoheptanoic acid	30515-28-7	20.43	1.2962	2	11892	C7H14O2	pentyl acetate	628-63-7	-70.80	1.1170	2
11586	C7H13Br3	1,1,1-tribromoheptane	62127-64-4	25.00	1.8080	2	11895	C7H14O2	isopentyl acetate	123-92-2	-78.50	1.1222	2
11601	C7H13ClO2	ethyl 2-chloro-3-methylbutanoate	91913-99-4	13.00	1.0210	1	11901	C7H14O2	butyl propanoate	590-01-2	-89.52	1.1339	2
11621	C7H13I3	1,1,1-triiodoheptane	---	25.00	2.2496	2	11905	C7H14O2	propyl butanoate	105-66-8	-95.20	1.1391	2
11623	C7H13N	1-azabicyclo[2.2.2]octane	100-76-5	25.00	0.8743	2	11908	C7H14O2	propyl isobutanoate	644-49-5	-73.15	1.1105	2
11633	C7H13NO	1-azabicyclo[2.2.2]octan-3-ol	1619-34-7	22.00	0.9509	2	11909	C7H14O2	ethyl isovalerate	108-64-5	-99.30	1.1378	2
11634	C7H13NO	N-cyclohexylformamide	766-93-8	17.00	1.0123	1	11925	C7H14O2	2-methylhexanoic acid	4536-23-6	-43.15	1.1271	2
11635	C7H13NO	1-aza-2-cyclooctanone	673-66-5	22.00	0.9509	2	11927.1	C7H14O2	allyl-tert-butylperoxide	39972-78-6	-60.15	1.0538	2
11638	C7H13NO	cyclohexanecarboxamide	1122-56-1	22.00	0.9509	2	11927.2	C7H14O2	neoheptanoic acid	1185-39-3	-43.15	1.1352	2
11643	C7H13NO	(R)-quinuclidin-3-ol	25333-42-0	22.00	0.9509	2	11931	C7H14O3	ethyl-3-ethoxypropionate	763-69-9	-55.15	1.2031	2
11644	C7H13NO	N-tert-butylacrylamide	107-58-4	22.00	0.9509	2	11934.1	C7H14O3	propylene glycol ethyl ether acetate	54839-24-6	-60.15	1.1900	2
11652	C7H13NO2	stachydrine	471-87-4	23.64	1.0259	2	11944	C7H14O4	2,6-dideoxy-3-O-methyl-ribo-hexose	579-04-4	21.50	1.0845	2
11653	C7H13NO2	1-amino-1-cyclohexanecarboxylic acid	2756-85-6	23.64	1.0259	2	11946	C7H14O4	L-(+)-2,2-dimethyl-1,3-dioxolane-4,5-dimetha*	50622-09-8	21.50	1.0845	2
11654	C7H13NO2	trans-2-amino-1-cyclohexanecarboxylic acid	5691-19-0	23.64	1.0259	2	11947	C7H14O4	(-)-2,3-O-isopropylidene-D-threitol	73346-74-4	21.50	1.0845	2
11655	C7H13NO2	cis-2-amino-1-cyclohexanecarboxylic acid	5691-20-3	23.64	1.0259	2	11949	C7H14O5	6-deoxy-3-O-methylgalactose	4481-08-7	25.00	1.1180	2
11662	C7H13NO2	trans-2-hydroxy-1-cyclohexanecarboxamide	24947-95-3	23.64	1.0259	2	11952	C7H14O6	alpha-methylglucoside	97-30-3	30.00	1.4600	1
11663	C7H13NO2	cis-2-hydroxy-1-cyclohexanecarboxamide	73045-98-4	23.64	1.0259	2	11953	C7H14O6	methyl-b-D-galactopyranoside	1824-94-8	25.00	1.1769	2
11668	C7H13NO2S	(4S,2RS)-2,5,5-trimethylthiazolidine-4-carbo*	212755-85-6	25.00	1.1104	2	11954	C7H14O6	methyl-a-D-galactopyranoside	3396-99-4	25.00	1.1769	2
11669	C7H13NO3	betonicine	515-25-3	25.00	1.0764	2	11955	C7H14O6	3-O-methyl-D-glucopyranose	3370-81-8	25.00	1.1769	2
11671	C7H13NO3	(S)-2,2-dimethyl-1,3-dioxolane-4-acetamide	185996-33-2	25.00	1.0764	2	11956	C7H14O6	3-O-methylglucose	13224-94-7	25.00	1.1769	2
11673	C7H13NO3S	N-acetyL-L-methionine	65-82-7	25.00	1.1701	2	11957	C7H14O6	a-methyl-D-mannopyranoside	617-04-9	25.00	1.1769	2
11674	C7H13NO3S	N-acetyl-DL-penicillamine	59-53-0	25.00	1.1701	2	11958	C7H14O6	D-pinitol	10284-63-6	25.00	1.1769	2
11676	C7H13NO3S2	N-(2-mercapto-2-methylpropanoyl)-L-cysteine	65002-17-7	25.00	1.2475	2	11959	C7H14O6	(-)-quebrachitol	642-38-6	25.00	1.1769	2
11678	C7H13NO4	gamma-ethyl L-glutamate	1119-33-1	20.50	1.1070	2	11982	C7H15Br	1-bromoheptane	629-04-9	-56.10	1.4203	2
11680	C7H13NO4	boc-glycine	4530-20-5	20.50	1.1070	2	11983	C7H15Br	2-bromoheptane	1974-04-5	20.00	1.1277	1
11682	C7H13NO4S	2-acrylamido-2-methylpropanesulfonic acid	15214-89-8	25.00	1.4500	1	12024	C7H15N	N-methylcyclohexylamine	100-60-7	-8.50	1.0437	2
11688	C7H13N3O3S	oxamyl	23135-22-0	25.00	0.9700	1	12041	C7H15N	octahydroazocine	1121-92-2	25.00	0.8960	1
11691	C7H13N5S	hexamethylene tetramine thiocyanate	52302-51-9	25.00	1.2182	2	12047	C7H15N	cis-2,6-dimethylpiperidine	766-17-6	25.00	0.8400	1
11696	C7H14	ethylcyclopentane	1640-89-7	-138.44	1.0408	2	12048	C7H15N	2-ethylpiperidine	1484-80-6	25.00	0.8600	1
11697	C7H14	1,1-dimethylcyclopentane	1638-26-2	-69.79	0.9730	2	12057	C7H15NO	2,4-dimethyl-3-pentanone oxime	1113-74-2	17.00	0.9022	1
11699	C7H14	cis-1,2-dimethylcyclopentane	1192-18-3	-53.89	0.9750	2	12059	C7H15NO	heptanal oxime	629-31-2	55.00	0.8583	1
11700	C7H14	trans-1,2-dimethylcyclopentane	822-50-4	-117.57	1.0113	2	12060	C7H15NO	heptanamide	628-62-6	110.00	0.8521	1
11702	C7H14	cis-1,3-dimethylcyclopentane	2532-58-3	-133.70	1.0212	2	12064	C7H15NO	2-piperidineethanol	1484-84-0	27.00	1.0100	1
11703	C7H14	trans-1,3-dimethylcyclopentane	1759-58-6	-133.97	1.0212	2	12065	C7H15NO	4-piperidineethanol	622-26-4	15.00	1.0059	1
11704	C7H14	methylcyclohexane	108-87-2	-126.57	1.0408	2	12075	C7H15NO2	1-nitroheptane	693-39-0	17.00	0.9476	1
11705	C7H14	cycloheptane	291-64-5	-8.03	0.9750	2	12084	C7H15NO2	3-amino-5-methylhexanoic acid	3653-34-7	21.00	0.9441	2
11706	C7H14	1-heptene	592-76-7	-118.88	0.9436	2	12085	C7H15NO2	1-ethyl-1-methylpropyl carbamate	78-28-4	21.00	0.9441	2
11708	C7H14	cis-2-heptene	6443-92-1	-109.15	0.9514	2	12086	C7H15NO2	3-(1-pyrrolidinyl)propane-1,2-diol	85391-19-1	21.00	0.9441	2
11709	C7H14	trans-2-heptene	14686-13-6	-109.48	0.9397	2	12090	C7H15NO3	carnitine	541-15-1	25.00	1.0995	2
11712	C7H14	cis-3-heptene	7642-10-6	-136.64	0.9652	2	12091	C7H15NO3	D(+)-carnitine	541-14-0	25.00	1.0995	2
11713	C7H14	trans-3-heptene	14686-14-7	-136.63	0.9583	2	12092	C7H15NO3	DL-2-isobutylserine	7522-44-3	25.00	1.0995	2
11714	C7H14	2-methyl-1-hexene	6094-02-6	-102.87	0.9387	2	12093	C7H15NO3	3-morpholino-1,2-propanediol	6425-32-7	25.00	1.1570	1
11715	C7H14	3-methyl-1-hexene	3404-61-3	-128.15	0.9426	2	12097	C7H15NO4S	MOPS	1132-61-2	25.00	1.1751	2
11716	C7H14	4-methyl-1-hexene	3769-23-1	-141.45	0.9622	2	12112	C7H16	heptane	142-82-5	-90.58	0.8636	1
11717	C7H14	5-methyl-1-hexene	3524-73-0	-112.15	0.9318	2	12113	C7H16	2-methylhexane	591-76-4	-118.25	0.9159	2
11729	C7H14	2-ethyl-1-pentene	3404-71-5	-105.15	0.9485	2	12114	C7H16	3-methylhexane	589-34-4	-119.40	0.9179	2
11730	C7H14	3-ethyl-1-pentene	4038-04-4	-127.48	0.9259	2	12115	C7H16	3-ethylpentane	617-78-7	-118.60	0.9479	2
11744	C7H14	2,3,3-trimethyl-1-butene	594-56-9	-109.85	0.9495	2	12116	C7H16	2,2-dimethylpentane	590-35-2	-123.81	0.9219	2
11749	C7H14BrNO	2-bromo-2-ethyl-3-methylbutanamide	466-14-8	25.00	1.2925	2	12117	C7H16	2,3-dimethylpentane	565-59-3	-135.00	0.9229	2
11754	C7H14Br2	1,7-dibromoheptane	4549-31-9	20.00	1.5306	1	12118	C7H16	2,4-dimethylpentane	108-08-7	-119.24	0.9058	2
11758	C7H14ClNO	diisopropylcarbamoyl chloride	19009-39-3	25.00	1.0200	1	12119	C7H16	3,3-dimethylpentane	562-49-2	-134.45	0.9569	2
11781	C7H14NO5P	monocrotophos	6923-22-4	20.00	1.3300	1	12120	C7H16	2,2,3-trimethylbutane	464-06-2	-24.58	0.8497	2
11786	C7H14N2O	cis-2-amino-1-cyclohexanecarboxamide	115014-77-2	25.00	0.9780	2	12122	C7H16BrNOS	S-acetylthiocholine bromide	25025-59-6	25.00	1.3050	2
11798	C7H14N2O2	N-acetyl L-valinamide	37933-88-3	25.00	1.0475	2	12123	C7H16BrNO2	acetylcholine bromide	66-23-9	25.00	1.2874	2
11803	C7H14N2O2S	aldicarb	116-06-3	25.00	1.1950	1	12124	C7H16ClN	mepiquat chloride	24307-26-4	25.00	0.9253	2
11805	C7H14N2O3	5-butylhydantoic acid	63059-33-6	25.00	1.1121	2	12125	C7H16ClNO2	acetylcholine chloride	60-31-1	25.00	1.0502	2
11806	C7H14N2O3	N-glycyl-L-valine	1963-21-9	25.00	1.1121	2	12131	C7H16INO2	acetylcholine iodide	2260-50-6	25.00	1.4816	2
11816	C7H14N2O4	2,6-diaminoheptanedioic acid	583-93-7	25.00	1.1722	2	12132	C7H16INOS	S-acetylthiocholine iodide	1866-15-5	25.00	1.4885	2
11817	C7H14N2O4	methylene diurethan	3693-53-6	25.00	1.1722	2	12147	C7H16N2O	N,N'-dipropylurea	623-95-0	25.00	0.9339	2
11819	C7H14N2O4S	3-(sulfonyl)-O-((methylamino)carbonyl)oxime-*	34681-23-7	25.00	1.2500	2	12164	C7H16O	1-heptanol	111-70-6	-34.00	1.0086	2
11820	C7H14N2O4S2	djenkolic acid	498-59-9	25.00	1.3152	2	12165	C7H16O	2-heptanol	543-49-7	-30.15	1.0040	2
11823	C7H14N3O	4-amino-2,2,5,5-tetramethyl-3-imidazoline-1-*	69826-42-2	25.00	1.0438	2	12168	C7H16O	2-methyl-1-hexanol	624-22-6	-53.15	1.0330	2
11826	C7H14N4S2	1-methyl-6-(1-methylallyl)-2,5-dithiobiurea	926-93-2	25.00	1.2170	2	12171	C7H16O	5-methyl-1-hexanol	627-98-5	-59.18	0.9552	2
11827	C7H14O	1-heptanal	111-71-7	-43.35	1.0151	2	12212.1	C7H16O	isopropyl isobutyl ether	78448-33-6	-93.15	0.9831	2
11828	C7H14O	3-methylhexanal	19269-28-4	-43.00	1.0174	2	12213	C7H16O	2-ethoxy-2-methylbutane	919-94-8	-83.15	0.9982	2
11828.1	C7H14O	2-methylhexanal	925-54-2	-38.15	1.0174	2	12217	C7H16O	1-(1-methylethoxy)butane	1860-27-1	-93.15	0.9935	2
11829	C7H14O	2-heptanone	110-43-0	-35.00	1.0094	2	12235	C7H16O2	2-methyl-2,5-hexanediol	29044-06-2	21.50	0.9104	2
11830	C7H14O	3-heptanone	106-35-4	-39.00	1.0117	2	12247	C7H16O2	2,2-dimethyl-1,3-pentanediol	2157-31-5	21.50	0.9104	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
12253	C7H16O2	2,4-dimethyl-2,3-pentanediol	66225-53-4	21.50	0.9104	2	12558	C8H4F4O	2,2,2,4'-tetrafluoroacetophenone	655-32-3	25.00	1.3700	1
12258	C7H16O2	erythro-4,4-dimethyl-2,3-pentanediol	23646-57-3	21.50	0.9104	2	12561	C8H4F4O2	4-fluoro-2(trifluoromethyl)benzoic acid	141179-72-8	25.00	1.4412	2
12259	C7H16O2	threo-4,4-dimethyl-2,3-pentanediol	23646-58-4	21.50	0.9104	2	12562	C8H4F4O2	a,a,a,2-tetrafluoro-p-toluic acid	115029-24-8	25.00	1.4412	2
12263	C7H16O2	2-sec-butyl-1,3-propanediol	33673-01-7	21.50	0.9104	2	12563	C8H4F4O2	2,3,5,6-tetrafluoro-p-toluic acid	652-32-4	25.00	1.4412	2
12264	C7H16O2	2-methyl-2-propyl-1,3-propanediol	78-26-2	21.50	0.9104	2	12568	C8H4F6O6S2	catechol bis(trifluoromethanesulfonate)	17763-91-6	25.00	1.7186	2
12265	C7H16O2	2,2-diethyl-1,3-propanediol	115-76-4	20.00	1.0500	1	12569	C8H4F13I	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-io*	2043-57-4	25.00	1.9340	1
12272	C7H16O2	1-tert-butoxy-2-propanol	57018-52-7	-55.90	1.1012	2	12575	C8H4N2	m-dicyanobenzene	626-17-5	40.00	0.9920	1
12273	C7H16O2	n-heptyl hydroperoxide	764-81-8	21.50	0.9104	2	12576	C8H4N2	p-dicyanobenzene	623-26-7	32.50	1.1160	2
12275.1	C7H16O2	propylene glycol 2-tert-butyl ether	94023-15-1	-58.15	1.0999	2	12577	C8H4N2	1,2-dicyanobenzene	91-15-6	25.00	1.2400	1
12275.2	C7H16O2	diethylene glycol monopropyl ether	6881-94-3	-52.30	1.0735	2	12578	C8H4N2O	3-cyanophenyl isocyanate	16413-26-6	25.00	1.3378	2
12282	C7H16O3	dipropylene glycol monomethyl ether	34590-94-8	-80.00	1.2197	2	12579	C8H4N2O	4-cyanophenyl isocyanate	40465-45-0	25.00	1.3378	2
12288	C7H16O3	1,2,3-heptanetriol	103404-57-5	23.29	0.9456	2	12580	C8H4N2O2	2,3-dicyanohydroquinone	4733-50-0	25.00	1.4126	2
12295	C7H16O4	triethylene glycol monomethyl ether	112-35-6	-44.00	1.2857	2	12581	C8H4N2O2	1,4-diisocyanatobenzene	104-49-4	25.00	1.4126	2
12296	C7H16O4S2	sulfonmethane	115-24-2	25.00	1.1776	2	12582	C8H4N2O2	1,3-phenylene diisocyanate	123-61-5	25.00	1.4126	2
12298	C7H16O7	methyl a-D-galactopyranoside monohydrate	34004-14-3	25.00	1.1814	2	12583	C8H4N2O4	5-nitroisatin	611-09-6	25.00	1.5421	2
12299	C7H16O9S3	(S)-1,2,4-butanetriol trimethanesulfonate	99520-81-7	25.00	1.4330	2	12584	C8H4N2O4	3-nitrophthalimide	603-62-3	25.00	1.5421	2
12300	C7H16S	heptyl mercaptan	1639-09-4	-43.23	1.0436	2	12585	C8H4N2O4	4-nitrophthalimide	89-40-7	25.00	1.5421	2
12315	C7H17N	heptylamine	111-68-2	-19.00	0.9413	2	12586	C8H4N2O4S	2-nitro-5-thiocyanatobenzoic acid	30211-77-9	25.00	1.5997	2
12358	C7H17NO2	(S)-3-tert-butylamino-1,2-propanediol	30315-46-9	25.00	0.9113	2	12588	C8H4N2S	4-cyanophenyl isothiocyanate	2719-32-6	25.00	1.3612	2
12359	C7H17NO3	1-[N,N-bis(2-hydroxyethyl)amino]-2-propanol	6712-98-7	25.00	1.0750	1	12589	C8H4N2S2	1,4-diisothiocyanatobenzene	4044-65-9	25.00	1.4429	2
12361	C7H17NO5	1-deoxy-1-(methylamino)-D-glucitol	6284-40-8	25.00	1.1020	2	12590	C8H4N4O4	6,7-dinitroquinoxaline	68836-13-5	25.00	1.6542	2
12362	C7H17NO6S	TAPS	29915-38-6	25.00	1.2267	2	12591	C8H4N4O6	DNQX	2379-57-9	25.00	1.7472	2
12375	C7H18N2	N,N-diethyl-1,3-propanediamine	104-78-9	20.00	0.8220	1	12593	C8H4O2S	benzo[b]thiophene-2,3-dione	493-57-2	25.00	1.3634	2
12376	C7H18N2	1,7-heptanediamine	646-19-5	22.00	0.8072	2	12594	C8H4O3	phthalic anhydride	85-44-9	25.00	1.4941	2
12377	C7H18N2	N,N,N',N'-tetramethyl-1,3-propanediamine	110-95-2	18.00	0.7837	1	12595	C8H4O3	2,3-benzofurandione	4732-72-3	25.00	1.3407	2
12378	C7H18N2	N,N-diethyl-N'-methylethylenediamine	104-79-0	25.00	0.8050	1	12601	C8H5Br	1-bromo-4-ethynylbenzene	766-96-1	25.00	1.4450	2
12379	C7H18N2	N,N,2,2-tetramethyl-1,3-propanediamine	53369-71-4	25.00	0.8180	1	12604	C8H5BrO4	5-bromoisophthalic acid	23341-91-5	25.00	1.7446	2
12380	C7H18N2	3-diethylaminopropylamine	14642-66-1	22.00	0.8072	2	12605	C8H5BrO4	4-bromoisophthalic acid	6939-93-1	25.00	1.7446	2
12412	C8Br4O3	tetrabromophthalic anhydride	632-79-1	25.00	2.6984	2	12606	C8H5BrO4	4-bromophthalic acid	6968-28-1	25.00	1.7446	2
12414	C8Cl2N2O2	2,3-dichloro-5,6-dicyanobenzoquinone	84-58-2	25.00	1.7500	2	12607	C8H5BrO4	2-bromoterephthalic acid	586-35-6	25.00	1.7446	2
12415	C8Cl4N2	chlorothalonil	1897-45-6	25.00	1.7000	1	12611	C8H5ClFN	2-chloro-4-fluorobenzyl cyanide	75279-56-0	25.00	1.3099	2
12417	C8Cl4O3	tetrachlorophthalic anhydride	117-08-8	275.00	1.4900	1	12612	C8H5ClFN	2-chloro-6-fluorophenylacetonitrile	75279-55-9	25.00	1.3099	2
12421	C8Co2O8	cobalt carbonyl	10210-68-1	25.00	1.7800	1	12614	C8H5ClF2O	2-chloro-2',4'-difluoroacetophenone	51336-94-8	25.00	1.3544	2
12424	C8F4N2	tetrafluoroisophthalonitrile	2377-81-3	25.00	1.6184	2	12615	C8H5ClN2	6-chloroquinoxaline	5448-43-1	25.00	1.3292	2
12425	C8F4N2	tetrafluoroterephthalonitrile	1835-49-0	25.00	1.6184	2	12616	C8H5ClN2	2-chloroquinoxaline	1448-87-9	25.00	1.3292	2
12432	C8F16I2	hexadecafluoro-1,8-diiodooctane	335-70-6	25.00	2.2482	2	12621	C8H5ClO3	2,6-diformyl-4-chlorophenol	32596-43-3	25.00	1.3964	2
12441	C8HCl4NO2	3,4,5,6-tetrachlorophthalimide	1571-13-7	25.00	1.7335	2	12622	C8H5ClO3	piperonyloyl chloride	25054-53-9	25.00	1.3964	2
12442	C8HF15O2	pentadecafluorooctanoic acid	335-67-1	25.00	1.7282	2	12624	C8H5Cl2FO	2',4'-dichloro-5'-fluoroacetophenone	704-10-9	25.00	1.4250	1
12444	C8H2Cl2O3	4,5-dichloro-1,3-isobenzofurandione	56962-07-3	25.00	1.5974	2	12625	C8H5Cl2F3O2S	4-chlorophenyl 2-chloro-1,1,2-trifluoroethyl*	26574-59-4	25.00	1.5510	2
12445	C8H2Cl2O3	5,6-dichloro-1,3-isobenzofurandione	942-06-3	25.00	1.5974	2	12626	C8H5Cl2N	2,6-dichlorophenylacetonitrile	3215-64-3	25.00	1.3602	2
12446	C8H2Cl2O3	3,6-dichlorophthalic anhydride	4466-59-5	25.00	1.5974	2	12627	C8H5Cl2N	3,4-dichlorophenylacetonitrile	3218-49-3	25.00	1.3602	2
12450	C8H2Cl4O5	mucochloric anhydride	4412-09-3	25.00	1.7629	2	12628	C8H5Cl2N	2,4-dichlorophenylacetonitrile	6306-60-1	25.00	1.3602	2
12451	C8H2F4O4	tetrafluoroisophthalic acid	1551-39-9	25.00	1.6239	2	12631	C8H5Cl2NS	2,6-dichlorobenzyl thiocyanate	7534-64-7	25.00	1.4318	2
12452	C8H2F4O4	tetrafluorophthalic acid	652-03-9	25.00	1.6239	2	12634	C8H5Cl3O	3-(dichloromethyl)benzoyl chloride	36747-51-0	25.00	1.4388	2
12459	C8H3ClF3N	2-chloro-5-(trifluoromethyl)benzonitrile	328-87-0	25.00	1.4661	2	12635	C8H5Cl3O	2',3',4'-trichloroacetophenone	13608-87-2	25.00	1.4388	2
12461	C8H3ClF3NO	4-chloro-3-(trifluoromethyl)phenyl isocyanate	327-78-6	25.00	1.4720	2	12636	C8H5Cl3O	2,2',4'-trichloroacetophenone	4252-78-2	25.00	1.4388	2
12463	C8H3ClF3NS	4-chloro-3-(trifluoromethyl)phenyl isothiocy*	23163-86-2	25.00	1.4700	1	12637	C8H5Cl3O2	2,3,6-trichlorobenezeneacetic acid	85-34-7	25.00	1.4880	2
12475	C8H3Cl2F3N2	4,5-dichloro-2-(trifluoromethyl)-1H-benzimid*	3615-21-2	25.00	1.5776	2	12639	C8H5Cl3O3	2,4,5-trichlorophenoxyacetic acid	93-76-5	25.00	1.5339	2
12476	C8H3Cl3N2	2,3,6-trichloroquinoxaline	2958-87-4	25.00	1.5649	2	12640	C8H5Cl3O3	3,5,6-trichloro-o-anisic acid	2307-49-5	25.00	1.5339	2
12477	C8H3Cl5O	pentachloroacetophenone	25201-35-8	25.00	1.6180	2	12642	C8H5F	1-ethynyl-4-fluorobenzene	766-98-3	25.00	1.0480	1
12478	C8H3FO3	5-fluoro-1,3-isobenzofurandione	319-03-9	25.00	1.4338	2	12643	C8H5FO4	3-fluorophthalic acid	1583-67-1	25.00	1.4111	2
12479	C8H3FO3	3-fluorophthalic anhydride	652-39-1	25.00	1.4338	2	12652	C8H5F3N2	2-(trifluoromethyl)benzimidazole	312-73-2	25.00	1.3658	2
12481	C8H3F3N2O2	2-nitro-4-(trifluoromethyl)benzonitrile	778-94-9	25.00	1.5604	2	12659	C8H5F3O2	3-(trifluoromethoxy)benzaldehyde	52771-21-8	25.00	1.3300	1
12482	C8H3F4N	2-fluoro-6-(trifluoromethyl)benzonitrile	133116-83-3	25.00	1.3730	1	12662	C8H5F3O2	2-(trifluoromethyl)benzoic acid	433-97-6	25.00	1.3173	2
12492	C8H3F5O2	2,3,4,5,6-pentafluorphenylacetic acid	653-21-4	25.00	1.5096	2	12663	C8H5F3O2	3-(trifluoromethyl)benzoic acid	454-92-2	25.00	1.3173	2
12493	C8H3F5O3	pentafluorophenoxyacetic acid	14892-14-9	25.00	1.5580	2	12664	C8H5F3O2	a,a,a-trifluoro-p-toluic acid	455-24-3	25.00	1.3173	2
12497	C8H3F15O	2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluor*	307-30-2	25.00	1.6465	2	12665	C8H5F3O2S	2-thenoyltrifluoroacetone	326-91-0	25.00	1.4373	2
12498	C8H3NO5	3-nitrophthalic anhydride	641-70-3	25.00	1.5901	2	12666	C8H5F3O3	3-methoxy-2,4,5-trifluorobenzoic acid	11281-65-5	25.00	1.4251	2
12499	C8H3NO5	4-nitrophthalic anhydride	5466-84-2	25.00	1.5901	2	12668	C8H5F3O3	3-(trifluoromethoxy)benzoic acid	1014-81-9	25.00	1.4251	2
12500	C8H3N3O2	4-nitrophthalonitrile	31643-49-9	25.00	1.5308	2	12669	C8H5F3O3	4-(trifluoromethoxy)benzoic acid	330-12-1	25.00	1.4251	2
12502	C8H4BrF3O	4'-bromo-2,2,2-trifluoroacetophenone	16184-89-7	25.00	1.6620	1	12670	C8H5F3O3	5-(trifluoromethoxy)salicylaldehyde	93249-62-8	25.00	1.4251	2
12503	C8H4BrNO2	5-bromoindole-2,3-dione	87-48-9	25.00	1.7527	2	12671	C8H5F3OS	4-(trifluoromethylthio)benzaldehyde	4021-50-5	25.00	1.3841	2
12504	C8H4BrN3O2	6-bromo-7-nitroquinoxaline	113269-09-3	25.00	1.8482	2	12673	C8H5F5O	(±)-a-methyl-2,3,4,5,6-pentafluorobenzyl alc*	75853-08-6	25.00	1.3848	2
12513	C8H4ClNO	3-cyanobenzoyl chloride	1711-11-1	25.00	1.3720	2	12685	C8H5NO	3-formylbenzonitrile	24964-64-5	25.00	1.2142	2
12514	C8H4ClNO	4-cyanobenzoyl chloride	6068-72-0	25.00	1.3720	2	12686	C8H5NO	4-formylbenzonitrile	105-07-7	25.00	1.2142	2
12515	C8H4ClNO2	5-chloroisatin	17630-76-1	25.00	1.3250	2	12687	C8H5NO	alpha-oxobenzeneacetonitrile	613-90-1	25.00	1.2142	2
12516	C8H4ClNO2	4-isocyanatobenzoyl chloride	3729-21-3	25.00	1.3170	1	12689	C8H5NO2	3-cyanobenzoic acid	1877-72-1	25.00	1.2950	2
12518	C8H4ClN3O2	6-chloro-7-nitroquinoxaline	109541-21-1	25.00	1.5549	2	12690	C8H5NO2	1H-indole-2,3-dione	91-56-5	25.00	1.2950	2
12519	C8H4Cl2N2	2,3-dichloroquinoxaline	2213-63-0	25.00	1.4580	2	12691	C8H5NO2	1H-isoindole-1,3(2H)-dione	85-41-6	25.00	1.2950	2
12520	C8H4Cl2O2	isophthaloyl chloride	99-63-8	20.00	1.3940	1	12692	C8H5NO2	benzoyl isocyanate	4461-33-0	25.00	1.1710	1
12522	C8H4Cl2O2	1,4-benzenedicarbonyl dichloride	100-20-9	18.50	1.3985	2	12693	C8H5NO2	4-cyanobenzoic acid	619-65-8	25.00	1.2950	2
12523	C8H4Cl2O4	3,5-dichloro-1,2-benzenedicarboxylic acid	25641-98-9	25.00	1.5618	2	12694	C8H5NO2	piperonylonitrile	4431-09-4	25.00	1.2950	2
12524	C8H4Cl2O4	2,5-dichloro-1,4-benzenedicarboxylic acid	13799-90-1	25.00	1.5618	2	12695	C8H5NO3	N-hydroxyphthalimide	524-38-9	25.00	1.3682	2
12528	C8H4Cl4N2	5-chloro-2-(trichloromethyl)benzimidazole	3584-66-5	25.00	1.5796	2	12696	C8H5NO3	isatoic anhydride	118-48-9	25.00	1.3682	2
12529	C8H4Cl6	1,4-bis(trichloromethyl)benzene	68-36-0	25.00	1.5897	2	12698	C8H5NO3	2-nitrobenzofuran	33094-66-5	25.00	1.3682	2
12533	C8H4F2O2	1,2-benzenedicarbonyl difluoride	445-69-2	50.00	1.3066	1	12699	C8H5NO4	6-nitrophthalide	610-93-5	25.00	1.4348	2
12536	C8H4F3N	a,a,a-trifluoro-p-tolunitrile	455-18-5	25.00	1.2780	1	12700	C8H5NO5	6-nitropiperonal	712-97-0	25.00	1.4957	2
12539	C8H4F3NO	4-(trifluoromethyl)phenyl isocyanate	1548-13-6	25.00	1.3100	1	12701	C8H5NO6	5-nitroisophthalic acid	618-88-2	25.00	1.5515	2
12548	C8H4F3NO4	4-nitrophenyl trifluoroacetate	658-78-6	25.00	1.5675	2	12702	C8H5NO6	3-nitrophthalic acid	603-11-2	25.00	1.5515	2
12549	C8H4F3NS	4-(trifluoromethyl)phenyl isothiocyanate	1645-65-4	25.00	1.3395	2	12703	C8H5NO6	4-nitrophthalic acid	610-27-5	25.00	1.5515	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
12704	C8H5NO6	nitroterephthalic acid	610-29-7	25.00	1.5515	2	12835	C8H6FN	6-fluoroindole	399-51-9	23.33	1.1203	2
12706	C8H5N3	4-aminophthalonitrile	56765-79-8	25.00	1.2910	2	12836	C8H6FN	5-fluoro-2-methylbenzonitrile	77532-79-7	23.33	1.1203	2
12713	C8H6	ethynylbenzene	536-74-3	-44.85	1.1541	2	12838	C8H6FN	5-fluoroindole	399-52-0	23.33	1.1203	2
12714	C8H6BrClO	2-bromo-1-(4-chlorophenyl)ethanone	536-38-9	25.00	1.6070	2	12850	C8H6F2O2	3,5-difluorophenylacetic acid	105184-38-1	25.00	1.3010	2
12716	C8H6BrFO	3'-bromo-4'-fluoroacetophenone	1007-15-4	25.00	1.5728	2	12851	C8H6F2O2	3,4-difluorophenylacetic acid	658-93-5	25.00	1.3010	2
12717	C8H6BrFO	2-bromo-4'-fluoroacetophenone	403-29-2	25.00	1.5728	2	12852	C8H6F2O2	2,4-difluorophenylacetic acid	81228-09-3	25.00	1.3010	2
12718	C8H6BrF3	2-(trifluoromethyl)benzyl bromide	395-44-8	25.00	1.5710	1	12853	C8H6F2O2	2,5-difluorophenylacetic acid	85068-27-5	25.00	1.3010	2
12720	C8H6BrF3	4-(trifluoromethyl)benzyl bromide	402-49-3	25.00	1.5460	1	12854	C8H6F2O2	2,6-difluorophenylacetic acid	85068-28-6	25.00	1.3010	2
12724	C8H6BrN	alpha-bromobenzeneacetonitrile	5798-79-8	29.00	1.5390	1	12855	C8H6F3NO	N-trifluoroacetylaniline	404-24-0	25.00	1.3305	2
12725	C8H6BrN	5-bromoindole	10075-50-0	27.00	1.5510	2	12856	C8H6F3NO	4-(trifluoromethyl)benzamide	1891-90-3	25.00	1.3305	2
12727	C8H6BrN	4-bromo-2-methylbenzonitrile	67832-11-5	27.00	1.5510	2	12857	C8H6F3NO3	4-methoxy-3-nitrobenzotrifluoride	394-25-2	25.00	1.4417	2
12728	C8H6BrN	4-bromophenylacetonitrile	16532-79-9	27.00	1.5510	2	12858	C8H6F3N3O4S2	trifluoromethylthiazide	148-56-1	25.00	1.6578	2
12729	C8H6BrN	3-bromophenylacetonitrile	31938-07-5	27.00	1.5510	2	12860	C8H6F4	2,3,5,6-tetrafluoro-p-xylene	703-87-7	25.00	1.2529	2
12730	C8H6BrN	a-bromo-p-tolunitrile	17201-43-3	27.00	1.5510	2	12864	C8H6N2	cinnoline	253-66-7	34.00	1.1717	2
12731	C8H6BrN	a-bromo-o-tolunitrile	22115-41-9	27.00	1.5510	2	12865	C8H6N2	1,5-naphthyridine	254-79-5	20.00	1.2100	1
12732	C8H6BrN	a-bromo-m-tolunitrile	28188-41-2	27.00	1.5510	2	12866	C8H6N2	phthalazine	253-52-1	34.00	1.1717	2
12734	C8H6BrNO3	4'-bromo-3'-nitroacetophenone	18640-58-9	25.00	1.6996	2	12867	C8H6N2	quinazoline	253-82-7	34.00	1.1717	2
12735	C8H6BrNO3	a-bromo-3'-nitroacetophenone	2227-64-7	25.00	1.6996	2	12868	C8H6N2	quinoxaline	91-19-0	48.00	1.1334	1
12736	C8H6BrNO3	2-bromo-4'-nitroacetophenone	99-81-0	25.00	1.6996	2	12869	C8H6N2O	4-hydroxyquinazoline	491-36-1	25.00	1.2518	2
12737	C8H6BrNO4	4-bromomethyl-3-nitrobenzoic acid	55715-03-2	25.00	1.7429	2	12870	C8H6N2O	phthalazone	119-39-1	25.00	1.2518	2
12738	C8H6BrNO4	4-nitrophenyl bromoacetate	19199-82-7	25.00	1.7429	2	12875	C8H6N2OS	5-phenyl-1,3,4-oxadiazole-2-thiol	3004-42-0	25.00	1.3469	2
12739	C8H6Br2O	2-bromo-1-(4-bromophenyl)ethanone	99-73-0	25.00	1.8786	2	12876	C8H6N2OS2	CGA 245704	135158-54-2	25.00	1.4220	2
12740	C8H6Br2O	1-(3,5-dibromophenyl)ethanone	14401-73-1	25.00	1.8786	2	12877	C8H6N2O2	2-methyl-5-nitrobenzonitrile	939-83-3	25.00	1.3251	2
12741	C8H6Br2O	2,2-dibromo-1-phenylethanone	13665-04-8	25.00	1.8786	2	12878	C8H6N2O2	2-nitrobenzeneacetonitrile	610-66-2	25.00	1.3251	2
12742	C8H6Br2O3	methyl 3,5-dibromo-2-hydroxybenzoate	21702-79-4	25.00	1.9470	2	12879	C8H6N2O2	3-nitrobenzeneacetonitrile	621-50-1	25.00	1.3251	2
12743	C8H6Br2O3	2,3-dibromo-4-hydroxy-5-methoxybenzaldehyde	2973-75-3	25.00	1.9470	2	12880	C8H6N2O2	4-nitrobenzeneacetonitrile	555-21-5	25.00	1.3251	2
12744	C8H6Br2O3	methyl 3,5-dibromo-4-hydroxybenzoate	41727-47-3	25.00	1.9470	2	12881	C8H6N2O2	N-aminophthalimide	1875-48-5	25.00	1.3251	2
12745	C8H6Br4	1,2,3,4-tetrabromo-5,6-dimethylbenzene	2810-69-7	25.00	2.3169	2	12882	C8H6N2O2	3-aminophthalimide	2518-24-3	25.00	1.3251	2
12746	C8H6Br4	a,a,a',a'-tetrabromo-o-xylene	13209-15-9	25.00	2.3169	2	12883	C8H6N2O2	4-aminophthalimide	3676-85-5	25.00	1.3251	2
12747	C8H6Br4	a,a,a',a'-tetrabromo-m-xylene	36323-28-1	25.00	2.3169	2	12884	C8H6N2O2	2,3-dihydroxyquinoxaline	15804-19-0	25.00	1.3251	2
12748	C8H6Br4	tetrabromo-p-xylene	23488-38-2	25.00	2.3169	2	12885	C8H6N2O2	1H-benzimidazole-5-carboxylic acid	15788-16-6	25.00	1.3251	2
12749	C8H6ClFO	2-chloro-4'-fluoroacetophenone	456-04-2	25.00	1.2752	2	12886	C8H6N2O2	4-methyl-2-nitrobenzonitrile	26830-95-5	25.00	1.3251	2
12751	C8H6ClFO2	2-chloro-4-fluorophenylacetic acid	177985-32-9	25.00	1.3379	2	12887	C8H6N2O2	4-nitroindole	4769-97-5	25.00	1.3251	2
12752	C8H6ClFO2	2-chloro-6-fluorophenylacetic acid	37777-76-7	25.00	1.3379	2	12888	C8H6N2O2	5-nitroindole	6146-52-7	25.00	1.3251	2
12759	C8H6ClN	2-(chloromethyl)benzonitrile	612-13-5	24.33	1.2048	2	12889	C8H6N2O2	7-nitroindole	6960-42-5	25.00	1.3251	2
12760	C8H6ClN	5-chloroindole	17422-32-1	24.33	1.2048	2	12890	C8H6N2O2	phthalhydrazide	1445-69-8	25.00	1.3251	2
12761	C8H6ClN	6-chloroindole	17422-33-2	24.33	1.2048	2	12891	C8H6N2O2	quindoxin	2423-66-7	25.00	1.3251	2
12763	C8H6ClN	7-chloroindole	53924-05-3	24.33	1.2048	2	12892	C8H6N2O2	2,4(1H,3H)-quinazolinedione	86-96-4	25.00	1.3251	2
12764	C8H6ClN	2-chloro-6-methylbenzonitrile	6575-09-3	24.33	1.2048	2	12894	C8H6N2O3	4-methyl-3-nitrophenyl isocyanate	13471-69-7	25.00	1.3919	2
12765	C8H6ClN	(4-chlorophenyl)acetonitrile	140-53-4	24.33	1.2048	2	12895	C8H6N2O3	2-methyl-3-nitrophenyl isocyanate	23695-15-0	25.00	1.3919	2
12768	C8H6ClNO	5-chloro-2-methylbenzoxazole	19219-99-9	25.00	1.2191	2	12896	C8H6N2O3	2-methyl-4-nitrophenyl isocyanate	56309-59-2	25.00	1.3919	2
12770	C8H6ClNO	4-(chloromethyl)phenyl isocyanate	29173-65-7	25.00	1.2160	1	12901	C8H6N2O6	2,4-dinitrophenyl acetate	4232-27-3	25.00	1.5614	2
12776	C8H6ClNO	3-chlorophenoxyacetonitrile	43111-32-6	25.00	1.2191	2	12902	C8H6N2O6	2,4-dinitrophenylacetic acid	643-43-6	25.00	1.5614	2
12777	C8H6ClNOS	7-chloro-2H-1,4-benzothiazin-3(4H)-one	5333-05-1	25.00	1.3745	2	12903	C8H6N2O6	3,5-dinitro-2-toluic acid	28169-46-2	25.00	1.5614	2
12778	C8H6ClNO2	a-chloro-p-nitrostyrene	10140-97-3	25.00	1.3568	2	12904	C8H6N2O6	methyl 3,5-dinitrobenzoate	2702-58-1	25.00	1.5614	2
12779	C8H6ClNO2S	4-chlorophenylsulfonylacetonitrile	1851-09-8	25.00	1.4294	2	12905	C8H6N2O6	2,5-dinitro-3-methylbenzoic acid	70343-15-6	25.00	1.5614	2
12780	C8H6ClNO3	4'-chloro-3'-nitroacetophenone	5465-65-6	25.00	1.4162	2	12906	C8H6N2S	1-cyanothioformanilide	4955-82-2	25.00	1.2803	2
12785	C8H6ClNO4	methyl 4-chloro-3-nitrobenzoate	14719-83-6	18.00	1.5220	1	12907	C8H6N2S2	2,3-quinoxalinedithiol	1199-03-7	25.00	1.3656	2
12786	C8H6ClNO4	methyl 5-chloro-2-nitrobenzoate	51282-49-6	18.00	1.4530	1	12908	C8H6N2S3	5-mercapto-3-phenyl-2H-1,3,4-thiadiazole-2-t*	17654-88-5	25.00	1.4341	2
12787	C8H6ClNO4	4-nitrobenzyl chloroformate	4457-32-3	18.00	1.4875	2	12910	C8H6N4O4S	nifurthiazole	3570-75-0	25.00	1.6125	2
12788	C8H6ClNO4	2-chloro-5-nitrobenzoic acid methyl ester	6307-82-0	18.00	1.4875	2	12911	C8H6N4O5	nitrofurantoin	67-20-9	25.00	1.6123	2
12793	C8H6ClNS2	N-chloromethylbenzothiazole-2-thione	41526-42-5	25.00	1.3899	2	12913	C8H6N4O8	alloxantin	76-24-4	25.00	1.7389	2
12795	C8H6Cl2	2,6-dichlorostyrene	6607-45-0	22.14	1.2500	2	12916	C8H6OS	benzo[b]thiophene-4-ol	3610-02-4	25.00	1.2130	2
12796	C8H6Cl2	(2,2-dichlorovinyl)benzene	698-88-4	20.00	1.2531	1	12917	C8H6O2	1,3-benzenedicarboxaldehyde	626-19-7	56.50	1.1936	2
12797	C8H6Cl2	1,2-dichloro-3-vinylbenzene	2123-28-6	25.00	1.2640	1	12918	C8H6O2	1,4-benzenedicarboxaldehyde	623-27-8	116.00	1.3413	2
12798	C8H6Cl2	1,2-dichloro-4-vinylbenzene	2039-83-0	20.00	1.2560	1	12919	C8H6O2	2(3H)-benzofuranone	553-86-6	14.00	1.2236	1
12799	C8H6Cl2	1,3-dichloro-2-vinylbenzene	28469-92-3	20.00	1.2631	1	12920	C8H6O2	3(2H)-benzofuranone	7169-34-8	56.50	1.1936	2
12800	C8H6Cl2	1,3-dichloro-5-vinylbenzene	2155-42-2	25.00	1.2250	1	12921	C8H6O2	1(3H)-isobenzofuranone	87-41-2	99.00	1.1636	1
12801	C8H6Cl2	2,4-dichloro-1-vinylbenzene	2123-27-5	25.00	1.2430	1	12922	C8H6O2	phenylglyoxal hydrate	1075-06-5	56.50	1.1936	2
12804	C8H6Cl2O	2-chloro-1-(4-chlorophenyl)ethanone	937-20-2	24.00	1.2968	2	12923	C8H6O2	1,2-phthalic dicarboxaldehyde	643-79-8	56.50	1.1936	2
12805	C8H6Cl2O	1-(2,4-dichlorophenyl)ethanone	2234-16-4	24.00	1.2968	2	12925	C8H6O2S	thianaphthene-1,1-dioxide	825-44-5	25.00	1.2840	2
12807	C8H6Cl2O	1-(3,4-dichlorophenyl)ethanone	2642-63-9	24.00	1.2968	2	12927	C8H6O3	1,3-benzodioxole-5-carboxaldehyde	120-57-0	25.00	1.3580	2
12811	C8H6Cl2O	4-(chloromethyl)benzoyl chloride	876-08-4	24.00	1.2968	2	12928	C8H6O3	2-formylbenzoic acid	119-67-5	97.00	1.6365	2
12815	C8H6Cl2O2	3',5'-dichloro-2'-hydroxyacetophenone	3321-92-4	25.00	1.3377	2	12929	C8H6O3	alpha-oxobenzeneacetic acid	611-73-4	25.00	1.3580	2
12816	C8H6Cl2O2	2,4-dichlorophenylacetic acid	19719-28-9	25.00	1.3377	2	12930	C8H6O3	3-carboxybenzaldehyde	619-21-6	25.00	1.3580	2
12817	C8H6Cl2O2	3,4-dichlorophenylacetic acid	5807-30-7	25.00	1.3377	2	12931	C8H6O3	2,5-dihydroxyphenylacetic acid g-lactone	2688-48-4	25.00	1.3580	2
12818	C8H6Cl2O2	2,6-dichlorophenylacetic acid	6575-24-2	25.00	1.3377	2	12932	C8H6O3	4-formylbenzoic acid	619-66-9	247.00	1.7115	2
12819	C8H6Cl2O2	methyl 2,3-dichlorobenzoate	2905-54-6	25.00	1.3600	1	12933	C8H6O3	2,3-(methylenedioxy)benzaldehyde	7797-83-3	25.00	1.3120	1
12820	C8H6Cl2O3	3,6-dichloro-2-methoxybenzoic acid	1918-00-9	25.00	1.5700	1	12934	C8H6O4	isophthalic acid	121-91-5	20.00	1.5070	1
12821	C8H6Cl2O3	(2,4-dichlorophenoxy)acetic acid	94-75-7	25.00	1.4365	2	12935	C8H6O4	phthalic acid	88-99-3	20.00	1.5760	1
12822	C8H6Cl2O3	2,3-dichlorophenoxyacetic acid	2976-74-1	25.00	1.4365	2	12936	C8H6O4	terephthalic acid	100-21-0	25.00	49.5326	1
12823	C8H6Cl2O3	3,4-dichlorophenoxyacetic acid	588-22-7	25.00	1.4365	2	12937	C8H6O4	1,3-benzodioxole-5-carboxylic acid	94-53-1	25.00	1.3279	2
12824	C8H6Cl2O4	5,6-dichlorovanillic acid	108544-97-4	25.00	1.4862	2	12938	C8H6O4	3-formyl-4-hydroxybenzoic acid	584-87-2	25.00	1.3279	2
12825	C8H6Cl3NO	2,2,2-trichloro-N-phenylacetamide	2563-97-5	25.00	1.4535	2	12939	C8H6O4	3-hydroxy-p-phthalaldehydic acid	619-12-5	25.00	1.3279	2
12827	C8H6Cl4	1,2,3,4-tetrachloro-5,6-dimethylbenzene	877-08-7	25.00	1.6545	2	12940	C8H6O4	3-formylsalicylic acid	610-04-8	25.00	1.3279	2
12828	C8H6Cl4	1,2,3,5-tetrachloro-4,6-dimethylbenzene	877-09-8	25.00	1.7030	1	12941	C8H6O4	5-formylsalicylic acid	616-76-2	25.00	1.3279	2
12829	C8H6Cl4	a,a,a',a'-tetrachloro-o-xylene	25641-99-0	25.00	1.6545	2	12942	C8H6O5	4-hydroxy-1,3-benzenedicarboxylic acid	636-46-4	25.00	1.3933	2
12830	C8H6Cl4	1,2,4,5-tetrachloro-3,6-dimethylbenzene	877-10-1	25.00	1.6545	2	12943	C8H6O5	5-hydroxyisophthalic acid	618-83-7	25.00	1.3933	2
12833	C8H6FN	4-fluorobenzeneacetonitrile	459-22-3	20.00	1.1390	1	12944	C8H6O5	4-hydroxyphthalic acid	610-35-5	25.00	1.3933	2
12834	C8H6FN	4-fluoroindole	387-43-9	23.33	1.1203	2	12947	C8H6S	benzothiophene	95-15-8	31.35	1.4091	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
12949	C8H6S2	2,2'-bithiophene	492-97-7	25.00	1.2429	2	13130	C8H7NO	(R)-(+)-mandelonitrile	10020-96-9	25.00	1.1170	1
12963	C8H7BrFNO	4'-bromo-2'-fluoroacetanilide	326-66-9	25.00	1.5813	2	13132	C8H7NO	6-methylbenzoxazole	10531-80-3	23.00	1.0936	2
12964	C8H7BrO	alpha-bromoacetophenone	70-11-1	20.00	1.6470	1	13133	C8H7NO	5-methylbenzoxazole	10531-78-9	23.00	1.0936	2
12966	C8H7BrO	1-(4-bromophenyl)ethanone	99-90-1	25.00	1.6470	1	13137	C8H7NOS	2H-1,4-benzothiazin-3(4H)-one	5325-20-2	24.17	1.1903	2
12969	C8H7BrO2	4-bromobenzeneacetic acid	1878-68-8	25.00	1.6105	2	13140	C8H7NOS	3-methyl-2(3H)-benzoxazolethione	13673-63-7	24.17	1.1903	2
12970	C8H7BrO2	methyl 3-bromobenzoate	618-89-3	25.00	1.6105	2	13147	C8H7NO2	trans-(2-nitrovinyl)benzene	5153-67-3	26.75	1.0831	2
12971	C8H7BrO2	methyl 4-bromobenzoate	619-42-1	25.00	1.6890	1	13148	C8H7NO2	alpha-oxobenzeneacetaldehyde aldoxime	532-54-7	26.75	1.0831	2
12972	C8H7BrO2	phenyl bromoacetate	620-72-4	25.00	1.6105	2	13150	C8H7NO2	1-vinyl-4-nitrobenzene	100-13-0	26.75	1.0831	2
12973	C8H7BrO2	5-bromo-2-anisaldehyde	25016-01-7	25.00	1.6105	2	13151	C8H7NO2	4-hydroxy-3-methoxybenzonitrile	4221-08-3	26.75	1.0831	2
12974	C8H7BrO2	3-bromo-4-methoxybenzaldehyde	34841-06-0	25.00	1.6105	2	13154	C8H7NO2	3-methyl-2-benzoxazolinone	21892-80-8	26.75	1.0831	2
12975	C8H7BrO2	2-bromophenylacetic acid	18698-97-0	25.00	1.6105	2	13155	C8H7NO2	3-(3-pyridyl)acrylic acid	1126-74-5	26.75	1.0831	2
12976	C8H7BrO2	3-bromophenylacetic acid	1878-67-7	25.00	1.6105	2	13157	C8H7NO2	2-(4-pyridyl)malondialdehyde	51076-46-1	26.75	1.0831	2
12977	C8H7BrO2	a-bromo-p-toluic acid	6232-88-8	25.00	1.6105	2	13158	C8H7NO2	(2-nitroethenyl)benzene	102-96-5	26.75	1.0831	2
12979	C8H7BrO3	4-bromo-alpha-hydroxybenzeneacetic acid, (±)	7021-04-7	25.00	1.6062	2	13159	C8H7NO2S	3-hydroxymethyl-2-benzothiazolinone	72679-97-1	25.00	1.3113	2
12980	C8H7BrO3	5-bromo-2-hydroxy-3-methoxybenzaldehyde	5034-74-2	25.00	1.6062	2	13160	C8H7NO2S	4-methylsulphonyl benzonitrile	22821-76-7	25.00	1.3113	2
12981	C8H7BrO3	4-bromomandelic acid	6940-50-7	25.00	1.6062	2	13161	C8H7NO2S	(phenylsulfonyl)acetonitrile	7605-28-9	25.00	1.3113	2
12982	C8H7BrO3	p-bromophenoxyacetic acid	1878-91-7	25.00	1.6062	2	13162	C8H7NO2S	p-toluenesulfonyl cyanide	19158-51-1	25.00	1.3113	2
12983	C8H7BrO3	5-bromovanillin	2973-76-4	25.00	1.6062	2	13163	C8H7NO3	4-(aminocarbonyl)benzoic acid	6051-43-0	25.00	1.2878	2
12992	C8H7ClFNO	2'-chloro-4'-fluoroacetanilide	399-35-9	25.00	1.3020	2	13165	C8H7NO3	1-(2-nitrophenyl)ethanone	577-59-3	25.00	1.2370	1
12993	C8H7ClFNO	4'-chloro-2'-fluoroacetanilide	59280-70-5	25.00	1.3020	2	13166	C8H7NO3	1-(3-nitrophenyl)ethanone	121-89-1	25.00	1.2878	2
12994	C8H7ClN2	2-chloromethylbenzimidazole	4857-04-9	25.00	1.2542	2	13167	C8H7NO3	1-(4-nitrophenyl)ethanone	100-19-6	25.00	1.2878	2
12997	C8H7ClN2O2S	diazoxide	364-98-7	25.00	1.4450	2	13168	C8H7NO3	2-nitro-1-phenylethanone	614-21-1	25.00	1.2878	2
13000	C8H7ClO	alpha-chloroacetophenone	532-27-4	15.00	1.3240	1	13174	C8H7NO4	2-amino-1,3-benzenedicarboxylic acid	39622-79-2	25.00	1.3533	2
13010	C8H7ClO2	o-chlorobenzeneacetic acid	2444-36-2	25.82	1.2530	2	13175	C8H7NO4	5-amino-1,3-benzenedicarboxylic acid	99-31-0	25.00	1.3533	2
13011	C8H7ClO2	m-chlorobenzeneacetic acid	1878-65-5	25.82	1.2530	2	13177	C8H7NO4	methyl 3-nitrobenzoate	618-95-1	25.00	1.3533	2
13012	C8H7ClO2	p-chlorobenzeneacetic acid	1878-66-6	25.82	1.2530	2	13178	C8H7NO4	o-nitrobenzeneacetic acid	3740-52-1	25.00	1.3533	2
13015	C8H7ClO2	methyl 4-chlorobenzoate	1126-46-1	20.00	1.3820	1	13179	C8H7NO4	m-nitrobenzeneacetic acid	1877-73-2	25.00	1.3533	2
13016	C8H7ClO2	phenyl chloroacetate	620-73-5	44.00	1.2202	1	13180	C8H7NO4	p-nitrobenzeneacetic acid	104-03-0	25.00	1.3533	2
13017	C8H7ClO2	5'-chloro-2'-hydroxyacetophenone	1450-74-4	25.82	1.2530	2	13181	C8H7NO4	2-nitrophenyl acetate	610-69-5	25.00	1.3533	2
13025	C8H7ClO2S	(4-chlorophenylthio)acetic acid	3405-88-7	25.00	1.3409	2	13182	C8H7NO4	2-aminoterephthalic acid	10312-55-7	25.00	1.3533	2
13026	C8H7ClO3	3-chloro-4-hydroxy-5-methoxybenzaldehyde	19463-48-0	25.00	1.3216	2	13183	C8H7NO4	4-hydroxy-3-nitroacetophenone	6322-56-1	25.00	1.3533	2
13027	C8H7ClO3	(4-chlorophenoxy)acetic acid	122-88-3	25.00	1.3216	2	13184	C8H7NO4	methyl 4-nitrobenzoate	619-50-1	25.00	1.3533	2
13028	C8H7ClO3	2-chlorophenoxyacetic acid	614-61-9	25.00	1.3216	2	13185	C8H7NO4	2-methyl-6-nitrobenzoic acid	13506-76-8	25.00	1.3533	2
13029	C8H7ClO3	3-chlorophenoxyacetic acid	588-32-9	25.00	1.3216	2	13186	C8H7NO4	2-methyl-3-nitrobenzoic acid	1975-50-4	25.00	1.3533	2
13030	C8H7ClO3	methyl 5-chloro-2-hydroxybenzoate	4068-78-4	25.00	1.3216	2	13187	C8H7NO4	2-methyl-5-nitrobenzoic acid	1975-52-6	25.00	1.3533	2
13031	C8H7ClO3	4-chloro-o-anisic acid	57479-70-6	25.00	1.3216	2	13188	C8H7NO4	3-methyl-4-nitrobenzoic acid	3113-71-1	25.00	1.3533	2
13032	C8H7ClO3	2-chloromandelic acid	10421-85-9	25.00	1.3216	2	13189	C8H7NO4	3-methyl-2-nitrobenzoic acid	5437-38-7	25.00	1.3533	2
13033	C8H7ClO3	4-chloromandelic acid	492-86-4	25.00	1.3216	2	13190	C8H7NO4	4-methyl-3-nitrobenzoic acid	96-98-0	25.00	1.3533	2
13034	C8H7ClO3	(R)-(-)-2-chloromandelic acid	52950-18-2	25.00	1.3216	2	13191	C8H7NO4	4-nitrophenyl acetate	830-03-5	25.00	1.3533	2
13035	C8H7ClO3	5-chloro-2-methoxybenzoic acid	3438-16-2	25.00	1.3216	2	13193	C8H7NO5	4-hydroxy-3-nitrophenylacetic acid	10463-20-4	25.00	1.4135	2
13038	C8H7ClO3S	4-acetylbenzenesulfonyl chloride	1788-10-9	25.00	1.3949	2	13194	C8H7NO5	5-methoxy-2-nitrobenzoic acid	1882-69-5	25.00	1.4135	2
13039	C8H7ClO4	5-chlorovanillic acid	62936-23-6	25.00	1.3800	2	13195	C8H7NO5	3-methoxy-2-nitrobenzoic acid	4920-80-3	25.00	1.4135	2
13040	C8H7ClO4S	2-chloro-4-methylsulphonylbenzoic acid	53250-83-2	25.00	1.4452	2	13196	C8H7NO5	3-methoxy-4-nitrobenzoic acid	5081-36-7	25.00	1.4135	2
13041	C8H7ClO4S	methyl 2-(chlorosulfonyl)benzoate	26638-43-7	25.00	1.4452	2	13197	C8H7NO5	4-methoxy-3-nitrobenzoic acid	89-41-8	25.00	1.4135	2
13042	C8H7Cl2NO	4-amino-3,5-dichloroacetophenone	37148-48-4	25.00	1.3478	2	13198	C8H7NO5	2-nitrophenoxyacetic acid	1878-87-1	25.00	1.4135	2
13043	C8H7Cl2NO	methyl-3,4-dichlorophenylcarbamate	1918-18-9	25.00	1.3478	2	13199	C8H7NO5	6-nitropiperonyl alcohol	15341-08-9	25.00	1.4135	2
13045	C8H7Cl2NO2	chloramben methyl	7286-84-2	25.00	1.4015	2	13200	C8H7NO5	5-nitrovanillin	6635-20-7	25.00	1.4135	2
13048	C8H7Cl3O	2,4,6-trichloro-3,5-dimethylphenol	6972-47-0	25.00	1.3721	2	13201	C8H7NO5	p-nitrophenoxyacetic acid	1798-11-4	25.00	1.4135	2
13049	C8H7Cl3O	a-(chloromethyl)-2,4-dichlorobenzyl alcohol	13692-14-3	25.00	1.3721	2	13203	C8H7NS	benzyl thiocyanate	3012-37-1	21.25	1.1297	2
13056	C8H7FN2O3	4'-fluoro-2'-nitroacetanilide	448-39-5	25.00	1.3918	2	13205	C8H7NS	4-(methylthio)benzonitrile	21382-98-9	21.25	1.1297	2
13059	C8H7FO	2-fluoro-1-phenylethanone	450-95-3	20.00	1.1520	1	13209	C8H7NS	p-tolyl isothiocyanate	622-59-3	21.25	1.1297	2
13065	C8H7FO2	4-fluorobenezeneacetic acid	405-50-5	25.00	1.1850	2	13210	C8H7NS2	3-methyl-2(3H)-benzothiazolethione	2254-94-6	25.00	1.2719	2
13067	C8H7FO2	2'-fluoro-4'-hydroxyacetophenone	98619-07-9	25.00	1.1850	2	13211	C8H7NS2	2-(methylthio)benzothiazole	615-22-5	25.00	1.2719	2
13068	C8H7FO2	4'-fluoro-2'-hydroxyacetophenone	1481-27-2	25.00	1.1850	2	13212	C8H7NS2	4-(methylthio)phenyl isothiocyanate	15863-41-9	25.00	1.2719	2
13069	C8H7FO2	5'-fluoro-2'-hydroxyacetophenone	394-32-1	25.00	1.1850	2	13215	C8H7N3	6-quinoxalinamine	6298-37-9	25.00	1.2108	2
13070	C8H7FO2	3-fluoro-4-methylbenzoic acid	350-28-7	25.00	1.1850	2	13216	C8H7N3	N-phenyl-N'-cyanoformamidine	59425-37-5	25.00	1.2108	2
13072	C8H7FO2	a-fluorophenylacetic acid	1578-63-8	25.00	1.1850	2	13217	C8H7N3	1,3-diiminoisoindoline	3468-11-9	25.00	1.2108	2
13073	C8H7FO2	3-fluorophenylacetic acid	331-25-9	25.00	1.1850	2	13218	C8H7N3O	4'-(1H-1,2,4-triazol-1-yl)phenol	68337-15-5	25.00	1.2841	2
13074	C8H7FO2	2-fluorophenylacetic acid	451-82-1	25.00	1.1850	2	13219	C8H7N3O2	5-amino-2,3-dihydro-1,4-phthalazinedione	521-31-3	25.00	1.3511	2
13076	C8H7FO3	3-fluoro-4-methoxybenzoic acid	403-20-3	25.00	1.2708	2	13220	C8H7N3O2	4-phenylurazole	15988-11-1	25.00	1.3511	2
13077	C8H7FO3	4-fluorophenoxyacetic acid	405-79-8	25.00	1.2708	2	13225	C8H7N3O5	furazolidone	67-45-8	25.00	1.5217	2
13081	C8H7F3N2O2	4-(trifluoromethoxy)benzamidoxime	56935-71-8	25.00	1.4065	2	13226	C8H7N3O5	2-methyl-3,5-dinitrobenzamide	148-01-6	25.00	1.5217	2
13089	C8H7F3O	4-(trifluoromethyl)benzyl alcohol	349-95-1	25.00	1.2860	1	13227	C8H7N3O6	1,4-dimethyl-2,3,5-trinitrobenzene	602-27-7	19.00	1.5900	1
13099	C8H7IO	1-(4-iodophenyl)ethanone	13329-40-3	25.00	1.7411	2	13228	C8H7N3O6	2,4-dimethyl-1,3,5-trinitrobenzene	632-92-8	19.00	1.6040	1
13100	C8H7IO	2-iodo-1-phenylethanone	4636-16-2	25.00	1.7411	2	13230	C8H7N3S	5-amino-3-phenyl-1,2,4-thiadiazole	17467-15-1	25.00	1.3084	2
13102	C8H7IO2	methyl 3-iodobenzoate	618-91-7	25.00	1.7835	2	13232	C8H7N5O8	N-ethyl-N,2,4,6-tetranitrobenzenamine	6052-13-7	25.00	1.7377	2
13103	C8H7IO2	methyl 4-iodobenzoate	619-44-3	10.00	2.0200	1	13237	C8H8	styrene	100-42-5	-180.00	1.0167	1
13104	C8H7IO2	3-iodo-4-methylbenzoic acid	82998-57-0	25.00	1.7835	2	13241	C8H8	cubane	277-10-1	23.75	0.9155	2
13105	C8H7IO3	4-iodophenoxyacetic acid	1878-94-0	25.00	1.8227	2	13244	C8H8BrClO	4-chlorophenyl 2-bromoethyl ether	2033-76-3	25.00	1.5262	2
13106	C8H7IO3	5-iodovanillin	5438-36-8	25.00	1.8227	2	13247	C8H8BrNO	N-(4-bromophenyl)acetamide	103-88-8	25.00	1.7170	1
13107	C8H7N	indole	120-72-9	25.00	1.1870	1	13250	C8H8BrNO2	4-nitrophenethyl bromide	5339-26-4	25.00	1.5652	2
13108	C8H7N	benzeneacetonitrile	140-29-4	-23.80	1.2274	2	13252	C8H8Br2	1,2-bis(bromomethyl)benzene	91-13-4	25.00	1.9880	1
13111	C8H7N	4-methylbenzonitrile	104-85-8	30.00	0.9762	1	13253	C8H8Br2	1,3-bis(bromomethyl)benzene	626-15-3	25.00	1.9590	1
13112	C8H7N	indolizine	274-40-8	21.88	1.0341	2	13254	C8H8Br2	1,4-bis(bromomethyl)benzene	623-24-5	25.00	2.0120	1
13116	C8H7NO	1,3-dihydro-2H-indol-2-one	59-48-3	23.00	1.0936	2	13256	C8H8Br2	1,5-dibromo-2,4-dimethylbenzene	615-87-2	22.50	1.9353	2
13117	C8H7NO	2,3-dihydro-1H-isoindol-1-one	480-91-1	23.00	1.0936	2	13257	C8H8Br2	(1,2-dibromoethyl)benzene	93-52-7	22.50	1.9353	2
13122	C8H7NO	4-methoxybenzonitrile	874-90-8	23.00	1.0936	2	13258	C8H8Br2	1,4-dibromo-2,5-dimethylbenzene	1074-24-4	22.50	1.9353	2
13126	C8H7NO	5-hydroxyindole	1953-54-4	23.00	1.0936	2	13259	C8H8Br2	1,2-dibromo-4,5-dimethylbenzene	24932-48-7	22.50	1.9353	2
13127	C8H7NO	4-hydroxyindole	2380-94-1	23.00	1.0936	2	13260	C8H8Br2	ethyl dibromobenzene	30812-87-4	22.50	1.9353	2
13129	C8H7NO	4-hydroxyphenylacetonitrile	14191-95-8	23.00	1.0936	2	13261	C8H8Br2O2	1,4-dibromo-2,5-dimethoxybenzene	2674-34-2	25.00	1.8203	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
13267	C8H8ClNO	N-(4-chlorophenyl)acetamide	539-03-7	22.00	1.3850	1	13395	C8H8O	3-methylbenzaldehyde	620-23-5	-22.15	1.2376	2
13268	C8H8ClNO	methylphenylcarbamic chloride	4285-42-1	25.00	1.2227	2	13399	C8H8O	2-vinylphenol	695-84-1	18.00	1.0609	1
13269	C8H8ClNO	2'-chloroacetanilide	533-17-5	25.00	1.2227	2	13401	C8H8O	phthalan	496-14-0	6.00	1.0979	1
13270	C8H8ClNO	3'-chloroacetanilide	588-07-8	25.00	1.2227	2	13402	C8H8O	(R)-(+)-styrene oxide	20780-53-4	25.00	1.0510	1
13272	C8H8ClNO2	methyl 2-amino-5-chlorobenzoate	5202-89-1	25.00	1.2860	2	13405	C8H8O	4-vinylphenol	2628-17-3	73.50	1.1006	2
13273	C8H8ClNO2	methyl 4-amino-3-chlorobenzoate	84228-44-4	25.00	1.2860	2	13410	C8H8OS	trans-4-(2-thienyl)-3-buten-2-one	33603-63-3	25.00	1.1510	1
13274	C8H8ClNO2	2-methyl-3-nitrobenzyl chloride	60468-54-4	25.00	1.2860	2	13412	C8H8O2	methyl benzoate	93-58-3	-12.40	1.3098	2
13275	C8H8ClNO2	4-methyl-3-nitrobenzyl chloride	84540-59-0	25.00	1.2860	2	13413	C8H8O2	o-toluic acid	118-90-1	103.70	1.2900	2
13277	C8H8ClNO3	4-amino-5-chloro-2-methoxybenzoic acid	7206-70-4	25.00	1.3446	2	13414	C8H8O2	p-toluic acid	99-94-5	126.85	1.2510	2
13278	C8H8ClNO3S	4-(acetylamino)benzenesulfonyl chloride	121-60-8	25.00	1.4119	2	13415	C8H8O2	benzeneacetic acid	103-82-2	6.00	1.2280	1
13281	C8H8Cl2	1,2-bis(chloromethyl)benzene	612-12-4	25.00	1.3930	1	13416	C8H8O2	benzyl formate	104-57-4	-3.15	1.3452	2
13282	C8H8Cl2	1,3-bis(chloromethyl)benzene	626-16-4	20.00	1.3020	1	13419	C8H8O2	2,3-dimethyl-2,5-cyclohexadiene-1,4-dione	526-86-3	47.58	1.1084	2
13283	C8H8Cl2	1,4-bis(chloromethyl)benzene	623-25-6	25.00	1.4170	1	13420	C8H8O2	2,6-dimethyl-2,5-cyclohexadiene-1,4-dione	527-61-7	28.00	1.0479	1
13286	C8H8Cl2	1,4-dichloro-2,5-dimethylbenzene	1124-05-6	21.25	1.2827	2	13421	C8H8O2	4-(2-furanyl)-3-buten-2-one	623-15-4	57.00	1.0496	1
13287	C8H8Cl2	1,5-dichloro-2,4-dimethylbenzene	2084-45-9	21.25	1.2827	2	13422	C8H8O2	(hydroxyacetyl)benzene	582-24-1	99.00	1.0963	1
13289	C8H8Cl2	(1,2-dichloroethyl)benzene	1074-11-9	15.00	1.2400	1	13424	C8H8O2	2-hydroxy-4-methylbenzaldehyde	698-27-1	47.58	1.1084	2
13290	C8H8Cl2	1,4-dichloro-2-ethylbenzene	54484-63-8	25.00	1.2390	1	13425	C8H8O2	2-hydroxy-5-methylbenzaldehyde	613-84-3	59.00	1.0913	1
13291	C8H8Cl2	1-(dichloromethyl)-4-methylbenzene	23063-36-7	21.25	1.2827	2	13426	C8H8O2	2-hydroxy-6-methylbenzaldehyde	18362-36-2	47.58	1.1084	2
13292	C8H8Cl2	ethyldichlorobenzene	1331-29-9	21.25	1.2827	2	13427	C8H8O2	1-(2-hydroxyphenyl)ethanone	118-93-4	5.00	1.3370	2
13293	C8H8Cl2	xylene chloride	28347-13-9	21.25	1.2827	2	13428	C8H8O2	1-(3-hydroxyphenyl)ethanone	121-71-1	109.00	1.0992	1
13295	C8H8Cl2O	2,4-dichloro-3,5-dimethylphenol	133-53-9	25.00	1.2947	2	13429	C8H8O2	1-(4-hydroxyphenyl)ethanone	99-93-4	20.00	1.2600	1
13296	C8H8Cl2O	2,6-dichloro-3,5-dimethylphenol	1943-54-0	25.00	1.2947	2	13430	C8H8O2	2-methoxybenzaldehyde	135-02-4	20.00	1.1326	1
13298	C8H8Cl2O	2,4-dichloro-1-ethoxybenzene	5392-86-9	25.00	1.2947	2	13433	C8H8O2	m-toluic acid	99-04-7	112.00	1.0540	1
13303	C8H8Cl2O2	chloroneb	2675-77-6	25.00	1.3165	2	13435	C8H8O2	2,5-dimethyl-p-benzoquinone	137-18-8	47.58	1.1084	2
13304	C8H8Cl2O2	2-(2,4-dichlorophenoxy)-ethanol	120-67-2	25.00	1.3165	2	13436	C8H8O2	4-hydroxy-3-methylbenzaldehyde	15174-69-3	47.58	1.1084	2
13306	C8H8Cl2O4	methyl 3,5-dichloro-4-hydroxybenzoate monohy*	3337-59-5	25.00	1.4187	2	13440	C8H8O2	phenoxyacetaldehyde	2120-70-9	47.58	1.1084	2
13308	C8H8Cl3N3O4S2	trichloromethiazide	133-67-5	25.00	1.6582	2	13442	C8H8O2S	phenyl vinyl sulfone	5535-48-8	25.00	1.2150	2
13309	C8H8Cl3O3PS	ronnel	299-84-3	32.00	1.4400	1	13445	C8H8O3	methyl salicylate	119-36-8	-8.00	1.4104	2
13310	C8H8FNO	4'-fluoroacetanilide	351-83-7	25.00	1.1655	2	13446	C8H8O3	vanillin	121-33-5	20.00	1.0560	1
13311	C8H8FNO	2'-fluoroacetanilide	399-31-5	25.00	1.1655	2	13448	C8H8O3	1,2-benzenediol monoacetate	2848-25-1	47.17	1.2172	2
13312	C8H8FNO	3'-fluoroacetanilide	351-28-0	25.00	1.1655	2	13449	C8H8O3	1,3-benzodioxole-5-methanol	495-76-1	47.17	1.2172	2
13314	C8H8FNO2	(S)-4-fluorophenylglycine	19883-57-9	25.00	1.2345	2	13450	C8H8O3	1-(2,4-dihydroxyphenyl)ethanone	89-84-9	141.00	1.1800	1
13315	C8H8FNO2	(R)-4-fluorophenylglycine	93939-74-3	25.00	1.2345	2	13451	C8H8O3	alpha-hydroxybenzeneacetic acid, (±)	611-72-3	20.00	1.2890	1
13321	C8H8F3NO	2-methoxy-5-(trifluoromethyl)aniline	349-65-5	25.00	1.2645	2	13452	C8H8O3	alpha-hydroxybenzeneacetic acid, (S)	17199-29-0	25.00	1.3410	1
13323	C8H8F3N3O4S2	hydroflumethiazide	135-09-1	25.00	1.5955	2	13453	C8H8O3	2-hydroxybenzeneacetic acid	614-75-5	47.17	1.2172	2
13328	C8H8INO	4'-iodoacetanilide	622-50-4	25.00	1.7396	2	13454	C8H8O3	3-hydroxybenzeneacetic acid	621-37-4	47.17	1.2172	2
13331	C8H8NOS	a-mercaptoacetanilide	4822-44-0	25.00	1.2126	2	13455	C8H8O3	4-hydroxybenzeneacetic acid	156-38-7	47.17	1.2172	2
13332	C8H8N2	4-aminobenzeneacetonitrile	3544-25-0	68.25	1.0605	2	13456	C8H8O3	3-hydroxy-4-methoxybenzaldehyde	621-59-0	25.00	1.1960	1
13333	C8H8N2	5-amino-2-methylbenzonitrile	50670-64-9	68.25	1.0605	2	13457	C8H8O3	3-hydroxy-5-methoxybenzaldehyde	57179-35-8	47.17	1.2172	2
13334	C8H8N2	1-methyl-1H-benzimidazole	1632-83-3	20.00	1.1254	1	13458	C8H8O3	2-hydroxy-3-methoxybenzaldehyde	148-53-8	47.17	1.2172	2
13335	C8H8N2	2-methyl-1H-benzimidazole	615-15-6	68.25	1.0605	2	13460	C8H8O3	2-hydroxy-3-methylbenzoic acid	83-40-9	47.17	1.2172	2
13336	C8H8N2	1-methyl-1H-indazole	13436-48-1	99.00	1.0315	1	13461	C8H8O3	2-hydroxy-4-methylbenzoic acid	50-85-1	47.17	1.2172	2
13337	C8H8N2	2-methyl-2H-indazole	4838-00-0	99.00	1.0450	1	13462	C8H8O3	2-hydroxy-5-methylbenzoic acid	89-56-5	47.17	1.2172	2
13338	C8H8N2	3-methyl-1H-indazole	3176-62-3	68.25	1.0605	2	13463	C8H8O3	3-hydroxy-5-methylbenzoic acid	585-81-9	47.17	1.2172	2
13339	C8H8N2	5-methyl-1H-indazole	1776-37-0	68.25	1.0605	2	13464	C8H8O3	2-methoxybenzoic acid	579-75-9	47.17	1.2172	2
13340	C8H8N2	methylphenylcyanamide	18773-77-8	55.00	1.0400	1	13465	C8H8O3	3-methoxybenzoic acid	586-38-9	47.17	1.2172	2
13341	C8H8N2	5-aminoindole	5192-03-0	68.25	1.0605	2	13466	C8H8O3	4-methoxybenzoic acid	100-09-4	47.17	1.2172	2
13342	C8H8N2	5-methylbenzimidazole	614-97-1	68.25	1.0605	2	13467	C8H8O3	methyl 2-furanacrylate	623-18-7	47.17	1.2172	2
13343	C8H8N2	N-phenylglycinonitrile	3009-97-0	68.25	1.0605	2	13468	C8H8O3	methyl 3-hydroxybenzoate	19438-10-9	100.00	1.1528	1
13344	C8H8N2O	3-cyano-4,6-dimethyl-2-hydroxypyridine	769-28-8	25.00	1.1781	2	13469	C8H8O3	methyl 4-hydroxybenzoate	99-76-3	47.17	1.2172	2
13345	C8H8N2O	1H-benzimidazole-2-methanol	4856-97-7	25.00	1.1781	2	13470	C8H8O3	phenoxyacetic acid	122-59-8	47.17	1.2172	2
13346	C8H8N2O	1-methyl-2-benzimidazolinone	1849-01-0	25.00	1.1781	2	13471	C8H8O3	4,5,6,7-tetrahydro-1,3-isobenzofurandione	2426-02-0	105.00	1.2000	1
13348	C8H8N2O	N-nitrosoindoline	7633-57-0	25.00	1.1781	2	13472	C8H8O3	2',5'-dihydroxyacetophenone	490-78-8	47.17	1.2172	2
13349	C8H8N2OS	2-amino-6-methoxybenzothiazole	1747-60-0	25.00	1.2752	2	13473	C8H8O3	3',5'-dihydroxyacetophenone	51863-60-6	47.17	1.2172	2
13350	C8H8N2OS	5-methoxy-2-mercaptobenzimidazole	37052-78-1	25.00	1.2752	2	13474	C8H8O3	2',6'-dihydroxyacetophenone	699-83-2	47.17	1.2172	2
13352	C8H8N2O2	1,2-benzenedicarboxamide	88-96-0	25.00	1.2495	2	13476	C8H8O3	4-hydroxy-2-methoxybenzaldehyde	18278-34-7	47.17	1.2172	2
13353	C8H8N2O2	ricinine	524-40-3	25.00	1.2495	2	13477	C8H8O3	2-hydroxy-4-methoxybenzaldehyde	673-22-3	47.17	1.2172	2
13354	C8H8N2O2	6-nitroindoline	19727-83-4	25.00	1.2495	2	13478	C8H8O3	3-hydroxy-4-methylbenzoic acid	586-30-1	47.17	1.2172	2
13361	C8H8N2O2	N-nitrosoacetanilide	938-81-8	25.00	1.2495	2	13479	C8H8O3	(R)-(-)-mandelic acid	611-71-2	47.17	1.2172	2
13362	C8H8N2O2S2	acetopyrrothine	87-11-6	25.00	1.4048	2	13480	C8H8O3	mandelic acid	90-64-2	25.00	1.3000	1
13363	C8H8N2O3	2-nitro-N-phenylacetamide	10151-95-8	15.00	1.4190	1	13482	C8H8O3	cis-1,2,3,6-tetrahydrophthalic anhydride	935-79-5	47.17	1.2172	2
13364	C8H8N2O3	N-(2-nitrophenyl)acetamide	552-32-9	15.00	1.4190	1	13483	C8H8O3	cis-1,2,3,6-tetrahydrophthalic anydride	85-43-8	25.00	1.3750	1
13365	C8H8N2O3	N-(3-nitrophenyl)acetamide	122-28-1	15.00	1.4190	2	13485	C8H8O3S	4-methylsulphonyl benzaldehyde	5398-77-6	25.00	1.2787	2
13366	C8H8N2O3	N-(4-nitrophenyl)acetamide	104-04-1	15.00	1.4190	2	13486	C8H8O3S	phenyl vinylsulfonate	1562-34-1	25.00	1.2787	2
13368	C8H8N2O3S	1-methylbenzimidazole-2-sulfonic acid	5533-38-0	25.00	1.3911	2	13487	C8H8O4	3-acetyl-6-methyl-2H-pyran-2,4(3H)-dione	520-45-6	25.00	1.2537	2
13369	C8H8N2O3S	1,2-benzisoxazole-3-methanesulfonamide	68291-97-4	25.00	1.3911	2	13488	C8H8O4	2,4-dihydroxy-6-methylbenzoic acid	480-64-8	25.00	1.2537	2
13373	C8H8N2O4S	ethyl 2-(formylamino)-4-thiazoleglyoxylate	64987-03-7	25.00	1.4429	2	13489	C8H8O4	2,6-dimethoxy-2,5-cyclohexadiene-1,4-dione	530-55-2	25.00	1.2537	2
13374	C8H8N2O4S3	2-(phenylsulfonylamino)-1,3,4-thiadiazole-5-*	3368-13-6	25.00	1.5444	2	13490	C8H8O4	fumigatin	484-89-9	25.00	1.2537	2
13375	C8H8N2O5	2-ethoxy-1,3-dinitrobenzene	13027-43-5	25.00	1.4313	2	13491	C8H8O4	2,5-hydroxybenzeneacetic acid	451-13-8	25.00	1.2537	2
13376	C8H8N2O5	2,4-dinitrophenetole	610-54-8	25.00	1.4313	2	13492	C8H8O4	4-hydroxy-3-methoxybenzoic acid	121-34-6	25.00	1.2537	2
13377	C8H8N2S	2-amino-4-methylbenzothiazole	1477-42-5	25.00	1.2101	2	13493	C8H8O4	1-(2,3,4-trihydroxyphenyl)ethanone	528-21-2	25.00	1.2537	2
13378	C8H8N2S	2-amino-6-methylbenzothiazole	2536-91-6	25.00	1.2101	2	13494	C8H8O4	5-acetoxymethyl-2-furaldehyde	10551-58-3	25.00	1.2537	2
13379	C8H8N2S	2-mercapto-5-methylbenzimidazole	27231-36-3	25.00	1.2101	2	13495	C8H8O4	2,6-dihydroxy-4-methylbenzoic acid	480-67-1	25.00	1.2537	2
13380	C8H8N2S	2-(methylmercapto)benzimidazole	7152-24-1	25.00	1.2101	2	13496	C8H8O4	3,4-dihydroxyphenylacetic acid	102-32-9	25.00	1.2537	2
13386	C8H8N4	3-amino-3-phenyl-1,2,4-triazole	4922-98-9	25.00	1.2451	2	13497	C8H8O4	DL-4-hydroxymandelic acid	7198-10-9	25.00	1.2537	2
13387	C8H8N4	hydralazine	86-54-4	25.00	1.2451	2	13498	C8H8O4	3-hydroxy-4-methoxybenzoic acid	645-08-9	25.00	1.2537	2
13388	C8H8N4O4	nifuradene	555-84-0	25.00	1.4835	2	13499	C8H8O4	4-methoxysalicylic acid	2237-36-7	25.00	1.2537	2
13391	C8H8O	acetophenone	98-86-2	19.66	1.2135	2	13500	C8H8O4	5-methoxysalicylic acid	2612-02-4	25.00	1.2537	2
13393	C8H8O	benzeneacetaldehyde	122-78-1	20.00	1.0272	1	13501	C8H8O4	3-methoxysalicylic acid	877-22-5	25.00	1.2537	2
13394	C8H8O	2-methylbenzaldehyde	529-20-4	-38.15	1.2736	2	13502	C8H8O4	methyl 3,5-dihydroxybenzoate	2150-44-9	25.00	1.2537	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
13503	C8H8O4	methyl 2,4-dihydroxybenzoate	2150-47-2	25.00	1.2537	2	13728	C8H9NO2	methyl 6-methylnicotinate	5470-70-2	19.47	1.1446	2
13504	C8H8O4	2',4',6'-trihydroxyacetophenone monohydrate	480-66-0	25.00	1.2537	2	13730	C8H9NO2	phenoxyacetamide	621-88-5	19.47	1.1446	2
13505	C8H8O4S	2-methylsulphonylbenzoic acid	33963-55-2	25.00	1.3376	2	13731	C8H9NO2	DL-a-phenylglycine	2835-06-5	19.47	1.1446	2
13506	C8H8O4S	4-methylsulphonylbenzoic acid	4052-30-6	25.00	1.3376	2	13732	C8H9NO2	L(+)-a-phenylglycine	2935-35-5	19.47	1.1446	2
13507	C8H8O4S	3-methylsulphonylbenzoic acid	5345-27-7	25.00	1.3376	2	13733	C8H9NO2	D(-)-a-phenylglycine	875-74-1	19.47	1.1446	2
13509	C8H8O5	dimethyl 2,5-furandicarboxylate	4282-32-0	25.00	1.3178	2	13734	C8H9NO2	cis-1,2,3,6-tetrahydrophthalimide	27813-21-4	19.47	1.1446	2
13510	C8H8O5	spinulosin	85-23-4	25.00	1.3178	2	13735	C8H9NO2	carbamic acid, phenyl-, methyl ester	2603-10-3	19.47	1.1446	2
13511	C8H8O5	DL-3,4-dihydroxymandelic acid	14883-87-5	25.00	1.3178	2	13736	C8H9NO2	N-(2-hydroxyphenyl)acetamide	614-80-2	19.47	1.1446	2
13512	C8H8O5	dimethyl 3,4-furandicarboxylate	4282-33-1	25.00	1.3178	2	13738	C8H9NO2	o-anisamide	2439-77-2	19.47	1.1446	2
13513	C8H8O5	methyl 2,4,6-trihydroxybenzoate	3147-39-5	25.00	1.3178	2	13744	C8H9NO3	3,6-dimethyl-2-nitrophenol	71608-10-1	38.00	1.1820	2
13514	C8H8O5	methyl 3,4,5-trihydroxybenzoate	99-24-1	25.00	1.3178	2	13746	C8H9NO3	1-ethoxy-3-nitrobenzene	621-52-3	38.00	1.1820	2
13516	C8H8O7	(+)-diacetyl-L-tartaric anhydride	6283-74-5	25.00	1.4318	2	13747	C8H9NO3	1-ethoxy-4-nitrobenzene	100-29-8	100.00	1.1176	1
13517	C8H8O9	tetrahydrofuran-2,3,4,5-tetracarboxylic acid	26106-63-8	25.00	1.5299	2	13748	C8H9NO3	N-(4-hydroxyphenyl)glycine	122-87-2	38.00	1.1820	2
13541	C8H9Br	1-(bromomethyl)-4-methylbenzene	104-81-4	25.00	1.3240	1	13750	C8H9NO3	methyl 3-amino-4-hydroxybenzoate	536-25-4	38.00	1.1820	2
13545	C8H9BrO	(2-bromoethoxy)benzene	589-10-6	20.00	1.3555	1	13752	C8H9NO3	3-amino-4-methoxybenzoic acid	2840-26-8	38.00	1.1820	2
13549	C8H9BrO	alpha-(bromomethyl)benzenemethanol	2425-28-7	20.00	1.4994	1	13753	C8H9NO3	N-(benzyloxycarbonyl)hydroxylamine	3426-71-9	38.00	1.1820	2
13550	C8H9BrO	4-bromobenzeneethanol	4654-39-1	25.00	1.4360	1	13754	C8H9NO3	2,6-dimethyl-4-nitrophenol	2423-71-4	38.00	1.1820	2
13551	C8H9BrO	4-bromo-2,6-dimethylphenol	2374-05-2	23.23	1.4369	2	13755	C8H9NO3	D(-)-4-hydroxyphenylglycine	22818-40-2	38.00	1.1820	2
13552	C8H9BrO	4-bromo-3,5-dimethylphenol	7463-51-6	23.23	1.4369	2	13757	C8H9NO3	3-methyl-2-nitroanisole	5345-42-6	38.00	1.1820	2
13555	C8H9BrO	(S)-(-)-2-bromo-a-methylbenzyl alcohol	114446-55-8	23.23	1.4369	2	13758	C8H9NO3	3-methyl-4-nitroanisole	5367-32-8	38.00	1.1820	2
13556	C8H9BrO	4-bromo-a-methylbenzyl alcohol	5391-88-8	25.00	1.4600	1	13759	C8H9NO3	3-methyl-4-nitrobenzyl alcohol	80866-75-7	38.00	1.1820	2
13562	C8H9BrO2	1-bromo-2,4-dimethoxybenzene	17715-69-4	25.00	1.5070	1	13760	C8H9NO3	3-methyl-2-nitrobenzyl alcohol	80866-76-8	38.00	1.1820	2
13564	C8H9BrO2	5-bromo-2-methoxybenzylalcohol	80866-82-6	25.00	1.5513	2	13761	C8H9NO3	4-nitrophenethyl alcohol	100-27-6	38.00	1.1820	2
13565	C8H9BrO2	2-(4-bromophenoxy)ethanol	34743-88-9	25.00	1.5513	2	13762	C8H9NO3	3-nitrophenethyl alcohol	52022-77-2	38.00	1.1820	2
13566	C8H9BrO3	exo-2-bromo-5-oxo-bicyclo[2.2.1]heptane-syn-*	63377-25-3	25.00	1.5247	2	13765	C8H9NO4	1,2-dimethoxy-4-nitrobenzene	709-09-1	133.00	1.1888	1
13588	C8H9ClN4	hydralazine hydrochloride	304-20-1	25.00	1.3079	2	13766	C8H9NO4	1,3-dimethoxy-5-nitrobenzene	16147-07-2	133.00	1.1693	1
13592	C8H9ClO	4-chloro-2,5-dimethylphenol	1124-06-7	21.92	1.1615	2	13767	C8H9NO4	1,4-dimethoxy-2-nitrobenzene	89-39-4	132.00	1.1666	1
13593	C8H9ClO	4-chloro-2,6-dimethylphenol	1123-63-3	21.92	1.1615	2	13768	C8H9NO4	2,4-dimethoxy-1-nitrobenzene	4920-84-7	132.00	1.1876	1
13594	C8H9ClO	4-chloro-3,5-dimethylphenol	88-04-0	21.92	1.1615	2	13769	C8H9NS	thioacetanilide	637-53-6	25.00	1.1122	2
13595	C8H9ClO	2-chloro-3,4-dimethylphenol	10283-15-5	21.92	1.1615	2	13770	C8H9NS2	methyl dithiocarbanilate	701-73-5	25.00	1.2096	2
13596	C8H9ClO	(2-chloroethoxy)benzene	622-86-6	21.92	1.1615	2	13773	C8H9N3	2-amino-1-methylbenzimidazole	1622-57-7	25.00	1.1418	2
13603	C8H9ClO	4-chloro-2-methylanisole	3260-85-3	21.92	1.1615	2	13780	C8H9N3O4	2,4-dinitro-N-ethylaniline	3846-50-2	25.00	1.3951	2
13607	C8H9ClO	2-methoxybenzyl chloride	7035-02-1	25.00	1.1250	1	13782	C8H9N3O4	nicorandil	65141-46-0	25.00	1.3951	2
13611	C8H9ClO2	5-chloro-1,3-dimethoxybenzene	7051-16-3	25.00	1.1938	2	13785	C8H9N3S	3-methyl-2-benzothiazolone hydrazone	1128-67-2	25.00	1.2407	2
13614	C8H9ClO2	(S)-(+)-1-(2-chlorophenyl)-1,2-ethanediol	133082-13-0	25.00	1.1938	2	13786	C8H9N5	2-guanidinobenzimidazole	5418-95-1	25.00	1.2751	2
13616	C8H9ClO2S	2-chloroethyl phenyl sulfone	938-09-0	25.00	1.2780	2	13789	C8H10	ethylbenzene	100-41-4	-94.95	1.1255	2
13617	C8H9ClO3	exo-2-chloro-5-oxo-bicyclo[2.2.1]heptane-syn*	52730-42-4	25.00	1.2557	2	13790	C8H10	o-xylene	95-47-6	-25.17	1.0182	1
13624	C8H9Cl2NO	2,6-dichloro-4-ethoxyaniline	51225-20-8	25.00	1.2846	2	13791	C8H10	m-xylene	108-38-3	-195.00	1.0610	1
13634	C8H9FN2O3	ftorafur	17902-23-7	25.00	1.3222	2	13792	C8H10	p-xylene	106-42-3	13.26	1.0213	1
13646	C8H9FO2S	p-fluorophenyl ethyl sulfone	2924-67-6	25.00	1.2315	2	13798	C8H10	2,6-octadiyne	764-73-8	80.00	0.8280	1
13658	C8H9IO	1-ethoxy-4-iodobenzene	699-08-1	25.00	1.6502	2	13799	C8H10	3,5-octadiyne	16387-70-5	25.00	0.8260	1
13660	C8H9IO2	1-iodo-2,3-dimethoxybenzene	25245-33-4	20.00	1.7799	1	13800	C8H10	1,7-octadiyne	871-84-1	21.00	0.8169	1
13661	C8H9IO2	4-iodo-1,2-dimethoxybenzene	5460-32-2	25.00	1.6933	2	13801	C8H10	1,3,5,7-octatetraene	1482-91-3	28.54	0.8580	2
13671	C8H9NO	acetanilide	103-84-4	114.50	1.2147	1	13807	C8H10BrN	4-bromo-N,N-dimethylaniline	586-77-6	100.00	1.3220	1
13672	C8H9NO	1-(3-aminophenyl)ethanone	99-03-6	38.60	1.0936	2	13808	C8H10BrN	4-bromo-2,6-dimethylaniline	24596-19-8	35.00	1.3486	2
13673	C8H9NO	1-(4-aminophenyl)ethanone	99-92-3	38.60	1.0936	2	13809	C8H10BrN	2-bromo-4,6-dimethylaniline	41825-73-4	35.00	1.3486	2
13675	C8H9NO	benzeneacetamide	103-81-1	38.60	1.0936	2	13821	C8H10ClN	4-chloro-N,N-dimethylaniline	698-69-1	100.00	1.0480	1
13676	C8H9NO	2-methylbenzamide	527-85-5	38.60	1.0936	2	13823	C8H10ClN	2-chloro-4,6-dimethylaniline	63133-82-4	25.00	1.1100	1
13677	C8H9NO	N-methylbenzamide	613-93-4	38.60	1.0936	2	13829	C8H10ClNO	4-chloro-2-methoxy-5-methylaniline	6376-14-3	25.00	1.1618	2
13678	C8H9NO	N-(2-methylphenyl)formamide	94-69-9	55.00	1.0860	1	13831	C8H10ClNO2	5-chloro-2,4-dimethoxyaniline	97-50-7	25.00	1.2236	2
13682	C8H9NO	1-phenylethanone oxime	613-91-2	78.00	1.0515	1	13836	C8H10ClN3O	1-(2-amino-5-chlorobenzoyl)-1-methylhydrazine	59169-70-9	25.00	1.2779	2
13684	C8H9NO	N-benzylformamide	6343-54-0	38.60	1.0936	2	13840	C8H10Cl2N2S	S-(4-chlorobenzyl)thiuronium chloride	544-47-8	25.00	1.3240	2
13685	C8H9NO	4-oxo-3-aza-tricyclo[4.2.1.0(2.5)]non-7-ene	---	38.60	1.0936	2	13842	C8H10Cl2Si	dichloromethyl(4-methylphenyl)silane	18236-57-2	20.00	1.1619	1
13686	C8H9NO	m-toluamide	618-47-3	38.60	1.0936	2	13854	C8H10NO5PS	methyl parathion	298-00-0	20.00	1.3580	1
13687	C8H9NO	p-toluamide	619-55-6	38.60	1.0936	2	13857	C8H10N2	acetaldehyde phenylhydrazone	935-07-9	24.00	1.0246	2
13689	C8H9NOS	4-acetamidothiophenol	1126-81-4	25.00	1.1811	2	13859	C8H10N2	1,2,3,4-tetrahydroquinoxaline	3476-89-9	24.00	1.0246	2
13690	C8H9NO2	alpha-aminobenezeneacetic acid	69-91-0	19.47	1.1446	2	13862	C8H10N2O	N-(4-aminophenyl)acetamide	122-80-5	20.00	1.1162	2
13691	C8H9NO2	4-aminobenezeneacetic acid	1197-55-3	19.47	1.1446	2	13863	C8H10N2O	benzylurea	538-32-9	20.00	1.1162	2
13694	C8H9NO2	1,2-dimethyl-4-nitrobenzene	99-51-4	15.00	1.1120	1	13865	C8H10N2O	p-nitroso-N,N-dimethylaniline	138-89-6	20.00	1.1450	1
13696	C8H9NO2	1,3-dimethyl-5-nitrobenzene	99-12-7	19.47	1.1446	2	13866	C8H10N2O	1-acetyl-2-phenylhydrazine	114-83-0	20.00	1.1162	2
13705	C8H9NO2	N-(4-hydroxyphenyl)acetamide	103-90-2	21.00	1.2930	2	13867	C8H10N2O	3'-aminoacetanilide	102-28-3	20.00	1.1162	2
13706	C8H9NO2	4-methoxybenzamide	3424-93-9	19.47	1.1446	2	13868	C8H10N2O	3-amino-4-methylbenzamide	19406-86-1	20.00	1.1162	2
13708	C8H9NO2	methyl 3-aminobenzoate	4518-10-9	20.00	1.2320	1	13869	C8H10N2O	phenylacetic acid hydrazide	937-39-3	20.00	1.1162	2
13709	C8H9NO2	2-(methylamino)benzoic acid	119-68-6	19.47	1.1446	2	13871	C8H10N2O	p-toluic hydrazide	3619-22-5	20.00	1.1162	2
13710	C8H9NO2	3-(methylamino)benzoic acid	51524-84-6	19.47	1.1446	2	13872	C8H10N2O	o-tolylurea	614-77-7	20.00	1.1162	2
13711	C8H9NO2	4-(methylamino)benzoic acid	10541-83-0	19.47	1.1446	2	13873	C8H10N2O	p-tolylurea	622-51-5	20.00	1.1162	2
13714	C8H9NO2	N-phenylglycine	103-01-5	19.47	1.1446	2	13874	C8H10N2O	1-tolylurea	63-99-0	20.00	1.1162	2
13715	C8H9NO2	3-acetamidophenol	621-42-1	19.47	1.1446	2	13877	C8H10N2O2	N,N-dimethyl-3-nitroaniline	619-31-8	17.00	1.3130	1
13716	C8H9NO2	3-amino-4-methylbenzoic acid	2458-12-0	19.47	1.1446	2	13878	C8H10N2O2	carbobenzoxyhydrazide	5331-43-1	20.67	1.2275	2
13717	C8H9NO2	4-amino-3-methylbenzoic acid	2486-70-6	19.47	1.1446	2	13879	C8H10N2O2	trans-1,4-cyclohexane diisocyanate	7517-76-2	20.67	1.2275	2
13718	C8H9NO2	2-amino-5-methylbenzoic acid	2941-78-8	19.47	1.1446	2	13880	C8H10N2O2	2,3-dimethyl-6-nitroaniline	59146-96-2	20.67	1.2275	2
13719	C8H9NO2	2-amino-3-methylbenzoic acid	4389-45-1	19.47	1.1446	2	13881	C8H10N2O2	4,5-dimethyl-2-nitroaniline	6972-71-0	20.67	1.2275	2
13720	C8H9NO2	2-amino-6-methylbenzoic acid	4389-50-8	19.47	1.1446	2	13882	C8H10N2O2	N-ethyl-2-nitroaniline	10112-15-9	25.00	1.1900	1
13721	C8H9NO2	3-amino-2-methylbenzoic acid	52130-17-3	19.47	1.1446	2	13883	C8H10N2O2	N-(2-hydroxyethyl)isonicotinamide	6265-74-3	20.67	1.2275	2
13722	C8H9NO2	4-(aminomethyl)benzoic acid	56-91-7	19.47	1.1446	2	13884	C8H10N2O2	N,N-dimethyl-p-nitroaniline	100-23-2	20.67	1.2275	2
13723	C8H9NO2	1,4-benzodioxan-6-amine	22013-33-8	25.00	1.2310	1	13887	C8H10N2O3	2-ethoxy-5-nitroaniline	136-79-8	25.00	1.2477	2
13724	C8H9NO2	benzyl carbamate	621-84-1	19.47	1.1446	2	13888	C8H10N2O3S	N,4-dimethyl-N-nitrosobenzenesulfonamide	80-11-5	25.00	1.3260	2
13725	C8H9NO2	N-(hydroxymethyl)benzamide	6282-02-6	19.47	1.1446	2	13889	C8H10N2O3S	N-[(4-aminophenyl)sulfonyl]acetamide	144-80-9	25.00	1.3260	2
13726	C8H9NO2	4-hydroxyphenylacetamide	17194-82-0	19.47	1.1446	2	13890	C8H10N2O3S	N-[4-(aminosulfonyl)phenyl]acetamide	121-61-9	25.00	1.3260	2
13727	C8H9NO2	methyl 4-aminobenzoate	619-45-4	19.47	1.1446	2	13891	C8H10N2O4	mimosine	500-44-7	25.00	1.3070	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
13892	C8H10N2O4	2,5-dimethoxy-4-nitroaniline	6313-37-7	25.00	1.3070	2	14082	C8H11N	N,N-dimethylaniline	121-69-7	2.50	1.1318	2
13894	C8H10N2O4S	asulam	3337-71-1	25.00	1.3771	2	14083	C8H11N	o-ethylaniline	578-54-1	-46.60	1.2118	2
13896	C8H10N2S	2-ethyl-4-pyridinecarbothioamide	536-33-4	25.00	1.1487	2	14091	C8H11N	3,4-dimethylaniline	95-64-7	18.00	1.0760	1
13897	C8H10N2S	(2-methylphenyl)thiourea	614-78-8	25.00	1.1487	2	14095	C8H11N	N-ethylaniline	103-69-5	-63.50	1.1985	2
13898	C8H10N2S	N-methyl-N'-phenyl thiourea	2724-69-8	25.00	1.1487	2	14096	C8H11N	2,4,6-trimethylpyridine	108-75-8	-44.20	1.1282	2
13900	C8H10N4O2	caffeine	58-08-2	18.70	1.2300	1	14115	C8H11N	alpha-methylbenzylamine, (±)	618-36-0	15.00	0.9395	1
13901	C8H10N4O2	2,4-dicyano-3-methylglutaramide	5447-66-5	25.00	1.3043	2	14120	C8H11N	(R)-(+)-a-methylbenzylamine	3886-69-9	25.00	0.9400	1
13905	C8H10N4O5	furadroxyl	405-22-1	25.00	1.4613	2	14121	C8H11N	2-norbornanecarbonitrile, endo and exo	2234-26-6	22.05	0.9513	2
13908	C8H10N6	ophthazin	484-23-1	25.00	1.3014	2	14124	C8H11NO	p-phenetidine	156-43-4	3.85	1.2566	2
13911	C8H10Na2O5	endothall disodium	145-73-3	20.00	1.4310	1	14126	C8H11NO	beta-aminobenzeneethanol	7568-92-5	23.33	1.0545	2
13912	C8H10O	phenetole	103-73-1	-29.52	1.1801	2	14127	C8H11NO	4-(2-aminoethyl)phenol	51-67-2	23.33	1.0545	2
13913	C8H10O	2-phenylethanol	60-12-8	-27.00	1.2339	2	14128	C8H11NO	alpha-(aminomethyl)benzenemethanol	7568-93-6	23.33	1.0545	2
13914	C8H10O	2-methylbenzenemethanol	89-95-2	36.00	1.2009	2	14129	C8H11NO	2-(dimethylamino)phenol	3743-22-4	23.33	1.0545	2
13915	C8H10O	3-methylbenzenemethanol	587-03-1	-21.15	1.1032	2	14130	C8H11NO	3-(dimethylamino)phenol	99-07-0	23.33	1.0545	2
13916	C8H10O	4-methylbenzenemethanol	589-18-4	59.50	1.1545	2	14131	C8H11NO	4-(dimethylamino)phenol	619-60-3	23.33	1.0545	2
13917	C8H10O	1-phenylethanol	98-85-1	19.50	1.1875	2	14134	C8H11NO	3-(ethylamino)phenol	621-31-8	23.33	1.0545	2
13918	C8H10O	o-ethylphenol	90-00-6	-3.31	1.2168	2	14138	C8H11NO	2-methoxy-6-methylaniline	50868-73-0	23.33	1.0545	2
13919	C8H10O	m-ethylphenol	620-17-7	-4.00	1.2046	2	14139	C8H11NO	5-methoxy-2-methylaniline	50868-72-9	23.33	1.0545	2
13920	C8H10O	p-ethylphenol	123-07-9	25.00	1.0540	1	14140	C8H11NO	2-methoxy-5-methylaniline	120-71-8	23.33	1.0545	2
13921	C8H10O	2,3-xylenol	526-75-0	25.00	1.1640	1	14141	C8H11NO	3-methoxy-4-methylaniline	16452-01-0	23.33	1.0545	2
13922	C8H10O	2,4-xylenol	105-67-9	24.53	1.1875	2	14142	C8H11NO	4-methoxy-2-methylaniline	102-50-1	25.00	1.0650	1
13923	C8H10O	2,5-xylenol	95-87-4	25.00	1.1890	1	14143	C8H11NO	alpha-methyl-2-pyridineethanol	5307-19-7	23.33	1.0545	2
13924	C8H10O	2,6-xylenol	576-26-1	25.00	1.1320	1	14145	C8H11NO	2-pyridinepropanol	2859-68-9	25.00	1.0600	1
13925	C8H10O	3,4-xylenol	95-65-8	25.00	1.1380	1	14147	C8H11NO	3-acetyl-2,4-dimethylpyrrole	2386-25-6	23.33	1.0545	2
13926	C8H10O	3,5-xylenol	108-68-9	25.00	1.1150	1	14148	C8H11NO	4-aminophenethyl alcohol	104-10-9	23.33	1.0545	2
13933	C8H10O	2,4,6-octatrienal	17609-31-3	60.00	0.8891	1	14149	C8H11NO	1-(3-aminophenyl)ethanol	2454-37-7	23.33	1.0545	2
13934	C8H10O	dimethyl phenol	1300-71-6	25.95	0.9863	2	14151	C8H11NO	N-methyl-p-anisidine	5961-59-1	23.33	1.0545	2
13935	C8H10O	(±)-a-methyl-benzenemethanol	13323-81-4	25.95	0.9863	2	14152	C8H11NO	4-oxo-3-aza-tricyclo[4.2.1.0(2.5)]nonane	---	23.33	1.0545	2
13943	C8H10OS	4-(methylthio)benzyl alcohol	3446-90-0	22.83	1.1000	2	14154	C8H11NO	(S)-(+)-2-phenylglycinol	20989-17-7	23.33	1.0545	2
13944	C8H10OS	(R)-(+)-methyl p-tolyl sulfoxide	1519-39-7	22.83	1.1000	2	14155	C8H11NO	(R)-(-)-2-phenylglycinol	56613-80-0	23.33	1.0545	2
13945	C8H10OS	methyl p-tolyl sulfoxide	934-72-5	22.83	1.1000	2	14156	C8H11NO	4-pyridinepropanol	2629-72-3	25.00	1.0610	1
13949	C8H10O2	1,3-benzenedimethanol	626-18-6	18.00	1.1610	1	14158	C8H11NO	2-amino-4,5-xylenol	6623-41-2	23.33	1.0545	2
13950	C8H10O2	1,4-benzenedimethanol	589-29-7	26.67	1.0977	2	14160	C8H11NO	4-methoxy-m-toluidine	136-90-3	23.33	1.0545	2
13953	C8H10O2	1,4-dimethoxybenzene	150-78-7	55.00	1.0375	1	14163	C8H11NO2	2,5-dimethoxyaniline	102-56-7	25.00	1.0525	2
13954	C8H10O2	2,5-dimethyl-1,3-benzenediol	488-87-9	26.67	1.0977	2	14164	C8H11NO2	2,6-dimethoxyaniline	2734-70-5	25.00	1.0525	2
13955	C8H10O2	4,5-dimethyl-1,2-benzenediol	2785-74-2	26.67	1.0977	2	14168	C8H11NO2	D(-)-2,5-dihydrophenylglycine	26774-88-9	25.00	1.0525	2
13956	C8H10O2	4,5-dimethyl-1,3-benzenediol	527-55-9	20.00	1.1994	1	14169	C8H11NO2	3,5-dimethoxyaniline	10272-07-8	25.00	1.0525	2
13957	C8H10O2	4,6-dimethyl-1,3-benzenediol	615-89-4	26.67	1.0977	2	14170	C8H11NO2	2,4-dimethoxyaniline	2735-04-8	25.00	1.0750	1
13958	C8H10O2	4-ethyl-1,3-benzenediol	2896-60-8	26.67	1.0977	2	14171	C8H11NO2	3,4-dimethoxyaniline	6315-89-5	25.00	1.0525	2
13959	C8H10O2	2-ethoxyphenol	94-71-3	25.00	1.0903	1	14172	C8H11NO2	3-endo-aminobicyclo[2.2.1]hept-5-ene-2-endo-*	88330-29-4	25.00	1.0525	2
13961	C8H10O2	4-ethoxyphenol	622-62-8	26.67	1.0977	2	14174	C8H11NO2	3-exo-aminobicyclo[2.2.1]hept-5-ene-2-exo-ca*	92511-32-5	25.00	1.0525	2
13963	C8H10O2	hexahydro-1,5-pentalenedione	62353-69-9	60.00	1.1290	1	14183	C8H11NO2S	N,4-dimethylbenzenesulfonamide	640-61-9	25.00	1.3400	1
13966	C8H10O2	3-methoxybenzenemethanol	6971-51-3	25.00	1.1120	1	14185	C8H11NO3	norepinephrine	51-41-2	25.00	1.1566	2
13970	C8H10O2	1-phenyl-1,2-ethanediol	93-56-1	26.67	1.0977	2	14186	C8H11NO3	3-acetyl-4,5-dimethyl-5-hydroxy-1,5-dihydro-*	98593-79-4	25.00	1.1566	2
13972	C8H10O2	1,2-benzenedimethanol	612-14-6	26.67	1.0977	2	14187	C8H11NO3	ethyl 2-cyano-3-ethoxyacrylate	94-05-3	25.00	1.1566	2
13973	C8H10O2	2,3-dimethylhydroquinone	608-43-5	26.67	1.0977	2	14188	C8H11NO3	2-methyl-3-hydroxy-4,5-dihydroxymethylpyridi*	65-23-6	25.00	1.1566	2
13974	C8H10O2	4-hydroxyphenethyl alcohol	501-94-0	26.67	1.0977	2	14189	C8H11NO3	D-arterenol	149-95-1	25.00	1.1566	2
13979	C8H10O2	(R)-(-)-1-phenyl-1,2-ethanediol	16355-00-3	26.67	1.0977	2	14190	C8H11NO3	DL-arterenol	138-65-8	25.00	1.1566	2
13980	C8H10O2	(S)-(+)-1-phenyl-1,2-ethanediol	25779-13-9	26.67	1.0977	2	14195	C8H11NO3S	N,N-dimethylsulfanilic acid	121-58-4	25.00	1.2435	2
13983	C8H10O2	2,6-dimethylhydroquinone	654-42-2	26.67	1.0977	2	14196	C8H11NO4	ethyl 2,5-dioxo-1-pyrrolidineacetate	14181-05-6	25.00	1.2192	2
13985.1	C8H10O2	ethylbenzene hydroperoxide	3071-32-7	16.85	1.2601	2	14197	C8H11NS	p-(dimethylamino)benzenethiol	4946-22-9	25.00	1.0570	2
13986	C8H10O2S	ethyl phenyl sulfone	599-70-2	20.00	1.1410	1	14200	C8H11N3O	1-(2-aminobenzoyl)-1-methylhydrazine	59169-69-6	25.00	1.1509	2
13990	C8H10O2S	methyl p-tolyl sulfone	3185-99-7	24.00	1.1508	2	14201	C8H11N3O	2-amino-4,6-dimethyl-3-pyridinecarboxamide	7144-20-9	25.00	1.1509	2
13993	C8H10O3	2,6-dimethoxyphenol	91-10-1	23.25	1.0745	2	14206	C8H11N3O2	3-amino-N,N-dimethyl-4-nitroaniline	2069-71-8	25.00	1.2148	2
13994	C8H10O3	3,5-dimethoxyphenol	500-99-2	23.25	1.0745	2	14207	C8H11N3O2	2-cyano-3-morpholinoacrylamide	25229-97-4	25.00	1.2148	2
13998	C8H10O3	hexahydro-1,3-isobenzofurandione	85-42-7	23.25	1.0745	2	14208	C8H11N3O2	5-nitro-2-(n-propylamino)-pyridine	25948-11-2	25.00	1.2148	2
13999	C8H10O3	2-hydroxy-3-methoxybenzenemethanol	4383-05-5	23.25	1.0745	2	14216	C8H11N3O3S	ethyl 2-(2-aminothiazol-4-yl)-2-methoxyimino*	64485-88-7	25.00	1.3460	2
14000	C8H10O3	4-hydroxy-3-methoxybenzenemethanol	498-00-0	23.25	1.0745	2	14217	C8H11N3O6	6-azauridine	54-25-1	25.00	1.4288	2
14005	C8H10O3	2-acetyl-1,3-cyclohexanedione	4056-73-9	23.25	1.0745	2	14218	C8H11N5	N-phenylimidodicarbonimidic diamide	102-02-3	25.00	1.2103	2
14007	C8H10O3	3,4-dimethoxyphenol	2033-89-8	23.25	1.0745	2	14221	C8H11N5O5S	satranidazole	56302-13-7	25.00	1.5220	2
14012	C8H10O3	cis-hexahydrophthalic anhydride	13149-00-3	23.25	1.0745	2	14222	C8H11N7S	ambazone	539-21-9	25.00	1.3920	2
14013	C8H10O3	2-(2-hydroxyethoxy)phenol	4792-78-3	23.25	1.0745	2	14226	C8H11O4	4-hydroxy-alpha,6-dimethyl-1,3-dioxane-2-eth*	19404-07-0	20.00	1.1160	1
14016	C8H10O3S	methyl 4-toluenesulfonate	80-48-8	40.00	1.2087	1	14228	C8H12	1,5-cyclooctadiene	111-78-4	-69.17	1.1251	2
14017	C8H10O3S	2,5-dimethylbenzenesulfonic acid	609-54-1	28.33	1.3275	2	14231	C8H12	vinylcyclohexene	100-40-3	-109.15	1.0927	2
14020	C8H10O3S	2,4-xylenesulfonic acid	88-61-9	28.33	1.3275	2	14244	C8H12	trans,trans,trans-2,4,6-octatriene	15192-80-0	23.00	0.7961	1
14024	C8H10O4	3-methoxy-5-methyl-4-oxo-2,5-hexadienoic acid	90-65-3	23.00	1.1085	2	14246	C8H12	bicyclo(2.2.2)oct-2-ene	931-64-6	21.05	0.8341	2
14027	C8H10O4	3,4-dihydro-2,2-dimethyl-4-oxo-2H-pyran-6-ca*	80866-93-9	23.00	1.1085	2	14249	C8H12	3-cyclopentyl-1-propyne	116279-08-4	25.00	0.8200	1
14028	C8H10O4	ethylene glycol diacrylate	2274-11-5	20.00	1.2813	2	14256	C8H12BrN	1-propylpyridinium bromide	873-71-2	25.00	1.3142	2
14030	C8H10O4	isodehydroacetic acid	480-65-9	23.00	1.1085	2	14260	C8H12ClN	N,N-dimethylaniline hydrochloride	5882-44-0	19.00	1.1156	1
14038	C8H10O8	succinic peroxide	123-23-9	25.00	1.4141	2	14262	C8H12ClNO3	pyridoxine hydrochloride	58-56-0	25.00	1.2243	2
14055	C8H10S2	1,4-benzenedimethanethiol	105-09-9	25.00	1.1219	2	14263	C8H12Cl2	2,5-dichloro-2,5-dimethyl-3-hexyne	2431-30-3	20.00	1.0118	1
14056	C8H10S2	1,2-benzenedimethanethiol	2388-68-3	25.00	1.1219	2	14277	C8H12N2	N,N'-dimethyl-1,2-benzenediamine	3213-79-4	27.89	0.9983	2
14068	C8H11BrN2O2	5-bromo-3-isopropyl-6-methyluracil	314-42-1	25.00	1.4998	2	14280	C8H12N2	N,N-dimethyl-1,4-benzenediamine	99-98-9	20.00	1.0360	1
14069	C8H11BrO4	5-bromo-5-deoxy-2,3-O-isopropylidene-D-ribon*	94324-23-9	25.00	1.4991	2	14284	C8H12N2	1-methyl-2-(3-methylphenyl)hydrazine	116836-06-7	100.00	1.0265	1
14071	C8H11ClN2O	3'-aminoacetanilide hydrochloride hydrate	621-35-2	25.00	1.1928	2	14286	C8H12N2	tetramethyl succinonitrile	3333-52-6	25.00	1.0700	1
14072	C8H11ClO2	exo-2-chloro-syn-7-hydroxymethyl-5-oxo-bicyc*	---	25.00	1.1369	2	14288	C8H12N2	4-(2-aminoethyl)aniline	13472-00-9	25.00	1.0460	1
14075	C8H11ClO5	2,4,6-trimethylpyrilium perchlorate	940-93-2	25.00	1.3061	2	14291	C8H12N2	N,N-dimethyl-p-phenylenediamine	105-10-2	27.89	0.9983	2
14078	C8H11Cl2N3O2	uracil mustard	66-75-1	25.00	1.3736	2	14297	C8H12N2	2,3,5,6-tetramethylpyrazine	1124-11-4	27.89	0.9983	2
14079	C8H11Cl3O6	a-chloralose	15879-93-3	25.00	1.4708	2	14300	C8H12N2O	4-ethoxy-1,2-benzenediamine	1197-37-1	25.00	1.0584	2
14080	C8H11Cl3O7	2,2,2-trichloroethyl-beta-D-glucopyranosidur*	97-25-6	25.00	1.5066	2	14301	C8H12N2O	1-cyanoacetylpiperidine	15029-30-8	25.00	1.0584	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
14302	C8H12N2O	2-(dimethylaminomethyl)-3-hydroxypyridine	2168-13-0	25.00	1.0584	2	14654.1	C8H14O2	2-oxolan-2-yloxolane	106538-38-9	-38.15	1.5140	2
14303	C8H12N2O	3-exo-aminobicyclo[2.2.1]hept-5-ene-2-exo-ca*	105786-40-1	25.00	1.0584	2	14656	C8H14O2S2	dl-thioctic acid	1077-28-7	25.00	1.1396	2
14305	C8H12N2O	2-isopropyl-6-methyl-4-pyrimidinol	2814-20-2	25.00	1.0584	2	14657	C8H14O2S2	thioctic acid	62-46-4	25.00	1.1396	2
14306	C8H12N2O2	hexamethylene diisocyanate	822-06-0	-190.00	1.2194	1	14659	C8H14O3	butyric anhydride	106-31-0	-73.30	1.2466	2
14307	C8H12N2O2	1-(tert-butoxycarbonyl)imidazole	49761-82-2	25.00	1.1257	2	14673	C8H14O3	ethyl trans-3-ethoxycrotonate	57592-45-7	23.05	0.9911	2
14308	C8H12N2O2	2-4-dione-1,3-diazaspiro(4.5)decane	702-62-5	25.00	1.1257	2	14680	C8H14O3	7-oxooctanoic acid	14112-98-2	23.05	0.9911	2
14309	C8H12N2O2S	4-(2-aminoethyl)benzenesulfonamide	35303-76-5	25.00	1.2139	2	14688	C8H14O4	diethyl succinate	123-25-1	-20.80	1.2629	2
14310	C8H12N2O3	barbital	57-44-3	25.00	1.2200	1	14696	C8H14O4	ethyl hydrogen adipate	626-86-8	20.00	0.9796	1
14311	C8H12N2O3	primocarcin	3750-26-3	25.00	1.1882	2	14697	C8H14O4	3-ethyl-3-methylpentanedioic acid	5345-01-7	22.37	1.0671	2
14312	C8H12N2O3S	6-aminopenicillanic acid	551-16-6	25.00	1.2677	2	14698	C8H14O4	octanedioic acid	505-48-6	25.00	1.2660	1
14314	C8H12N3O2	4-cyano-2,2,5,5-tetramethyl-3-imidazoline-3-*	64918-63-4	25.00	1.1858	2	14699	C8H14O4	tetramethylbutanedioic acid	630-51-3	25.00	1.3000	1
14318	C8H12N4O4	5-azadeoxycytidine	2353-33-5	25.00	1.3493	2	14706	C8H14O4	2,6-dimethyl-1,3-dioxan-4-ol acetate, cis an*	828-00-2	-7.15	1.2821	2
14319	C8H12N4O5	5-azacytidine	320-67-2	25.00	1.3975	2	14720	C8H14O4S2	3-carboxypropyl disulfide	2906-60-7	25.00	1.2395	2
14321	C8H12N4O5	1b-D-ribofuranosyl-1,2,4-triazole-3-carboxam*	36791-04-5	25.00	1.3975	2	14723	C8H14O5	1,2-o-isopropylidene-a-D-xylofuranose	20031-21-4	21.67	1.1309	2
14326	C8H12O	1-(1-cyclohexen-1-yl)ethanone	932-66-1	20.00	0.9655	1	14728	C8H14O6	(-)-diethyl D-tartrate	13811-71-7	25.00	1.2030	1
14334	C8H12O	1-ethynylcyclohexanol	78-27-3	20.00	0.9873	1	14741	C8H15BrO2	8-bromooctanoic acid	17696-11-6	22.88	1.2395	2
14338	C8H12O	bicyclo[3.2.1]octan-2-one	5019-82-9	21.22	0.9643	2	14744	C8H15BrO2	ethyl 6-bromohexanoate	25542-62-5	23.00	1.2380	1
14346	C8H12O2	5,5-dimethyl-1,3-cyclohexanedione	126-81-8	22.50	1.0086	2	14748	C8H15Br3	1,1,1-tribromooctane	62127-65-5	25.00	1.7308	2
14352	C8H12O2	4-octene-2,7-dione	2130-23-6	22.50	1.0086	2	14768	C8H15FO2	8-fluorooctanoic acid	353-25-3	25.00	0.9871	2
14361	C8H12O2	4,4-dimethyl-1,3-cyclohexanedione	562-46-9	22.50	1.0086	2	14774	C8H15I3	1,1,1-triiodooctane	---	25.00	2.1496	2
14370	C8H12O3	3-methyl-4-oxocyclohexanecarboxylic acid	101567-36-6	22.00	1.0630	2	14778	C8H15N	octahydro-1H-indole	4375-14-8	20.00	0.9472	1
14373	C8H12O3	1,4-dioxaspiro[4.5]decan-2-one	4423-79-4	22.00	1.0630	2	14784	C8H15N	3-azabicyclo[3.2.2]nonane	283-24-9	18.75	0.8863	2
14374	C8H12O3	1,4-dioxaspiro[4.5]decan-8-one	4746-97-8	22.00	1.0630	2	14788	C8H15NO	2-hydroxy-3-methyl-2-isopropylbutanenitrile	4390-75-4	31.44	0.9400	2
14379	C8H12O4	1,4-cyclohexanedicarboxylic acid	619-82-9	0.00	1.3516	2	14793	C8H15NO	8-methyl-8-azabicyclo[3.2.1]octan-3-ol, exo	135-97-7	31.44	0.9400	2
14380	C8H12O4	diethyl maleate	141-05-9	-8.80	1.1588	2	14794	C8H15NO	8-methyl-8-azabicyclo[3.2.1]octan-3-ol, endo	120-29-6	100.00	1.0160	1
14382	C8H12O4	cis-2,2-dimethyl-1,3-cyclobutanedicarboxylic*	3211-48-1	23.50	1.0711	2	14795	C8H15NO	2-azacyclononanone	935-30-8	31.44	0.9400	2
14386	C8H12O4	tetrahydro-2,2-dimethyl-5-oxo-3-furanacetic *	26754-48-3	23.50	1.0711	2	14796	C8H15NO	cyclooctanone oxime	1074-51-7	31.44	0.9400	2
14387	C8H12O4	1,4-cyclohexanedicarboxylic acid	1076-97-7	23.50	1.0711	2	14806	C8H15NO2	trans-4-(aminomethyl)cyclohexanecarboxylic a*	1197-18-8	25.00	0.9748	2
14388	C8H12O4	1,2-cyclohexanedicarboxylic acid	2305-32-0	23.50	1.0711	2	14811	C8H15NO2	2,3-octanedione 3-oxime	584-92-9	25.00	0.9748	2
14395	C8H12O4	(-)-6b-hydroxymethyl-7a-hydroxy-cis-2-oxabic*	32233-40-2	23.50	1.0711	2	14812	C8H15NO2	N-tert-butylacetoacetamide	42222-06-0	25.00	0.9748	2
14399	C8H12O4	cis-1,2-cyclohexanedicarboxylic acid	610-09-3	23.50	1.0711	2	14813	C8H15NO2	tert-butyl N-allylcarbamate	78888-18-3	25.00	0.9380	1
14401	C8H12O5	2,3-O-isopropylidene-D-ribonic g-lactone	30725-00-9	22.50	1.1530	2	14821	C8H15NO2	1-piperidinepropionic acid	26371-07-3	25.00	0.9748	2
14413.1	C8H12S	3-ethyl-2,5-dimethylthiophene	55735-23-4	-78.15	1.3720	2	14828	C8H15NO2	oxanamide	126-93-2	25.00	0.9748	2
14426	C8H13N	1-butyl-1H-pyrrole	589-33-3	20.00	0.8747	1	14829	C8H15NO3	6-(acetylamino)hexanoic acid	57-08-9	25.00	1.0543	2
14427	C8H13N	3-ethyl-2,4-dimethyl-1H-pyrrole	517-22-6	20.00	0.9130	1	14830	C8H15NO3	N-acetyl-L-leucine	1188-21-2	25.00	1.0543	2
14429	C8H13N	2,3,4,5-tetramethyl-1H-pyrrole	1003-90-3	21.67	0.9098	2	14835	C8H15NO4	DL-a-aminosuberic acid	3054-07-7	25.00	1.1593	2
14433	C8H13N	2,5-diethyl-1H-pyrrole	766-95-0	21.67	0.9098	2	14836	C8H15NO4	boc-L-alanine	15761-38-3	25.00	1.1593	2
14435	C8H13NO	8-methyl-8-azabicyclo[3.2.1]octan-3-one	532-24-1	25.00	0.9420	2	14837	C8H15NO4	boc-D-alanine	7764-95-6	25.00	1.1593	2
14438	C8H13NO	N-vinylcaprolactam	2235-00-9	25.00	1.0290	1	14841	C8H15NO4	boc-sarcosine	13734-36-6	25.00	1.1593	2
14440	C8H13NO2	4-ethyl-4-methyl-2,6-piperidinedione	64-65-3	51.00	1.0462	2	14842	C8H15NO5	boc-D-serine	6368-20-3	25.00	1.1691	2
14441	C8H13NO2	scopoline	487-27-4	134.00	1.0891	1	14843	C8H15NO6	N-acetyl-D-galactosamine	14215-68-0	25.00	1.2212	2
14444	C8H13NO2	3-endo-aminobicyclo[2.2.1]heptane-2-endo-car*	---	51.00	1.0462	2	14847	C8H15N2O2	2,2,4,5,5-pentamethyl-3-imidazoline-3-oxide-*	18796-04-8	25.00	1.0509	2
14445	C8H13NO2	ethyl 2-amino-1-cyclopentene-1-carboxylate	7149-18-0	51.00	1.0462	2	14853	C8H15N3O7	streptozocin	18883-66-4	25.00	1.3584	2
14446	C8H13NO2	3-exo-aminobicyclo[2.2.1]heptane-2-exo-carbo*	88330-32-9	51.00	1.0462	2	14856	C8H15N5S	desmetryne	1014-69-3	25.00	1.1850	2
14447	C8H13NO2	(±)-exo-6-hydroxytropinone	5932-53-6	51.00	1.0462	2	14857	C8H15N7O2S3	famotidine	76824-35-6	25.00	1.4617	2
14448	C8H13NO2	methyl 2-amino-1-cyclohexene-1-carboxylate	56661-88-2	51.00	1.0462	2	14861	C8H16	propylcyclopentane	2040-96-2	-117.34	1.0256	2
14449	C8H13NO2	a-methyl-a-propylsuccinimide	1497-19-4	51.00	1.0462	2	14862	C8H16	isopropylcyclopentane	3875-51-2	-111.36	1.0189	2
14451	C8H13NO3	5,5-diethyldihydro-2H-1,3-oxazine-2,4(3H)-di*	702-54-5	25.00	1.1025	2	14863	C8H16	1-methyl-1-ethylcyclopentane	16747-50-5	-143.80	1.0604	2
14452	C8H13NO3	1-acetyl-4-piperidinecarboxylic acid	25503-90-6	25.00	1.1025	2	14877	C8H16	ethylcyclohexane	1678-91-7	-111.31	1.0335	2
14455	C8H13NO5	diethyl (formylamimo)malonate	6326-44-9	25.00	1.2203	2	14878	C8H16	1,1-dimethylcyclohexane	590-66-9	-33.49	0.9639	2
14460	C8H13N3O4S	tinidazole	19387-91-8	25.00	1.3369	2	14880	C8H16	cis-1,2-dimethylcyclohexane	2207-01-4	-49.99	0.9961	2
14484	C8H14	1-octyne	629-05-0	-79.60	0.9642	2	14881	C8H16	trans-1,2-dimethylcyclohexane	6876-23-9	-88.16	1.0010	2
14496	C8H14	2,5-dimethyl-1,5-hexadiene	627-58-7	-74.83	0.9565	2	14883	C8H16	cis-1,3-dimethylcyclohexane	638-04-0	-75.56	0.9830	2
14497	C8H14	2,5-dimethyl-2,4-hexadiene	764-13-6	13.65	0.8981	2	14884	C8H16	trans-1,3-dimethylcyclohexane	2207-03-6	-90.09	1.0189	2
14505	C8H14	cyclooctene	931-88-4	-59.00	1.0392	2	14886	C8H16	cis-1,4-dimethylcyclohexane	624-29-3	-87.43	1.0144	2
14506	C8H14	bicyclo[2.2.2]octane	280-33-1	23.31	0.7959	2	14887	C8H16	trans-1,4-dimethylcyclohexane	2207-04-7	-36.94	0.9449	2
14510	C8H14ClN5	atrazine	1912-24-9	25.00	1.2177	2	14888	C8H16	cyclooctane	292-64-8	0.00	0.8840	1
14512	C8H14Cl2N2O2	pyridoxamine dihydrochloride	524-36-7	25.00	1.2506	2	14890	C8H16	1-octene	111-66-0	-101.69	0.9392	2
14524	C8H14N2O2	(S)-3-tert-butyl-2,5-piperazinedione	65050-07-9	25.00	1.0744	2	14892	C8H16	cis-2-octene	7642-04-8	-100.20	0.9606	2
14525	C8H14N2O2	2,2,5,5-tetramethyl-2,5-dihydropyrazine-1,4-*	88571-73-7	25.00	1.0744	2	14893	C8H16	trans-2-octene	13389-42-9	-87.70	0.9370	2
14529	C8H14N2O4	3,6-bis(2-hydroxyethyl)-2,5-diketopiperazine	50975-79-6	25.00	1.1919	2	14894	C8H16	cis-3-octene	14850-22-7	-126.00	0.9684	2
14535	C8H14N3O2	4-hydroxyiminomethyl-2,2,5,5-tetramethyl-3-i*	52213-23-7	25.00	1.1325	2	14895	C8H16	trans-3-octene	14919-01-8	-110.00	0.9505	2
14538	C8H14N4OS	metribuzin	21087-64-9	20.00	1.3100	1	14897	C8H16	cis-4-octene	7642-15-1	-118.70	0.9617	2
14539	C8H14N4O5	glycylglycylglycylglycine	637-84-3	25.00	1.3399	2	14898	C8H16	trans-4-octene	14850-23-8	-93.78	0.9359	2
14542	C8H14O	cyclooctanone	502-49-8	20.00	0.9581	1	14899	C8H16	2-methyl-1-heptene	15870-10-7	-87.38	0.9415	2
14557	C8H14O	4,4-dimethylcyclohexanone	4255-62-3	20.00	0.9320	1	14903	C8H16	6-methyl-1-heptene	5026-76-6	-94.15	0.9325	2
14584	C8H14O	cyclooctene oxide	286-62-4	20.38	0.8840	2	14929	C8H16	2-ethyl-1-hexene	1632-16-2	-83.15	0.9437	2
14588	C8H14O	2-ethyl-2-hexenal	645-62-5	-26.15	1.1497	2	14932	C8H16	2,3-dimethyl-1-hexene	16746-86-4	-101.15	0.9505	2
14595	C8H14O	1-octyn-3-ol	818-72-4	25.00	0.8620	1	14979	C8H16	2,4,4-trimethyl-1-pentene	107-39-1	-93.45	0.9404	2
14599	C8H14O2	butyl methacrylate	97-88-1	-75.37	1.1404	2	14986	C8H16	2,4,4-trimethyl-2-pentene	107-40-4	-106.31	0.9583	2
14601	C8H14O2	isobutyl methacrylate	97-86-9	-48.15	1.1035	2	15001	C8H16ClNO	2-chloro-N,N-diisopropylacetamide	7403-66-9	25.00	1.0167	2
14604	C8H14O2	cyclohexaneacetic acid	5292-21-7	18.00	1.0423	1	15002	C8H16ClNO	2-chloro-N-hexylacetamide	5326-81-8	25.00	1.0167	2
14605	C8H14O2	cyclohexyl acetate	622-45-7	-83.15	1.2357	2	15006	C8H16Cl2	2,5-dichloro-2,5-dimethylhexane	6223-78-5	20.00	0.9543	1
14608	C8H14O2	2,7-octanedione	1626-09-1	22.03	0.9413	2	15027	C8H16N2O	1-hydroxy-2,2,4,5,5-pentamethyl-3-imidazoline	39753-73-6	25.00	0.9655	2
14609	C8H14O2	3,6-octanedione	2955-65-9	22.03	0.9413	2	15031	C8H16N2O2	4,5-octanedione dioxime	61050-68-8	25.00	1.0286	2
14612	C8H14O2	2,5-dimethyl-3-hexyne-2,5-diol	142-30-3	20.00	0.9470	1	15033	C8H16N2O2	1-hydroxy-2,2,4,5,5-pentamethyl-3-imidazolin*	18796-02-6	25.00	1.0286	2
14620	C8H14O2	3-hydroxy-2,2-dimethylhexanoic acid, beta-la*	90112-82-6	22.03	0.9413	2	15037	C8H16N2O2S2	4,4'-dithiodimorpholine	103-34-4	25.00	1.1904	2
14629	C8H14O2	3-cyclohexene-1,1-dimethanol	2160-94-3	22.03	0.9413	2	15038	C8H16N2O3	n6-acetyl-L-lysine	692-04-6	25.00	1.0877	2
14638	C8H14O2	1-methyl-1-cyclohexanecarboxylic acid	1123-25-7	22.03	0.9413	2	15039	C8H16N2O3	N-glycyl-DL-leucine	688-14-2	25.00	1.1810	1
14653	C8H14O2	isovaleric acid, allyl ester	2835-39-4	22.03	0.9413	2	15040	C8H16N2O3	N-glycylleucine	869-19-2	25.00	1.0877	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
15041	C8H16N2O3	N-leucylglycine	686-50-0	25.00	1.0877	2	15430	C8H18O	1-octanol	111-87-5	-15.50	0.9976	2
15042	C8H16N2O3	Na-acetyl-L-lysine	1946-82-3	25.00	1.0877	2	15431	C8H18O	2-octanol	123-96-6	-31.60	1.0041	2
15043	C8H16N2O3	DL-alanyl-DL-norvaline	2325-18-0	25.00	1.0877	2	15454	C8H18O	2-ethyl-1-hexanol	104-76-7	-70.00	1.0510	2
15044	C8H16N2O3	N-glycyl-L-isoleucine	19461-38-2	25.00	1.0877	2	15511	C8H18O	3,4,4-trimethyl-2-pentanol	10575-56-1	24.11	0.8179	2
15051	C8H16N2O4	ethylidene diurethan	539-71-9	25.00	1.1431	2	15520	C8H18O	2,2,3,3-tetramethyl-1-butanol	66576-24-7	24.11	0.8179	2
15052	C8H16N2O4	(+)-N,N,N',N'-tetramethyl-L-tartaramide	26549-65-5	25.00	1.1431	2	15527	C8H18O	dibutyl ether	142-96-1	-97.85	1.0067	2
15053	C8H16N2O4	(-)-N,N,N',N'-tetramethyl-D-tartaramide	63126-52-3	25.00	1.1431	2	15528	C8H18O	di-sec-butyl ether	6863-58-7	-100.00	1.0067	2
15055	C8H16N2O4S2	homocystine	870-93-9	25.00	1.2792	2	15529	C8H18O	di-tert-butyl ether	6163-66-2	-78.15	0.9911	2
15056	C8H16N2O4S2	penicillamine cysteine disulfide	18840-45-4	25.00	1.2792	2	15533	C8H18O	ethyl hexyl ether	5756-43-4	-93.15	1.0067	2
15058	C8H16N2O7	cycasin	14901-08-7	25.00	1.2901	2	15539	C8H18O	isobutyl ether	628-55-7	-100.00	1.0067	2
15062	C8H16O	2-ethylhexanal	123-05-7	-73.15	1.0526	2	15540	C8H18OS	dibutyl sulfoxide	2168-93-6	23.00	0.8317	1
15063	C8H16O	1-octanal	124-13-0	-27.15	1.0001	2	15544	C8H18O2	1,2-octanediol	1117-86-8	24.67	0.8946	2
15066	C8H16O	2-octanone	111-13-7	-20.30	0.9975	2	15547	C8H18O2	1,8-octanediol	629-41-4	24.67	0.8946	2
15084	C8H16O	cyclooctanol	696-71-9	20.00	0.9740	1	15548	C8H18O2	2,4-octanediol	90162-24-6	25.00	0.9180	1
15097	C8H16O	2,6-dimethylcyclohexanol	5337-72-4	25.00	0.9440	1	15549	C8H18O2	4,5-octanediol, (±)	22520-40-7	24.67	0.8946	2
15104	C8H16O	cis-1,3-dimethylcyclohexanol	15466-94-1	20.00	0.9022	1	15550	C8H18O2	3-methyl-2,4-heptanediol	6964-04-1	20.00	0.9280	1
15127	C8H16O	1-ethylcyclohexanol	1940-18-7	25.00	0.9227	1	15552	C8H18O2	2,5-dimethyl-2,5-hexanediol	110-03-2	20.00	0.8980	1
15135	C8H16O	1,2,2-trimethylcyclopentanol	1121-95-5	20.00	0.9101	1	15553	C8H18O2	2,2,4-trimethyl-1,4-pentanediol	80864-10-4	24.67	0.8946	2
15156	C8H16O2	octanoic acid	124-07-2	16.50	1.0264	1	15554	C8H18O2	2,2,4-trimethyl-1,3-pentanediol	144-19-4	51.75	0.9370	2
15157	C8H16O2	2-ethylhexanoic acid	149-57-5	-60.00	1.1292	2	15555	C8H18O2	2-butyl-2-methyl-1,3-propanediol	3121-83-3	50.00	0.9270	1
15159	C8H16O2	heptyl formate	112-23-2	-46.40	1.0931	2	15556	C8H18O2	di-t-butyl peroxide	110-05-4	-40.00	0.9914	2
15160	C8H16O2	hexyl acetate	142-92-7	-80.90	1.1191	2	15558	C8H18O2	ethylene glycol monohexyl ether	112-25-4	-45.10	1.1011	2
15175	C8H16O2	butyl butanoate	109-21-7	-92.00	1.1220	2	15561	C8H18O2	(3R,6R)-3,6-octanediol	129619-37-0	24.67	0.8946	2
15177	C8H16O2	isobutyl isobutyrate	97-85-8	-80.70	1.1162	2	15562	C8H18O2	(3S,6S)-3,6-octanediol	136705-66-3	24.67	0.8946	2
15183	C8H16O2	1,4-cyclohexanedimethanol	105-08-8	20.00	1.0200	1	15571	C8H18O2S	dibutyl sulfone	598-04-9	44.85	1.1589	2
15199	C8H16O2	trans-1,4-cyclohexanedimethanol	3236-48-4	25.00	1.0200	1	15572	C8H18O2S	di-tert-butylsulfone	1886-75-5	32.50	0.9971	2
15201	C8H16O2	cis-1,5-cyclooctanediol	23418-82-8	22.60	0.8924	2	15578	C8H18O3	diethylene glycol diethyl ether	112-36-7	-44.30	1.1275	2
15206	C8H16O2	2,2,4,4-tetramethyl-1,3-cyclobutanediol, iso*	3010-96-6	22.60	0.8924	2	15579	C8H18O3	diethylene glycol monobutyl ether	112-34-5	-68.00	1.1940	2
15216	C8H16O3	2-hydroxyoctanoic acid	617-73-2	23.75	0.9696	2	15587.1	C8H18O3	dipropylene glycol monoethyl ether	30025-38-8	-69.15	1.1748	2
15220	C8H16O3	2-butoxyethyl acetate	112-07-2	-63.50	1.1872	2	15591	C8H18O4	triethylene glycol dimethyl ether	112-49-2	-43.80	1.2405	2
15227	C8H16O3	8-hydroxyoctanoic acid	764-89-6	23.75	0.9696	2	15592	C8H18O4	triethylene glycol monoethyl ether	112-50-5	-18.60	1.2405	2
15232	C8H16O4	diethylene glycol ethyl ether acetate	112-15-2	-25.00	1.2300	2	15595	C8H18O4S	dibutyl sulfate	625-22-9	-79.70	1.2660	2
15236	C8H16O4	metaldehyde	108-62-3	25.00	1.0223	2	15597	C8H18O4S2	2,2-bis(ethylsulfonyl)butane	76-20-0	85.00	1.1990	1
15304	C8H17N2O	3-amino-2,2,5,5-tetramethyl-1-pyrrolidinyloxy	34272-83-8	25.00	0.9454	2	15598	C8H18O5	tetraethylene glycol	112-60-7	-5.00	1.3402	2
15311	C8H17NO	3-(dimethylamino)cyclohexanol	6890-03-5	25.00	0.9737	1	15602	C8H18S	octyl mercaptan	111-88-6	-49.20	1.0460	2
15313	C8H17NO	octanal oxime	929-55-5	32.75	0.8996	2	15604	C8H18S	tert-octyl mercaptan	141-59-3	-74.15	1.0724	2
15314	C8H17NO	octanamide	629-01-6	110.00	0.8450	1	15622	C8H18Si2	1,2-bis(trimethylsilyl)acetylene	14630-40-1	20.00	0.7700	1
15315	C8H17NO	trans-6-propyl-3-piperidinol, (3S)	140-55-6	32.75	0.8996	2	15631	C8H19N	octylamine	111-86-4	-0.40	0.9332	2
15316	C8H17NO	conhydrine	495-20-5	32.75	0.8996	2	15633	C8H19N	6-methyl-2-heptanamine, (±)	5984-58-7	25.00	0.7670	1
15325	C8H17NO	2-ethyl-3-methylvaleramide	4171-13-5	32.75	0.8996	2	15634	C8H19N	2-octanamine, (±)	44855-57-4	20.00	0.7744	1
15327	C8H17NO	2-propylvaleramide	2430-27-5	32.75	0.8996	2	15637	C8H19N	dibutylamine	111-92-2	-62.00	0.9603	2
15329	C8H17NO2	2-aminooctanoic acid, (±)	644-90-6	19.40	0.9217	2	15638	C8H19N	diisobutylamine	110-96-3	-70.00	0.9512	2
15334	C8H17NO2	omega-aminocaprylic acid	1002-57-9	19.40	0.9217	2	15663	C8H19NO2	N-tert-butyldiethanolamine	2160-93-2	25.00	0.9830	1
15335	C8H17NO2	DL-a-aminocaprylic acid	2187-07-7	19.40	0.9217	2	15665	C8H19N3O	triaza-12-crown-4	53835-21-5	25.00	0.9648	2
15336	C8H17NO2	3-amino-4-ethylhexanoic acid	204191-42-4	19.40	0.9217	2	15681	C8H20BrN	tetraethylammonium bromide	71-91-0	20.00	1.3970	1
15339	C8H17NO2	3-piperidino-1,2-propanediol	4847-93-2	19.40	0.9217	2	15682	C8H20BrNO4	tetrakis(2-hydroxyethyl)ammonium bromide	4328-04-5	25.00	1.2914	2
15342	C8H17NO3	(3S,4S)-(-)-statine	49642-07-1	25.00	1.0111	2	15683	C8H20ClN	tetraethylammonium chloride	56-34-8	25.00	1.0800	1
15343	C8H17NO3	1,4,7-trioxa-10-azacyclododecane	41775-76-2	25.00	1.0111	2	15690	C8H20IN	tetraethylammonium iodide	68-05-3	25.00	1.5590	1
15345	C8H17NO3S	CHES	103-47-9	25.00	1.0975	2	15694	C8H20N2	2,5-dimethyl-2,5-hexanediamine	23578-35-0	15.00	0.8485	1
15347	C8H17NO5	methyl 4-hydroxy-3-nitrobenzoate	99-42-3	25.00	1.1229	2	15695	C8H20N2	1,8-octanediamine	373-44-4	21.88	0.8089	2
15354	C8H18	octane	111-65-9	-56.77	0.8749	1	15696	C8H20N2	N,N,N',N'-tetramethyl-1,4-butanediamine	111-51-3	15.00	0.7942	1
15355	C8H18	2-methylheptane	592-27-8	-108.99	0.9253	2	15697	C8H20N2	N,N'-diisopropylethylenediamine	4013-94-9	25.00	0.7980	1
15356	C8H18	3-methylheptane	589-81-1	-120.55	0.9367	2	15698	C8H20N2	N,N'-dimethyl-1,6-hexanediamine	13093-04-4	25.00	0.8070	1
15357	C8H18	4-methylheptane	589-53-7	-120.95	0.9401	2	15699	C8H20N2	N-hexylethylenediamine	7261-70-3	25.00	0.8320	1
15358	C8H18	3-methyl-3-ethylpentane	1067-08-9	-90.87	0.9447	2	15700	C8H20N2	N,N,N',N'-tetramethyl-1,3-butanediamine	97-84-7	25.00	0.7870	1
15359	C8H18	3-ethylhexane	619-99-8	-114.95	0.9401	2	15701	C8H20N2	N,N,N'-triethylethylenediamine	105-04-4	25.00	0.8040	1
15360	C8H18	3-ethyl-2-methylpentane	609-26-7	-114.95	0.9470	2	15703	C8H20N2	N,N-diisopropyl ethylenediamine	121-05-1	21.88	0.8089	2
15361	C8H18	2,2-dimethylhexane	590-73-8	-121.18	0.9367	2	15704	C8H20N2	N'-isopropyl-N,N'-dimethyl-1,3-propane-diami*	63905-13-5	21.88	0.8089	2
15362	C8H18	2,3-dimethylhexane	584-94-1	-123.73	0.9367	2	15706	C8H20N2O	2-[(2-amino-2-methylpropyl)amino]-2-methyl-1*	72622-74-3	20.00	0.9360	1
15363	C8H18	2,4-dimethylhexane	589-43-5	-123.73	0.9367	2	15711	C8H20N2O3	tetraethylammonium nitrate	1941-26-0	25.00	1.0290	1
15364	C8H18	2,5-dimethylhexane	592-13-2	-91.15	0.9093	2	15712	C8H20N4	cyclen	294-90-6	25.00	0.9428	2
15365	C8H18	3,3-dimethylhexane	563-16-6	-126.10	0.9378	2	15727	C8H20O7P2	tetraethyl pyrophosphate	107-49-3	20.00	1.1847	1
15366	C8H18	3,4-dimethylhexane	583-48-2	-112.26	0.9367	2	15729	C8H20Pb	tetraethyl lead	78-00-2	-133.74	2.1445	2
15367	C8H18	2,2,3-trimethylpentane	564-02-3	-112.26	0.9413	2	15730	C8H20Si	tetraethylsilane	631-36-7	-82.50	0.9829	2
15368	C8H18	2,2,4-trimethylpentane	540-84-1	-107.38	0.9241	2	15733	C8H21NO	tetraethylammonium hydroxide	77-98-5	25.00	1.0230	1
15369	C8H18	2,3,3-trimethylpentane	560-21-4	-100.93	0.9481	2	15743	C8H22N4	1,2-bis(3-aminopropylamino)ethane	10563-26-5	25.00	0.9510	1
15370	C8H18	2,3,4-trimethylpentane	565-75-3	-109.20	0.9470	2	15747	C8H23N5	tetraethylenepentamine	112-57-2	-30.15	1.2097	2
15371	C8H18	2,2,3,3-tetramethylbutane	594-82-1	70.00	0.7905	1	15755	C8H24O2Si3	octamethyltrisiloxane	107-51-7	-86.00	1.0691	2
15374	C8H18BrNO2	acetyl-b-methylcholine bromide	333-31-3	25.00	1.2504	2	15756	C8H24O4Si4	octamethylcyclotetrasiloxane	556-67-2	-50.00	1.0600	1
15378	C8H18ClNO2	methacholine chloride	62-51-1	25.00	1.0333	2	15763	C8I4O3	4,5,6,7-tetraiodo-1,3-isobenzofurandione	632-80-4	25.00	3.1538	2
15379	C8H18ClP	di-tert-butylchlorophosphine	13716-10-4	25.00	0.9500	1	15769	C9Fe2O9	iron nonacarbonyl	15321-51-4	25.00	2.8500	1
15385	C8H18Cl2Sn	dibutyltin dichloride	683-18-1	25.00	1.3600	1	15771	C9HF17O2	heptadecafluorononanoic acid	375-95-1	25.00	1.7397	2
15393	C8H18INOS	S-propionylthiocholine iodide	1866-73-5	25.00	1.4391	2	15772	C9H2Cl6O3	1,4,5,6,7,7-hexachloro-5-norbornene-2,3-dica*	115-27-5	25.00	1.7300	1
15415	C8H18N2O2	1,4-bis(2-hydroxyethyl)piperazine	122-96-3	25.00	1.0295	2	15775	C9H3ClO4	trimellitic anhydride acid chloride	1204-28-0	25.00	1.5463	2
15417	C8H18N2O2	1,7-diaza-12-crown-4	294-92-8	25.00	1.0295	2	15777	C9H3Cl3O3	1,3,5-benzenetricarbonyl trichloride	4422-95-1	25.00	1.6095	2
15419	C8H18N2O2	2-methyl-2-nitrosopropane dimer	6841-96-9	25.00	1.0295	2	15784	C9H3F17O	2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecaf*	423-56-3	25.00	1.6660	2
15425	C8H18N2O3S	L-buthionine-(S,R)-sulfoximine	83730-53-4	25.00	1.1249	2	15787	C9H4Cl3IO	3-iodo-2-propynyl-2,4,5-trichlorophenyl ether	777-11-7	25.00	1.9350	2
15427	C8H18N2O4S	hepes	7365-45-9	25.00	1.1725	2	15788	C9H4Cl3NO2S	folpet	133-07-3	25.00	1.6148	2
15428	C8H18N2O4S	(methoxycarbonylsulfamoyl)triethylammoniumhy*	29684-56-8	25.00	1.1725	2	15791	C9H4Cl8O	1,3,4,5,6,8,8-octachloro-1,3,3a,4,7,7a-hexah*	297-78-9	25.00	1.6862	2
15429	C8H18N2O6S2	pipes	5625-37-6	25.00	1.3145	2	15797	C9H4F6O2	2,6-bis(trifluoromethyl)benzoic acid	24821-22-5	25.00	1.5045	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
15798	C9H4F6O2	2,4-bis(trifluoromethyl)benzoic acid	32890-87-2	25.00	1.5045	2	15910	C9H6N2O2	8-nitroquinoline	607-35-2	25.00	1.2190	2
15799	C9H4F6O2	3,5-bis(trifluoromethyl)benzoic acid	725-89-3	25.00	1.5045	2	15911	C9H6N2O2	5-nitroso-8-quinolinol	3565-26-2	25.00	1.2190	2
15800	C9H4F16O	2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluo*	376-18-1	25.00	1.6319	2	15912	C9H6N2O2	tolylene 2,5-diisocyanate	614-90-4	25.00	1.2190	2
15801	C9H4N4O4	CNQX	115066-14-3	25.00	1.6526	2	15914	C9H6N2O2	2-nitroquinoline	18714-34-6	25.00	1.2190	2
15803	C9H4O5	trimellitic anhydride	552-30-7	20.00	1.5500	2	15917	C9H6N2O3	4-nitroquinoline 1-oxide	56-57-5	25.00	1.4046	2
15805	C9H5BrN2O2	6-bromo-5-nitroquinoline	98203-04-4	25.00	1.7439	2	15918	C9H6N2O3	5-nitro-8-quinolinol	4008-48-4	25.00	1.4046	2
15808	C9H5Br2NO	5,7-dibromo-8-quinolinol	521-74-4	25.00	1.9533	2	15919	C9H6N2O3	3-hydroxy-2-quinoxalinecarboxylic acid	1204-75-7	25.00	1.4046	2
15810	C9H5ClF6	3,5-bis(trifluoromethyl)benzyl chloride	75462-59-8	25.00	1.4425	2	15920	C9H6N2O4	7-nitroindole-2-carboxylic acid	6960-45-8	25.00	1.4621	2
15811	C9H5ClINO	5-chloro-7-iodo-8-quinolinol	130-26-7	25.00	1.8959	2	15923	C9H6OS	thianaphthene-3-carboxaldehyde	5381-20-4	25.00	1.2362	2
15814	C9H5ClN2O3	5-chloro-4-nitroquinoline-1-oxide	14076-19-8	25.00	1.5169	2	15924	C9H6OS2	di-2-thienylmethanone	704-38-1	25.00	1.3236	2
15815	C9H5ClN2O3	6-chloro-4-nitroquinoline-1-oxide	3741-12-6	25.00	1.5169	2	15925	C9H6O2	1H-2-benzopyran-1-one	491-31-6	21.50	1.2003	2
15817	C9H5ClN4	carbonyl cyanide 3-chlorophenylhydrazone	555-60-2	25.00	1.4645	2	15926	C9H6O2	2H-1-benzopyran-2-one	91-64-5	20.00	0.9350	1
15818	C9H5ClO6	2-chloro-1,3,5-benzenetricarboxylic acid	56961-24-1	25.00	1.5636	2	15927	C9H6O2	4H-1-benzopyran-4-one	491-38-3	20.00	1.2900	1
15821	C9H5Cl2N	2,4-dichloroquinoline	703-61-7	25.00	1.3737	2	15928	C9H6O2	1H-indene-1,3(2H)-dione	606-23-5	21.00	1.3700	1
15822	C9H5Cl2N	2,7-dichloroquinoline	613-77-4	25.00	1.3737	2	15930	C9H6O2	phenylpropiolic acid	637-44-5	21.50	1.2003	2
15823	C9H5Cl2N	4,5-dichloroquinoline	21617-18-5	25.00	1.3737	2	15931	C9H6O2S	benzo[b]thiophene-2-carboxylic acid	6314-28-9	25.00	1.3024	2
15824	C9H5Cl2N	4,7-dichloroquinoline	86-98-6	25.00	1.3737	2	15933	C9H6O3	2-benzofurancarboxylic acid	496-41-3	25.00	1.2778	2
15825	C9H5Cl2N	5,8-dichloroquinoline	703-32-2	25.00	1.3737	2	15934	C9H6O3	6-hydroxy-2H-1-benzopyran-2-one	6093-68-1	25.00	1.2500	1
15826	C9H5Cl2NO	5,7-dichloro-8-quinolinol	773-76-2	25.00	1.4291	2	15935	C9H6O3	7-hydroxy-2H-1-benzopyran-2-one	93-35-6	25.00	1.2778	2
15827	C9H5Cl3N4	anilazine	101-05-3	20.00	1.8000	1	15936	C9H6O3	2-oxo-2H-1-benzopyran-3-carboxylic acid	531-81-7	25.00	1.2778	2
15831	C9H5I2NO	5,7-diiodo-8-quinolinol	83-73-8	25.00	2.3013	2	15937	C9H6O3	homophthalic anhydride	703-59-3	25.00	1.2778	2
15834	C9H5NO4	6-nitrocoumarin	2725-81-7	25.00	1.4454	2	15938	C9H6O3	4-hydroxycoumarin	1076-38-6	25.00	1.2778	2
15835	C9H5N3O2	ODQ	41443-28-1	25.00	1.4451	2	15939	C9H6O3	4-methylphthalic anhydride	19438-61-0	25.00	1.2778	2
15838	C9H6BrFO2	5-bromo-2-fluorocinnamic acid	202865-71-	25.00	1.6228	2	15940	C9H6O3	3-methylphthalic anhydride	4792-30-7	25.00	1.2778	2
15839	C9H6BrFO2	4-bromo-2-fluorocinnamic acid	149947-19-3	25.00	1.6228	2	15941	C9H6O3NCIS	benazolin	3813-05-6	25.00	1.4868	2
15840	C9H6BrFO2	3-bromo-4-fluorocinnamic acid	160434-49-1	25.00	1.6228	2	15942	C9H6O4	6,7-dihydroxy-2H-1-benzopyran-2-one	305-01-1	25.00	1.3444	2
15841	C9H6BrN	4-bromoisoquinoline	1532-97-4	25.00	1.5511	2	15943	C9H6O4	7,8-dihydroxy-2H-1-benzopyran-2-one	486-35-1	25.00	1.3444	2
15843	C9H6BrN	5-bromoquinoline	4964-71-0	25.00	1.5511	2	15944	C9H6O4	2,2-dihydroxy-1H-indene-1,3(2H)-dione	485-47-2	25.00	1.3444	2
15845	C9H6BrN	7-bromoquinoline	4965-36-0	25.00	1.5511	2	15945	C9H6O6	1,2,3-benzenetricarboxylic acid	569-51-7	20.00	1.5460	1
15847	C9H6BrNO	5-bromo-8-quinolinol	1198-14-7	25.00	1.6032	2	15946	C9H6O6	1,2,4-benzenetricarboxylic acid	528-44-9	238.00	1.5800	2
15848	C9H6BrNO	4-bromo-2(1H)-quinolinone	938-39-6	25.00	1.6032	2	15947	C9H6O6	1,3,5-benzenetricarboxylic acid	554-95-0	25.00	1.4620	2
15849	C9H6BrNO2	N-(bromomethyl)phthalimide	5332-26-3	25.00	1.6514	2	15949	C9H7BrN2	6-amino-3-bromoquinoline	7101-96-4	25.00	1.5611	2
15850	C9H6Br2O2	cis-2,3-dibromo-3-phenyl-2-propenoic acid	708-82-7	25.00	1.9007	2	15950	C9H7BrN2	3-bromo-4-quinolinamine	36825-36-2	25.00	1.5611	2
15851	C9H6ClFO2	4-chloro-2-fluorocinnamic acid	202982-65-8	25.00	1.3522	2	15952	C9H7BrO	a-bromocinnamaldehyde	5443-49-2	25.00	1.5074	2
15852	C9H6ClFO2	2-chloro-4-fluorocinnamic acid	133220-86-7	25.00	1.3522	2	15953	C9H7BrO	2-bromo-1-indanone	1775-27-5	25.00	1.5074	2
15853	C9H6ClN	1-chloroisoquinoline	19493-44-8	30.50	1.2492	2	15954	C9H7BrO	5-bromo-1-indanone	34598-49-7	25.00	1.5074	2
15854	C9H6ClN	2-chloroquinoline	612-62-4	25.00	1.2464	1	15955	C9H7BrO2	4-bromocinnamic acid	50663-21-3	25.00	1.5592	2
15855	C9H6ClN	4-chloroquinoline	611-35-8	25.00	1.2510	1	15956	C9H7BrO2	3-bromocinnamic acid, predominantly trans	32862-97-8	25.00	1.5592	2
15856	C9H6ClN	5-chloroquinoline	635-27-8	30.50	1.2492	2	15957	C9H7BrO4	2-(acetyloxy)-5-bromobenzoic acid	1503-53-3	25.00	1.6515	2
15857	C9H6ClN	6-chloroquinoline	612-57-7	30.50	1.2492	2	15958	C9H7ClN2	3-(4-chlorophenyl)pyrazole	59843-58-2	25.00	1.2737	2
15858	C9H6ClN	7-chloroquinoline	612-61-3	58.00	1.2158	1	15964	C9H7ClO	3-phenyl-2-propenoyl chloride	102-92-1	45.00	1.1617	1
15860	C9H6ClNO	5-chloro-8-quinolinol	130-16-5	25.00	1.3100	2	15965	C9H7ClO	trans-3-phenyl-2-propenoyl chloride	17082-09-6	45.00	1.1617	1
15861	C9H6ClNO	2-chlorobenzoylacetonitrile	40018-25-5	25.00	1.3100	2	15966	C9H7ClO	a-chlorocinnamaldehyde	18365-42-9	45.00	1.1617	2
15862	C9H6ClNO	4-chlorobenzoylacetonitrile	4640-66-8	25.00	1.3100	2	15967	C9H7ClO	5-chloro-1-indanone	42348-86-7	45.00	1.1617	2
15864	C9H6ClNO2	5-chloroindole-2-carboxylic acid	10517-21-2	25.00	1.3706	2	15968	C9H7ClO2	trans-o-chlorocinnamic acid	939-58-2	25.00	1.2772	2
15865	C9H6ClNO2	N-(chloromethyl)phthalimide	17564-64-6	25.00	1.3706	2	15969	C9H7ClO2	trans-m-chlorocinnamic acid	14473-90-6	25.00	1.2772	2
15867	C9H6ClNO4	trans-4-chloro-3-nitrocinnamic acid	20797-48-2	25.00	1.4785	2	15970	C9H7ClO2	trans-p-chlorocinnamic acid	940-62-5	25.00	1.2772	2
15868	C9H6ClNO4	2-chloro-5-nitrocinnamic acid	36015-19-7	25.00	1.4785	2	15971	C9H7ClO2	4-chlorocinnamic acid, predominantly trans	1615-02-7	25.00	1.2772	2
15869	C9H6ClNO4	2-(4-chloro-2-nitrophenyl)malondialdehyde	205744-82-7	25.00	1.4785	2	15972	C9H7ClO2	2-chlorocinnamic acid, predominantly trans	3752-25-8	25.00	1.2772	2
15870	C9H6ClO2	2,6-dichlorocinnamic acid	5345-89-1	25.00	1.3115	2	15973	C9H7ClO2	2-(4-chlorophenyl)malondialdehyde	205676-17-1	25.00	1.2772	2
15871	C9H6Cl2N2O	2-chloromethyl-5-(4-chlorophenyl)-1,2,4-oxad*	24068-15-3	25.00	1.4449	2	15974	C9H7ClO3	o-acetylsalicyloyl chloride	5538-51-2	25.00	1.3366	2
15873	C9H6Cl2N2O3	methazole	20354-26-1	25.00	1.2400	1	15976	C9H7ClO3	methyl 4-chlorocarbonylbenzoate	7377-26-6	25.00	1.3366	2
15874	C9H6Cl2O2	trans-2,4-dichlorocinnamic acid	1201-99-6	25.00	1.3944	2	15977	C9H7Cl3O3	silvex	93-72-1	25.00	1.4730	2
15877	C9H6Cl6O3S	endosulfan	115-29-7	20.00	1.7450	1	15978	C9H7Cl3O3	2,4,5-T methyl ester	1928-37-6	25.00	1.4730	2
15879	C9H6Cl6O4S	endosulfan sulfate	1031-07-8	25.00	1.6835	2	15982	C9H7FO	5-fluoro-1-indanone	700-84-5	25.00	1.2160	1
15880	C9H6Cl8	1,2,3,4,7,7-hexachloro-5,6-bis(chloromethyl)*	2550-75-6	25.00	1.6066	2	15983	C9H7FO2	2-fluoro-3-phenyl-2-propenoic acid	350-90-3	25.00	1.2247	2
15882	C9H6FNO2	5-fluoroindole-2-carboxylic acid	399-76-8	25.00	1.3231	2	15984	C9H7FO2	6-fluoro-4-chromanone	66892-34-0	25.00	1.2247	2
15883	C9H6F2O2	trans-2,6-difluorocinnamic acid	102082-89-3	25.00	1.3056	2	15985	C9H7FO2	trans-3-fluorocinnamic acid	20595-30-6	25.00	1.2247	2
15884	C9H6F2O2	trans-3,4-difluorocinnamic acid	112897-97-9	25.00	1.3056	2	15986	C9H7FO2	2-fluorocinnamic acid	451-69-4	25.00	1.2247	2
15885	C9H6F2O2	trans-2,5-difluorocinnamic acid	112898-33-6	25.00	1.3056	2	15987	C9H7FO2	3-fluorocinnamic acid	458-46-8	25.00	1.2247	2
15886	C9H6F2O2	3,5-difluorocinnamic acid	84315-23-1	25.00	1.3056	2	15988	C9H7FO2	4-fluorocinnamic acid	459-32-5	25.00	1.2247	2
15887	C9H6F2O2	trans-2,4-difluorocinnamic acid	94977-52-3	25.00	1.3056	2	15996	C9H7F3O	4'-(trifluoromethyl)acetophenone	709-63-7	25.00	1.2360	2
15888	C9H6F3N	4-(trifluoromethyl)phenylacetonitrile	2338-75-2	25.00	1.2863	2	16002	C9H7F3O2	(a,a,a-trifluoro-o-tolyl)acetic acid	3038-48-0	25.00	1.2815	2
15890	C9H6F3N	2-(trifluoromethyl)phenylacetonitrile	3038-47-9	25.00	1.2863	2	16003	C9H7F3O2	(a,a,a-trifluoro-p-tolyl)acetic acid	32857-62-8	25.00	1.2815	2
15891	C9H6F6O	3,5-bis(trifluoromethyl)benzyl alcohol	32707-89-4	25.00	1.3954	2	16004	C9H7F3O3	4-(trifluoromethyl)mandelic acid	395-35-7	25.00	1.3670	2
15893	C9H6IN	4-iodoquinoline	16560-43-3	25.00	1.7856	2	16006	C9H7F6N	3,5-bis(trifluoromethyl)benzylamine	85068-29-7	25.00	1.3653	2
15894	C9H6IN	6-iodoquinoline	13327-31-6	25.00	1.7856	2	16010	C9H7N	isoquinoline	119-65-3	26.47	1.2787	2
15895	C9H6INO4S	8-hydroxy-7-iodo-5-quinolinesulfonic acid	547-91-1	25.00	1.9414	2	16011	C9H7N	quinoline	91-22-5	-14.78	1.3045	2
15897	C9H6N2	phenylpropanedinitrile	3041-40-5	25.00	1.1993	2	16018	C9H7NO	8-hydroxyquinoline	148-24-3	25.00	1.5701	2
15898	C9H6N2	5-cyanoindole	15861-24-2	25.00	1.1993	2	16019	C9H7NO	7-isoquinolinol	7651-83-4	25.00	1.1668	2
15899	C9H6N2	3-cyanoindole	5457-28-3	25.00	1.1993	2	16020	C9H7NO	beta-oxobenzenepropanenitrile	614-16-4	25.00	1.1668	2
15900	C9H6N2	2,6-dicyanotoluene	2317-22-8	25.00	1.1993	2	16021	C9H7NO	2-hydroxyquinoline	59-31-4	25.00	1.1668	2
15901	C9H6N2	4-methylphthalonitrile	63089-50-9	25.00	1.1993	2	16022	C9H7NO	3-quinolinol	580-18-7	25.00	1.1668	2
15902	C9H6N2OS	2-cyano-6-methoxybenzothiazole	943-03-3	25.00	1.3615	2	16023	C9H7NO	5-quinolinol	578-67-6	25.00	1.1668	2
15903	C9H6N2O2	toluene diisocyanate	584-84-9	13.89	1.4351	2	16024	C9H7NO	6-quinolinol	580-16-5	25.00	1.1668	2
15904	C9H6N2O2	5-nitroisoquinoline	607-32-9	25.00	1.2190	2	16025	C9H7NO	7-quinolinol	580-20-1	25.00	1.1668	2
15905	C9H6N2O2	5-nitroquinoline	607-34-1	25.00	1.2190	2	16026	C9H7NO	4-acetylbenzonitrile	1443-80-7	25.00	1.1668	2
15906	C9H6N2O2	6-nitroquinoline	613-50-3	25.00	1.2190	2	16027	C9H7NO	3-acetylbenzonitrile	6136-68-1	25.00	1.1668	2
15907	C9H6N2O2	7-nitroquinoline	613-51-4	25.00	1.2190	2	16030	C9H7NO	4-hydroxyquinoline	611-36-9	25.00	1.1668	2
15908	C9H6N2O2	toluene-2,6-diisocyanate	91-08-7	18.30	1.4351	2	16031	C9H7NO	indole-3-carboxaldehyde	487-89-8	25.00	1.1668	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
16032	C9H7NO	isoquinoline-N-oxide	1532-72-5	25.00	1.1668	2	16179	C9H8N4OS	thidiazuron	51707-55-2	25.00	1.4009	2
16033	C9H7NO	5-phenyloxazole	1006-68-4	25.00	1.1668	2	16185	C9H8O	2-methylbenzofuran	4265-25-2	0.00	1.2370	2
16036	C9H7NO2	2-methyl-1H-isoindole-1,3(2H)-dione	550-44-7	25.00	1.1330	2	16188	C9H8O	7-methylbenzofuran	17059-52-8	19.00	1.0490	1
16038	C9H7NO2	3-acetylphenyl isocyanate	23138-64-9	25.00	1.1740	1	16193	C9H8O	1,3-dihydro-2H-inden-2-one	615-13-4	69.00	1.0712	1
16039	C9H7NO2	4-acetylphenyl isocyanate	49647-20-3	25.00	1.1330	2	16194	C9H8O	2,3-dihydro-1H-inden-1-one	83-33-0	40.00	1.0943	1
16041	C9H7NO2	8-hydroxyquinoline-N-oxide	1127-45-3	25.00	1.1330	2	16196	C9H8O	4-ethynylanisole	768-60-5	25.00	1.0190	1
16042	C9H7NO2	indole-2-carboxylic acid	1477-50-5	25.00	1.1330	2	16201	C9H8OS	2,3-dihydro-4H-1-benzothiopyran-4-one	3528-17-4	14.00	1.2487	1
16043	C9H7NO2	indole-5-carboxylic acid	1670-81-1	25.00	1.1330	2	16202	C9H8O2	2-benzofuranmethanol	55038-01-2	20.00	1.2030	1
16044	C9H7NO2	indole-6-carboxylic acid	1670-82-2	25.00	1.1330	2	16203	C9H8O2	cis-cinnamic acid	102-94-3	27.11	1.1523	2
16045	C9H7NO2	indole-3-carboxylic acid	771-50-6	25.00	1.1330	2	16204	C9H8O2	trans-cinnamic acid	140-10-3	4.00	1.2475	2
16046	C9H7NO2	1,5-isoquinolinediol	5154-02-9	25.00	1.1330	2	16206	C9H8O2	2,3-dihydro-4H-1-benzopyran-4-one	491-37-2	100.00	1.1291	1
16047	C9H7NO2	methyl 4-cyanobenzoate	1129-35-7	25.00	1.1330	2	16209	C9H8O2	alpha-methylenebenezeneacetic acid	492-38-6	27.11	1.1523	2
16048	C9H7NO2	1-methylisatin	2058-74-4	25.00	1.1330	2	16212	C9H8O2	cinnamic acid	621-82-9	27.11	1.1523	2
16049	C9H7NO2	3-phenyl-5-isoxazolone	1076-59-1	25.00	1.1330	2	16214	C9H8O2	4-vinylbenzoic acid	1075-49-6	27.11	1.1523	2
16050	C9H7NO2	2,4-quinolinediol	86-95-3	25.00	1.1330	2	16215	C9H8O3	2-acetylbenzoic acid	577-56-0	25.00	1.2467	2
16058	C9H7NO3	5-hydroxy-2-indolecarboxylic acid	21598-06-1	25.00	1.3061	2	16216	C9H8O3	3-acetylbenzoic acid	586-42-5	25.00	1.2467	2
16059	C9H7NO3	N-(hydroxymethyl)phthalimide	118-29-6	25.00	1.3061	2	16217	C9H8O3	4-acetylbenzoic acid	586-89-0	25.00	1.2467	2
16060	C9H7NO3	N-methylisatoic anhydride	10328-92-4	25.00	1.3061	2	16218	C9H8O3	carbic anhydride	129-64-6	25.00	1.4170	1
16061	C9H7NO3	methyl 2-isocyanatobenzoate	1793-07-3	25.00	1.3061	2	16219	C9H8O3	3-(4-hydroxyphenyl)-2-propenoic acid	7400-08-0	25.00	1.2467	2
16062	C9H7NO3	o-nitrocinnamaldehyde	1466-88-2	25.00	1.3061	2	16221	C9H8O3	1,4-benzodioxan-6-carboxaldehyde	29668-44-8	25.00	1.2467	2
16063	C9H7NO3	4-nitrocinnamaldehyde	1734-79-8	25.00	1.3061	2	16222	C9H8O3	2,6-diformyl-4-methylphenol	7310-95-4	25.00	1.2467	2
16064	C9H7NO3S	5-isoquinolinesulfonic acid	27655-40-9	25.00	1.3837	2	16223	C9H8O3	p-hydroxycinnamic acid, predominantly trans	501-98-4	25.00	1.2467	2
16065	C9H7NO4	trans-3-(2-nitrophenyl)-2-propenoic acid	1013-96-3	25.00	1.3674	2	16224	C9H8O3	m-hydroxycinnamic acid, predominantly trans	14755-02-3	25.00	1.2467	2
16068	C9H7NO4	m-nitrocinnamic acid, predominantly trans	555-68-0	25.00	1.3674	2	16225	C9H8O3	o-hydroxycinnamic acid, predominantly trans	614-60-8	25.00	1.2467	2
16069	C9H7NO4	o-nitrocinnamic acid, predominantly trans	612-41-9	25.00	1.3674	2	16227	C9H8O3	3,4-methylenedioxyacetophenone	3162-29-6	25.00	1.2467	2
16070	C9H7NO4	p-nitrocinnamic acid, predominantly trans	619-89-6	25.00	1.3674	2	16228	C9H8O3	methyl 4-formylbenzoate	1571-08-0	25.00	1.2467	2
16071	C9H7NO4	2-(2-nitrophenyl)malondialdehyde	53868-44-3	25.00	1.3674	2	16232	C9H8O4	acetyl benzoylperoxide	644-31-5	25.00	1.2731	2
16074	C9H7NO4S	8-hydroxy-5-quinolinesulfonic acid	84-88-8	25.00	1.4362	2	16233	C9H8O4	2-(acetyloxy)benzoic acid	50-78-2	30.00	1.3932	1
16075	C9H7NO6	mono-methyl 5-nitroisophthalate	1955-46-0	25.00	1.4765	2	16234	C9H8O4	3-(3,4-dihydroxyphenyl)-2-propenoic acid	331-39-5	25.00	1.2731	2
16077	C9H7N3	2-(cyanomethyl)benzimidazole	4414-88-4	25.00	1.2348	2	16235	C9H8O4	methyl 1,3-benzodioxole-5-carboxylate	326-56-7	25.00	1.2731	2
16078	C9H7N3O2	5-amino-6-nitroquinoline	35975-00-9	25.00	1.3656	2	16236	C9H8O4	4-formylphenoxyacetic acid	22042-71-3	25.00	1.2731	2
16085	C9H7N3O4S2	2-amino-5-(4-nitrophenylsulfonyl)-thiazole	39565-05-4	25.00	1.5773	2	16237	C9H8O4	2-formylphenoxyacetic acid	6280-80-4	25.00	1.2731	2
16086	C9H7N3S	tricyclazole	41814-78-2	25.00	1.3247	2	16238	C9H8O4	4-hydroxyphenylpyruvic acid	156-39-8	25.00	1.2731	2
16087	C9H7N5O3	furalazin	556-12-7	25.00	1.5278	2	16239	C9H8O4	3,4-(methylenedioxy)phenylacetic acid	2861-28-1	25.00	1.2731	2
16089	C9H7N7O2S	azathioprine	446-86-6	25.00	1.6207	2	16240	C9H8O4	4-methylphthalic acid	4316-23-8	25.00	1.2731	2
16090	C9H8	indene	95-13-6	-1.45	1.1849	2	16241	C9H8O4	mono-methyl terephthlate	1679-64-7	25.00	1.2731	2
16095	C9H8BrClO	4'-bromo-3-chloropropiophenone	31736-73-9	25.00	1.5306	2	16242	C9H8O4	phenylmalonic acid	2613-89-0	25.00	1.2731	2
16097	C9H8BrFO	3'-bromo-4'-fluoropropiophenone	4286-55-9	25.00	1.4965	2	16243	C9H8O4	4-(acetyloxy)benzoic acid	2345-34-8	25.00	1.2731	2
16098	C9H8BrNO3	2-acetamido-5-bromobenzoic acid	38985-79-4	25.00	1.6130	2	16246.1	C9H8S	2-methyl benzothiophene	1195-14-8	51.50	1.2733	1
16099	C9H8BrN3	3-amino-4-bromo-5-phenylpyrazole	2845-78-5	25.00	1.5700	2	16249	C9H9Br	(3-bromo-1-propenyl)benzene	4392-24-9	30.00	1.3428	1
16100	C9H8Br2	1,2-dibromo-2,3-dihydro-1H-indene	20357-79-3	25.00	1.7470	1	16250	C9H9Br	1-bromo-4-(1-propenyl)benzene	4489-23-0	36.00	1.3320	1
16102	C9H8ClFO	3-chloro-4'-fluoropropiophenone	347-93-3	25.00	1.2298	2	16251	C9H9BrO	2-bromo-1-(4-methylphenyl)ethanone	619-41-0	25.00	1.4298	2
16106	C9H8ClN	5-chloro-2-methylindole	1075-35-0	25.00	1.1788	2	16252	C9H9BrO	1-(4-bromophenyl)-1-propanone	10342-83-3	25.00	1.4298	2
16107	C9H8Cl2	(3,3-dichloroallyl)benzene	38862-78-1	20.00	1.2028	1	16254	C9H9BrO	2-bromo-1-indanol	5400-80-6	25.00	1.4298	2
16114	C9H8Cl2O	3,4'-dichloropropiophenone	3946-29-0	25.00	1.2767	2	16258	C9H9BrO	3'-bromopropiophenone	19829-31-3	25.00	1.4298	2
16115	C9H8Cl2O	3',4'-dichloropropiophenone	6582-42-9	25.00	1.2767	2	16259	C9H9BrO2	alpha-bromobenzenepropanoic acid	16503-53-0	25.00	1.4790	1
16120	C9H8Cl2O2S	2,2-dichlorocyclopropyl phenyl sulfone	38435-04-0	25.00	1.3934	2	16266	C9H9BrO2	2-bromo-4'-methoxyacetophenone	2632-13-5	21.57	1.4560	2
16121	C9H8Cl2O3	2-(2,4-dichlorophenoxy)propanoic acid	120-36-5	25.00	1.3804	2	16267	C9H9BrO2	2-bromo-2'-methoxyacetophenone	31949-21-0	21.57	1.4560	2
16123	C9H8Cl2O3	methyl (2,4-dichlorophenoxy)acetate	1928-38-7	25.00	1.3804	2	16268	C9H9BrO2	2-bromo-3'-methoxyacetophenone	5000-65-7	21.57	1.4560	2
16124	C9H8Cl2O3	ethyl 3,5-dichloro-4-hydroxybenzoate, hydrate	17302-82-8	25.00	1.3804	2	16270	C9H9BrO2	methyl 4-(bromomethyl)benzoate	2417-72-3	21.57	1.4560	2
16128	C9H8Cl3NO2S	captan	133-06-2	25.00	1.7400	1	16274	C9H9BrO3	6-bromoveratraldehyde	5392-10-9	25.00	1.5293	2
16131	C9H8F3NO	3-acetamidobenzotrifluoride	351-36-0	25.00	1.2812	2	16275	C9H9Br2NO3	3,5-dibromo-L-tyrosine	300-38-9	25.00	1.8388	2
16136	C9H8NO3S	8-quinolinol sulfate (2:1)	134-31-6	25.00	1.3501	2	16289	C9H9ClO	4-chloro-2-allylphenol	13997-73-4	15.00	1.1710	1
16137	C9H8N2	1-isoquinolinamine	1532-84-9	21.25	1.1148	2	16290	C9H9ClO	7-chloro-2,3-dihydro-1H-inden-4-ol	145-94-8	18.00	1.1584	2
16138	C9H8N2	5-isoquinolinamine	1125-60-6	21.25	1.1148	2	16291	C9H9ClO	2-(chloromethyl)-2,3-dihydrobenzofuran	53491-32-0	7.00	1.2183	1
16139	C9H8N2	2-quinolinamine	580-22-3	21.25	1.1148	2	16292	C9H9ClO	2-chloro-1-(4-methylphenyl)ethanone	4209-24-9	18.00	1.1584	2
16140	C9H8N2	3-quinolinamine	580-17-6	21.25	1.1148	2	16293	C9H9ClO	1-(4-chlorophenyl)-1-propanone	6285-05-8	18.00	1.1584	2
16141	C9H8N2	4-quinolinamine	578-68-7	21.25	1.1148	2	16297	C9H9ClO	3'-chloropropiophenone	34841-35-5	18.00	1.1584	2
16142	C9H8N2	5-quinolinamine	611-34-7	21.25	1.1148	2	16298	C9H9ClO	3-chloropropiophenone	936-59-4	18.00	1.1584	2
16143	C9H8N2	6-quinolinamine	580-15-4	21.25	1.1148	2	16302	C9H9ClO2	2-chloroethyl benzoate	939-55-9	20.00	1.1789	1
16144	C9H8N2	8-quinolinamine	578-66-5	21.25	1.1148	2	16309	C9H9ClO2	4-methylphenyl chloroacetate	15150-39-7	35.00	1.1840	1
16145	C9H8N2	2-methylquinoxaline	7251-61-8	21.25	1.1148	2	16312	C9H9ClO2	2-(chloromethyl)phenyl acetate	15068-08-3	25.00	1.2000	1
16146	C9H8N2	6-methylquinoxaline	6344-72-5	20.00	1.1164	1	16314	C9H9ClO2	4-methoxyphenacyl chloride	2196-99-8	20.27	1.1902	2
16148	C9H8N2	2-phenyl-1H-imidazole	670-96-2	21.25	1.1148	2	16323	C9H9ClO3	2-chloro-1-(4-hydroxy-3-methoxyphenyl)ethano*	6344-28-1	25.00	1.2730	2
16150	C9H8N2	4-phenylimidazole	670-95-1	21.25	1.1148	2	16324	C9H9ClO3	(4-chloro-2-methylphenoxy)acetic acid	94-74-6	25.00	1.2730	2
16152	C9H8N2	3-phenylpyrazole	2458-26-6	21.25	1.1148	2	16327	C9H9ClO3	2-(2-chlorophenoxy)propionic acid	25140-86-7	25.00	1.2730	2
16155	C9H8N2O	6-methoxyquinoxaline	6639-82-3	25.00	1.2028	2	16328	C9H9ClO3	3,5-dimethoxybenzoyl chloride	17213-57-9	25.00	1.2730	2
16156	C9H8N2O	2-cyanoacetanilide	621-03-4	25.00	1.2028	2	16329	C9H9ClO3	3,4-dimethoxybenzoyl chloride	3535-37-3	25.00	1.2730	2
16157	C9H8N2O	4-(imidazol-1-yl)phenol	10041-02-8	25.00	1.2028	2	16331	C9H9Cl2NO	propanil	709-98-8	25.00	1.2500	1
16158	C9H8N2O	1-methyl-2-formylbenzimidazole	3012-80-4	25.00	1.2028	2	16334	C9H9Cl2N3	2-(2,6-dichlorophenylamino)-2-imidazoline	4205-90-7	25.00	1.3480	2
16159	C9H8N2O	3-methyl-2-quinoxalinol	14003-34-0	25.00	1.2028	2	16343	C9H9FO2	ethyl 4-fluorobenzoate	451-46-7	25.00	1.1460	1
16161	C9H8N2O	4-aminoquinoline-1-oxide	2508-86-3	25.00	1.2028	2	16344	C9H9FO2	ethyl 3-fluorobenzoate	451-02-5	25.00	1.1360	1
16162	C9H8N2O	2-methyl-4-quinazolinone	1769-24-0	25.00	1.2028	2	16345	C9H9FO2	3'-fluoro-4'-methoxyacetophenone	455-91-4	25.00	1.1410	2
16164	C9H8N2O	1-phenyl-4-pyrazolin-3-one	1008-79-3	25.00	1.2028	2	16346	C9H9FO2	2'-fluoro-4'-methoxyacetophenone	74457-86-6	25.00	1.1410	2
16168	C9H8N2O2	2-methyl-5-nitroindole	7570-47-0	25.00	1.2694	2	16353	C9H9F3O	a-methyl-o-(trifluoromethyl)benzyl alcohol	79756-81-3	25.00	1.2353	2
16171	C9H8N2O2	4-(hydroxyamino)quinoline-1-oxide	4637-56-3	25.00	1.2694	2	16356	C9H9F3O3S	2,2,2-trifluoroethyl p-toluenesulfonate	433-06-7	25.00	1.3696	2
16174	C9H8N2O5	4-acetamide-3-nitrobenzoic acid	1539-06-6	25.00	1.4404	2	16362	C9H9I2NO3	L-3,5-diiodotyrosine	66-02-4	25.00	2.1461	2
16175	C9H8N2O5	4-nitrohippuric acid	2645-07-0	25.00	1.4404	2	16369	C9H9N	1-methyl-1H-indole	603-76-9	25.00	1.0707	1
16176	C9H8N2O6	ethyl 3,5-dinitrobenzoate	618-71-3	111.00	1.2950	1	16370	C9H9N	2-methyl-1H-indole	95-20-5	20.00	1.0700	1
16178	C9H8N2O7	N,N'-disuccinimidyl carbonate	74124-79-1	25.00	1.5352	2	16371	C9H9N	3-methyl-1H-indole	83-34-1	32.29	1.0111	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
16373	C9H9N	5-methyl-1H-indole	614-96-0	78.00	1.0202	1	16510	C9H10	trans-1-propenylbenzene	873-66-5	-29.33	1.1109	2
16374	C9H9N	7-methyl-1H-indole	933-67-5	100.00	1.0202	1	16512	C9H10	alpha-methylstyrene	98-83-9	-23.20	1.1073	2
16376	C9H9N	2,6-dimethylbenzonitrile	6575-13-9	32.29	1.0111	2	16513	C9H10	m-methylstyrene	100-80-1	-86.34	1.1652	2
16377	C9H9N	4-ethylbenzonitrile	25309-65-3	25.00	0.9560	1	16514	C9H10	o-methylstyrene	611-15-4	-68.57	1.1499	2
16378	C9H9N	2-ethylbenzonitrile	34136-59-9	25.00	0.9740	1	16515	C9H10	p-methylstyrene	622-97-9	-34.13	1.1428	2
16379	C9H9N	6-methylindole	3420-02-8	25.00	1.0590	1	16522	C9H10BrClN2O2	chlorbromuron	13360-45-7	20.00	1.6900	1
16381	C9H9NO	3,4-dihydro-2(1H)-quinolinone	553-03-7	24.04	1.0594	2	16523	C9H10BrNO	4'-bromo-2'-methylacetanilide	24106-05-6	25.00	1.4456	2
16384	C9H9NO	4-ethoxybenzonitrile	25117-74-2	24.04	1.0594	2	16524	C9H10BrNO2	4-bromo-DL-phenylalanine	14091-15-7	25.00	1.4939	2
16385	C9H9NO	2-methoxybenzeneacetonitrile	7035-03-2	24.04	1.0594	2	16525	C9H10BrNO3	1-(g-bromopropoxy)-4-nitrobenzene	13094-50-3	25.00	1.5389	2
16388	C9H9NO	cinnamamide, predominantly trans	621-79-4	24.04	1.0594	2	16527	C9H10ClNO	N-(2-chloroethyl)benzamide	26385-07-9	25.00	1.1838	2
16390	C9H9NO	3,5-dimethyl-4-hydroxybenzonitrile	4198-90-7	24.04	1.0594	2	16531	C9H10ClNO2	3-amino-3-(p-chlorophenyl)propionic acid	19947-39-8	25.00	1.2420	2
16402	C9H9NO	5-methoxyindole	1006-94-6	24.04	1.0594	2	16532	C9H10ClNO2	L-4-chlorophenylalanine	14173-39-8	25.00	1.2420	2
16403	C9H9NO	4-methoxyindole	4837-90-5	24.04	1.0594	2	16533	C9H10ClNO2	DL-4-chlorophenylalanine	7424-00-2	25.00	1.2420	2
16413	C9H9NO	indole-3-carbinol	700-06-1	24.04	1.0594	2	16536	C9H10ClN3O2S	3-amino-4-chloro-N-(2-cyanoethyl)benzenesulf*	64415-13-0	25.00	1.4054	2
16415	C9H9NOS	5-methoxy-2-methylbenzothiazole	2941-69-7	25.00	1.1675	2	16538	C9H10Br2	2,4-dibromo-1,3,5-trimethylbenzene	6942-99-0	25.00	1.6570	2
16416	C9H9NOS	6-methoxy-2-methylbenzothiazole	2941-72-2	25.00	1.2040	1	16539	C9H10Cl2	2,4-dichloro-1,3,5-trimethylbenzene	57386-83-1	25.00	1.1639	2
16420	C9H9NO2	2,6-dimethoxybenzonitrile	16932-49-3	25.00	1.1178	2	16540	C9H10Cl2N2O	diuron	330-54-1	25.00	1.3202	2
16421	C9H9NO2	1-(2-pyridinyl)-1,3-butanedione	40614-52-6	25.00	1.1178	2	16541	C9H10Cl2N2O2	linuron	330-55-2	25.00	1.3673	2
16422	C9H9NO2	1-(3-pyridinyl)-1,3-butanedione	3594-37-4	25.00	1.1178	2	16543	C9H10FNO2	L-4-fluorophenylalanine	1132-68-9	25.00	1.1939	2
16423	C9H9NO2	1-(4-pyridinyl)-1,3-butanedione	75055-73-1	25.00	1.1178	2	16544	C9H10FNO2	DL-3-fluorophenylalanine	2629-54-1	25.00	1.1939	2
16424	C9H9NO2	4-acetamidobenzaldehyde	122-85-0	25.00	1.1178	2	16545	C9H10FNO2	DL-2-fluorophenylalanine	2629-55-2	25.00	1.1939	2
16425	C9H9NO2	4-acetaminobenzaldehyde	6051-41-8	25.00	1.1178	2	16546	C9H10FNO2	DL-4-fluorophenylalanine	51-65-0	25.00	1.1939	2
16426	C9H9NO2	2,6-diacetylpyridine	1129-30-2	25.00	1.1178	2	16547	C9H10FNO2	p-fluoro-D-phenylalanine	18125-46-7	25.00	1.1939	2
16427	C9H9NO2	6,7-dihydroxy-3,4-dihydroisoquinoline	4602-83-9	25.00	1.1178	2	16551	C9H10FNO3	3-fluoro-DL-tyrosine	403-90-7	25.00	1.2523	2
16428	C9H9NO2	3,5-dimethoxybenzonitrile	19179-31-8	25.00	1.1178	2	16554	C9H10F3NO2	N-methylanilinium trifluoroacetate	29885-95-8	25.00	1.2770	2
16429	C9H9NO2	3,4-dimethoxybenzonitrile	2024-83-1	25.00	1.1178	2	16560	C9H10INO2	4-iodo-D-phenylalanine	62561-75-5	25.00	1.6914	2
16430	C9H9NO2	2,4-dimethoxybenzonitrile	4107-65-7	25.00	1.1178	2	16561	C9H10INO3	L-3-iodotyrosine	70-78-0	25.00	1.7280	2
16431	C9H9NO2	2,3-dimethoxybenzonitrile	5653-62-3	25.00	1.1178	2	16565	C9H10N2	4,5-dihydro-1-phenyl-1H-pyrazole	936-53-8	58.00	1.0689	1
16434	C9H9NO2	4-hydroxy-3-methoxyphenylacetonitrile	4468-59-1	25.00	1.1178	2	16566	C9H10N2	4,5-dihydro-3-phenyl-1H-pyrazole	936-48-1	54.00	1.0892	1
16437	C9H9NO2	2-methoxy-5-methylphenyl isocyanate	59741-04-7	25.00	1.1120	1	16567	C9H10N2	1,5-dimethyl-1H-benzimidazole	10394-35-1	56.00	1.0791	2
16439	C9H9NO2	4-nitroindan	34701-14-9	25.00	1.1178	2	16568	C9H10N2	2,5-dimethyl-1H-benzimidazole	1792-41-2	56.00	1.0791	2
16440	C9H9NO2	(R)-(-)-4-phenyl-2-oxazolidinone	90319-52-1	25.00	1.1178	2	16569	C9H10N2	5,6-dimethyl-1H-benzimidazole	582-60-5	56.00	1.0791	2
16441	C9H9NO2	(S)-(+)-4-phenyl-2-oxazolidinone	99395-88-7	25.00	1.1178	2	16570	C9H10N2	1,5-dimethyl-1H-indazole	70127-93-4	56.00	1.0791	2
16442	C9H9NO2	1-phenyl-1,2-propanedione-2-oxime	119-51-7	25.00	1.1178	2	16571	C9H10N2	2,3-dimethyl-2H-indazole	50407-18-6	56.00	1.0791	2
16444	C9H9NO2	5-nitroindane	7436-07-9	25.00	1.1178	2	16572	C9H10N2	2,2'-dipyrrolylmethane	21211-65-4	56.00	1.0791	2
16446	C9H9NO2S	2,4-dimethoxyphenyl isothiocyanate	33904-03-9	25.00	1.2629	2	16573	C9H10N2	2-ethylbenzimidazole	1848-84-6	56.00	1.0791	2
16447	C9H9NO2S	2,5-dimethoxyphenyl isothiocyanate	40532-06-7	25.00	1.2629	2	16575	C9H10N2	3-anilinopropionitrile	1075-76-9	56.00	1.0791	2
16448	C9H9NO2S	p-toluenesulfonylacetonitrile	5697-44-9	25.00	1.2629	2	16576	C9H10N2	4-(dimethylamino)benzonitrile	1197-19-9	56.00	1.0791	2
16449	C9H9NO2S	tosylmethyl isocyanide	36635-61-7	25.00	1.2629	2	16577	C9H10N2	2-phenyl-2-imidazoline	936-49-2	56.00	1.0791	2
16450	C9H9NO3	N-benzoylglycine	495-69-2	20.00	1.3710	1	16579	C9H10N2O	1-phenyl-3-pyrazolidinone	92-43-3	25.00	1.1408	2
16451	C9H9NO3	2,3-dihydro-3-hydroxy-1-methyl-1H-indole-5,6*	54-06-8	25.00	1.2386	2	16580	C9H10N2O	4,5-dihydro-5-phenyl-2-oxazolamine	2207-50-3	25.00	1.1408	2
16452	C9H9NO3	4-acetamidobenzoic acid	556-08-1	25.00	1.2386	2	16581	C9H10N2O	4-(dimethylamino)phenyl isocyanate	16315-59-6	25.00	1.1408	2
16453	C9H9NO3	3-acetamidobenzoic acid	587-48-4	25.00	1.2386	2	16583	C9H10N2O2	(phenylacetyl)urea	63-98-9	25.00	1.2057	2
16454	C9H9NO3	2-acetamidobenzoic acid	89-52-1	25.00	1.2386	2	16584	C9H10N2O3	N-(4-aminobenzoyl)glycine	61-78-9	25.00	1.2658	2
16455	C9H9NO3	5-acetylsalicylamide	40187-51-7	25.00	1.2386	2	16588	C9H10N2O3S2	6-ethoxy-2-benzothiazolesulfonamide	452-35-7	25.00	1.3998	2
16456	C9H9NO3	6-amino-3,4-methylenedioxyacetophenone	28657-75-2	25.00	1.2386	2	16589	C9H10N2O4	1,3,5-trimethyl-2,4-dinitrobenzene	608-50-4	25.00	1.3217	2
16457	C9H9NO3	2,5-dimethoxyphenyl isocyanate	56309-62-7	25.00	1.2386	2	16593	C9H10N2O5	3-nitro-L-tyrosine	621-44-3	25.00	1.3738	2
16458	C9H9NO3	2,4-dimethoxyphenyl isocyanate	84370-87-6	25.00	1.2386	2	16595	C9H10N2OS	2-amino-6-ethoxybenzothiazole	94-45-1	25.00	1.2315	2
16459	C9H9NO3	N-formyl-4-(methylamino)benzoic acid	51865-84-0	25.00	1.2386	2	16596	C9H10N2S	2-amino-5,6-dimethylbenzothiazole	29927-08-0	25.00	1.1718	2
16460	C9H9NO3	N-hydroxy-5-norbornene-2,3-dicarboximide	21715-90-2	25.00	1.2386	2	16600	C9H10N4O2S2	N1-(5-methyl-1,3,4-thiadiazol-2-yl)-sulfanil*	144-82-1	25.00	1.4424	2
16461	C9H9NO3	4-nitrocinnamyl alcohol	1504-63-8	25.00	1.2386	2	16608	C9H10O	trans-2-(1-propenyl)phenol	23619-59-2	16.00	1.0441	1
16463	C9H9NO3S	1-hydroxy-6-methylsulphonylindole	170492-47-4	25.00	1.3184	2	16611	C9H10O	1-vinyl-2-methoxybenzene	612-15-7	17.00	1.0049	1
16464	C9H9NO4	[2-(aminocarbonyl)phenoxy]acetic acid	25395-22-6	25.00	1.2988	2	16614	C9H10O	benzenepropanal	104-53-0	20.00	1.0190	1
16465	C9H9NO4	benzadox	5251-93-4	25.00	1.2988	2	16619	C9H10O	alpha-methylbenzeneacetaldehyde	93-53-8	10.85	1.1888	2
16466	C9H9NO4	ethyl 2-nitrobenzoate	610-34-4	25.00	1.2988	2	16621	C9H10O	4-methylbenzeneacetaldehyde	104-09-6	20.00	1.0052	1
16467	C9H9NO4	ethyl 3-nitrobenzoate	618-98-4	25.00	1.2988	2	16624	C9H10O	cis-3-phenyl-2-propen-1-ol	4510-34-3	20.00	1.0440	1
16468	C9H9NO4	ethyl 4-nitrobenzoate	99-77-4	25.00	1.2988	2	16625	C9H10O	trans-3-phenyl-2-propen-1-ol	4407-36-7	20.00	1.0440	1
16471	C9H9NO4	N-(2-carboxyphenyl)glycine	612-42-0	25.00	1.2988	2	16627	C9H10O	2,3-dihydro-1H-inden-1-ol	6351-10-6	20.31	1.0184	2
16472	C9H9NO4	1,2-epoxy-3-(4-nitrophenoxy)propane	5255-75-4	25.00	1.2988	2	16628	C9H10O	2,3-dihydro-1H-inden-5-ol	1470-94-6	20.31	1.0184	2
16474	C9H9NO4	2-hydroxyhippuric acid	487-54-7	25.00	1.2988	2	16631	C9H10O	4-methylacetophenone	122-00-9	20.00	1.0051	1
16478	C9H9NO5	6-nitroveratraldehyde	20357-25-9	25.00	1.3547	2	16637	C9H10O	cinnamyl alcohol	104-54-1	25.00	1.0420	1
16479	C9H9NO6	4,5-dimethoxy-2-nitrobenzoic acid	4998-07-6	25.00	1.4066	2	16641	C9H10O	2-indanol	4254-29-9	20.31	1.0184	2
16480	C9H9NO6	2,5-dimetoxy-3-nitrobenzoic acid	17894-26-7	25.00	1.4066	2	16647	C9H10OS	4-acetylthioanisole	1778-09-2	25.00	1.1139	2
16481	C9H9NO6S	(S)-(+)-glycidyl nosylate	115314-14-2	25.00	1.4641	2	16649	C9H10O2	4-acetylanisole	100-06-1	41.00	1.0818	1
16482	C9H9NO6S	(R)-(-)-glycidyl nosylate	115314-17-5	25.00	1.4641	2	16650	C9H10O2	3-allyl-1,2-benzenediol	1125-74-2	20.00	1.1241	1
16483	C9H9NO7	5-nitro-2-furaldehyde diacetate	92-55-7	25.00	1.4551	2	16651	C9H10O2	benzenepropanoic acid	501-52-0	49.00	1.0712	1
16484	C9H9NS	2,5-dimethylbenzothiazole	95-26-1	25.00	1.0833	2	16652	C9H10O2	2,4-dimethylbenzoic acid	611-01-8	30.51	1.0790	2
16491	C9H9N3O	5,7-dimethyl-4-hydroxypyrido[2,3-d]pyrimidine	1913-72-0	25.00	1.2344	2	16653	C9H10O2	2,5-dimethylbenzoic acid	610-72-0	21.00	1.0690	1
16494	C9H9N3OS	1-methyl-3-(2-benzthiazolyl)urea	1929-88-0	25.00	1.3160	2	16654	C9H10O2	2,6-dimethylbenzoic acid	632-46-2	30.51	1.0790	2
16495	C9H9N3O2	carbendazim	10605-21-7	25.00	1.4500	1	16655	C9H10O2	3,5-dimethylbenzoic acid	499-06-9	30.51	1.0790	2
16497	C9H9N3O2S2	5-[(4-aminophenyl)sulfonyl]-2-thiazolamine	473-30-3	25.00	1.4291	2	16656	C9H10O2	2-ethylbenzoic acid	612-19-1	100.00	1.0431	1
16498	C9H9N3O2S2	4-amino-N-2-thiazolylbenzenesulfonamide	72-14-0	25.00	1.4291	2	16657	C9H10O2	3-ethylbenzoic acid	619-20-5	100.00	1.0420	1
16500	C9H9N3O4S2	2,4-dinitrophenyl dimethylcarbamodithioate	89-37-2	20.00	1.5400	1	16662	C9H10O2	1-(2-hydroxy-5-methylphenyl)ethanone	1450-72-2	53.00	1.0797	1
16502	C9H9N3O6	1,3,5-trimethyl-2,4,6-trinitrobenzene	602-96-0	25.00	1.5011	2	16663	C9H10O2	1-(4-hydroxy-2-methylphenyl)ethanone	875-59-2	135.00	1.0592	1
16503	C9H9N3S	5-phenyl-2,4-thiazolediamine	490-55-1	25.00	1.2594	2	16665	C9H10O2	1-(4-hydroxyphenyl)-1-propanone	70-70-2	30.51	1.0790	2
16504	C9H9N3S	4-amino-2-methylmercaptoquinazoline	63963-40-6	25.00	1.2594	2	16671	C9H10O2	1-(3-methoxyphenyl)ethanone	586-37-8	19.00	1.0343	1
16505	C9H9N5	6-phenyl-1,3,5-triazine-2,4-diamine	91-76-9	25.00	1.2929	2	16674	C9H10O2	3-methylbenzeneacetic acid	621-36-3	30.51	1.0790	2
16506	C9H9N5	N-phenyl-1,3,5-triazine-2,4-diamine	537-17-7	25.00	1.2929	2	16675	C9H10O2	4-methylbenzeneacetic acid	622-47-9	30.51	1.0790	2
16508	C9H10	indane	496-11-7	-51.41	1.1936	2	16676	C9H10O2	ethyl benzoate	93-89-0	-34.70	1.2810	2
16509	C9H10	cis-1-propenylbenzene	766-90-5	-61.68	1.1451	2	16679	C9H10O2	methyl 4-methylbenzoate	99-75-2	30.51	1.0790	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
16680	C9H10O2	benzyl acetate	140-11-4	-51.50	1.3156	2	16789	C9H10O4	methyl 4-hydroxy-3-methoxybenzoate	3943-74-6	20.50	1.1984	2
16686	C9H10O2	phenyl glycidyl ether	122-60-1	3.64	1.3209	2	16790	C9H10O4	1-(2,4,6-trihydroxyphenyl)-1-propanone	2295-58-1	20.50	1.1984	2
16687	C9H10O2	3-phenyloxiranemethanol	21915-53-7	27.00	1.1512	1	16791	C9H10O4	2,6-dimethoxybenzoic acid	1466-76-8	20.50	1.1984	2
16690	C9H10O2	4-chromanol	1481-93-2	30.51	1.0790	2	16792	C9H10O4	2,3-dimethoxybenzoic acid	1521-38-6	20.50	1.1984	2
16691	C9H10O2	2,3-dimethylbenzoic acid	603-79-2	30.51	1.0790	2	16793	C9H10O4	2,5-dimethoxybenzoic acid	2785-98-0	20.50	1.1984	2
16692	C9H10O2	3,4-dimethylbenzoic acid	619-04-5	30.51	1.0790	2	16794	C9H10O4	2,4-dimethoxybenzoic acid	91-52-1	20.50	1.1984	2
16693	C9H10O2	4-ethylbenzoic acid	619-64-7	30.51	1.0790	2	16795	C9H10O4	ethyl 3,4-dihydroxybenzoate	3943-89-3	20.50	1.1984	2
16694	C9H10O2	4-hydroxy-3,5-dimethylbenzaldehyde	2233-18-3	30.51	1.0790	2	16797	C9H10O4	2-(4-hydroxyphenoxy)propionic acid	67648-61-7	20.50	1.1984	2
16696	C9H10O2	4'-hydroxy-3'-methylacetophenone	876-02-8	30.51	1.0790	2	16798	C9H10O4	4-methoxyphenoxyacetic acid	1877-75-4	20.50	1.1984	2
16699	C9H10O2	(2S,3S)-3-phenylglycidol	104196-23-8	30.51	1.0790	2	16799	C9H10O4	methyl isodehydracetate	41264-06-6	20.50	1.1984	2
16700	C9H10O2	(2R,3R)-3-phenylglycidol	98819-68-2	30.51	1.0790	2	16801	C9H10O4	methyl 4-methoxysalicylate	5446-02-6	20.50	1.1984	2
16702	C9H10O2	(S)-(+)-2-phenylpropionic acid	7782-24-3	25.00	1.1000	1	16802	C9H10O4	cis-5-norbornene-endo-2,3-dicarboxylic acid	3813-52-3	20.50	1.1984	2
16703	C9H10O2	(R)-(-)-2-phenylpropionic acid	7782-26-5	25.00	1.1000	1	16805	C9H10O4	methylenomycin A	52775-76-5	20.50	1.1984	2
16704	C9H10O2	o-tolylacetic acid	644-36-0	30.51	1.0790	2	16807	C9H10O4S	4-methylsulphonylphenylacetic acid	90536-66-6	25.00	1.2899	2
16707.1	C9H10O2	phenyl ethyl formate	7775-38-4	-35.15	1.2855	2	16808	C9H10O5	alpha,4-dihydroxy-3-methoxybenezeneacetic ac*	55-10-7	25.00	1.2692	2
16709	C9H10O2S	S-benzylthioglycolic acid	103-46-8	25.00	1.1768	2	16809	C9H10O5	2-furanmethanediol diacetate	613-75-2	25.00	1.2692	2
16710	C9H10O2S	methyl 2-(methylthio)benzoate	3704-28-7	25.00	1.1768	2	16810	C9H10O5	gallic acid ethyl ester	831-61-8	25.00	1.2692	2
16711	C9H10O3	ethyl vanillin	121-32-4	77.50	1.3394	2	16811	C9H10O5	DL-3-hydroxy-4-methoxymandelic acid	3695-24-7	25.00	1.2692	2
16712	C9H10O3	1-(2,4-dihydroxyphenyl)-1-propanone	5792-36-9	32.41	1.1490	2	16812	C9H10O5	syringic acid	530-57-4	25.00	1.2692	2
16713	C9H10O3	2,4-dimethoxybenzaldehyde	613-45-6	32.41	1.1490	2	16813	C9H10O5	2-hydroxy-2-(4-hydroxy-3-methoxy-phenyl)-ace*	2394-20-9	25.00	1.2692	2
16714	C9H10O3	2,5-dimethoxybenzaldehyde	93-02-7	32.41	1.1490	2	16814	C9H10O8	cis,cis,cis,cis-1,2,3,4-cyclopentanetetracar*	3786-91-2	25.00	1.4230	2
16715	C9H10O3	3,4-dimethoxybenzaldehyde	120-14-9	32.41	1.1490	2	16823	C9H11Br	1-(bromomethyl)-3,5-dimethylbenzene	27129-86-8	19.86	1.3060	2
16716	C9H10O3	3,5-dimethoxybenzaldehyde	7311-34-4	32.41	1.1490	2	16829	C9H11Br	1-bromo-2,4,5-trimethylbenzene	5469-19-2	19.86	1.3060	2
16718	C9H10O3	3-ethoxybenzoic acid	621-51-2	32.41	1.1490	2	16834	C9H11BrN2O2	metobromuron	3060-89-7	20.00	1.6000	1
16719	C9H10O3	5-ethoxy-2-hydroxybenzaldehyde	80832-54-8	32.41	1.1490	2	16835	C9H11BrN2O5	5-bromo-2'-deoxyuridine	59-14-3	25.00	1.6249	2
16720	C9H10O3	ethylene glycol monobenzoate	94-33-7	30.00	1.1101	1	16836	C9H11BrN2O6	5-bromouridine	957-75-5	25.00	1.6602	2
16722	C9H10O3	ethyl 3-hydroxybenzoate	7781-98-8	131.00	1.0680	1	16842	C9H11BrO3	5-bromo-1,2,3-trimethoxybenzene	2675-79-8	25.00	1.4597	2
16723	C9H10O3	ethyl 4-hydroxybenzoate	120-47-8	32.41	1.1490	2	16854	C9H11ClN2O	N'-(4-chlorophenyl)-N,N-dimethylurea	150-68-5	25.00	1.2122	2
16724	C9H10O3	ethyl salicylate	118-61-6	20.00	1.1326	1	16855	C9H11ClN2O2	3-(4-chlorophenyl)-1-methoxy-1-methylurea	1746-81-2	25.00	1.2664	2
16725	C9H10O3	4-hydroxybenzenepropanoic acid	501-97-3	32.41	1.1490	2	16857	C9H11ClN2O3S	4-chloro-N-methyl-3-(methylsulfamoyl)benzami*	3688-85-5	25.00	1.3778	2
16726	C9H10O3	alpha-hydroxybenzenepropanoic acid, (±)	828-01-3	32.41	1.1490	2	16858	C9H11ClN2O5	5-chloro-2'-deoxyuridine	50-90-8	25.00	1.4095	2
16727	C9H10O3	1-(2-hydroxy-4-methoxyphenyl)ethanone	552-41-0	81.00	1.3102	1	16859	C9H11ClN4O2	7-(2-chloroethyl)theophylline	5878-61-5	25.00	1.3634	2
16728	C9H10O3	1-(4-hydroxy-3-methoxyphenyl)ethanone	498-02-2	114.50	1.2580	2	16863	C9H11ClO2	3,5-dimethoxybenzyl chloride	6652-32-0	25.00	1.1593	2
16729	C9H10O3	alpha-(hydroxymethyl)benezeneacetic acid	529-64-6	32.41	1.1490	2	16866	C9H11ClO2S	2-mesitylenesulfonyl chloride	773-64-8	25.00	1.2387	2
16730	C9H10O3	alpha-hydroxy-alpha-methylbenezeneacetic acid	515-30-0	32.41	1.1490	2	16867	C9H11ClO3	3-(2-chlorophenoxy)-1,2-propanediol	5112-21-0	25.00	1.2162	2
16731	C9H10O3	2-methoxybenzeneacetic acid	93-25-4	32.41	1.1490	2	16868	C9H11ClO3	3-(4-chlorophenoxy)-1,2-propanediol	104-29-0	25.00	1.2162	2
16732	C9H10O3	4-methoxybenzeneacetic acid	104-01-8	83.00	1.1765	2	16871	C9H11Cl2FN2O2S2	N-(dichlorofluoromethylthio)-N',N'-dimethyl-*	1085-98-9	25.00	1.4635	2
16733	C9H10O3	2-methoxyphenyl acetate	613-70-7	25.00	1.1285	1	16879	C9H11FN2O5	doxifluridine	3094-09-5	25.00	1.3751	2
16734	C9H10O3	methyl 2-hydroxy-3-methylbenzoate	23287-26-5	25.00	1.1683	1	16880	C9H11FN2O6	5-fluorouridine	316-46-1	25.00	1.4200	2
16735	C9H10O3	methyl 2-hydroxy-4-methylbenzoate	4670-56-8	15.00	1.1483	1	16884	C9H11F4NO3S	N-fluoro-2,4,6-trimethylpyridinium triflate	107264-00-6	25.00	1.3855	2
16737	C9H10O3	methyl alpha-hydroxyphenylacetate, (±)	4358-87-6	20.00	1.1756	1	16885	C9H11I	2-ethyl-6-methyliodobenzene	175277-95-9	25.00	1.5274	2
16739	C9H10O3	methyl 4-methoxybenzoate	121-98-2	32.41	1.1490	2	16886	C9H11I	2,4,6-trimethyliodobenzene	4028-63-1	25.00	1.5274	2
16742	C9H10O3	2-phenoxypropanoic acid, (±)	1912-21-6	20.00	1.1865	1	16887	C9H11IN2O5	(+)-5-iodo-2'-deoxyuridine	54-42-2	25.00	1.7911	2
16743	C9H10O3	3-phenoxypropanoic acid	7170-38-9	32.41	1.1490	2	16890	C9H11N	2,3-dihydro-1H-inden-5-amine	24425-40-9	20.64	1.0208	2
16746	C9H10O3	2',4'-dihydroxy-3'-methylacetophenone	10139-84-1	32.41	1.1490	2	16894	C9H11N	5,6,7,8-tetrahydroisoquinoline	36556-06-6	10.00	1.0504	1
16747	C9H10O3	2',5'-dihydroxypropiophenone	938-46-5	32.41	1.1490	2	16904	C9H11NS2	ethyl phenyldithiocarbamate	13037-20-2	25.00	1.1749	2
16748	C9H10O3	2,6-dimethoxybenzaldehyde	3392-97-0	32.41	1.1490	2	16905	C9H11NO	p-dimethylaminobenzaldehyde	100-10-7	74.85	1.2100	2
16749	C9H10O3	2,3-dimethoxybenzaldehyde	86-51-1	32.41	1.1490	2	16906	C9H11NO	1-(4-aminophenyl)-1-propanone	70-69-9	39.13	1.0993	2
16750	C9H10O3	4-ethoxybenzoic acid	619-86-3	32.41	1.1490	2	16907	C9H11NO	2-amino-1-phenyl-1-propanone	5265-18-9	39.13	1.0993	2
16751	C9H10O3	3-ethoxysalicylaldehyde	492-88-6	32.41	1.1490	2	16908	C9H11NO	N-benzylacetamide	588-46-5	39.13	1.0993	2
16753	C9H10O3	4-hydroxy-3,5-dimethylbenzoic acid	4919-37-3	32.41	1.1490	2	16909	C9H11NO	N,N-dimethylbenzamide	611-74-5	39.13	1.0993	2
16754	C9H10O3	2'-hydroxy-6'-methoxyacetophenone	703-23-1	32.41	1.1490	2	16910	C9H11NO	N-ethylbenzamide	614-17-5	39.13	1.0993	2
16755	C9H10O3	2'-hydroxy-5'-methoxyacetophenone	705-15-7	32.41	1.1490	2	16912	C9H11NO	4-methylacetanilide	103-89-9	15.00	1.2120	1
16756	C9H10O3	2-hydroxymethyl-1,4-benzodioxan	3663-82-9	32.41	1.1490	2	16913	C9H11NO	N-(2-methylphenyl)acetamide	120-66-1	15.00	1.1680	1
16757	C9H10O3	(R)-3-hydroxy-3-phenylpropanoic acid	2768-42-5	32.41	1.1490	2	16914	C9H11NO	N-(3-methylphenyl)acetamide	537-92-8	15.00	1.1410	1
16758	C9H10O3	(S)-3-hydroxy-3-phenylpropanoic acid	36567-72-3	32.41	1.1490	2	16915	C9H11NO	N-methyl-N-phenylacetamide	579-10-2	105.00	1.0036	1
16759	C9H10O3	(S)-(+)-2-hydroxy-2-phenylpropionic acid	13113-71-8	32.41	1.1490	2	16916	C9H11NO	N-phenylpropanamide	620-71-3	25.00	1.1750	1
16760	C9H10O3	(R)-(-)-2-hydroxy-2-phenylpropionic acid	3966-30-1	32.41	1.1490	2	16917	C9H11NO	1-phenyl-1-propanone oxime	2157-50-8	18.00	1.0639	1
16761	C9H10O3	(4-hydroxyphenyl)-2-propionic acid	938-96-5	32.41	1.1490	2	16918	C9H11NO	(1S,2R)-(-)-cis-1-amino-2-indanol	126456-43-7	39.13	1.0993	2
16762	C9H10O3	3-methoxyphenylacetic acid	1798-09-0	32.41	1.1490	2	16919	C9H11NO	(1R,2S)-1-amino-2-indanol	136030-00-7	39.13	1.0993	2
16763	C9H10O3	(S)-(+)-a-methoxyphenylacetic acid	26164-26-1	32.41	1.1490	2	16920	C9H11NO	N-methyl-2-phenylacetamide	6830-82-6	39.13	1.0993	2
16764	C9H10O3	(R)-(-)-a-methoxyphenylacetic acid	3966-32-3	32.41	1.1490	2	16921	C9H11NO	N-methyl-o-toluamide	2170-09-4	39.13	1.0993	2
16765	C9H10O3	DL-a-methoxyphenylacetic acid	7021-09-2	32.41	1.1490	2	16924	C9H11NO2	2-(dimethylamino)benzoic acid	610-16-2	22.13	1.1160	2
16766	C9H10O3	methyl 4-(hydroxymethyl)benzoate	6908-41-4	32.41	1.1490	2	16925	C9H11NO2	4-(dimethylamino)benzoic acid	619-84-1	22.13	1.1160	2
16767	C9H10O3	methyl 4-hydroxyphenylacetate	14199-15-6	32.41	1.1490	2	16926	C9H11NO2	2-ethoxybenzamide	938-73-8	22.13	1.1160	2
16768	C9H10O3	(R)-(-)-methyl mandelate	20698-91-3	32.41	1.1490	2	16929	C9H11NO2	ethyl 4-aminobenzoate	94-09-7	22.13	1.1160	2
16769	C9H10O3	(S)-(+)-methyl mandelate	21210-43-5	32.41	1.1490	2	16930	C9H11NO2	ethyl phenylcarbamate	101-99-5	30.00	1.1064	1
16770	C9H10O3	2-phenoxypropionic acid	940-31-8	32.41	1.1490	2	16932	C9H11NO2	1-isopropyl-4-nitrobenzene	1817-47-6	20.00	1.0840	1
16771	C9H10O3	L(-)-3-phenyllactic acid	20312-36-1	32.41	1.1490	2	16934	C9H11NO2	N-(2-methoxyphenyl)acetamide	93-26-5	22.13	1.1160	2
16772	C9H10O3	D(+)-phenyllactic acid	7326-19-4	32.41	1.1490	2	16935	C9H11NO2	N-(4-methoxyphenyl)acetamide	51-66-1	22.13	1.1160	2
16774	C9H10O3	ipomeanine	496-06-0	32.41	1.1490	2	16937	C9H11NO2	methyl N-methyl-N-phenylcarbamate	28685-60-1	19.00	1.2960	1
16777	C9H10O3S	methyl 2-phenylsulfinylacetate	14090-83-6	25.00	1.2353	2	16938	C9H11NO2	(1-methyl-1-nitroethyl)benzene	3457-58-7	20.00	1.1025	1
16778	C9H10O3S	4-methylsulphonylacetophenone	10297-73-1	25.00	1.2353	2	16939	C9H11NO2	DL-phenylalanine	150-30-1	22.13	1.1160	2
16781	C9H10O4	3,4-dimethoxybenzoic acid	93-07-2	20.50	1.1984	2	16940	C9H11NO2	L-phenylalanine	63-91-2	25.00	1.2800	2
16782	C9H10O4	3,5-dimethoxybenzoic acid	1132-21-4	20.50	1.1984	2	16941	C9H11NO2	1,2,4-trimethyl-5-nitrobenzene	610-91-3	22.13	1.1160	2
16784	C9H10O4	2-hydroxy-4,6-dimethoxybenzaldehyde	708-76-9	20.50	1.1984	2	16942	C9H11NO2	1,3,5-trimethyl-2-nitrobenzene	603-71-4	22.13	1.1160	2
16785	C9H10O4	3-hydroxy-4,5-dimethoxybenzaldehyde	29865-90-5	20.50	1.1984	2	16943	C9H11NO2	3-amino-3-phenylpropionic acid	614-19-7	22.13	1.1160	2
16786	C9H10O4	4-hydroxy-3,5-dimethoxybenzaldehyde	134-96-3	20.50	1.1984	2	16944	C9H11NO2	3-dimethylaminobenzoic acid	99-64-9	22.13	1.1160	2
16787	C9H10O4	2-hydroxyethyl 2-hydroxybenzoate	87-28-5	15.00	1.2526	1	16945	C9H11NO2	3,5-dimethylanthranilic acid	14438-32-5	22.13	1.1160	2
16788	C9H10O4	4-hydroxy-3-methoxybenezeneacetic acid	306-08-1	20.50	1.1984	2	16952	C9H11NO2	D-phenylalanine	673-06-3	22.13	1.1160	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
16953	C9H11NO2	m-acetanisidide	588-16-9	22.13	1.1160	2	17148	C9H12O2	5-propyl-1,3-benzenediol	500-49-2	22.96	1.0488	2
16959	C9H11NO3	adrenalone	99-45-6	25.00	1.1791	2	17149	C9H12O2	2,4,6-trimethyl-1,3-benzenediol	608-98-0	22.96	1.0488	2
16960	C9H11NO3	L-tyrosine	60-18-4	25.00	1.1791	2	17158	C9H12O2	(±)-bicyclo[3.3.1]nonane-2,6-dione	16473-11-3	22.96	1.0488	2
16961	C9H11NO3	3,5-dimethoxybenzamide	17213-58-0	25.00	1.1791	2	17161	C9H12O2	2,6-dimethoxytoluene	5673-07-4	22.96	1.0488	2
16962	C9H11NO3	2,3-dimethyl-p-nitroanisole	81029-03-0	25.00	1.1791	2	17163	C9H12O2	4-ethoxybenzyl alcohol	6214-44-4	22.96	1.0488	2
16963	C9H11NO3	N-(2-hydroxyethyl)salicylamide	24207-38-3	25.00	1.1791	2	17167	C9H12O2	4-methoxyphenethyl alcohol	702-23-8	22.96	1.0488	2
16964	C9H11NO3	N-hydroxymethyl-3,4,5,6-tetrahydrophthalimide	4887-42-7	25.00	1.1791	2	17174	C9H12O2	(R)-1-phenyl-1,3-propanediol	103548-16-9	22.96	1.0488	2
16965	C9H11NO3	D-tyrosine	556-02-5	25.00	1.1791	2	17175	C9H12O2	2-phenyl-1,2-propanediol	4217-66-7	22.96	1.0488	2
16966	C9H11NO3	DL-tyrosine	556-03-6	25.00	1.1791	2	17176	C9H12O2	(S)-1-phenyl-1,3-propanediol	96854-34-1	22.96	1.0488	2
16967	C9H11NO3	DL-m-tyrosine	775-06-4	25.00	1.1791	2	17177	C9H12O2	4-propoxyphenol	18979-50-5	22.96	1.0488	2
16972	C9H11NO3S	2-(p-toluenesulfonyl)acetamide	52345-47-8	25.00	1.2601	2	17178	C9H12O2	2,6,6-trimethyl-2-cyclohexene-1,4-dione	1125-21-9	22.96	1.0488	2
16975	C9H11NO4	levodopa	59-92-7	25.00	1.2380	2	17179	C9H12O2	trimethylhydroquinone	700-13-0	22.96	1.0488	2
16976	C9H11NO4	2-amino-4,5-dimethoxybenzoic acid	5653-40-7	25.00	1.2380	2	17189	C9H12O3	3-phenoxy-1,2-propanediol	538-43-2	20.00	1.2250	1
16977	C9H11NO4	3-carboxy-1,4-dimethyl-1H-pyrrole-2-aceticac*	33369-45-8	25.00	1.2380	2	17190	C9H12O3	1-phenyl-1,2,3-propanetriol	63157-81-3	13.00	1.2213	1
16980	C9H11NO5	1-(4(nitrophenyl)glycerol	2207-68-3	25.00	1.2928	2	17191	C9H12O3	1,2,3-trimethoxybenzene	634-36-6	45.00	1.1009	1
16981	C9H11NO5	2,4,6-trimethoxynitrobenzene	14227-18-0	25.00	1.2928	2	17192	C9H12O3	1,3,5-trimethoxybenzene	621-23-8	22.92	1.1164	2
16982	C9H11NO6	2b-D-ribofuranosylmaleimide	16755-07-0	25.00	1.3441	2	17193	C9H12O3	2,4,6-trivinyl-1,3,5-trioxane	588-01-2	22.92	1.1164	2
16983	C9H11NO7	oxazinomycin	32388-21-9	25.00	1.3921	2	17194	C9H12O3	2,6-bis(hydroxymethyl)-p-cresol	91-04-3	22.92	1.1164	2
16988	C9H11N3O	N-nitrosonornicotine	16543-55-8	25.00	1.1741	2	17196	C9H12O3	2,3-dimethoxybenzyl alcohol	5653-67-8	22.92	1.1164	2
17004	C9H12	cumene	98-82-8	-96.01	1.1178	2	17197	C9H12O3	3,5-dimethoxybenzyl alcohol	705-76-0	22.92	1.1164	2
17005	C9H12	m-ethyltoluene	620-14-4	-95.54	1.1178	2	17198	C9H12O3	2,4-dimethoxybenzyl alcohol	7314-44-5	22.92	1.1164	2
17006	C9H12	o-ethyltoluene	611-14-3	-80.80	1.1214	2	17199	C9H12O3	hexahydro-4-methylphthalic anhydride	19438-60-9	25.00	1.1620	1
17007	C9H12	p-ethyltoluene	622-96-8	-62.32	1.0817	2	17201	C9H12O3	3,3-tetramethyleneglutaric anhydride	5662-95-3	22.92	1.1164	2
17008	C9H12	1,2,3-trimethylbenzene	526-73-8	-25.36	1.0885	2	17205	C9H12O3S	ethyl p-toluenesulfonate	80-40-0	48.00	1.1660	1
17009	C9H12	1,2,4-trimethylbenzene	95-63-6	-43.82	1.0817	2	17207	C9H12O3S	2-(p-tolylsulfonyl)ethanol	22381-54-0	32.50	1.1732	2
17011	C9H12	mesitylene	108-67-8	-44.73	1.0709	2	17209	C9H12O4	3,4,5-trimethoxyphenol	642-71-7	25.00	1.1545	2
17012	C9H12	propylbenzene	103-65-1	-99.60	1.1214	2	17234	C9H13BrN2O2	bromacil	314-40-9	25.00	1.5500	1
17013	C9H12	ethylidene norbornene	16219-75-3	-80.15	1.1467	2	17237	C9H13ClN2O2	terbacil	5902-51-2	25.00	1.3400	1
17018	C9H12	5-vinyl-2-norbornene, endo and exo	3048-64-4	-80.00	1.1815	2	17238	C9H13ClN6	cyanazine	21725-46-2	25.00	1.3062	2
17024	C9H12BrN	3-bromo-2,4,6-trimethylaniline	82842-52-2	25.00	1.3130	1	17239	C9H13ClN6O2	nimustine	42471-28-3	25.00	1.3949	2
17039	C9H12FN3O4	5-fluoro-2'-deoxycytidine	10356-76-0	25.00	1.3461	2	17247	C9H13Cl2N3	1-H-benzimidazole-2-ethanamine dihydrochlori*	---	25.00	1.2406	2
17041	C9H12N2	2-propanone phenylhydrazone	103-02-6	25.00	1.0181	2	17258	C9H13N	2-butylpyridine	5058-19-5	15.00	0.9135	1
17043	C9H12N2	4-pyrrolidinopyridine	2456-81-7	25.00	1.0181	2	17261	C9H13N	4-butylpyridine	5335-75-1	20.00	0.9157	1
17045	C9H12N2O	N,N-dimethyl-N'-phenylurea	101-42-8	25.00	1.0861	2	17263	C9H13N	2,4-diethylpyridine	626-21-1	25.00	0.9338	1
17046	C9H12N2O	N,N'-dimethyl-N-phenylurea	938-91-0	25.00	1.0861	2	17264	C9H13N	2-ethyl-3,5-dimethylpyridine	1123-96-2	25.00	0.9338	1
17054	C9H12N2O2	(4-ethoxyphenyl)urea	150-69-6	25.00	1.1492	2	17265	C9H13N	3-ethyl-2,6-dimethylpyridine	23580-52-1	18.00	0.9120	1
17055	C9H12N2O2	tyrosineamide	4985-46-0	25.00	1.1492	2	17266	C9H13N	4-ethyl-2,6-dimethylpyridine	36917-36-9	25.00	0.9089	1
17056	C9H12N2O2	1-(2-furoyl)piperazine	40172-95-0	25.00	1.1492	2	17267	C9H13N	2,3,4,6-tetramethylpyridine	20820-82-0	25.00	0.9322	1
17060	C9H12N2O3	5-nitro-2-propoxyaniline	553-79-7	25.00	1.2080	2	17281	C9H13N	2,4,5-trimethylaniline	137-17-7	25.00	0.9570	1
17061	C9H12N2O4	(1R,2R)-2-amino-1-(4-nitrophenol)propane-1,3*	716-61-0	25.00	1.2628	2	17283	C9H13N	3-butylpyridine	539-32-2	25.00	0.9110	1
17062	C9H12N2O4	(1S,2S)-2-amino-1-(4-nitrophenyl)propane-1,3*	2964-48-9	25.00	1.2628	2	17289	C9H13N	(S)-(-)-b-methylphenethylamine	17596-79-1	25.00	0.9450	1
17063	C9H12N2O4	diethyl pyrazole-3,5-dicarboxylate	37687-24-4	25.00	1.2628	2	17294	C9H13N	4-propylaniline	2696-84-6	25.00	0.9290	1
17064	C9H12N2O5	2'-deoxyuridine	951-78-0	25.00	1.3141	2	17295	C9H13N	2,6-diethylpyridine	935-28-4	22.80	0.9354	2
17065	C9H12N2O5S	riboxamide	60084-10-8	25.00	1.3755	2	17297	C9H13N	2,3,5,6-tetramethylpyridine	3748-84-3	22.80	0.9354	2
17066	C9H12N2O6	uridine	58-96-8	25.00	1.3622	2	17298	C9H13NO	4-(2-aminopropyl)phenol, (±)	1518-86-1	22.91	1.0318	2
17067	C9H12N2S	2-propyl-4-pyridinecarbothioamide	14222-60-7	25.00	1.1187	2	17300	C9H13NO	4-(dimethylamino)benzenemethanol	1703-46-4	14.00	1.0590	1
17068	C9H12N2S	phenylethylthiourea	3955-58-6	25.00	1.1187	2	17306	C9H13NO	2-[(4-methylphenyl)amino]ethanol	2933-74-6	22.91	1.0318	2
17071	C9H12N4O3	3,7-dihydro-8-methoxy-1,3,7-trimethyl-1H-pur*	569-34-6	25.00	1.3990	1	17308	C9H13NO	3-amino-3-phenyl-1-propanol	14593-04-5	22.91	1.0318	2
17072	C9H12N4O3	etofylline	519-37-9	25.00	1.3119	2	17310	C9H13NO	L(-)-2-amino-3-phenyl-1-propanol	3182-95-4	22.91	1.0318	2
17076	C9H12N6	N-methyleneglycinonitrile trimer	6865-92-5	25.00	1.2563	2	17311	C9H13NO	D(+)-2-amino-3-phenyl-1-propanol	5267-64-1	22.91	1.0318	2
17077	C9H12O	benzyl ethyl ether	539-30-0	2.50	1.1263	2	17316	C9H13NO	p-methoxyphenylethylamine	55-81-2	25.00	1.0330	1
17084	C9H12O	1-methoxy-2,3-dimethylbenzene	2944-49-2	40.00	0.9596	1	17317	C9H13NO	DL-a-(methylaminomethyl)benzyl alcohol	68579-60-2	22.91	1.0318	2
17090	C9H12O	2-phenyl-2-propanol	617-94-7	36.00	1.1481	2	17322	C9H13NO	(-)-norephedrine	492-41-1	22.91	1.0318	2
17091	C9H12O	benzenepropanol	122-97-4	-18.00	1.2053	2	17323	C9H13NO	DL-norephedrine	14838-15-4	22.91	1.0318	2
17096	C9H12O	alpha-ethylbenzenemethanol	93-54-9	0.00	1.1767	2	17325	C9H13NO2	3,3-diethyl-2,4(1H,3H)-pyridinedione	77-04-3	25.00	1.0984	2
17099	C9H12O	2-phenyl-1-propanol	1123-85-9	-16.15	1.2110	2	17327	C9H13NO2	ecgonidine	484-93-5	25.00	1.0984	2
17100	C9H12O	1-phenyl-2-propanol	698-87-3	-16.15	1.2110	2	17328	C9H13NO2	ethyl 3,5-dimethylpyrrole-2-carboxylate	2199-44-2	25.00	1.0984	2
17102	C9H12O	3-propylphenol	621-27-2	20.00	0.9870	1	17329	C9H13NO2	ethyl 2,4-dimethylpyrrole-3-carboxylate	2199-51-1	25.00	1.0984	2
17105	C9H12O	3-isopropylphenol	618-45-1	21.88	0.9809	2	17330	C9H13NO2	ethyl 2,5-dimethylpyrrole-3-carboxylate	2199-52-2	25.00	1.0984	2
17106	C9H12O	4-isopropylphenol	99-89-8	20.00	0.9900	1	17331	C9H13NO2	ethyl 4,5-dimethylpyrrole-3-carboxylate	2199-53-3	25.00	1.0984	2
17107	C9H12O	2-methyl-3-ethylphenol	1123-73-5	21.88	0.9809	2	17332	C9H13NO2	4-hydroxy-alpha-[(methylamino)methyl]benzene*	94-07-5	25.00	1.0984	2
17108	C9H12O	2-methyl-4-ethylphenol	2219-73-0	21.88	0.9809	2	17333	C9H13NO2	4-[2-(methylamino)ethyl]-1,2-benzenediol	501-15-5	25.00	1.0984	2
17110	C9H12O	2-methyl-6-ethylphenol	1687-64-5	21.88	0.9809	2	17334	C9H13NO2	3-amino-1-phenoxy-2-propanol hydrochloride	4287-20-1	25.00	1.0984	2
17111	C9H12O	3-methyl-4-ethylphenol	1123-94-0	21.88	0.9809	2	17335	C9H13NO2	(1S,2S)-(+)-2-amino-1-phenyl-1,3-propanediol	28143-91-1	25.00	1.0984	2
17112	C9H12O	3-methyl-5-ethylphenol	698-71-5	21.88	0.9809	2	17336	C9H13NO2	(1R,2R)-2-amino-1-phenyl-1,3-propanediol	46032-98-8	25.00	1.0984	2
17113	C9H12O	3-methyl-6-ethylphenol	1687-61-2	21.88	0.9809	2	17339	C9H13NO2	3,5-dimethoxybenzylamine	34967-24-3	25.00	1.1060	1
17114	C9H12O	4-methyl-2-ethylphenol	3855-26-3	21.88	0.9809	2	17341	C9H13NO2	ethinamate	126-52-3	25.00	1.0984	2
17115	C9H12O	4-methyl-3-ethylphenol	6161-67-7	21.88	0.9809	2	17342	C9H13NO2	metaraminol	54-49-9	25.00	1.0984	2
17116	C9H12O	2,3,4-trimethylphenol	526-85-2	21.88	0.9809	2	17343	C9H13NO2	tetramethylene glutarimide	1075-89-4	25.00	1.0984	2
17117	C9H12O	2,3,5-trimethylphenol	697-82-5	21.88	0.9809	2	17344	C9H13NO2	neosynephrine	59-42-7	25.00	1.0984	2
17118	C9H12O	2,3,6-trimethylphenol	2416-94-6	21.88	0.9809	2	17346	C9H13NO2S	N-ethyl-p-toluenesulfonamide	80-39-7	25.00	1.1543	2
17119	C9H12O	2,4,5-trimethylphenol	496-78-6	21.88	0.9809	2	17349	C9H13NO3	epinephrine	51-43-4	25.00	1.1262	2
17120	C9H12O	2,4,6-trimethylphenol	527-60-6	21.88	0.9809	2	17350	C9H13NO3	(1S,2R,6S,7R)-4,4-dimethyl-3,5-dioxa-8-azatr*	178032-63-8	25.00	1.1262	2
17121	C9H12O	3,4,5-trimethylphenol	527-54-8	21.88	0.9809	2	17351	C9H13NO3	(1R,2S,6R,7S)-4,4-dimethyl-3,5-dioxa-8-azatr*	220507-10-8	25.00	1.1262	2
17125	C9H12O	3,4-dimethylbenzyl alcohol	6966-10-5	21.88	0.9809	2	17352	C9H13NO3	3,4,5-trimethoxyaniline	24313-88-0	25.00	1.1262	2
17138	C9H12O2	cumene hydroperoxide	80-15-9	-8.89	1.2602	2	17353	C9H13NO3	D-adrenaline	150-05-0	25.00	1.1262	2
17143	C9H12O2	alpha-ethyl-3-hydroxybenzenemethanol	55789-02-1	22.96	1.0488	2	17355	C9H13NO3	4-methoxypyridoxine	1464-33-1	25.00	1.1262	2
17145	C9H12O2	4-isopropyl-1,2-benzenediol	2138-43-4	22.96	1.0488	2	17365	C9H13N3O	isonicotinic acid 2-isopropylhydrazide	54-92-2	25.00	1.1205	2
17146	C9H12O2	4-propyl-1,2-benzenediol	2525-02-2	18.00	1.1000	1	17368	C9H13N3O2	6-amino-3-ethyl-1-allyl-2,4(1H,3H)-pyrimidin*	642-44-4	25.00	1.1791	2
17147	C9H12O2	4-propyl-1,3-benzenediol	18979-60-7	22.96	1.0488	2	17369	C9H13N3O2	L-tyrosine hydrazide	7662-51-3	25.00	1.1791	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
17370	C9H13N3O2	aminoisometradin	550-28-7	25.00	1.1791	2	17684	C9H16O	3,4,4-trimethylcyclohexanone	40441-35-8	25.00	0.9110	1
17372	C9H13N3O4	deoxycytidine	951-77-9	25.00	1.2852	2	17700	C9H16O	1,3,5-trimethyl-2-cyclohexen-1-ol	33843-55-9	20.00	0.9132	1
17373	C9H13N3O5	cytidine	65-46-3	25.00	1.3334	2	17743	C9H16O3	4,4-dimethyl-6-oxoheptanoic acid	471-04-5	20.00	1.0110	2
17374	C9H13N3O5	arabinocytidine	147-94-4	25.00	1.3334	2	17755	C9H16O4	azelaic acid	123-99-9	20.00	1.2250	2
17393	C9H14	3,3-dimethyltricyclo[2.2.1.02,6]heptane	473-02-9	40.00	0.8710	1	17781	C9H16O6	diethyl bis(hydroxymethyl)malonate	20605-01-0	25.00	1.1664	2
17395.1	C9H14	ethylnorbene	15403-89-1	-73.15	1.1048	2	17782	C9H16O6	1,2-O-isopropylidene-D-glucofuranose	18549-40-1	25.00	1.1664	2
17395.2	C9H14	1-methyl-4-vinylcyclohexene	17699-86-4	-73.15	1.0657	2	17788	C9H17BrO2	ethyl 7-bromoheptanoate	29823-18-5	25.00	1.2170	1
17395.3	C9H14	propenyl cyclohexene	13511-13-2	-74.15	1.0693	2	17790	C9H17Br3	1,1,1-tribromononane	62127-66-6	25.00	1.6652	2
17399	C9H14BrN	phenyltrimethylammonium bromide	16056-11-4	25.00	1.2699	2	17812	C9H17I3	1,1,1-triiodononane	---	25.00	2.0630	2
17401	C9H14Br3N	phenyltrimethylammonium tribromide	4207-56-1	25.00	1.7911	2	17816	C9H17N	trans-decahydroquinoline, (±)	105728-23-2	22.00	0.9610	1
17402	C9H14ClN	phenyltrimethylammonium chloride	138-24-9	25.00	1.0247	2	17821	C9H17NO	2,2-diethyl-4-pentenamide	512-48-1	22.00	0.9169	2
17403	C9H14ClNO	phenylpropanolamine hydrochloride	154-41-6	25.00	1.0839	2	17825	C9H17NO	2,2,6,6-tetramethyl-4-piperidinone	826-36-8	22.00	0.9169	2
17404	C9H14ClN5	cyprazine	22936-86-3	25.00	1.2340	2	17832	C9H17NO2	3-amino-3-cyclohexylpropionic acid	129042-71-3	24.00	0.9644	2
17407	C9H14IN	phenyltrimethylammonium iodide	98-04-4	25.00	1.4709	2	17843	C9H17NO4	boc-ala-ome	28875-17-4	25.00	1.0300	1
17408	C9H14NO3	2,2,5,5-tetramethyl-3-pyrrolin-1-oxyl-3-carb*	2154-67-8	25.00	1.1018	2	17844	C9H17NO4	boc-d-ala-ome	91103-47-8	25.00	1.0300	1
17418	C9H14N2O	4-methyl-2H-imidazole-1-oxide-2-spirocyclohe*	205692-62-2	25.00	1.0150	2	17845	C9H17NO4	g-(boc-amino)butyric acid	57294-38-9	23.33	1.0303	2
17420	C9H14N2O3	5-ethyl-5-isopropyl-2,4,6(1H,3H,5H)-pyrimidi*	76-76-6	25.00	1.1562	2	17846	C9H17NO4	boc-a-methylalanine	30992-29-1	23.33	1.0303	2
17421	C9H14N2O3	metharbital	50-11-3	25.00	1.1562	2	17849	C9H17NO5	boc-L-threonine	2592-18-9	25.00	1.1422	2
17430	C9H14N4O3	carnosine	305-84-0	25.00	1.2573	2	17851	C9H17NS	octyl thiocyanate	19942-78-0	25.00	0.9149	1
17431	C9H14N4O3	4-(2-(5-nitroimidazol-1-yl)ethyl)morpholine	6506-37-2	25.00	1.2573	2	17853	C9H17N2O2	3-carbamoyl-2,2,5,5-tetramethylpyrrolidin-1-*	4399-80-8	25.00	1.0329	2
17432	C9H14N4O4	morial	25717-80-0	25.00	1.3055	2	17854	C9H17N2O2	2,2,5,5-tetramethyl-4-ethyl-3-imidazoline-3-*	66582-85-2	25.00	1.0329	2
17436	C9H14O	isophorone	78-59-1	-8.10	1.1029	2	17857	C9H17N5S	ametryn	834-12-8	25.00	1.1574	2
17437	C9H14O	3,3-dimethylbicyclo[2.2.1]heptan-2-one, (1S)	6069-71-2	20.00	0.8070	1	17859	C9H18	butylcyclopentane	2040-95-1	-107.97	1.0251	2
17449	C9H14O	phorone	504-20-1	20.00	0.8850	1	17916	C9H18	propylcyclohexane	1678-92-8	-94.90	1.0251	2
17451	C9H14O	bicyclo[3.3.1]nonan-9-one	17931-55-4	21.74	0.9105	2	17917	C9H18	isopropylcyclohexane	696-29-7	-89.39	1.0327	2
17472	C9H14O2	2,2,3-trimethyl-3-cyclopentene-1-carboxylic *	6709-22-4	18.00	1.0145	1	17939	C9H18	cis,trans-1,3,5-trimethylcyclohexane	1795-26-2	-84.39	1.0036	2
17473	C9H14O2	2,3,3-trimethyl-1-cyclopentene-1-carboxylic *	5587-63-3	21.17	0.9954	2	17942	C9H18	1-nonene	124-11-8	-81.24	0.9355	2
17477	C9H14O2	5-norbornene-2-endo,3-endo-dimethanol	699-97-8	21.17	0.9954	2	17946	C9H18	2-methyl-1-octene	4588-18-5	-77.68	0.9405	2
17482	C9H14O3	bis(2-methallyl) carbonate	64057-79-0	25.00	0.9430	1	17948.1	C9H18	7-methyl-1-octene	13151-06-9	-79.15	0.9960	2
17500	C9H14O4	diethyl methylenesuccinate	2409-52-1	20.00	1.0467	1	17954	C9H18BiN3S6	bismuth dimethyldithiocarbamate	21260-46-8	25.00	2.0400	1
17506	C9H14O4	3,3-tetramethyleneglutaric acid	16713-66-9	21.00	1.0574	2	17960	C9H18Cl2	2,6-dichloro-2,6-dimethylheptane	35951-36-1	25.00	0.9977	2
17513	C9H14O6	glyceryl triacetate	102-76-1	4.10	1.3791	2	17969	C9H18NO	2,2,6,6-tetramethylpiperidinooxy	2564-83-2	25.00	0.8981	2
17516	C9H14O6	1,3:2,5:4,6-tri-O-methylene-D-mannitol	5434-31-1	25.00	1.1673	2	17970	C9H18NO2	4-hydroxy-2,2,6,6-tetramethyl-1-piperidinylo*	2226-96-2	25.00	0.9591	2
17517	C9H14O7	trimethyl citrate	1587-20-8	25.00	1.2632	2	17978	C9H18N2O	2,2,5,5-tetramethyl-3-pyrrolidinecarboxamide	702-96-5	25.00	0.9553	2
17518.1	C9H14O7	trilatic acid	78024-33-6	39.00	1.4872	2	17983	C9H18N2O	2,2,6,6-tetramethyl-4-piperidone oxime	4168-79-0	25.00	0.9553	2
17530	C9H15BrN2O3	1-acetyl-3-(2-bromo-2-ethylbutyryl)urea	77-66-7	25.00	1.4257	2	17987	C9H18N2O2S	thiofanox	39196-18-4	25.00	1.0948	2
17546	C9H15N	N,N-diallyl-2-propen-1-amine	102-70-5	-73.15	1.0182	2	17990	C9H18N2O4	2-methyl-2-propyl-1,3-propanediol dicarbamate	57-53-4	25.00	1.1188	2
17548	C9H15N	3-ethyl-2,4,5-trimethylpyrrole	520-69-4	20.67	0.8863	2	17994	C9H18N4O4	(+)-octopine	34522-32-2	25.00	1.2097	2
17551	C9H15NO	9-methyl-9-azabicyclo[3.3.1]nonan-3-one	552-70-5	100.00	1.0010	1	17995	C9H18N6	hexamethylmelamine	645-05-6	25.00	1.1091	2
17554	C9H15NO2	3,3-diethyl-2,4-piperidinedione	77-03-2	25.00	0.9866	2	17996	C9H18N6O6	hexamethylolmelamine	531-18-0	25.00	1.3716	2
17559	C9H15NO2	ethyl 2-amino-1-cyclohexene-1-carboxylate	1128-00-3	25.00	0.9866	2	17997	C9H18O	1-nonanal	124-19-6	-18.00	1.0014	2
17562	C9H15NO3	5,5-dipropyl-2,4-oxazolidinedione	512-12-9	25.00	1.0672	2	17998	C9H18O	diisobutyl ketone	108-83-8	-45.98	0.9985	2
17563	C9H15NO3	ecgonine	481-37-8	25.00	1.0672	2	17999	C9H18O	2-nonanone	821-55-6	-7.50	0.9857	2
17569	C9H15NO3S	captopril	62571-86-2	25.00	1.1604	2	18010	C9H18O	5-nonanone	502-56-7	-5.90	0.9829	2
17573	C9H15NO5	diethyl 2-acetamidomalonate	1068-90-2	25.00	1.1875	2	18011	C9H18O	1-ethyl-2-methylcyclohexanol	102370-18-3	20.00	0.9235	1
17574	C9H15NO6	N-boc-L-aspartic acid	13726-67-5	25.00	1.2370	2	18012	C9H18O	1-ethyl-3-methylcyclohexanol	62067-44-1	20.00	0.9013	1
17576	C9H15N2O2	3-carbamoyl-2,2,5,5-tetramethyl-3-pyrrolin-1*	3229-73-0	25.00	1.0758	2	18013	C9H18O	1-isopropylcyclohexanol	3552-01-0	25.00	0.9223	1
17577	C9H15N2O2	2,2,5,5-tetramethyl-4-methylene-3-formyl-imi*	82814-77-5	25.00	1.0758	2	18014	C9H18O	cis-2-isopropylcyclohexanol	10488-25-2	25.00	0.9223	1
17579	C9H15N3O2S	ergothioneine	497-30-3	25.00	1.2060	2	18015	C9H18O	cis-4-isopropylcyclohexanol	22900-08-9	20.00	0.9200	1
17582	C9H15N3O7	lycomarasmine	7611-43-0	25.00	1.3680	2	18017	C9H18O	1-propylcyclohexanol	5445-24-9	12.00	0.9340	1
17583	C9H15N5O	2,4-diamino-6-piperidinopyrimidine-3-oxide	38304-91-5	25.00	1.1792	2	18018	C9H18O	cis-2-propylcyclohexanol	5857-86-3	11.00	0.9247	1
17593	C9H16	1-nonyne	3452-09-3	-49.99	0.9503	2	18019	C9H18O	trans-2-propylcyclohexanol	5846-43-5	11.00	0.9162	1
17601	C9H16	bicyclo[3.3.1]nonane	280-65-9	21.14	0.7934	2	18020	C9H18O	cis-4-propylcyclohexanol	98790-22-8	16.00	0.9102	1
17602	C9H16	2-methylbicyclo[2.2.2]octane	766-53-0	40.00	0.8664	1	18021	C9H18O	trans-4-propylcyclohexanol	77866-58-1	25.00	0.8998	1
17630	C9H16ClNO2	ethyl trans-2-amino-4-cyclohexene-1-carboxyl*	142547-16-8	25.00	1.0954	2	18022	C9H18O	1,2,2-trimethylcyclohexanol	31720-69-1	20.00	0.9230	1
17631	C9H16ClN3O2	1-(2-chloroethyl)-3-cyclohexyl-1-nitrosourea	13010-47-4	25.00	1.1907	2	18023	C9H18O	1,2,6-trimethylcyclohexanol	96244-13-2	15.00	0.9126	1
17637	C9H16ClN5	propazine	139-40-2	20.00	1.1620	1	18024	C9H18O	1,3,5-trimethylcyclohexanol	90760-75-1	17.00	0.8876	1
17638	C9H16ClN5	terbuthylazine	5915-41-3	20.00	1.1880	1	18025	C9H18O	2,2,5-trimethylcyclohexanol	73210-25-0	22.00	0.8955	1
17640	C9H16ClN5	triethazine	1912-26-1	20.00	1.1750	2	18026	C9H18O	2,2,6-trimethylcyclohexanol	10130-91-3	20.00	0.9128	1
17646	C9H16NO2	4-oxo-2,2,6,6-tetramethylpiperidinooxy, free*	2896-70-0	25.00	0.9979	2	18027	C9H18O	2,3,3-trimethylcyclohexanol	116724-17-5	25.00	0.9002	1
17649	C9H16N2O	2,2,5,5-tetramethyl-3-pyrroline-3-carboxamide	19805-75-5	25.00	0.9942	2	18028	C9H18O	2,3,6-trimethylcyclohexanol	58210-03-0	17.00	0.9117	1
17651	C9H16N2O2	(2-isopropyl-4-pentenoyl)urea	528-92-7	25.00	1.0538	2	18029	C9H18O	cis-3,3,5-trimethylcyclohexanol	933-48-2	16.00	0.9006	1
17654	C9H16N2O5	Na-boc-L-asparagine	7536-55-2	25.00	1.2116	2	18030	C9H18O	trans-3,3,5-trimethylcyclohexanol	767-54-4	60.00	0.8631	1
17655	C9H16N2O5	Na-boc-D-asparagine	75647-01-7	25.00	1.2116	2	18043	C9H18O	3,5,5-trimethylcyclohexanol	116-02-9	40.00	0.8780	1
17659	C9H16N4OS	tebuthiuron	34014-18-1	25.00	1.1813	2	18046	C9H18O	4-(1-methylethyl)cyclohexanol	4621-04-9	21.79	0.8704	2
17664	C9H16O	cyclononanone	3350-30-9	20.00	0.9560	1	18052	C9H18O2	nonanoic acid	112-05-0	-18.00	1.0489	1
17669	C9H16O	1,7-dimethylbicyclo[2.2.1]heptan-2-ol, (exo,*	509-12-6	20.65	0.8937	2	18057	C9H18O2	2-methyloctanoic acid	3004-93-1	-33.15	1.0993	2
17670	C9H16O	2-ethyl-2-methylcyclohexanone	17206-52-9	17.00	0.9037	1	18058	C9H18O2	octyl formate	112-32-3	-39.10	1.0808	2
17671	C9H16O	2-isopropylcyclohexanone	1004-77-9	16.00	0.9220	1	18059	C9H18O2	heptyl acetate	112-06-1	-50.20	1.0903	2
17672	C9H16O	4-isopropylcyclohexanone	5432-85-9	30.00	0.9099	1	18071	C9H18O2	butyl valerate	591-68-4	-92.80	1.1203	2
17673	C9H16O	2-propylcyclohexanone	94-65-5	20.00	0.9270	1	18090	C9H18O3	di-tert-butyl carbonate	34619-03-9	22.50	0.9257	2
17674	C9H16O	4-propylcyclohexanone	40649-36-3	19.00	0.9072	1	18099.1	C9H18O3	triacetone alcohol	3682-91-5	57.25	0.9514	2
17675	C9H16O	2,2,3-trimethylcyclohexanone	39257-08-4	15.00	0.9234	1	18101	C9H18O4	di(propylene glycol) methyl ether acetate, i*	88917-22-0	-28.15	1.1966	2
17676	C9H16O	2,2,4-trimethylcyclohexanone	35413-38-8	20.00	0.8900	1	18108	C9H18O5S	isopropyl-b-D-thiogalactopyranoside, dioxane*	367-93-1	25.00	1.1470	2
17677	C9H16O	2,2,5-trimethylcyclohexanone	933-36-8	24.00	0.8871	1	18110	C9H18O6	3,4-isopropylidene-D-mannitol	3969-84-4	25.00	1.1235	2
17679	C9H16O	2,3,6-trimethylcyclohexanone	42185-47-7	18.00	0.9129	1	18116	C9H19BrO	9-bromo-1-nonanol	55362-80-6	25.00	1.1497	2
17680	C9H16O	2,4,4-trimethylcyclohexanone	2230-70-8	20.00	0.9020	1	18125	C9H19ClO	9-chloro-1-nonanol	51308-99-7	25.00	0.9335	2
17681	C9H16O	2,4,5-trimethylcyclohexanone	51299-55-9	20.00	0.8970	1	18138	C9H19N	2,2,6,6-tetramethylpiperidine	768-66-1	16.00	0.8367	1
17682	C9H16O	2,4,6-trimethylcyclohexanone	90645-54-8	20.00	0.8992	1	18150	C9H19NO	nonanamide	1120-07-6	110.00	0.8394	1
17683	C9H16O	3,3,5-trimethylcyclohexanone	873-94-9	19.00	0.8919	1	18151	C9H19NO	2,2,6,6-tetramethyl-4-piperidinol	2403-88-5	38.00	0.8816	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
18152	C9H19NO	1-cyclohexylamino-2-propanol	103-00-4	38.00	0.8816	2	18498	C10H5ClN2	o-chlorobenzylidene malononitrile	2698-41-1	25.00	1.3606	2
18155	C9H19NO2	1-nitrononane	2216-21-9	20.00	0.9113	2	18499	C10H5ClN2	a-chlorobenzylidenemalononitrile	18270-61-6	25.00	1.3606	2
18164	C9H19NO3S	CAPS	1135-40-6	25.00	1.0781	2	18500	C10H5ClN2O4	2,4-dinitro-1-chloro-naphthalene	2401-85-6	25.00	1.5682	2
18169	C9H19N3O	N-isopropyl-1-piperazineacetamide	39890-42-1	25.00	0.9908	2	18501	C10H5ClO2	5-chloro-1,4-naphthalenedione	40242-15-7	25.00	1.3625	2
18176	C9H20	nonane	111-84-2	-53.52	0.8860	1	18502	C10H5ClO3	2-chloro-3-hydroxy-1,4-naphthalenedione	1526-73-4	25.00	1.4193	2
18177	C9H20	2-methyloctane	3221-61-2	-103.15	0.9504	2	18503	C10H5Cl2NO2	quinclorac	84087-01-4	25.00	1.7500	1
18178	C9H20	3-methyloctane	2216-33-3	-107.60	0.9504	2	18504	C10H5Cl2NO2	1,2-dichloro-3-nitronaphthalene	6240-55-7	25.00	1.4869	2
18179	C9H20	4-methyloctane	2216-34-4	-113.20	0.9530	2	18505	C10H5Cl3	trichloronaphthalene	1321-65-9	25.00	1.5800	1
18180	C9H20	3-ethylheptane	15869-80-4	-114.90	0.9594	2	18507	C10H5Cl7	heptachlor	76-44-8	9.00	1.5700	1
18182	C9H20	2,2-dimethylheptane	1071-26-7	-113.00	0.9427	2	18508	C10H5Cl7O	heptachlor epoxide	1024-57-3	25.00	1.6297	2
18186	C9H20	2,6-dimethylheptane	1072-05-5	-102.90	0.9491	2	18510	C10H5F3O3	7-hydroxy-4-(trifluoromethyl)coumarin	575-03-1	25.00	1.4435	2
18196	C9H20	2,2,5-trimethylhexane	3522-94-9	-105.76	0.9491	2	18512	C10H5F7O2S	4,4,5,5,6,6,6-heptafluoro-1-(2-thienyl)-1,3-*	559-94-4	25.00	1.5423	2
18200	C9H20	2,4,4-trimethylhexane	16747-30-1	-113.37	0.9594	2	18516	C10H5N3O6	1,3,5-trinitronaphthalene	2243-94-9	25.00	1.6513	2
18202	C9H20	3,3-diethylpentane	1067-20-5	-33.03	0.9273	2	18519	C10H6BrCl	1-bromo-4-chloronaphthalene	53220-82-9	25.00	1.5634	2
18203	C9H20	2,2-dimethyl-3-ethylpentane	16747-32-3	-99.47	0.9594	2	18520	C10H6BrNO2	1-bromo-3-nitronaphthalene	7499-65-2	25.00	1.6500	2
18205	C9H20	2,4-dimethyl-3-ethylpentane	1068-87-7	-122.36	0.9825	2	18521	C10H6BrNO2	2-bromo-1-nitronaphthalene	4185-62-0	25.00	1.6500	2
18206	C9H20	2,2,3,3-tetramethylpentane	7154-79-2	-9.89	0.9106	2	18522	C10H6Br2	1,3-dibromonaphthalene	52358-73-3	25.00	1.8199	2
18207	C9H20	2,2,3,4-tetramethylpentane	1186-53-4	-121.09	0.9786	2	18523	C10H6Br2	1,4-dibromonaphthalene	83-53-4	25.00	1.8199	2
18208	C9H20	2,2,4,4-tetramethylpentane	1070-87-7	-66.20	0.9158	2	18524	C10H6Br2	1,5-dibromonaphthalene	7351-74-8	25.00	1.8199	2
18209	C9H20	2,3,3,4-tetramethylpentane	16747-38-9	-102.12	0.9825	2	18525	C10H6Br2O	1,6-dibromo-2-naphthol	16239-18-2	25.00	1.8554	2
18211	C9H20ClN	cyclopentamine hydrochloride	538-02-3	25.00	0.9134	2	18526	C10H6Br3N	a,a,a-tribromoquinaldine	613-53-6	25.00	2.0961	2
18213	C9H20INOS	S-butyrylthiocholine iodide	1866-16-6	25.00	1.3969	2	18528	C10H6ClNO2	1-chloro-5-nitronaphthalene	605-63-0	25.00	1.3831	2
18214	C9H20IN3	1-(3-dimethylaminopropyl)-3-ethylcarbodiimid*	22572-40-3	25.00	1.3860	2	18529	C10H6ClNO2	1-chloro-8-nitronaphthalene	602-37-9	25.00	1.3831	2
18224	C9H20N2O	1,1-diisobutylurea	77464-06-3	25.00	0.9200	2	18530	C10H6ClNO2	2-chloro-1-nitronaphthalene	4185-63-1	25.00	1.4854	1
18226	C9H20N2O	dibutylurea	1792-17-2	25.00	0.9200	2	18531	C10H6ClNO2	2-amino-3-chloro-1,4-naphthoquinone	2797-51-5	25.00	1.3831	2
18231	C9H20N2O4S	EPPS	16052-06-5	25.00	1.1488	2	18533	C10H6Cl2	1,2-dichloronaphthalene	2050-69-3	49.00	1.3147	1
18232	C9H20N2S	N,N'-dibutylthiourea	109-46-6	25.00	0.9551	2	18534	C10H6Cl2	1,3-dichloronaphthalene	2198-75-6	69.00	1.3316	2
18234	C9H20N4O4	NG-monomethyl-D-arginine monoacetate	137694-75-8	25.00	1.1679	2	18535	C10H6Cl2	1,4-dichloronaphthalene	1825-31-6	76.00	1.2997	1
18235	C9H20N4O4	NG-monomethyl-L-arginine monoacetate	53308-83-1	25.00	1.1679	2	18536	C10H6Cl2	1,5-dichloronaphthalene	1825-30-5	20.00	1.4900	1
18236	C9H20O	1-nonanol	143-08-8	-5.00	0.9882	2	18537	C10H6Cl2	1,7-dichloronaphthalene	2050-73-9	100.00	1.2611	1
18237	C9H20O	2-nonanol	628-99-9	-35.00	1.0112	2	18538	C10H6Cl2	1,8-dichloronaphthalene	2050-74-0	100.00	1.2924	1
18249	C9H20O	7-methyl-1-octanol	2430-22-0	25.00	0.8260	1	18539	C10H6Cl2	2,6-dichloronaphthalene	2065-70-5	69.00	1.3316	2
18288	C9H20O	2,6-dimethyl-4-heptanol	108-82-7	-65.15	1.0257	2	18540	C10H6Cl2N2O	1-phenyl-4,5-dichloro-6-pyridazone	1698-53-9	25.00	1.4528	2
18330	C9H20O	3,3,4,4-tetramethyl-2-pentanol	66793-88-2	24.67	0.8302	2	18541	C10H6Cl2N2O2	3-chloro-4-(3-chloro-2-nitrophenyl)pyrrole	1018-71-9	25.00	1.4985	2
18335	C9H20O	2,2,4,4-tetramethyl-3-pentanol	14609-79-1	24.67	0.8302	2	18542	C10H6Cl2O	2,3-dichloro-1-naphthalenol	71284-96-3	25.00	1.3533	2
18342	C9H20O2	1,9-nonanediol	3937-56-2	28.00	0.8542	2	18543	C10H6Cl2O	2,4-dichloro-1-naphthalenol	2050-76-2	25.00	1.3533	2
18343	C9H20O2	2-butyl-2-ethyl-1,3-propanediol	115-84-4	50.00	0.9270	1	18544	C10H6Cl4O4	dimethyl tetrachloroterephthalate	1861-32-1	25.00	1.5908	2
18355	C9H20O3	di(propylene glycol) propyl ether, isomers	29911-27-1	-70.15	1.1703	2	18545	C10H6Cl4O4	ethyl 3,4,5,6-tetrachlorophthalate	602-21-1	25.00	1.5908	2
18360	C9H20O4	tripropylene glycol	24800-44-0	-45.00	1.2516	2	18551	C10H6Cl8	chlordane	57-74-9	25.00	1.6000	1
18365	C9H20S	nonyl mercaptan	1455-21-6	-20.10	1.0229	2	18555	C10H6F3NO	7-(trifluoromethyl)-4-quinolinol	322-97-4	25.00	1.3581	2
18371	C9H20S	tert-nonyl mercaptan, isomers	25360-10-5	-43.15	1.1126	2	18556	C10H6F3NO2	coumarin 151	53518-15-3	25.00	1.4096	2
18374	C9H21AlO3	aluminum isopropoxide	555-31-7	25.00	1.0350	1	18559	C10H6F6O2	3,5-bis(trifluoromethyl)phenylacetic acid	85068-33-3	25.00	1.4478	2
18381	C9H21ClO3Ti	chlorotriisopropoxytitanium	20717-86-6	25.00	1.1705	1	18561	C10H6F16O2	2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluo*	754-96-1	25.00	1.6113	2
18388	C9H21N	nonylamine	112-20-9	0.00	0.9399	2	18562	C10H6F17NO2S	sulfluramid	4151-50-2	25.00	1.6657	2
18393	C9H21N	tripropylamine	102-69-2	-93.50	0.9757	2	18564	C10H6N2	5-isoquinolinecarbonitrile	27655-41-0	25.00	1.2242	2
18399	C9H21NO3	triisopropanolamine	122-20-3	20.00	1.0000	1	18565	C10H6N2	2-quinolinecarbonitrile	1436-43-7	25.00	1.2242	2
18402	C9H21N3	1,5,9-triazacyclododecane	294-80-4	25.00	0.8997	2	18566	C10H6N2	4-quinolinecarbonitrile	2973-27-5	25.00	1.2242	2
18423	C9H22N2	N1,N1-diethyl-1,4-pentanediamine	140-80-7	20.00	0.8140	1	18567	C10H6N2	benzylidenemalononitrile	2700-22-3	25.00	1.2242	2
18424	C9H22N2	N,N,N',N'-tetraethylmethanediamine	102-53-4	20.00	0.8000	1	18568	C10H6N2OS2	chinomethionat	2439-01-2	25.00	1.4403	2
18425	C9H22N2	1,9-diaminononane	646-24-2	22.50	0.8215	2	18569	C10H6N2O2	5H,10H-dipyrrolo[1,2-a:1',2'-d]pyrazine-5,10*	484-73-1	25.00	1.3572	2
18426	C9H22N2	N,N'-diisopropyl-1,3-propanediamine	63737-71-3	25.00	0.8050	1	18571	C10H6N2O4	1,3-dinitronaphthalene	606-37-1	25.00	1.4701	2
18427	C9H22N2	2,2,4(2,4,4)-trimethyl-1,6-hexanediamine	25620-58-0	25.00	0.8670	1	18572	C10H6N2O4	1,5-dinitronaphthalene	605-71-0	20.00	1.5860	1
18428	C9H22N2S2	diethyldithiocarbamic acid, diethylammonium *	1518-58-7	25.00	1.0029	2	18573	C10H6N2O4	1,8-dinitronaphthalene	602-38-0	25.00	1.4701	2
18455	C10Cl8	octachloronaphthalene	2234-13-1	25.00	1.7712	2	18574	C10H6N2O4S	1-diazo-2-naphthol-4-sulfonic acid, contains*	887-76-3	25.00	1.5262	2
18457	C10Cl10	pentac	2227-17-0	25.00	1.8094	2	18575	C10H6N2O4S2	dimethyl-2,2-(1,3-dithian-2,4-diyliden)-bis-*	52046-75-0	25.00	1.5725	2
18458	C10Cl10O	kepone	143-50-0	25.00	1.6100	1	18576	C10H6N2O5	saffron yellow	605-69-6	25.00	1.5204	2
18459	C10Cl12	mirex	2385-85-5	25.00	1.8386	2	18579	C10H6N4	pyrazino[2,3-f]quinoxaline	231-23-2	25.00	1.3552	2
18460	C10HF7O	b-hydroxy-heptafluoronaphthalene	727-49-1	25.00	1.5916	2	18580	C10H6N4O	6-quinoline carbonyl azide	---	25.00	1.4151	2
18461	C10HF7O	a-hydroxy-heptafluoronaphthalene	5386-30-1	25.00	1.5916	2	18581	C10H6N4O4S2	2,2'-dithiobis(5-nitropyridine)	2127-10-8	25.00	1.6504	2
18462	C10F8	perfluoronaphthalene	313-72-4	25.00	1.6055	2	18584	C10H6O2	1,2-naphthalenedione	524-42-5	25.00	1.4500	1
18467	C10F21I	perfluorodecyl iodide	423-62-1	25.00	1.9785	2	18585	C10H6O2	1,4-naphthalenedione	130-15-4	25.00	1.2291	2
18472	C10HF19O2	nonadecafluorodecanoic acid	335-76-2	25.00	1.7490	2	18586	C10H6O3	2-hydroxy-1,4-naphthalenedione	83-72-7	25.00	1.2969	2
18474	C10H2Cl6	hexachloronaphthalene	1335-87-1	25.00	1.7800	1	18587	C10H6O3	5-hydroxy-1,4-naphthalenedione	481-39-0	25.00	1.2969	2
18478	C10H2F16O4	perfluorosebacic acid	307-78-8	25.00	1.7502	2	18588	C10H6O3	chromone-3-carboxaldehyde	17422-74-1	25.00	1.2969	2
18479	C10H2N4	1,2,4,5-benzenetetracarbonitrile	712-74-3	25.00	1.5304	2	18589	C10H6O3	phenylmaleic anhydride	36122-35-7	25.00	1.2969	2
18480	C10H2O6	pyromellitic dianhydride	89-32-7	25.00	1.6387	2	18590	C10H6O3S	1,8-naphthalenediol sulfite, cyclic	21849-97-8	25.00	1.3762	2
18482	C10H3Cl5	pentachloronaphthalene	1321-64-8	25.00	1.7000	1	18591	C10H6O4	2,3-dihydroxy-1,4-naphthalenedione	605-37-8	25.00	1.3592	2
18484	C10H3F19O	2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-non*	307-37-9	25.00	1.6820	2	18592	C10H6O4	5,8-dihydroxy-1,4-naphthalenedione	475-38-7	25.00	1.3592	2
18485	C10H4Cl2O2	2,3-dichloro-1,4-naphthalenedione	117-80-6	25.00	1.4739	2	18593	C10H6O4	chromone-3-carboxylic acid	39079-62-4	25.00	1.3592	2
18486	C10H4Cl2O2	3,4-dichloro-1,2-naphthalenedione	18398-36-2	25.00	1.4739	2	18594	C10H6O4	a-furil	492-94-4	25.00	1.3592	2
18487	C10H4Cl2O2	5,6-dichloro-1,4-naphthalenedione	56961-93-4	25.00	1.4739	2	18595	C10H6O4	4-oxo-4H-1-benzopyran-2-carboxylic acid	4940-39-0	25.00	1.3592	2
18488	C10H4Cl2O4	2,3-dichloro-5,8-dihydroxy-1,4-naphtoquinone	14918-69-5	25.00	1.5673	2	18598	C10H6O8	pyromellitic acid	89-05-4	280.85	2.2010	2
18489	C10H4Cl4	tetrachloronaphthalene	1335-88-2	25.00	1.5900	1	18599	C10H6O8	1,2,3,4-benzene-tetracarboxylic acid	476-73-3	25.00	1.5653	2
18490	C10H4Cl8O	oxychlordane	27304-13-8	25.00	1.6844	2	18601	C10H7Br	1-bromonaphthalene	90-11-9	6.20	1.7518	2
18491	C10H4F17I	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecaf*	2043-53-0	25.00	1.8820	2	18602	C10H7Br	2-bromonaphthalene	580-13-2	25.00	1.6050	1
18493	C10H4N4O8	1,3,6,8-tetranitronaphthalene	28995-89-3	25.00	1.6400	1	18604	C10H7BrO	1-bromo-2-naphthalenol	573-97-7	25.00	1.5132	2
18494	C10H5BrO2	3-bromo-1,2-naphthalenedione	7474-83-1	25.00	1.6460	2	18605	C10H7BrO	6-bromo-2-naphthol	15231-91-1	25.00	1.5132	2
18495	C10H5BrO2	6-bromo-1,2-naphthoquinone	6954-48-9	25.00	1.6460	2	18606	C10H7Cl	1-chloronaphthalene	90-13-1	-4.00	1.3985	2
18496	C10H5BrO3	2-bromo-3-hydroxy-1,4-naphthalenedione	1203-39-0	25.00	1.6912	2	18607	C10H7Cl	2-chloronaphthalene	91-58-7	71.00	1.1377	1
18497	C10H5ClF3N	4-chloro-7-(trifluoromethyl)quinoline	346-55-4	25.00	1.4120	2	18608	C10H7Cl	monochloronaphthalene	25586-43-0	25.00	1.2200	1

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
18609	C10H7ClO	6-chloro-2-naphthalenol	40604-49-7	25.00	1.2339	2	18731	C10H8N2O4	di-2-furanylethanedione dioxime	522-27-0	25.00	1.3988	2
18610	C10H7ClO	8-chloro-2-naphthol	29921-50-4	25.00	1.2339	2	18734	C10H8N2S2	2,2'-dithiodipyridine	2127-03-9	25.00	1.3266	2
18611	C10H7ClO	4-chloro-1-naphthol	604-44-4	25.00	1.2339	2	18735	C10H8N2S2	4,4'-dithiodipyridine	2645-22-9	25.00	1.3266	2
18612	C10H7ClO2S	1-naphthalenesulfonyl chloride	85-46-1	25.00	1.3661	2	18739	C10H8N4O5	picrolonic acid	550-74-3	25.00	1.5403	2
18613	C10H7ClO2S	2-naphthalenesulfonyl chloride	93-11-8	25.00	1.3661	2	18740	C10H8O	1-naphthol	90-15-3	99.00	1.0989	1
18614	C10H7Cl2N	1-(2,4-dichlorophenyl)-1-cyclopropyl cyanide	71463-55-3	25.00	1.3207	2	18741	C10H8O	2-naphthol	135-19-3	20.00	1.2800	1
18615	C10H7Cl2NO	chloroquinaldol	72-80-0	25.00	1.3723	2	18744	C10H8O	1,4-epoxy-1,4-dihydronaphthalene	573-57-9	39.75	1.1209	2
18618	C10H7Cl5O	tridiphane	58138-08-2	25.00	1.5007	2	18748	C10H8OS3	anethole trithione	532-11-6	25.00	1.3447	2
18623	C10H7F	2-fluoronaphthalene	323-09-1	25.00	1.1087	2	18749	C10H8O2	1-(2-benzofuranyl)ethanone	1646-26-0	24.00	1.0920	2
18626	C10H7F3O2	trans-4-(trifluoromethyl)cinnamic acid	16642-92-5	25.00	1.3275	2	18750	C10H8O2	1H-indene-1-carboxylic acid	5020-21-3	24.00	1.0920	2
18627	C10H7F3O2	3-(trifluoromethyl)cinnamic acid	779-89-5	25.00	1.3275	2	18751	C10H8O2	3-methyl-2H-1-benzopyran-2-one	2445-82-1	24.00	1.0920	2
18628	C10H7F3O2	4,4,4-trifluoro-1-phenyl-1,3-butanedione	326-06-7	25.00	1.3275	2	18753	C10H8O2	5-methyl-2H-1-benzopyran-2-one	42286-84-0	24.00	1.0920	2
18629	C10H7F3O3	3-(trifluoromethoxy)cinnamic acid	168833-80-5	25.00	1.3782	2	18754	C10H8O2	6-methyl-2H-1-benzopyran-2-one	92-48-8	24.00	1.0920	2
18632	C10H7I	2-iodonaphthalene	612-55-5	99.00	1.6319	1	18755	C10H8O2	7-methyl-2H-1-benzopyran-2-one	2445-83-2	24.00	1.0920	2
18634	C10H7NO	4-quinolinecarboxaldehyde	4363-93-3	25.00	1.1924	2	18756	C10H8O2	8-methyl-2H-1-benzopyran-2-one	1807-36-9	24.00	1.0920	2
18635	C10H7NO	1-nitrosonaphthalene	21711-65-9	25.00	1.1924	2	18757	C10H8O2	methyl 3-phenyl-2-propynoate	4891-38-7	25.00	1.0830	1
18637	C10H7NO2	2-nitronaphthalene	581-89-5	25.00	1.2601	2	18758	C10H8O2	1,3-naphthalenediol	132-86-5	24.00	1.0920	2
18638	C10H7NO2	1-nitroso-2-naphthalenol	131-91-9	25.00	1.2601	2	18759	C10H8O2	1,5-naphthalenediol	83-56-7	24.00	1.0920	2
18639	C10H7NO2	1-phenyl-1H-pyrrole-2,5-dione	941-69-5	25.00	1.2601	2	18760	C10H8O2	1,6-naphthalenediol	575-44-0	24.00	1.0920	2
18640	C10H7NO2	2-quinolinecarboxylic acid	93-10-7	25.00	1.2601	2	18761	C10H8O2	1,7-naphthalenediol	575-38-2	24.00	1.0920	2
18641	C10H7NO2	7-quinolinecarboxylic acid	1078-30-4	25.00	1.2601	2	18762	C10H8O2	2,6-naphthalenediol	581-43-1	24.00	1.0920	2
18642	C10H7NO2	8-quinolinecarboxylic acid	86-59-9	25.00	1.2601	2	18763	C10H8O2	2,7-naphthalenediol	582-17-2	24.00	1.0920	2
18643	C10H7NO2	1-isoquinolinecarboxylic acid	486-73-7	25.00	1.2601	2	18765	C10H8O2	2,3-dihydroxynaphthalene	92-44-4	24.00	1.0920	2
18644	C10H7NO2	1-nitronaphthalene	27254-36-0	25.00	1.3320	1	18767	C10H8O2	1,4-naphthalenediol	571-60-8	24.00	1.0920	2
18645	C10H7NO2	2-nitroso-1-naphthol	132-53-6	25.00	1.2601	2	18768	C10H8O2	4-methylcoumarin	607-71-6	24.00	1.0920	2
18647	C10H7NO2	3-quinolinecarboxylic acid	6480-68-8	25.00	1.2601	2	18769	C10H8O2	2-methyl-1,3-indandione	876-83-5	24.00	1.0920	2
18648	C10H7NO2S	1,8-naphthosultam	603-72-5	25.00	1.3415	2	18771	C10H8O3	dihydro-3-phenyl-2,5-furandione, (±)	112489-85-7	25.00	1.2294	2
18649	C10H7NO3	4-hydroxy-2-quinolinecarboxylic acid	492-27-3	25.00	1.3225	2	18772	C10H8O3	7-hydroxy-4-methyl-2H-1-benzopyran-2-one	90-33-5	25.00	1.2294	2
18650	C10H7NO3	1-nitro-2-naphthalenol	550-60-7	25.00	1.3225	2	18773	C10H8O3	3-benzoylacrylic acid	583-06-2	25.00	1.2294	2
18651	C10H7NO3	a-cyano-4-hydroxycinnamic acid	28166-41-8	25.00	1.3225	2	18774	C10H8O3	4-formylcinnamic acid, predominantly trans	23359-08-2	25.00	1.2294	2
18652	C10H7NO3	a-cyano-3-hydroxycinnamic acid	54673-07-3	25.00	1.3225	2	18775	C10H8O3	7-methoxycoumarin	531-59-9	25.00	1.2294	2
18653	C10H7NO3	8-hydroxyquinoline-2-carboxylic acid	1571-30-8	25.00	1.3225	2	18776	C10H8O3	phenylsuccinic anhydride	1131-15-3	25.00	1.2294	2
18654	C10H7NO3	2-nitro-1-naphthol	607-24-9	25.00	1.3225	2	18777	C10H8O3S	1-naphthalenesulfonic acid	85-47-2	25.00	1.3108	2
18656	C10H7NO4	4,8-dihydroxy-2-quinolinecarboxylic acid	59-00-7	25.00	1.3801	2	18778	C10H8O3S	2-naphthalenesulfonic acid	120-18-3	25.00	1.4410	1
18657	C10H7NO4	N-phthaloylglycine	4702-13-0	25.00	1.3801	2	18779	C10H8O4	anemonin	508-44-1	25.00	1.2905	2
18658	C10H7NO4	a-furilmonoxime	4339-69-9	25.00	1.3801	2	18780	C10H8O4	furfuryl 2-furancarboxylate	615-11-2	25.00	1.2347	1
18659	C10H7NO6	2-(3-hydroxycarbonyl-2-nitrophenyl)malondial*	205680-83-7	25.00	1.4833	2	18781	C10H8O4	7-hydroxy-6-methoxy-2H-1-benzopyran-2-one	92-61-5	25.00	1.2905	2
18660	C10H7NO6	2-(4-hydroxy-2-nitrocarbonylphenyl) malondia*	---	25.00	1.4833	2	18782	C10H8O4	4-carboxycinnamic acid	19675-63-9	25.00	1.2905	2
18661	C10H7N2O	4-hydroxybenzylidenemalonodinitrile	3785-90-8	25.00	1.2581	2	18783	C10H8O4	2-carboxycinnamic acid	612-40-8	25.00	1.2905	2
18663	C10H7N3	s-triazolo[4,3-a]quinoline	235-06-3	25.00	1.2561	2	18784	C10H8O4	furoin	552-86-3	25.00	1.2905	2
18669	C10H8	naphthalene	91-20-3	80.28	1.1570	1	18786	C10H8O4	7-methoxybenzofuran-2-carboxylic acid	4790-79-8	25.00	1.2905	2
18670	C10H8	azulene	275-51-4	25.00	1.0530	1	18787	C10H8O4	3,4-(methylenedioxy)cinnamic acid, predomina*	2373-80-0	25.00	1.2905	2
18671	C10H8BrN	5-bromo-1-naphthalenamine	4766-33-0	25.00	1.4752	2	18788	C10H8O4	4-methylesculetin	529-84-0	25.00	1.2905	2
18672	C10H8BrNO2	N-(2-bromoethyl)phthalimide	574-98-1	25.00	1.5705	2	18790	C10H8O4S	1-hydroxy-2-naphthalenesulfonic acid	567-18-0	25.00	1.3633	2
18673	C10H8BrNO2	5-bromoindole-3-acetic acid	40432-84-6	25.00	1.5705	2	18791	C10H8O4S	4-hydroxy-1-naphthalenesulfonic acid	84-87-7	25.00	1.3633	2
18674	C10H8BrN3O	2-amino-5-bromo-6-phenyl-4(1H)-pyrimidinone	56741-95-8	25.00	1.6160	2	18792	C10H8O4S	6-hydroxy-2-naphthalenesulfonic acid	93-01-6	25.00	1.3633	2
18675	C10H8Br2N2	2,3-bis(bromomethyl)quinoxaline	3138-86-1	25.00	1.8094	2	18795	C10H8O5	7,8-dihydroxy-6-methoxy-2H-1-benzopyran-2-one	574-84-5	25.00	1.3471	2
18679	C10H8ClN	2-chloro-4-methylquinoline	634-47-9	25.00	1.2011	2	18796	C10H8O6S2	1,5-naphthalenedisulfonic acid	81-04-9	25.00	1.4930	1
18680	C10H8ClN	2-chloro-8-methylquinoline	4225-85-8	25.00	1.2011	2	18797	C10H8O6S2	1,6-naphthalenedisulfonic acid	525-37-1	25.00	1.5073	2
18681	C10H8ClN	4-chloro-2-methylquinoline	4295-06-1	25.00	0.8810	1	18798	C10H8O6S2	2,7-naphthalenedisulfonic acid	92-41-1	25.00	1.5073	2
18682	C10H8ClN	2-chloro-3-methylquinoline	57876-69-4	25.00	1.2011	2	18803	C10H8S	2-naphthalenethiol	91-60-1	25.00	1.5500	1
18683	C10H8ClN	1-(4-chlorophenyl)-1-cyclopropanecarbonitrile	64399-27-5	25.00	1.2011	2	18804	C10H8S	2-phenylthiophene	825-55-8	22.50	1.3554	2
18684	C10H8ClN	1-(4-chlorophenyl)-1H-pyrrole	5044-38-2	25.00	1.2011	2	18805	C10H8S8	bis(ethylenedithio)tetrathiafulvalene	66946-48-3	25.00	1.5329	2
18685	C10H8ClN	7-chloro-2-methylquinoline	4965-33-7	25.00	1.2011	2	18810	C10H9BrO	6-bromo-2-tetralone	4133-35-1	25.00	1.4389	2
18686	C10H8ClN3O	chloridazon	1698-60-8	25.00	1.3681	2	18813	C10H9BrO3	3-(4-bromobenzoyl)propionic acid	6340-79-0	25.00	1.5334	2
18687	C10H8ClN3O2	3-methyl-4,5-isoxazoledione-4-((2-chlorophen*	5707-69-7	25.00	1.4178	2	18815	C10H9ClN2O2	3-(2-chloroethyl)-2,4(1H,3H)-quinazolinedione	5081-87-8	25.00	1.3381	2
18688	C10H8Cl2FNO3	ethyl 3-[2,6-dichloro-5-fluoro-(3-pyridiyl)]*	96568-04-6	25.00	1.4602	2	18816	C10H9ClN2O2	2-chloromethyl-5-(4-methoxyphenyl)-1,2,4-oxa*	24023-71-0	25.00	1.3381	2
18689	C10H8Cl2N2O2	2,4-dichloro-6,7-dimethoxyquinazoline	27631-29-4	25.00	1.4349	2	18817	C10H9ClN4O2S	sulfachlorpyridazine	80-32-0	25.00	1.4834	2
18691	C10H8Cl2O2	1-(2,4-dichlorophenyl)cyclopropanecarboxylic*	84604-70-6	25.00	1.3429	2	18819	C10H9ClO	4-chlorophenyl cyclopropyl ketone	6640-25-1	25.00	1.1600	1
18696	C10H8FN	6-fluoro-2-methylquinoline	1128-61-6	25.00	1.1465	2	18820	C10H9ClO2	methyl 3-chloro-3-phenyl-2-propenoate	87541-87-5	21.00	1.2248	1
18700	C10H8IN	1-(4-iodophenyl)pyrrole	92636-36-7	25.00	1.6897	2	18821	C10H9ClO2	methyl trans-2-chloro-3-phenyl-2-propenoate	14737-94-1	25.00	1.2337	2
18702	C10H8N2	benzylpropanedinitrile	1867-37-4	20.00	1.1507	2	18822	C10H9ClO2	1-(4-chlorophenyl)-1-cyclopropanecarboxylic *	72934-37-3	25.00	1.2337	2
18703	C10H8N2	2,2'-bipyridine	366-18-7	20.00	1.1507	2	18823	C10H9ClO3	alpha-(acetyloxy)benzeneacetyl chloride	1638-63-7	25.00	1.2887	2
18705	C10H8N2	2,4'-bipyridine	581-47-5	20.00	1.1507	2	18824	C10H9ClO3	3-(4-chlorobenzoyl)propionic acid	3984-34-7	25.00	1.2887	2
18706	C10H8N2	3,3'-bipyridine	581-46-4	20.00	1.1614	1	18826	C10H9Cl2NO	N-(3,4-dichlorophenyl)-2-methyl-2-propenamide	2164-09-2	25.00	1.3133	2
18707	C10H8N2	3,4'-bipyridine	4394-11-0	20.00	1.1507	2	18828	C10H9Cl2NO2	2',5'-dichloroacetoacetanilide	2044-72-6	25.00	1.3610	2
18708	C10H8N2	4,4'-bipyridine	553-26-4	20.00	1.1507	2	18832	C10H9Cl4NO2S	captafol	2425-06-1	25.00	1.5126	2
18709	C10H8N2	4,4'-dipyridyl hydrate	123333-55-1	20.00	1.1507	2	18836	C10H9Cl9	toxaphene	8001-35-2	25.00	1.6500	1
18710	C10H8N2	indole-3-acetonitrile	771-51-7	20.00	1.1507	2	18839	C10H9FO3	3-(4-fluorobenzoyl)propionic acid	366-77-8	25.00	1.2441	2
18711	C10H8N2	o-phenylenediacetonitrile	613-73-0	20.00	1.1507	2	18842	C10H9F3O	4'-(trifluoromethyl)propiophenone	711-33-1	25.00	1.2163	2
18712	C10H8N2	p-phenylenediacetonitrile	622-75-3	20.00	1.1507	2	18843	C10H9F3O3	(S)-(-)-a-methoxy-a-(trifluoromethyl)phenyla*	17257-71-5	25.00	1.3196	2
18713	C10H8N2	1,3-phenylenediacetonitrile	626-22-2	20.00	1.1507	2	18844	C10H9F3O3	(R)-(+)-a-methoxy-a-trifluoromethylphenylace*	20445-31-2	25.00	1.3440	1
18714	C10H8N2	4-phenylpyrimidine	3438-48-0	20.00	1.1507	2	18849	C10H9N	2-methylquinoline	91-63-4	-1.00	1.2572	2
18715	C10H8N2O	3-phenyl-1H-pyrazole-4-carboxaldehyde	26033-20-5	25.00	1.2250	2	18850	C10H9N	3-methylquinoline	612-58-8	20.00	1.0673	1
18717	C10H8N2O2	2,2'-dipyridyl N,N'-dioxide	7275-43-6	25.00	1.2874	2	18853	C10H9N	6-methylquinoline	91-62-3	20.00	1.0654	1
18720	C10H8N2O2	3-nitro-2-naphthylamine	13115-28-1	25.00	1.2874	2	18854	C10H9N	7-methylquinoline	612-60-2	20.00	1.0609	1
18721	C10H8N2O2S2	2,2'-dithiodipyridine-1,1'-dioxide	3696-28-4	25.00	1.4231	2	18857	C10H9N	3-methylisoquinoline	1125-80-0	21.82	1.0584	2
18723	C10H8N2O3	3-formyl-2-methyl-5-nitroindole	3558-17-6	25.00	1.3451	2	18858	C10H9N	4-methylisoquinoline	1196-39-0	21.82	1.0584	2
18724	C10H8N2O3	6-methoxy-8-nitroquinoline	85-81-4	25.00	1.3451	2	18859	C10H9N	6-methylisoquinoline	42398-73-2	21.82	1.0584	2
18725	C10H8N2O3	2-methyl-4-nitroquinoline-1-oxide	4831-62-3	25.00	1.3451	2	18860	C10H9N	8-methylisoquinoline	62882-00-2	21.82	1.0584	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
18861	C10H9N	1-naphthylamine	134-32-7	20.00	1.0228	1	19029	C10H10N2	4-methyl-2-quinolinamine	27063-27-0	46.67	1.1606	2
18862	C10H9N	2-naphthylamine	91-59-8	25.00	1.0610	1	19030	C10H10N2	6-methyl-8-quinolinamine	68420-93-9	46.67	1.1606	2
18863	C10H9N	1-phenyl-1H-pyrrole	635-90-5	21.82	1.0584	2	19031	C10H10N2	1,2-naphthalenediamine	938-25-0	46.67	1.1606	2
18864	C10H9N	2-phenyl-1H-pyrrole	3042-22-6	21.82	1.0584	2	19032	C10H10N2	1,4-naphthalenediamine	2243-61-0	46.67	1.1606	2
18866	C10H9NO	6-amino-2-naphthalenol	4363-04-6	24.83	1.1516	2	19033	C10H10N2	1,5-naphthalenediamine	2243-62-1	25.00	1.4000	1
18867	C10H9NO	8-amino-2-naphthalenol	118-46-7	24.83	1.1516	2	19034	C10H10N2	1,8-naphthalenediamine	479-27-6	90.00	1.1265	1
18868	C10H9NO	5-amino-1-naphthol	83-55-6	24.83	1.1516	2	19035	C10H10N2	2,3-naphthalenediamine	771-97-1	26.00	1.0968	1
18869	C10H9NO	1-(1H-indol-3-yl)ethanone	703-80-0	24.83	1.1516	2	19036	C10H10N2	1-naphthylhydrazine	2243-55-2	46.67	1.1606	2
18870	C10H9NO	7-methoxyisoquinoline	39989-39-4	24.83	1.1516	2	19037	C10H10N2	6-amino-2-methylquinoline	65079-19-8	46.67	1.1606	2
18871	C10H9NO	4-methoxyquinoline	607-31-8	24.83	1.1516	2	19038	C10H10N2	1-(2-aminophenyl)pyrrole	6025-60-1	46.67	1.1606	2
18872	C10H9NO	6-methoxyquinoline	5263-87-6	20.00	1.1520	1	19039	C10H10N2	1-benzylimidazole	4238-71-5	46.67	1.1606	2
18873	C10H9NO	8-methoxyquinoline	938-33-0	29.00	1.0340	1	19040	C10H10N2	2,3-dimethylquinoxaline	2379-55-7	46.67	1.1606	2
18874	C10H9NO	2-methyl-6-quinolinol	613-21-8	25.00	1.1665	1	19041	C10H10N2	3-(p-tolyl)pyrazole	59843-75-3	46.67	1.1606	2
18875	C10H9NO	2-methyl-8-quinolinol	826-81-3	24.83	1.1516	2	19042	C10H10N2	3-(pyrrol-1-ylmethyl)pyridine	80866-95-1	46.67	1.1606	2
18876	C10H9NO	6-methyl-7-quinolinol	84583-53-9	24.83	1.1516	2	19046	C10H10N2O	1,2-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-o*	19735-89-8	20.00	1.2600	1
18877	C10H9NO	6-methyl-8-quinolinol	20984-33-2	24.83	1.1516	2	19047	C10H10N2O	1,3-dihydro-1-(1-methylethenyl)-2H-benzimida*	52099-72-6	25.00	1.1646	2
18878	C10H9NO	1-methyl-2(1H)-quinolinone	606-43-9	24.83	1.1516	2	19048	C10H10N2O	1-(4-methoxyphenyl)-1H-imidazole	10040-95-6	25.00	1.1646	2
18880	C10H9NO	6-methyl-2(1H)-quinolinone	4053-34-3	24.83	1.1516	2	19049	C10H10N2O	3-(4-methoxyphenyl)pyrazole	27069-17-6	25.00	1.1646	2
18882	C10H9NO	2-hydroxy-4-methylquinoline	607-66-9	24.83	1.1516	2	19050	C10H10N2O	3-methyl-1-phenyl-2-pyrazoline-5-one	89-25-8	25.00	1.1646	2
18883	C10H9NO	4-hydroxy-2-methylquinoline	607-67-0	24.83	1.1516	2	19053	C10H10N2O2	3-methyl-5-phenyl-2,4-imidazolidinedione	6846-11-3	25.00	1.2256	2
18884	C10H9NO	4-methoxycinnamonitrile	28446-68-6	25.00	1.0960	1	19055	C10H10N2O2	2,3-dimethyl-7-nitroindole	41018-86-4	25.00	1.2256	2
18885	C10H9NO	4-methylbenzoylacetonitrile	7391-28-8	24.83	1.1516	2	19056	C10H10N2O2	5-methyl-5-phenylhydantoin	6843-49-8	25.00	1.2256	2
18888	C10H9NO	2-amino-1-naphthol	42884-33-3	24.83	1.1516	2	19065	C10H10N2O2S	1-(p-toluenesulfonyl)imidazole	2232-08-8	25.00	1.3017	2
18890	C10H9NO	N-hydroxy-1-aminonaphthalene	607-30-7	24.83	1.1516	2	19067	C10H10N2O3	1-acetyl-5-nitroindoline	33632-27-8	25.00	1.2823	2
18892	C10H9NO	2-naphthylhydroxylamine	613-47-8	24.83	1.1516	2	19068	C10H10N2O3	1-(4-nitrophenyl)-2-pyrrolidinone	13691-26-4	25.00	1.2823	2
18893	C10H9NO	a-phenylacetoacetonitrile	4468-48-8	24.83	1.1516	2	19069	C10H10N2O4	6,7-dimethoxy-2,4(1H,3H)-quinazolinedione	28888-44-0	25.00	1.3351	2
18895	C10H9NO2	N-ethyl-1H-isoindole-1,3(2H)-dione	5022-29-7	25.00	1.2355	2	19076	C10H10N4O	4-amino-3-methyl-6-phenyl-1,2,4-triazin-5-one	41394-05-2	25.00	1.2793	2
18896	C10H9NO2	alpha-ethynylbenzenemethanol carbamate	3567-38-2	25.00	1.2355	2	19077	C10H10N4OS	N-methylisatin-3-(thiosemicarbazone)	1910-68-5	25.00	1.3493	2
18897	C10H9NO2	1H-indole-3-acetic acid	87-51-4	25.00	1.2355	2	19078	C10H10N4O2S	4-amino-N-pyrazinylbenzenesulfonamide	116-44-9	25.00	1.3963	2
18899	C10H9NO2	1-phenyl-2,5-pyrrolidinedione	83-25-0	25.00	1.3560	1	19079	C10H10N4O2S	4-amino-N-2-pyrimidinylbenzenesulfonamide	68-35-9	25.00	1.3963	2
18901	C10H9NO2	7-amino-4-methylcoumarin	26093-31-2	25.00	1.2355	2	19082	C10H10N4O6	N,N'-(2,3-dinitro-1,4-phenylene)-bisacetamide	7756-00-5	25.00	1.5160	2
18902	C10H9NO2	5,7-dimethylisatin	39603-24-2	25.00	1.2355	2	19084	C10H10N6O2	triclose	62973-76-6	25.00	1.4300	2
18903	C10H9NO2	ethyl 4-cyanobenzoate	7153-22-2	25.00	1.2355	2	19087	C10H10O	2,3-dihydro-4-methyl-1H-inden-1-one	24644-78-8	21.35	1.0453	2
18904	C10H9NO2	indoxyl acetate	608-08-2	25.00	1.2355	2	19099	C10H10O	alpha-ethynyl-alpha-methylbenzenemethanol	127-66-2	20.00	1.0314	1
18905	C10H9NO2	5-methoxyindole-3-carboxaldehyde	10601-19-1	25.00	1.2355	2	19101	C10H10O	3-(4-methylphenyl)-2-propenal	1504-75-2	23.00	0.9670	1
18906	C10H9NO2	methyl indole-4-carboxylate	39830-66-5	25.00	1.2355	2	19102	C10H10O	3-phenyl-2-butenal	1196-67-4	21.35	1.0453	2
18907	C10H9NO2	methyl indole-3-carboxylate	942-24-5	25.00	1.2355	2	19104	C10H10O	trans-4-phenyl-3-buten-2-one	1896-62-4	45.00	1.0097	1
18912	C10H9NO2S	1-(phenylsulfonyl)pyrrole	16851-82-4	25.00	1.2793	2	19106	C10H10O	benzalacetone	122-57-6	25.00	1.0350	1
18914	C10H9NO3	cis-4-oxo-4-(phenylamino)-2-butenoic acid	555-59-9	30.00	1.4180	1	19110	C10H10O	6-methyl-1-indanone	24623-20-9	21.35	1.0453	2
18915	C10H9NO3	4-benzoyloxy-2-azetidinone	28562-58-5	27.50	1.2860	2	19113	C10H10OS	osmocene	1273-81-0	25.00	1.1379	2
18916	C10H9NO3	ethyl 4-isocyanatobenzoate	30806-83-8	27.50	1.2860	2	19117	C10H10O2	1,3-diacetylbenzene	6781-42-6	27.69	1.0799	2
18918	C10H9NO3	N-(2-hydroxyethyl)phthalimide	3891-07-4	27.50	1.2860	2	19118	C10H10O2	6-methyl-4-chromanone	39513-75-2	25.00	1.0710	1
18919	C10H9NO3	5-hydroxyindole-3-acetic acid	54-16-0	27.50	1.2860	2	19119	C10H10O2	methyl cinnamate	1754-62-7	36.00	1.0420	1
18920	C10H9NO3	5-methoxyindole-2-carboxylic acid	4382-54-1	27.50	1.2860	2	19122	C10H10O2	p-methylcinnamic acid	1866-39-3	27.69	1.0799	2
18930	C10H9NO4	methyl trans-3-(2-nitrophenyl)-2-propenoate	39228-29-0	25.00	1.3140	2	19123	C10H10O2	alpha-methyl-beta-oxobenzenepropanal	16837-43-7	27.69	1.0799	2
18931	C10H9NO4	methyl trans-3-(3-nitrophenyl)-2-propenoate	659-04-1	25.00	1.3140	2	19124	C10H10O2	cis-2-methyl-3-phenyl-2-propenoic acid	15250-29-0	27.69	1.0799	2
18932	C10H9NO4	methyl trans-3-(4-nitrophenyl)-2-propenoate	637-57-0	25.00	1.3140	2	19125	C10H10O2	1-phenyl-1,3-butanedione	93-91-4	74.00	1.0599	1
18938	C10H9NO6	dimethyl 5-nitroisophthalate	13290-96-5	25.00	1.4161	2	19126	C10H10O2	4-phenyl-3-butenoic acid	2243-53-0	27.69	1.0799	2
18939	C10H9NO6	dimethyl 4-nitrophthalate	610-22-0	25.00	1.4161	2	19127	C10H10O2	cis-3-phenyl-2-butenoic acid	704-79-0	27.69	1.0799	2
18940	C10H9NO6	dimethyl nitroterephthalate	5292-45-5	25.00	1.4161	2	19131	C10H10O2	1,2-diacetylbenzene	704-00-7	27.69	1.0799	2
18941	C10H9NO6S	2-(4-methylsulphonyl-2-nitrophenyl) malondia*	197251-71-1	25.00	1.4705	2	19132	C10H10O2	5-hydroxy-1-tetralone	28315-93-7	27.69	1.0799	2
18944	C10H9NO6S2	7-amino-1,3-naphthalenedisulfonic acid	86-65-7	25.00	1.5164	2	19134	C10H10O2	o-methoxycinnamaldehyde	1504-74-1	27.69	1.0799	2
18950	C10H9N3	N-2-pyridinyl-2-pyridinamine	1202-34-2	25.00	1.1914	2	19135	C10H10O2	trans-4-methoxycinnamaldehyde	24680-50-0	27.69	1.0799	2
18951	C10H9N3O	amrinone	60719-84-8	25.00	1.2537	2	19136	C10H10O2	2-methoxycinnamaldehyde; predominantly trans	60125-24-8	27.69	1.0799	2
18952	C10H9N3O3	2,4-dihydro-5-methyl-2-(4-nitrophenyl)-3H-py*	6402-09-1	25.00	1.3653	2	19137	C10H10O2	4-methoxy-1-indanone	13336-31-7	27.69	1.0799	2
18954	C10H9N3S2	1-phenyl-3-(2-thiazolyl)-2-thiourea	14901-16-7	25.00	1.3461	2	19138	C10H10O2	6-methoxy-1-indanone	13623-25-1	27.69	1.0799	2
18955	C10H9N5O	kinetin	525-79-1	25.00	1.3637	2	19139	C10H10O2	5-methoxy-1-indanone	5111-70-6	27.69	1.0799	2
18958	C10H10	m-divinylbenzene	108-57-6	-66.90	1.1665	2	19140	C10H10O2	a-methylcinnamic acid	1199-77-5	27.69	1.0799	2
18962	C10H10	p-divinylbenzene	105-06-6	40.00	0.9130	1	19141	C10H10O2	g-phenyl-g-butyrolactone	1008-76-0	25.00	1.1520	1
18963	C10H10	1-methylindene	767-59-9	25.00	1.1483	2	19142	C10H10O2	1-phenyl-1-cyclopropanecarboxylic acid	6120-95-2	27.69	1.0799	2
18964	C10H10	2-methylindene	2177-47-1	25.00	1.1522	2	19143	C10H10O2	trans-2-phenylcyclopropane-1-carboxylic acid	939-90-2	27.69	1.0799	2
18978	C10H10BrClO	4'-bromo-4-chlorobutyrophenone	4559-96-0	25.00	1.4683	2	19145	C10H10O2	2-(p-tolyl)-3-hydroxyacroleine	---	27.69	1.0799	2
18980	C10H10BrNO	1-(4-bromophenyl)-2-pyrrolidinone	7661-32-7	25.00	1.4536	2	19146	C10H10O2	trans-styrylacetic acid	1914-58-5	27.69	1.0799	2
18981	C10H10BrNO3	methyl 2-acetamido-5-bromobenzoate	138825-96-4	25.00	1.5424	2	19147	C10H10O2	2-(4-tolyl)malondialdehyde	27956-35-0	27.69	1.0799	2
18982	C10H10Br4	1,2,4,5-tetrakis(bromomethyl)benzene	15442-91-8	25.00	2.0935	2	19149	C10H10O2	1,4-diacetylbenzene	1009-61-6	27.69	1.0799	2
18985	C10H10ClNO	1-(4-chlorophenyl)-2-pyrrolidinone	7661-33-8	25.00	1.2038	2	19151	C10H10O2	6,7-dimethoxy-1,3-dimethyl-3,4-dihydroisoqui*	107416-41-1	27.69	1.0799	2
18986	C10H10ClNO2	4'-chloroacetoacetanilide	101-92-8	25.00	1.4380	1	19153	C10H10O2	ethyl 2-amino-4-phenyl-5-thiazolecarboxylate	64399-23-1	27.69	1.0799	2
18988	C10H10ClNO2	chlorethylbenzmethoxazone	132-89-8	25.00	1.2588	2	19154	C10H10O2	5-methoxy-1,3,4-triphenyl-4,5-dihydro-1H-1,2*	154643-41-1	27.69	1.0799	2
18992	C10H10ClN3O2	4-amino-2-chloro-6,7-dimethoxyquinazoline	23680-84-4	25.00	1.3568	2	19155	C10H10O2	methyl 5-bromonicotinoylacetate	205985-97-3	27.69	1.0799	2
18996	C10H10Cl2N2O	2-((3,4-dichlorophenoxy)methyl)-2-imidazolin*	23712-05-2	25.00	1.3324	2	19162	C10H10O2	indan-2-carboxylic acid	25177-85-9	27.69	1.0799	2
19000	C10H10Cl2O	4,4'-dichlorobutyrophenone	40877-09-6	25.00	1.2372	2	19163	C10H10O2	2-(2-pyrazinyl)malondialdehyde	13481-00-0	27.69	1.0799	2
19002	C10H10Cl2O3	butyrac 118	94-82-6	25.00	1.3342	2	19164	C10H10O2	5,11,17,23-tetrakis-chloromethyl-25,26,27,28*	325614*-40-1	27.69	1.0799	2
19004	C10H10Cl2Ti	bis(cyclopentadienyl)titanium dichloride	1271-19-8	25.00	1.6000	1	19173	C10H10O2S	furfuryl sulfide	13678-67-6	25.00	1.1972	2
19011	C10H10FNO	1-(4-fluorophenyl)-2-pyrrolidinone	54660-08-1	25.00	1.1545	2	19176	C10H10O3	2-(acetyloxy)-1-phenylethanone	2243-35-8	65.00	1.1169	1
19022	C10H10N2	2,6-dimethylquinoxaline	60814-29-1	46.67	1.1606	2	19179	C10H10O3	3-(4-hydroxy-3-methoxyphenyl)-2-propenal	458-36-6	102.00	1.1562	1
19023	C10H10N2	1-methyl-3-phenyl-1H-pyrazole	3463-26-1	99.00	1.0232	1	19180	C10H10O3	methyl 4-acetylbenzoate	3609-53-8	44.33	1.1531	2
19024	C10H10N2	3-methyl-1-phenyl-1H-pyrazole	1128-54-7	20.00	1.0760	1	19182	C10H10O3	4-acetoxyacetophenone	13031-43-1	44.33	1.1531	2
19026	C10H10N2	2-methyl-3-quinolinamine	21352-22-7	46.67	1.1606	2	19183	C10H10O3	2-acetoxyacetophenone	7250-94-4	44.33	1.1531	2
19027	C10H10N2	2-methyl-4-quinolinamine	6628-04-2	46.67	1.1606	2	19184	C10H10O3	1,4-benzodioxan-6-yl methyl ketone	2879-20-1	44.33	1.1531	2
19028	C10H10N2	2-methyl-7-quinolinamine	64334-96-9	46.67	1.1606	2	19185	C10H10O3	3-benzoylpropionic acid	2051-95-8	44.33	1.1531	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
19186	C10H10O3	endo-bicyclo[2.2.2]oct-5-ene-2,3-dicarboxyli*	24327-08-0	44.33	1.1531	2	19323	C10H11NO2	L-1,2,3,4-tetrahydroisoquinoline-3-carboxyli*	74163-81-8	25.00	1.1399	2
19187	C10H10O3	o-methoxycinnamic acid, predominantly trans	6099-03-2	44.33	1.1531	2	19325	C10H11NO2S	(4S,2R,S)-2-phenylthiazolidine-4-carboxylic *	42607-21-6	25.00	1.2237	2
19188	C10H10O3	m-methoxycinnamic acid, predominantly trans	6099-04-3	44.33	1.1531	2	19326	C10H11NO3	N-benzoyl-DL-alanine	1205-02-3	25.00	1.1995	2
19189	C10H10O3	p-methoxycinnamic acid, predominantly trans	830-09-1	44.33	1.1531	2	19327	C10H11NO3	ethyl oxo(phenylamino)acetate	1457-85-8	25.00	1.1995	2
19190	C10H10O3	2-(4-methoxyphenyl)malondialdehyde	53868-40-9	44.33	1.1531	2	19328	C10H11NO3	4-oxo-4-(phenylamino)butanoic acid	102-14-7	25.00	1.1995	2
19194	C10H10O3	cis-2-methoxycinnamic acid	14737-91-8	44.33	1.1531	2	19329	C10H11NO3	L-7-hydroxy-1,2,3,4-tetrahydroisoquinoline-3*	128502-56-7	25.00	1.1995	2
19195	C10H10O4	dimethyl phthalate	131-11-3	1.03	1.4482	2	19330	C10H11NO3	methyl 2-acetamidobenzoate	2719-08-6	25.00	1.1995	2
19196	C10H10O4	dimethyl terephthalate	120-61-6	1.85	1.4482	2	19331	C10H11NO3	N-methylhippuric acid	2568-34-5	25.00	1.1995	2
19197	C10H10O4	1,2-benzenediol diacetate	635-67-6	40.14	1.1403	2	19332	C10H11NO3	3-methylhippuric acid	27115-49-7	25.00	1.1995	2
19198	C10H10O4	1,4-benzenediol diacetate	1205-91-0	25.00	0.8731	1	19333	C10H11NO3	4-methylhippuric acid	27115-50-0	25.00	1.1995	2
19199	C10H10O4	6,7-dimethoxy-1(3H)-isobenzofuranone	569-31-3	40.14	1.1403	2	19334	C10H11NO3	2-methylhippuric acid	42013-20-7	25.00	1.1995	2
19200	C10H10O4	4,6-dimethyl-1,3-benzenedicarboxylic acid	2790-09-2	40.14	1.1403	2	19335	C10H11NO3	3,4,5-trimethoxybenzonitrile	1885-35-4	25.00	1.1995	2
19201	C10H10O4	dimethyl isophthalate	1459-93-4	67.70	1.1940	1	19336	C10H11NO3	2,4,6-trimethoxybenzonitrile	2571-54-2	25.00	1.1995	2
19203	C10H10O4	methyl 2-(acetyloxy)benzoate	580-02-9	40.14	1.1403	2	19337	C10H11NO3	2,3,4-trimethoxybenzonitrile	43020-38-8	25.00	1.1995	2
19205	C10H10O4	phenylbutanedioic acid, (±)	10424-29-0	40.14	1.1403	2	19338	C10H11NO4	N-carbobenzyloxyglycine	1138-80-3	25.00	1.2551	2
19206	C10H10O4	benzylmalonic acid	616-75-1	40.14	1.1403	2	19339	C10H11NO4	2-(2,5-dimethoxyphenyl)nitroethene	40276-11-7	25.00	1.2551	2
19207	C10H10O4	3-(4-carboxyphenyl)propionic acid	70170-91-1	40.14	1.1403	2	19340	C10H11NO4	dimethyl aminoterephthalate	5372-81-6	25.00	1.2551	2
19208	C10H10O4	ferulic acid	1135-24-6	40.14	1.1403	2	19341	C10H11NO4	ethyl 4-nitrophenylacetate	5445-26-1	25.00	1.2551	2
19209	C10H10O4	3-hydroxy-4-methoxycinnamic acid, predominan*	537-73-5	40.14	1.1403	2	19342	C10H11NO4	(S)-(-)-2-[(phenylamino)carbonyloxy]propioni*	102936-05-0	25.00	1.2551	2
19210	C10H10O4	methyl 5-acetylsalicylate	16475-90-4	40.14	1.1403	2	19343	C10H11NS	2,5,6-trimethylbenzothiazole	5683-41-0	25.00	1.1094	2
19212	C10H10O4	1,3-phenylenediacetic acid	19806-17-8	40.14	1.1403	2	19345	C10H11N3	3-methyl-1-phenyl-1H-pyrazol-4-amine	103095-51-8	25.00	1.1342	2
19213	C10H10O4	1.4-phenylenediacetic acid	7325-46-4	40.14	1.1403	2	19346	C10H11N3	3-methyl-1-phenyl-1H-pyrazol-5-amine	1131-18-6	25.00	1.1342	2
19214	C10H10O4	1,2-phenylenediacetic acid	7500-53-0	40.14	1.1403	2	19349	C10H11N3O	indole-3-acetic acid hydrazide	5448-47-5	25.00	1.1951	2
19215	C10H10O4	(S)-(+)-phenylsuccinic acid	4036-30-0	40.14	1.1403	2	19352	C10H11N3O2S2	sulfamethylthiazole	515-59-3	25.00	1.3807	2
19216	C10H10O4	(R)-(-)-phenylsuccinic acid	46292-93-7	40.14	1.1403	2	19358	C10H12	1,3-dicyclopentadiene	77-73-6	32.00	1.1475	2
19217	C10H10O4	DL-phenylsuccinic acid	635-51-8	40.14	1.1403	2	19359	C10H12	1,2,3,4-tetrahydronaphthalene	119-64-2	-35.75	1.1819	2
19218	C10H10O4	piperonyl acetate	326-61-4	25.00	1.2270	1	19362	C10H12	cis-(1-methyl-1-propenyl)benzene	767-99-7	-40.84	1.0669	2
19220	C10H10O4	trans-ferulic acid	537-98-4	40.14	1.1403	2	19363	C10H12	trans-(1-methyl-1-propenyl)benzene	768-00-3	-23.50	1.1132	2
19223	C10H10O5	6-formyl-2,3-dimethoxybenzoic acid	519-05-1	25.00	1.2852	2	19387	C10H12	(1-methylenepropyl)benzene	2039-93-2	-40.84	1.0814	2
19224	C10H10O6	2,5-dihydroxy-1,4-benzenediacetic acid	5488-16-4	25.00	1.3371	2	19388	C10H12	dicyclopentadiene	1755-01-7	35.00	0.9302	1
19225	C10H10O6	hydroquinone-O,O'-diacetic acid	2245-53-6	25.00	1.3371	2	19401	C10H12BrN5O4	8-bromoadenosine	2946-39-6	25.00	1.6639	2
19234	C10H11BrO2	2-(4-bromomethyl)phenylpropionic acid	111128-12-2	25.00	1.4212	2	19405	C10H12ClNO	2-chloro-N-(2,6-dimethylphenyl)acetamide	1131-01-7	25.00	1.1523	2
19236	C10H11BrO3	2-bromo-2',5'-dimethoxyacetophenone	1204-21-3	25.00	1.4666	2	19406	C10H12ClNO	N-benzyl-b-chloropropanamide	501-68-8	25.00	1.1523	2
19237	C10H11BrO3	2-bromo-2',4'-dimethoxyacetophenone	60965-26-6	25.00	1.4666	2	19407	C10H12ClNO2	chloropropham	101-21-3	30.00	1.1800	1
19241	C10H11ClN2O	1-(3-chloropropyl)-1,3-dihydro-2H-benzimidaz*	62780-89-6	25.00	1.2300	2	19408	C10H12ClNO2	baclofen	1134-47-0	25.00	1.2061	2
19246	C10H11ClN4O4	6-chloropurine riboside	2004-06-0	25.00	1.4580	2	19411	C10H12ClNO4	chlorphenesin carbamate	886-74-8	25.00	1.3041	2
19250	C10H11ClO	4'-chlorobutyrophenone	4981-63-9	19.33	1.1287	2	19416	C10H12ClN5O4	2-amino-6-chloropurine-9-riboside	2004-07-1	25.00	1.4690	2
19251	C10H11ClO	1-(4-chlorophenyl)-1-cyclopropanemethanol	80866-81-5	19.33	1.1287	2	19417	C10H12ClN5O4	2-chloroadenosine	146-77-0	25.00	1.4690	2
19255	C10H11ClO2	4-chloro-4'-hydroxybutyrophenone	7150-55-2	25.00	1.1796	2	19419	C10H12Cl2N2	1-(3,4-dichlorophenyl)piperazine	57260-67-0	25.00	1.2336	2
19256	C10H11ClO2	2-(4-chlorophenyl)-2-methylpropionic acid	6258-30-6	25.00	1.1796	2	19420	C10H12Cl2O2	1,4-bis(chloromethoxymethyl)benzene	56894-91-8	25.00	1.2368	2
19259	C10H11ClO2S	5,6,7,8-tetrahydro-2-naphthalenesulfonyl chl*	61551-49-3	25.00	1.2542	2	19424	C10H12FN	6-fluoro-1,2,3,4-tetrahydro-2-methylquinoline	42835-89-2	25.00	1.0416	2
19261	C10H11ClO3	2-(4-chlorophenoxy)-2-methylpropionic acid	882-09-7	25.00	1.2273	2	19427	C10H12INO	3-ethyl-2-methylbenzoxazolium iodide	5260-37-7	25.00	1.5808	2
19262	C10H11ClO3	3,4-dimethoxyphenylacetyl chloride	10313-60-7	25.00	1.2450	1	19429	C10H12IN5O3	5'-iodo-5'-deoxyadenosine	4099-81-4	25.00	1.7865	2
19264	C10H11ClO3	mecoprop	93-65-2	25.00	1.2273	2	19431	C10H12N2	1-ethyl-2-methyl-1H-benzimidazole	5805-76-5	25.00	1.0730	1
19269	C10H11ClO4	3,4,5-trimethoxybenzoyl chloride	4521-61-3	25.00	1.2840	2	19433	C10H12N2	tryptamine	61-54-1	23.50	1.0548	2
19275	C10H11F3N2O	N,N-dimethyl-N'-[3-(trifluoromethyl)phenyl]u*	2164-17-2	25.00	1.2638	2	19439	C10H12N2O	(-)-cotinine	486-56-6	25.00	1.1112	2
19276	C10H11F3N2O5	trifluorothymidine	70-00-8	25.00	1.4365	2	19440	C10H12N2O	1-phenyl-4-methyl-3-pyrazolidone	2654-57-1	25.00	1.1112	2
19277	C10H11F7O2	6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-o*	17587-22-3	25.00	1.2730	1	19445	C10H12N2O3	5,5-diallyl-2,4,6(1H,3H,5H)-pyrimidinetrione	52-43-7	25.00	1.2261	2
19278	C10H11IO4	iodobenzene diacetate	3240-34-4	25.00	1.6865	2	19446	C10H12N2O3	L-kynurenine	343-65-7	25.00	1.2261	2
19280	C10H11I2NO3	propyliodone	587-61-1	25.00	2.0490	2	19447	C10H12N2O3	N-(4-aminobenzoyl)-b-alanine	7377-08-4	25.00	1.2261	2
19281	C10H11N	5,8-dihydro-1-naphthalenamine	32666-56-1	19.75	1.0641	2	19454	C10H12N2O3S	bentazon	25057-89-0	25.00	1.2961	2
19282	C10H11N	1,3-dimethyl-1H-indole	875-30-9	19.75	1.0641	2	19455	C10H12N2O4	1,2,4,5-tetramethyl-3,6-dinitrobenzene	5465-13-4	25.00	1.2780	2
19283	C10H11N	2,5-dimethyl-1H-indole	1196-79-8	19.75	1.0641	2	19459	C10H12N2O4	3-(3-hydroxyanthraniloyl)-L-alanine	606-14-4	25.00	1.2780	2
19285	C10H11N	1-ethyl-1H-indole	10604-59-8	15.00	1.2563	1	19461	C10H12N2O4	3-nitro-p-acetophenetidide	1777-84-0	25.00	1.2780	2
19286	C10H11N	3-ethyl-1H-indole	1484-19-1	19.75	1.0641	2	19463	C10H12N2O5	dinoseb	88-85-7	45.00	1.2650	1
19287	C10H11N	2,3-dimethylindole	91-55-4	19.75	1.0641	2	19464	C10H12N2O5	2,6-dinitrothymol	303-21-9	25.00	1.3268	2
19288	C10H11N	2,5-dimethylphenylacetonitrile	16213-85-7	19.75	1.0641	2	19465	C10H12N2O5S	7-aminocephalosporanic acid	957-68-6	25.00	1.3848	2
19289	C10H11N	7-ethylindole	22867-74-9	25.00	1.0500	1	19467	C10H12N2S	N-allyl-N'-phenylthiourea	7341-63-1	25.00	1.1409	2
19291	C10H11N	2,4,6-trimethylbenzonitrile	2571-52-0	19.75	1.0641	2	19468	C10H12N3O3PS2	azinphos-methyl	86-50-0	20.00	1.4400	1
19292	C10H11N	1,5-dimethyl-1H-indole	27816-53-1	19.75	1.0641	2	19472	C10H12N4O4	2'-deoxyinosine	890-38-0	25.00	1.3713	2
19293	C10H11N	3,5-dimethyl-1H-indole	3189-12-6	19.75	1.0641	2	19473	C10H12N4O4	ribosylpurine	550-33-4	25.00	1.3713	2
19294	C10H11N	2,6-dimethyl-1H-indole	5649-36-5	19.75	1.0641	2	19474	C10H12N4O4S	6-mercaptopurine-9-D-riboside	574-25-4	25.00	1.4251	2
19295	C10H11N	p-isopropylbenzonitrile	13816-33-6	19.75	1.0641	2	19476	C10H12N4OS	thiacetazone	104-06-3	25.00	1.2937	2
19296	C10H11NO	1,3-dihydro-1,3-dimethyl-2H-indol-2-one	24438-17-3	25.00	1.0183	2	19477	C10H12N4O5	inosine	58-63-9	25.00	1.4151	2
19297	C10H11NO	1,3-dihydro-3,3-dimethyl-2H-indol-2-one	19155-24-9	25.00	1.0183	2	19478	C10H12N4O5	edrofuradene	5036-03-3	25.00	1.4151	2
19298	C10H11NO	1,3-dihydro-4,7-dimethyl-2H-indol-2-one	59022-71-8	25.00	1.0183	2	19481	C10H12N6	(ethylenedinitrilo)tetraacetonitrile	5766-67-6	25.00	1.2723	2
19299	C10H11NO	1H-indole-3-ethanol	526-55-6	25.00	1.0183	2	19484	C10H12O	anethole	104-46-1	21.35	1.0540	1
19300	C10H11NO	4-phenoxybutanenitrile	2243-43-8	25.00	1.0183	2	19517	C10H12O	1,2,3,4-tetrahydro-1-naphthalenol	529-33-9	20.00	1.0996	1
19304	C10H11NO	5-methoxy-2-methylindole	1076-74-0	25.00	1.0183	2	19518	C10H12O	5,6,7,8-tetrahydro-1-naphthalenol	529-35-1	75.00	1.0556	1
19305	C10H11NO	1-phenyl-2-pyrrolidinone	4641-57-0	25.00	1.0183	2	19519	C10H12O	5,6,7,8-tetrahydro-2-naphthalenol	1125-78-6	65.00	1.0552	1
19307	C10H11NO	2,5,6-trimethylbenzoxazole	19219-98-8	25.00	1.0183	2	19523	C10H12O	5,6-dimethyl-4,7-dihydroisobenzofuran	---	23.02	1.0050	2
19313	C10H11NO2	acetoacetanilide	102-01-2	20.00	1.2600	1	19534	C10H12O	(R)-(-)-1,2,3,4-tetrahydro-1-naphthol	23357-45-1	25.00	1.0900	1
19314	C10H11NO2	N-acetyl-N-phenylacetamide	1563-87-7	25.00	1.1399	2	19540	C10H12O2	benzenebutanoic acid	1821-12-1	21.78	1.0624	2
19316	C10H11NO2	2-amino-2-indanecarboxylic acid	27473-62-7	25.00	1.1399	2	19546	C10H12O2	2-ethoxy-1-phenylethanone	14869-39-7	78.00	1.0036	1
19317	C10H11NO2	(R)-4-benzyl-2-oxazolidinone	102029-44-7	25.00	1.1399	2	19547	C10H12O2	alpha-ethylbenzeneacetic acid	90-27-7	21.78	1.0624	2
19318	C10H11NO2	(S)-4-benzyl-2-oxazolidinone	90719-32-7	25.00	1.1399	2	19553	C10H12O2	propyl benzoate	2315-68-6	-51.60	1.2627	2
19319	C10H11NO2	homoveratronitrile	93-17-4	25.00	1.1399	2	19556	C10H12O2	1-(2-hydroxy-4-methylphenyl)-1-propanone	2886-52-4	21.78	1.0624	2
19320	C10H11NO2	(4S,5R)-(-)-4-methyl-5-phenyl-2-oxazolidinone	16251-45-9	25.00	1.1399	2	19560	C10H12O2	4-hydroxy-1-phenyl-1-butanone	39755-03-8	21.78	1.0624	2
19321	C10H11NO2	(4R,5S)-(+)-4-methyl-5-phenyl-2-oxazolidinone	77943-39-6	25.00	1.1399	2	19562	C10H12O2	2-isopropylbenzoic acid	2438-04-2	21.78	1.0624	2
19322	C10H11NO2	3'-(N-acetylamino)acetophenone	7463-31-2	25.00	1.1399	2	19563	C10H12O2	4-isopropylbenzoic acid	536-66-3	4.00	1.1620	1

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
19572	C10H12O2	2-methoxy-6-(1-propenyl)phenol	1076-55-7	21.78	1.0624	2	19718	C10H13Cl	1-chloro-4-tert-butylbenzene	3972-56-3	18.00	1.0075	1
19574	C10H12O2	trans-2-methoxy-4-(1-propenyl)phenol	5932-68-3	20.00	1.0852	1	19719	C10H13Cl	(2-chloro-1,1-dimethylethyl)benzene	515-40-2	20.00	1.0470	1
19575	C10H12O2	alpha-methylbenzenepropanoic acid	1009-67-2	21.78	1.0624	2	19720	C10H13Cl	2-chloro-1-methyl-4-isopropylbenzene	4395-79-3	25.00	1.0104	1
19576	C10H12O2	beta-methylbenzenepropanoic acid, (±)	772-17-8	20.00	1.0701	1	19721	C10H13Cl	2-chloro-4-methyl-1-isopropylbenzene	4395-80-6	15.00	1.0180	1
19577	C10H12O2	2-methyl-5-isopropyl-2,5-cyclohexadiene-1,4-*	490-91-5	21.78	1.0624	2	19722	C10H13Cl	a-2-chloroisodurene	1585-16-6	20.60	1.0218	2
19580	C10H12O2	2-phenyl-1,3-dioxane	772-01-0	25.00	1.1110	1	19723	C10H13Cl	1-chloro-4-phenylbutane	4830-93-7	25.00	1.0260	1
19584	C10H12O2	2-propylbenzoic acid	2438-03-1	15.00	1.0020	1	19724	C10H13ClN2	chlordimeform	6164-98-3	25.00	1.1050	1
19585	C10H12O2	2,3,5,6-tetramethyl-2,5-cyclohexadiene-1,4-d*	527-17-3	21.78	1.0624	2	19725	C10H13ClN2	1-(4-chlorophenyl)piperazine	38212-33-8	25.00	1.1475	2
19587	C10H12O2	(S)-(+)-2,3,7,7a-tetrahydro-7a-methyl-1H-ind*	17553-86-5	21.78	1.0624	2	19727	C10H13ClN2	1-(4-chlorophenyl)piperazine dihydrochloride	38869-46-4	25.00	1.1475	2
19591	C10H12O2	1,5-dihydroxy-1,2,3,4-tetrahydronaphthalene	40771-26-4	21.78	1.0624	2	19729	C10H13ClN2O	N-(3-chloro-4-methylphenyl)-N',N'-dimethylur*	15545-48-9	25.00	1.1797	2
19592	C10H12O2	2,5-dimethyl-4-methoxybenzaldehyde	6745-75-1	21.78	1.0624	2	19735	C10H13ClN6	procyazine	32889-48-8	25.00	1.3185	2
19593	C10H12O2	4'-ethoxyacetophenone	1676-63-7	21.78	1.0624	2	19737	C10H13ClO	4-chloro-alpha,alpha-dimethylbenzeneethanol	5468-97-3	25.00	1.0749	2
19595	C10H12O2	2'-hydroxy-4',5'-dimethylacetophenone	36436-65-4	21.78	1.0624	2	19738	C10H13ClO	4-chloro-5-methyl-2-isopropylphenol	89-68-9	25.00	1.0749	2
19597	C10H12O2	4-(4-hydroxyphenyl)-2-butanone	5471-51-2	21.78	1.0624	2	19741	C10H13ClO2S	4-tert-butylbenzenesulfonyl chloride	15084-51-2	25.00	1.2060	2
19601	C10H12O2	4'-methoxypropiophenone	121-97-1	25.00	0.9370	1	19742	C10H13ClO3	(-)-camphanic acid chloride	39637-74-6	25.00	1.1838	2
19603	C10H12O2	methyl 3,5-dimethylbenzoate	25081-39-4	25.00	1.0270	1	19743	C10H13ClO4	exo-2-chloro-5,5-ethylenedioxy-bicyclo[2.2.1*	64812-08-4	25.00	1.2334	2
19605	C10H12O2	(±)-3-phenylbutyric acid	4593-90-2	21.78	1.0624	2	19744	C10H13Cl2FN2O2S2	N'-dichlorofluoromethylthio-N,N-dimethyl-N'-*	731-27-1	25.00	1.4226	2
19610	C10H12O2	4-propylbenzoic acid	2438-05-3	21.78	1.0624	2	19745	C10H13Cl2N	N,N-bis(2-chloroethyl)aniline	553-27-5	25.00	1.1626	2
19612	C10H12O2	1,2,3,4-tetrahydronaphthalene hydroperoxide	26447-24-5	21.78	1.0624	2	19748	C10H13FN2	1-(4-fluorophenyl)piperazine	2252-63-3	25.00	1.0768	2
19613	C10H12O2	b-thujaplicin	499-44-5	21.78	1.0624	2	19749	C10H13FN2O4	3'-deoxy-3'-fluorothymidine	25526-93-6	25.00	1.2866	2
19614	C10H12O2	2,4,6-trimethylbenzoic acid	480-63-7	21.78	1.0624	2	19753	C10H13I	2-iodo-1-methyl-4-isopropylbenzene	56739-95-8	17.00	1.4205	1
19618	C10H12O2	3-(1-methylethyl)benzoic acid	5651-47-8	21.78	1.0624	2	19754	C10H13I	2-iodo-4-methyl-1-isopropylbenzene	4395-81-7	17.00	1.4113	1
19619	C10H12O2	2,3,4-trimethylbenzoic acid	1076-47-7	21.78	1.0624	2	19755	C10H13I	1-tert-butyl-4-iodobenzene	35779-04-5	25.00	1.4640	1
19620	C10H12O2	3,4,5-trimethylbenzoic acid	1076-88-6	21.78	1.0624	2	19756	C10H13I	1-(4'-iodophenyl)butane	20651-57-4	19.67	1.4319	2
19621	C10H12O2	2,3,5-trimethylbenzoic acid	2437-66-3	21.78	1.0624	2	19757	C10H13I	2,3,5,6-tetramethyliodobenzene	2100-25-6	19.67	1.4319	2
19622	C10H12O2	2,3,6-trimethylbenzoic acid	2529-36-4	21.78	1.0624	2	19763	C10H13N	5,6,7,8-tetrahydro-1-naphthalenamine	2217-41-6	16.00	1.0625	1
19623	C10H12O2	2,4,5-trimethylbenzoic acid	528-90-5	21.78	1.0624	2	19767	C10H13NO	1-[3-(dimethylamino)phenyl]ethanone	18992-80-8	33.75	1.0590	2
19631	C10H12O2	g-thujaplicin	672-76-4	21.78	1.0624	2	19768	C10H13NO	N-(2,4-dimethylphenyl)acetamide	2050-43-3	33.75	1.0590	2
19634	C10H12O3	1-(3,4-dimethoxyphenyl)ethanone	1131-62-0	26.53	1.1149	2	19769	C10H13NO	alpha-ethylbenzeneacetamide	90-26-6	33.75	1.0590	2
19635	C10H12O3	4-ethoxy-3-methoxybenzaldehyde	120-25-2	26.53	1.1149	2	19770	C10H13NO	N-ethyl-N-phenylacetamide	529-65-7	60.00	0.9938	1
19636	C10H12O3	ethyl alpha-hydroxybenzeneacetate, (±)	4358-88-7	20.00	1.1258	1	19771	C10H13NO	N-methyl-N-(2-methylphenyl)acetamide	573-26-2	33.75	1.0590	2
19637	C10H12O3	ethyl alpha-hydroxyphenylacetate, (R)	10606-72-1	20.00	1.1270	1	19772	C10H13NO	N-phenylbutanamide	1129-50-6	25.00	1.1340	1
19642	C10H12O3	4-(3-hydroxy-1-propenyl)-2-methoxyphenol	458-35-5	26.53	1.1149	2	19773	C10H13NO	1,2,3,4-tetrahydro-6-methoxyquinoline	120-15-0	33.75	1.0590	2
19644	C10H12O3	4-methoxybenzyl acetate	104-21-2	25.00	1.1050	1	19774	C10H13NO	N,N,4-trimethylbenzamide	14062-78-3	33.75	1.0590	2
19645	C10H12O3	2-phenoxybutanoic acid, (R)	19128-84-8	26.53	1.1149	2	19775	C10H13NO	(S)-(-)-N-acetyl-1-methylbenzylamine	19144-86-6	33.75	1.0590	2
19648	C10H12O3	propyl 2-hydroxybenzoate	607-90-9	20.00	1.0979	1	19776	C10H13NO	(R)-(+)-N-acetyl-1-methylbenzylamine	36283-44-0	33.75	1.0590	2
19649	C10H12O3	propyl 4-hydroxybenzoate	94-13-3	102.00	1.0630	1	19777	C10H13NO	N-acetyl-2-phenylethylamine	877-95-2	33.75	1.0590	2
19651	C10H12O3	2',4'-dihydroxy-3'-methylpropiophenone	63876-46-0	26.53	1.1149	2	19778	C10H13NO	2',6'-dimethylacetanilide	2198-53-0	33.75	1.0590	2
19653	C10H12O3	2',6'-dimethoxyacetophenone	2040-04-2	26.53	1.1149	2	19780	C10H13NO	4-phenylmorpholine	92-53-5	25.00	1.0580	1
19654	C10H12O3	3',5'-dimethoxyacetophenone	39151-19-4	26.53	1.1149	2	19781	C10H13NO	(S)-1,2,3,4-tetrahydroisoquinolylmethan-3-ol	---	33.75	1.0590	2
19655	C10H12O3	2',4'-dimethoxyacetophenone	829-20-9	26.53	1.1149	2	19783	C10H13NO	3',4'-acetoxylidide	2198-54-1	33.75	1.0590	2
19656	C10H12O3	3,5-dimethyl-p-anisic acid	21553-46-8	26.53	1.1149	2	19789	C10H13NO2	beta-(aminomethyl)benzenepropanoic acid	1078-21-3	23.00	1.0699	2
19657	C10H12O3	2,3-epoxypropyl-4'-methoxyphenyl ether	2211-94-1	26.53	1.1149	2	19790	C10H13NO2	benzenepropanol carbamate	673-31-4	23.00	1.0699	2
19658	C10H12O3	4-ethoxyphenylacetic acid	4919-33-9	26.53	1.1149	2	19792	C10H13NO2	5-butyl-2-pyridinecarboxylic acid	536-69-6	23.00	1.0699	2
19659	C10H12O3	ethyl (S)-(+)-mandelate	13704-09-1	26.53	1.1149	2	19793	C10H13NO2	N-(2-ethoxyphenyl)acetamide	581-08-8	23.00	1.0699	2
19660	C10H12O3	ethyl mandelate	774-40-3	25.00	1.1150	1	19794	C10H13NO2	N-(4-ethoxyphenyl)acetamide	62-44-2	23.00	1.0699	2
19661	C10H12O3	ethyl 4-methoxycarbonylbenzoylacetate	79322-76-2	26.53	1.1149	2	19795	C10H13NO2	ethyl N-benzylcarbamate	2621-78-5	23.00	1.0699	2
19664	C10H12O3	4-isopropoxybenzoic acid	13205-46-4	26.53	1.1149	2	19796	C10H13NO2	ethyl 2-(methylamino)benzoate	35472-56-1	23.00	1.0699	2
19665	C10H12O3	3-(2-methoxyphenyl)propionic acid	6342-77-4	26.53	1.1149	2	19797	C10H13NO2	ethyl N-phenylglycinate	2216-92-4	23.00	1.0699	2
19667	C10H12O3	methyl 3-(4-hydroxyphenyl)propionate	5597-50-2	26.53	1.1149	2	19798	C10H13NO2	N-(4-hydroxyphenyl)butanamide	101-91-7	23.00	1.0699	2
19669	C10H12O3	2-phenoxybutyric acid	13794-14-4	26.53	1.1149	2	19799	C10H13NO2	isopropyl phenylcarbamate	122-42-9	20.00	1.0900	1
19670	C10H12O3	4-propoxybenzoic acid	5438-19-7	26.53	1.1149	2	19801	C10H13NO2	propyl 4-aminobenzoate	94-12-2	23.00	1.0699	2
19675	C10H12O4	diallyl maleate	999-21-3	-47.00	1.3303	2	19802	C10H13NO2	(-)-2-amino-4-phenylbutyric acid	82795-51-5	23.00	1.0699	2
19676	C10H12O4	cantharidin	56-25-7	23.75	1.1270	2	19803	C10H13NO2	(+)-2-amino-4-phenylbutyric acid	943-73-7	23.00	1.0699	2
19678	C10H12O4	ethyl 2,4-dihydroxy-6-methylbenzoate	2524-37-0	23.75	1.1270	2	19804	C10H13NO2	3-amino-3-(p-tolyl)propionic acid	68208-18-4	23.00	1.0699	2
19679	C10H12O4	ethyl 4-hydroxy-3-methoxybenzoate	617-05-0	23.75	1.1270	2	19806	C10H13NO2	3'-ethoxyacetanilide	591-33-3	23.00	1.0699	2
19680	C10H12O4	methyl 3,4-dimethoxybenzoate	2150-38-1	23.75	1.1270	2	19808	C10H13NO2	3,4-xylyl methylcarbamate	2425-10-7	23.00	1.0699	2
19681	C10H12O4	3',5'-dimethoxy-4'-hydroxyacetophenone	2478-38-8	23.75	1.1270	2	19812	C10H13NO2	propyl N-phenylcarbamate	5532-90-1	23.00	1.0699	2
19682	C10H12O4	(2,5-dimethoxyphenyl)acetic acid	1758-25-4	23.75	1.1270	2	19816	C10H13NO2	3,5-dimethylphenyl-N-methylcarbamate	2655-14-3	23.00	1.0699	2
19683	C10H12O4	(3,5-dimethoxyphenyl)acetic acid	4670-10-4	23.75	1.1270	2	19819	C10H13NO2	2-N-propoxybenzamide	59643-84-4	23.00	1.0699	2
19684	C10H12O4	(3,4-dimethoxyphenyl)acetic acid	93-40-3	23.75	1.1270	2	19820	C10H13NO2S	S-benzyl-L-cysteine	3054-01-1	25.00	1.1736	2
19686	C10H12O4	methyl 3,5-dimethoxybenzoate	2150-37-0	23.75	1.1270	2	19821	C10H13NO2S	ethyl 2-aminocyclopenta[b]thiophene-3-carbox*	4815-29-6	25.00	1.1736	2
19688	C10H12O4	2',4',5'-trihydroxybutyrophenone	1421-63-2	23.75	1.1270	2	19823	C10H13NO3	methyl 3-methoxy-2-(methylamino)benzoate	483-64-7	25.00	1.1478	2
19689	C10H12O4	2,3,4-trimethoxybenzaldehyde	2103-57-3	23.75	1.1270	2	19825	C10H13NO3	N-methyl-L-tyrosine	537-49-5	25.00	1.1478	2
19690	C10H12O4	2,4,5-trimethoxybenzaldehyde	4460-86-0	23.75	1.1270	2	19826	C10H13NO3	3-amino-3-(p-methoxyphenyl)propionic acid	5678-45-5	25.00	1.1478	2
19691	C10H12O4	2,4,6-trimethoxybenzaldehyde	830-79-5	23.75	1.1270	2	19827	C10H13NO3	DL-2-benzylserine	4740-47-0	25.00	1.1478	2
19692	C10H12O4	3,4,5-trimethoxybenzaldehyde	86-81-7	23.75	1.1270	2	19828	C10H13NO3	N-z-ethanolamine	77987-49-6	25.00	1.1478	2
19693	C10H12O4S	(2R)-(-)-glycidyl tosylate	113826-06-5	25.00	1.2507	2	19829	C10H13NO3	O-methyl-L-tyrosine	6230-11-1	25.00	1.1478	2
19694	C10H12O4S	(2S)-(+)-glycidyl tosylate	70987-78-9	25.00	1.2507	2	19830	C10H13NO3	DL-a-methyltyrosine	658-48-0	25.00	1.1478	2
19696	C10H12O5	propyl 3,4,5-trihydroxybenzoate	121-79-9	25.00	1.2297	2	19831	C10H13NO3	L-tyrosine methyl ester	1080-06-4	25.00	1.1478	2
19697	C10H12O5	2,4,5-trimethoxybenzoic acid	490-64-2	25.00	1.2297	2	19835	C10H13NO4	3-hydroxy-alpha-methyl-L-tyrosine	555-30-6	25.00	1.2022	2
19698	C10H12O5	3,4,5-trimethoxybenzoic acid	118-41-2	25.00	1.2297	2	19837	C10H13NO4	2,5-diethoxynitrobenzene	119-23-3	25.00	1.2022	2
19699	C10H12O5	methyl 4,5-dimethoxy-3-hydroxybenzoate	83011-43-2	25.00	1.2297	2	19838	C10H13NO4	2,2-dimethyl-5-(2-tetrahydropyrrolylidene)-1*	---	25.00	1.2022	2
19700	C10H12O5	methyl 3,5-dimethoxy-4-hydroxybenzoate	884-35-5	25.00	1.2297	2	19844	C10H13NO4S2	meticrane	1084-65-7	25.00	1.3313	2
19701	C10H12O5	2,3,4-trimethoxybenzoic acid	573-11-5	25.00	1.2297	2	19848	C10H13N3O2	1-(4-nitrophenyl)piperazine	6269-89-2	25.00	1.1982	2
19702	C10H12O6	dimethyl 1,4-cyclohexanedione-2,5-dicarboxyl*	6289-46-9	25.00	1.2808	2	19854	C10H13N5O2	2',3'-dideoxyadenosine	4097-22-7	25.00	1.2964	2
19710	C10H13Br	1-bromo-2,3,5,6-tetramethylbenzene	1646-53-3	21.00	1.2352	2	19855	C10H13N5O3	deoxyadenosine	958-09-8	25.00	1.3430	2
19711	C10H13BrN2O3	5-(2-bromoallyl)-5-isopropylbarbituric acid	545-93-7	25.00	1.4890	2	19856	C10H13N5O3	3'-deoxyadenosine	73-03-0	25.00	1.3430	2
19712	C10H13BrN2O5	(E)-5-(2-bromovinyl)-2'-deoxyuridine	69304-47-8	25.00	1.5634	2	19857	C10H13N5O4	adenosine	58-61-7	25.00	1.3869	2
19713	C10H13BrO	(4-bromobutoxy)benzene	1200-03-9	25.00	1.3134	2	19858	C10H13N5O4	9b-D-arabino furanosyl adenine	5536-17-4	25.00	1.3869	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
19860	C10H13N5O4	2'-deoxyguanosine	961-07-9	25.00	1.3869	2	20022	C10H14O	2,4-dimethyl-5-ethylphenol	18441-55-9	22.18	0.9688	2
19863	C10H13N5O5	guanosine	118-00-3	25.00	1.4283	2	20023	C10H14O	2,4-dimethyl-6-ethylphenol	2219-79-6	22.18	0.9688	2
19865	C10H14	butylbenzene	104-51-8	-87.85	1.1033	2	20024	C10H14O	2,5-dimethyl-3-ethylphenol	---	22.18	0.9688	2
19866	C10H14	isobutylbenzene	538-93-2	-51.45	1.0644	2	20025	C10H14O	2,5-dimethyl-4-ethylphenol	32018-76-1	22.18	0.9688	2
19867	C10H14	sec-butylbenzene	135-98-8	-75.43	1.0885	2	20026	C10H14O	2,5-dimethyl-6-ethylphenol	---	22.18	0.9688	2
19868	C10H14	tert-butylbenzene	98-06-6	-57.88	1.0872	2	20027	C10H14O	2,6-dimethyl-3-ethylphenol	---	22.18	0.9688	2
19870	C10H14	m-cymene	535-77-3	-63.71	1.0791	2	20028	C10H14O	2,6-dimethyl-4-ethylphenol	10570-69-1	22.18	0.9688	2
19871	C10H14	o-cymene	527-84-4	-71.51	1.1060	2	20029	C10H14O	3,4-dimethyl-2-ethylphenol	---	22.18	0.9688	2
19872	C10H14	p-cymene	99-87-6	-67.90	1.0805	2	20030	C10H14O	3,4-dimethyl-5-ethylphenol	62126-75-4	22.18	0.9688	2
19873	C10H14	1-methyl-2-propylbenzene	1074-17-5	-60.20	1.0939	2	20031	C10H14O	3,4-dimethyl-6-ethylphenol	2219-78-5	22.18	0.9688	2
19874	C10H14	1-methyl-3-propylbenzene	1074-43-7	-82.58	1.1060	2	20032	C10H14O	3,5-dimethyl-2-ethylphenol	62126-76-5	22.18	0.9688	2
19875	C10H14	1-methyl-4-propylbenzene	1074-55-1	-63.60	1.0899	2	20033	C10H14O	3,5-dimethyl-4-ethylphenol	62126-77-6	22.18	0.9688	2
19878	C10H14	o-diethylbenzene	135-01-3	-31.22	1.0751	2	20034	C10H14O	2,3,4,5-tetramethylphenol	488-70-0	22.18	0.9688	2
19879	C10H14	m-diethylbenzene	141-93-5	-83.89	1.1006	2	20035	C10H14O	2,3,4,6-tetramethylphenol	3238-38-8	22.18	0.9688	2
19880	C10H14	p-diethylbenzene	105-05-5	-42.83	1.0657	2	20036	C10H14O	2,3,5,6-tetramethylphenol	527-35-5	22.18	0.9688	2
19881	C10H14	3-ethyl-o-xylene	933-98-2	-49.51	1.1073	2	20042	C10H14O	1-methyl-3-(1-methylethoxy)benzene	19177-04-9	14.85	1.0938	2
19882	C10H14	4-ethyl-o-xylene	934-80-5	-66.93	1.0993	2	20053	C10H14O	4-isopropylbenzenemethanol	536-60-7	20.00	0.9818	1
19883	C10H14	2-ethyl-m-xylene	2870-04-4	-16.26	1.0751	2	20064	C10H14O	4,5,6,7-tetrahydro-3,6-dimethylbenzofuran	494-90-6	15.00	0.9720	1
19884	C10H14	4-ethyl-m-xylene	874-41-9	-62.88	1.0993	2	20070	C10H14O	2-adamantanone	700-58-3	22.18	0.9688	2
19885	C10H14	5-ethyl-m-xylene	934-74-7	-84.33	1.1046	2	20071	C10H14O	butylphenol	28805-86-9	22.18	0.9688	2
19886	C10H14	2-ethyl-p-xylene	1758-88-9	-53.63	1.0926	2	20083	C10H14O	(S)-(-)-1-phenyl-1-butanol	22135-49-5	22.18	0.9688	2
19887	C10H14	1,2,3,4-tetramethylbenzene	488-23-3	-6.25	1.0805	2	20086	C10H14O	2,4,6-trimethylbenzyl alcohol	4170-90-5	22.18	0.9688	2
19888	C10H14	1,2,3,5-tetramethylbenzene	527-53-7	-23.69	1.0805	2	20089	C10H14O2	p-tert-butylcatechol	98-29-3	57.00	1.2300	2
19889	C10H14	1,2,4,5-tetramethylbenzene	95-93-2	79.23	1.0320	2	20092	C10H14O2	1,2-diethoxybenzene	2050-46-6	20.00	1.0075	1
19898	C10H14BeO4	beryllium acetylacetonate	10210-64-7	20.00	1.1680	1	20094	C10H14O2	1,4-diethoxybenzene	122-95-2	21.73	1.0338	2
19899	C10H14BrN	4-bromo-N,N-diethylaniline	2052-06-4	25.00	1.2846	2	20095	C10H14O2	7,7-dimethyltricyclo[2.2.1.02,6]heptane-1-ca*	512-60-7	21.73	1.0338	2
19900	C10H14Br2O	alpha,alpha'-dibromo-d-camphor	514-12-5	21.00	1.8540	1	20098	C10H14O2	4-isobutyl-1,3-benzenediol	18979-62-9	21.73	1.0338	2
19901	C10H14ClN	4-chloro-N,N-diethylaniline	2873-89-4	25.00	1.0345	2	20099	C10H14O2	2-methyl-5-isopropyl-1,4-benzenediol	2217-60-9	21.73	1.0338	2
19903	C10H14ClN	N-ethyl-N-(2-chloroethyl)aniline	92-49-9	25.00	1.0345	2	20100	C10H14O2	3-methyl-6-isopropyl-1,2-benzenediol	490-06-2	21.73	1.0338	2
19904	C10H14ClN	1,2,3,4-tetrahydro-1-naphthylamine hydrochlo*	49800-23-9	25.00	0.9740	1	20101	C10H14O2	2,3,5,6-tetramethyl-1,4-benzenediol	527-18-4	21.73	1.0338	2
19916	C10H14Cl6N4O2	triforine	26644-46-2	25.00	1.5269	2	20102	C10H14O2	4-methoxybenzenepropanol	5406-18-8	21.73	1.0338	2
19931	C10H14NO6P	paraoxon-ethyl	311-45-5	25.00	1.2740	1	20104	C10H14O2	1-phenylbutane-1,3-diol	65469-88-7	25.00	1.0720	1
19932	C10H14N2	butanal phenylhydrazone	940-54-5	21.25	1.0404	2	20105	C10H14O2	2-phenyl-1,2-butanediol	90925-48-7	21.73	1.0338	2
19936	C10H14N2	4-(4-piperidinyl)pyridine	581-45-3	21.25	1.0404	2	20108	C10H14O2	1,7,7-trimethylbicyclo[2.2.1]heptane-2,3-dio*	10334-26-6	21.73	1.0338	2
19941	C10H14N2O	N,N-diethyl-4-nitrosoaniline	120-22-9	15.00	1.2400	1	20109	C10H14O2	4-n-butoxyphenol	122-94-1	21.73	1.0338	2
19944	C10H14N2O	4-morpholinoaniline	2524-67-6	20.00	1.1500	2	20110	C10H14O2	tert-butylhydroquinone	1948-33-0	21.73	1.0338	2
19945	C10H14N2O2	N,N-diethyl-4-nitroaniline	2216-15-1	25.00	1.2250	1	20111	C10H14O2	DL-camphoroquinone	10373-78-1	21.73	1.0338	2
19947	C10H14N2O2	a-(4-pyridyl 1-oxide)-N-tert-butyl-nitrone	66893-81-0	25.00	1.1213	2	20112	C10H14O2	(1S)-(+)-camphorquinone	2767-84-2	21.73	1.0338	2
19948	C10H14N2O2	N,N-diethyl-3-nitroaniline	2216-16-2	25.00	1.1213	2	20114	C10H14O2	cis-1,5-dimethylbicyclo[3.3.0]octane-3,7-dio*	21170-10-5	21.73	1.0338	2
19951	C10H14N2O2S	5-ethyl-5-(2-methylallyl)-2-thiobarbituric a*	115-56-0	25.00	1.1987	2	20116	C10H14O2	3-noradamantanecarboxylic acid	16200-53-6	21.73	1.0338	2
19952	C10H14N2O3	aprobarbital	77-02-1	25.00	1.1756	2	20117	C10H14O2	L(-)-perillic acid	7694-45-3	21.73	1.0338	2
19953	C10H14N2O3	4-butoxy-3-nitroaniline	---	25.00	1.1756	2	20119	C10H14O2	1,7,7-trimethylbicyclo[2.2.1]heptane-2,3-dio*	465-29-2	21.73	1.0338	2
19954	C10H14N2O3	4-butoxy-2-nitroaniline	3987-86-8	25.00	1.1756	2	20129	C10H14O3	4-hydroxy-3-methoxybenzenepropanol	2305-13-7	23.85	1.0675	2
19958	C10H14N2O4	carbidopa	28860-95-9	25.00	1.2265	2	20130	C10H14O3	3-(2-methylphenoxy)-1,2-propanediol	59-47-2	23.85	1.0675	2
19960	C10H14N2O5	thymidine	50-89-5	25.00	1.2745	2	20132	C10H14O3	1,8,8-trimethyl-3-oxabicyclo[3.2.1]octane-2,*	595-30-2	20.00	1.1940	1
19964	C10H14N4	2,2'-bis(4,5-dimethylimidazole)	69286-06-2	25.00	1.1159	2	20134	C10H14O3	(R)-(+)-1-benzylglycerol	56552-80-8	23.85	1.0675	2
19966	C10H14N4O2	3-isobutyl-1-methylxanthine	28822-58-4	25.00	1.2231	2	20135	C10H14O3	2-benzyloxy-1,3-propanediol	14690-00-7	23.85	1.0675	2
19970	C10H14N4O3	1-(2-hydroxypropyl)theobromine	50-39-5	25.00	1.2718	2	20136	C10H14O3	(S)-3-benzyloxy-1,2-propanediol	17325-85-8	23.85	1.0675	2
19973	C10H14N4O4	dyphylline	479-18-5	25.00	1.3177	2	20137	C10H14O3	2-(3,4-dimethoxyphenyl)ethanol	7417-21-2	23.85	1.0675	2
19982	C10H14O	3-butylphenol	4074-43-5	20.00	0.9740	1	20138	C10H14O3	4-ethoxy-3-methoxybenzyl alcohol	61813-58-9	23.85	1.0675	2
19985	C10H14O	3-isobutylphenol	30749-25-8	22.18	0.9688	2	20141	C10H14O3	(+)-hexahydro-3a-hydroxy-7a-methyl-1H-inden-*	33879-04-8	23.85	1.0675	2
19986	C10H14O	4-isobutylphenol	4167-74-2	20.00	0.9778	1	20152	C10H14O4	dimethyl 1-cyclohexene-1,4-dicarboxylate	22646-79-3	23.57	1.0891	2
19988	C10H14O	3-sec-butylphenol	3522-86-9	22.18	0.9688	2	20154	C10H14O4	3-(2-methoxyphenoxy)-1,2-propanediol	93-14-1	23.57	1.0891	2
19989	C10H14O	4-sec-butylphenol	99-71-8	20.00	0.9860	1	20158	C10H14O4	(-)-camphanic acid	13429-83-9	23.57	1.0891	2
19991	C10H14O	3-tert-butylphenol	585-34-2	22.18	0.9688	2	20160	C10H14O4	3,4-diisopropoxy-3-cyclobutene-1,2-dione	61699-62-5	23.57	1.0891	2
19992	C10H14O	4-tert-butylphenol	98-54-4	98.80	1.0726	2	20162	C10H14O4	hydroquinone bis(2-hydroxyethyl) ether	104-38-1	23.57	1.0891	2
19993	C10H14O	2-methyl-3-propylphenol	66142-78-7	22.18	0.9688	2	20163	C10H14O4	O,O'-bis(2-hydroxyethoxy)benzene	10234-40-9	23.57	1.0891	2
19994	C10H14O	2-methyl-4-propylphenol	18441-56-0	22.18	0.9688	2	20174	C10H14O5	2-(methacryloyloxy)ethyl acetoacetate	21282-97-3	0.00	1.4867	2
19995	C10H14O	2-methyl-5-propylphenol	499-75-2	22.18	0.9688	2	20177	C10H14O8S4	(ethanediylidenetetrathio)tetraacetic acid	10003-69-7	25.00	1.4980	2
19996	C10H14O	2-methyl-6-propylphenol	---	22.18	0.9688	2	20179	C10H14S	2,4,6-trimethylbenzyl mercaptan	21411-42-7	25.00	0.9836	2
19997	C10H14O	3-methyl-2-propylphenol	3228-01-1	22.18	0.9688	2	20180	C10H14S2	durene-alpha1,alpha2-dithiol	10230-61-2	25.00	1.0744	2
20000	C10H14O	4-methyl-2-propylphenol	4074-46-8	22.18	0.9688	2	20185	C10H15Br	2-bromoadamantane	7314-85-4	25.00	1.2097	2
20001	C10H14O	4-methyl-3-propylphenol	---	22.18	0.9688	2	20186	C10H15Br	1-bromoadamantane	768-90-1	25.00	1.2097	2
20002	C10H14O	5-methyl-2-propylphenol	89-83-8	22.18	0.9688	2	20187	C10H15BrO	1-(bromomethyl)-7,7-dimethylbicyclo[2.2.1]he*	64161-50-8	25.00	1.2598	2
20003	C10H14O	2-methyl-3-isopropylphenol	4371-48-6	22.18	0.9688	2	20188	C10H15BrO	3-bromo-1,7,7-trimethylbicyclo[2.2.1]heptan-*	10293-06-8	25.00	1.4490	1
20007	C10H14O	3-methyl-2-isopropylphenol	3228-01-1	22.18	0.9688	2	20189	C10H15BrO	3-bromo-d-camphor	76-29-9	25.00	1.2598	2
20008	C10H14O	3-methyl-4-isopropylphenol	3228-02-2	22.18	0.9688	2	20190	C10H15Cl	1-chloroadamantane	935-56-8	25.00	0.9743	2
20009	C10H14O	3-methyl-5-isopropylphenol	3228-03-3	22.18	0.9688	2	20191	C10H15ClO3S	D(+)-10-camphorsulfonyl chloride	21286-54-4	25.00	1.2078	2
20010	C10H14O	4-methyl-2-isopropylphenol	4427-56-9	20.00	0.9910	1	20194	C10H15I	1-iodoadamantane	768-93-4	25.00	1.4052	2
20011	C10H14O	5-methyl-2-isopropylphenol	89-83-8	25.00	0.9700	1	20195	C10H15N	N,N-dietyhlaniline	91-66-7	-38.00	1.1431	2
20012	C10H14O	2,3-diethylphenol	---	22.18	0.9688	2	20196	C10H15N	2,6-diethylaniline	579-66-8	3.50	1.0745	2
20013	C10H14O	2,4-diethylphenol	936-89-0	22.18	0.9688	2	20210	C10H15N	2,3,4,5-tetramethylaniline	2217-45-0	21.32	0.9285	2
20014	C10H14O	2,5-diethylphenol	876-20-0	22.18	0.9688	2	20218	C10H15N	alpha-methylbenzenepropanamine	22374-89-6	15.00	0.9289	1
20015	C10H14O	2,6-diethylphenol	1006-59-3	22.18	0.9688	2	20221	C10H15N	4-(1-ethylpropyl)pyridine	35182-51-5	25.00	0.9085	1
20016	C10H14O	3,4-diethylphenol	875-85-4	22.18	0.9688	2	20236	C10H15NO	alpha-(1-aminopropyl)benzenemethanol	5897-76-7	24.11	0.9947	2
20017	C10H14O	3,5-diethylphenol	1197-34-8	22.18	0.9688	2	20237	C10H15NO	3-(diethylamino)phenol	91-68-9	24.11	0.9947	2
20018	C10H14O	2,3-dimethyl-4-ethylphenol	---	22.18	0.9688	2	20238	C10H15NO	4-[2-(dimethylamino)ethyl]phenol	539-15-1	24.11	0.9947	2
20019	C10H14O	2,3-dimethyl-5-ethylphenol	---	22.18	0.9688	2	20239	C10H15NO	ephedrine, (±)	90-81-3	20.00	1.1220	1
20020	C10H14O	2,3-dimethyl-6-ethylphenol	---	22.18	0.9688	2	20240	C10H15NO	d-ephedrine	321-98-2	24.11	0.9947	2
20021	C10H14O	2,4-dimethyl-3-ethylphenol	62126-74-3	22.18	0.9688	2	20241	C10H15NO	L-ephedrine	299-42-3	22.00	1.0085	1

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
20242	C10H15NO	4-[2-(methylamino)propyl]phenol	370-14-9	24.11	0.9947	2	20511	C10H16O4	camphoric acid, trans-(±)-	560-08-7	25.00	1.2490	1
20246	C10H15NO	2-amino-4-tert-butylphenol	1199-46-8	24.11	0.9947	2	20521	C10H16O4	dipropyl maleate	2432-63-5	-23.15	1.2415	2
20250	C10H15NO	2-(N-ethylanilino)ethanol	92-50-2	24.11	0.9947	2	20522	C10H16O4	cis-1,2,2-trimethyl-1,3-cyclopentanedicarbox*	124-83-4	20.00	1.1860	1
20255	C10H15NO	1-perillaldehyde-a-antioxime	30950-27-7	24.11	0.9947	2	20523	C10H16O4	1,1-cyclohexanediacetic acid	4355-11-7	20.86	1.0828	2
20264	C10H15NO	L-(+)-pseudoephedrine	90-82-4	24.11	0.9947	2	20524	C10H16O4	1,4-cyclohexanedione bis(ethylene ketal)	183-97-1	20.86	1.0828	2
20265	C10H15NO2	3,4-diethoxyaniline	39052-12-5	42.50	1.1450	2	20525	C10H16O4	dimethyl trans-1,4-cyclohexanedicarboxylate	3399-22-2	20.86	1.0828	2
20267	C10H15NO2	N-phenyl-N,N-diethanolamine	120-07-0	60.00	1.2010	1	20526	C10H16O4	dimethyl cyclohexane-1,4-dicarboxylate; (cis*	94-60-0	70.00	1.2505	2
20268	C10H15NO2	(R)-(+)-2-amino-3-benzyloxy-1-propanol	58577-87-0	42.50	1.1450	2	20529	C10H16O4	3,3,6,6-tetramethoxy-1,4-cyclohexadiene	15791-03-4	20.86	1.0828	2
20269	C10H15NO2	3-amino-3-(p-methoxyphenyl)-1-propanol	68208-24-2	42.50	1.1450	2	20531	C10H16O4S	camphorsulfonic acid, (1S)	3144-16-9	25.00	1.1584	2
20270	C10H15NO2	(3R-cis)-(-)-2,3-dihydro-3-isopropyl-7a-meth*	---	42.50	1.1450	2	20532	C10H16O4S	(1R)-(-)-camphorsulfonic acid	35963-20-3	25.00	1.1584	2
20271	C10H15NO2	2,5-diethoxyaniline	94-85-9	42.50	1.1450	2	20533	C10H16O4S	(±)-camphor-10-sulfonic acid (b)	5872-08-2	25.00	1.1584	2
20272	C10H15NO2	(3S-cis)-(+)-2,3-dihydro-3-isopropyl-7a-meth*	116910-11-3	42.50	1.1450	2	20536	C10H16O6	triethyl methanetricarboxylate	6279-86-3	16.00	1.1084	1
20274	C10H15NO2	a-((ethylamino)methyl)-m-hydroxybenzyl alcoh*	709-55-7	42.50	1.1450	2	20541	C10H16S	(1R)-(-)-thiocamphor	53402-10-1	25.00	0.9452	2
20275	C10H15NO2	p-hydroxyephedrine	365-26-4	42.50	1.1450	2	20545	C10H16Si	trimethyl(4-methylphenyl)silane	3728-43-6	20.00	0.8666	1
20276	C10H15NO2	1-(2-propynyl)cyclohexyl carbamate	358-52-1	42.50	1.1450	2	20551	C10H17Cl	bornyl chloride	464-41-5	22.50	0.9866	2
20281	C10H15NO3	(N-crotonyl)-(4S)-isopropyl-2-oxazolidinone	90719-30-5	25.00	1.1013	2	20553	C10H17Cl	2-chlorobornane	6120-13-4	22.50	0.9866	2
20284	C10H15NO3	vivotoxin	610-88-8	25.00	1.1013	2	20557	C10H17N	tricyclo[3.3.1.13,7]decan-1-amine	768-94-5	25.00	0.8832	2
20285	C10H15NO3S	(-)-(2S,8aR)-(camphorylsulfonyl)oxaziridine	104372-31-8	25.00	1.1780	2	20560	C10H17NO	camphor, (-), oxime	36065-15-3	116.00	1.0100	1
20286	C10H15NO3S	(+)-(2R,8aS)-(camphorylsulfonyl)oxaziridine	104322-63-6	25.00	1.1780	2	20561	C10H17NO	1-cyclohexyl-2-pyrrolidone	6837-24-7	25.00	1.0070	1
20290	C10H15NO4	(S)-N-boc-propargylglycine	63039-48-5	25.00	1.1544	2	20568	C10H17NO2S	(2S)-bornane-10,2-sultam	108448-77-7	25.00	1.0872	2
20295	C10H15N3	bethanidine	55-73-2	25.00	1.0381	2	20569	C10H17NO2S	(2R)-bornane-10,2-sultam	94594-90-8	25.00	1.0872	2
20315	C10H16	camphene	79-92-5	20.00	0.8746	1	20572	C10H17NO3	N-(tert-butoxycarbonyl)-4-piperidone	79099-07-3	25.00	1.0610	2
20316	C10H16	D-limonene	5989-27-5	-74.15	1.0640	2	20575	C10H17NO4	boc-L-proline	15761-39-4	25.00	1.1111	2
20319	C10H16	alpha-phellandrene	99-83-2	-53.15	1.0545	2	20576	C10H17NO4	boc-D-proline	37784-17-1	25.00	1.1111	2
20320	C10H16	beta-phellandrene	555-10-2	-53.15	1.0517	2	20578	C10H17NO5S	diethylammonium-2,5-dihydroxybenzene sulfona*	2624-44-4	25.00	1.2253	2
20321	C10H16	alpha-pinene	80-56-8	-64.00	1.0804	2	20579	C10H17NO6	N,N-bis(ethoxycarbonyl)glycine, ethyl ester	127665-32-1	25.00	1.2064	2
20323	C10H16	beta-pinene	127-91-3	-61.54	1.0926	2	20580	C10H17NO6	2-(beta-D-glucopyranosyloxy)-2-methylpropane*	554-35-8	25.00	1.2064	2
20325	C10H16	alpha-terpinene	99-86-5	-59.03	1.0436	2	20581	C10H17NO6	boc-L-glutamic acid	2419-94-5	25.00	1.2064	2
20326	C10H16	gamma-terpinene	99-85-4	-59.03	1.0613	2	20583	C10H17N2OS	4-isothiocyanato-tempo, free radical	36410-81-8	25.00	1.0846	2
20327	C10H16	terpinolene	586-62-9	-73.15	1.0885	2	20587	C10H17N3	4-cyclohexyl-3-ethyl-4H-1,2,4-triazole	4671-03-8	25.00	0.9973	2
20352	C10H16	tricyclene	508-32-7	80.00	0.8668	1	20590	C10H17N3O6S	L-glutathione	70-18-8	25.00	1.3420	2
20353	C10H16	tricyclo[3.3.1.13,7]decane	281-23-2	25.00	1.0900	1	20593	C10H18	1-decyne	764-93-2	-43.99	0.9539	2
20354	C10H16	1,7,7-trimethylbicyclo[2.2.1]hept-2-ene	464-17-5	23.55	0.8455	2	20594	C10H18	2-decyne	2384-70-5	22.40	0.8102	2
20356	C10H16	(+)-camphene	5794-03-6	25.00	0.8500	1	20595	C10H18	3-decyne	2384-85-2	25.00	0.7619	1
20357	C10H16	(-)-camphene	5794-04-7	25.00	0.8400	1	20601	C10H18	cis-decahydronaphthalene	493-01-6	-42.95	1.1019	2
20369	C10H16	tricyclo[5.2.1.0-{2,6}-]decane	6004-38-2	23.55	0.8455	2	20602	C10H18	trans-decahydronaphthalene	493-02-7	-30.36	1.0590	2
20375	C10H16Br2N2O2	1,4-bis(3-bromopropionyl)-piperazine	54-91-1	25.00	1.6044	2	20620	C10H18	2,2,3-trimethylbicyclo[2.2.1]heptane	473-19-8	67.00	0.8276	1
20376	C10H16Br2O4	diethyl meso-2,5-dibromoadipate	869-10-3	25.00	1.6026	2	20642	C10H18BrNO4S	D(+)-a-bromocamphor-p-sulfonic acid ammonium*	14575-84-9	25.00	1.4048	2
20377	C10H16ClN	benzyltrimethylammonium chloride	56-93-9	25.00	1.0700	1	20643	C10H18BrNO4S	L(-)-a-bromocamphor-p-sulfonic acid, ammoniu*	55870-50-3	25.00	1.4048	2
20382	C10H16Cl2IN	benzyltrimethylammonium dichloroiodate	114971-52-7	25.00	1.5154	2	20646	C10H18ClN3O2	1-(2-chloroethyl)-3-(4-methylcyclohexyl)-1-n*	13909-09-6	25.00	1.1648	2
20387	C10H16Cl3NOS	triallate	2303-17-5	25.00	1.2730	1	20648	C10H18Cl2N2	N,N,N',N'-tetramethyl-p-phenyl-p-phenylenedi*	637-01-4	25.00	1.1062	2
20393	C10H16N2	N,N-diethyl-1,3-benzenediamine	26513-20-2	20.00	0.9345	2	20653	C10H18IN2O2	3-(2-iodoacetamido)-proxyl, free radical	27048-01-7	25.00	1.4794	2
20396	C10H16N2	N,N,N',N'-tetramethyl-1,4-benzenediamine	100-22-1	20.00	0.9345	2	20656	C10H18N2O3	desthiobiotin	533-48-2	25.00	1.0884	2
20397	C10H16N2	N,N-diethyl-p-phenylenediamine hydrochloride	2198-58-5	20.00	0.9345	2	20657	C10H18N2O4	diethyl 1,4-piperazinedicarboxylate	5470-28-0	25.00	1.1372	2
20398	C10H16N2	2,3,5,6-tetramethyl-p-phenylenediamine	3102-87-2	20.00	0.9345	2	20659	C10H18N2O5	Na-boc-L-glutamine	13726-85-7	25.00	1.1834	2
20401	C10H16N2OS	5-isobutyl-3-allyl-2-thioxo-4-imidazolidinone	830-89-7	25.00	1.1048	2	20663	C10H18N2O7	N-(2-hydroxyethyl)ethylenediaminetriaceticac*	150-39-0	25.00	1.2687	2
20403	C10H16N2O2S	5-ethyldihydro-5-sec-butyl-2-thioxo-4,6(1H,5*	2095-57-0	25.00	1.1543	2	20667	C10H18N4O4S3	thiodicarb	59669-26-0	20.00	1.4000	1
20405	C10H16N2O3	5-butyl-5-ethyl-2,4,6(1H,3H,5H)-pyrimidinetr*	77-28-1	25.00	1.1299	2	20673	C10H18O	1,3,3-trimethylbicyclo[2.2.1]heptan-2-ol, (1*	512-13-0	84.00	0.9034	1
20406	C10H16N2O3	butisol	125-40-6	25.00	1.1299	2	20674	C10H18O	1,3,3-trimethylbicyclo[2.2.1]heptan-2-ol, en*	36386-49-9	40.00	0.9420	1
20407	C10H16N2O3S	biotin	58-85-5	25.00	1.2011	2	20675	C10H18O	1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol, ex*	24393-70-2	20.00	1.1000	1
20408	C10H16N2O4	N,N'-diallyltartardiamide	28843-34-7	25.00	1.1798	2	20676	C10H18O	4,6,6-trimethylbicyclo[3.1.1]heptan-2-ol, [1*	515-88-8	20.00	0.9400	1
20409	C10H16N2O4	N,N'-diallyl-L-tartardiamide	58477-85-3	25.00	1.1798	2	20677	C10H18O	borneol, (±)	6627-72-1	20.00	1.0110	1
20410	C10H16N2O4	tetraacetylethylenediamine	10543-57-4	25.00	0.9000	1	20678	C10H18O	2-butylcyclohexanone	1126-18-7	20.00	0.9060	1
20411	C10H16N2O7	g-L-glutamyl-L-glutamic acid	1116-22-9	25.00	1.3135	2	20679	C10H18O	4-isobutylcyclohexanone	42061-72-3	24.00	0.8914	1
20412	C10H16N2O8	ethylenediaminetetraacetic acid	60-00-4	25.00	1.6500	2	20680	C10H18O	cis-5-methyl-2-isopropylcyclohexanone, (2R)	1196-31-2	20.00	0.8947	1
20414	C10H16N4	2,2'-azobis(2-methylbutyronitrile)	13472-08-7	25.00	1.0711	2	20681	C10H18O	trans-2-methyl-5-isopropylcyclohexanone, (2S)	13163-73-0	20.00	0.9040	1
20416	C10H16N4O3	dimetilan	644-64-4	25.00	1.2237	2	20683	C10H18O	cyclodecanone	1502-06-3	20.00	0.9654	1
20417	C10H16N4O7	vicine	152-93-2	25.00	1.3906	2	20696	C10H18O	5-ethyl-4-methyl-5-hepten-3-one	74764-56-0	21.00	0.8564	1
20421	C10H16N6S	tagamet	51481-61-9	25.00	1.2397	2	20704	C10H18O	2,6,6-trimethyl-1-cyclohexene-1-methanol	472-20-8	19.00	0.9450	1
20423	C10H16O	camphor	76-22-2	20.00	0.9920	1	20711	C10H18O	1-methyl-4-(1-methylvinyl)cyclohexanol	138-87-4	20.00	0.9170	1
20424	C10H16O	camphor, (±)	21368-68-3	23.00	0.9454	2	20713	C10H18O	5-methyl-2-(1-methylvinyl)cyclohexanol, [1R-*	89-79-2	20.00	0.9110	1
20425	C10H16O	camphor, (+)	464-49-3	25.00	0.9900	1	20714	C10H18O	alpha-terpineol	10482-56-1	20.00	0.9337	1
20431	C10H16O	4,7,7-trimethylbicyclo[2.2.1]heptan-2-one, (*	10292-98-5	23.00	0.9454	2	20715	C10H18O	borneol	507-70-0	25.00	1.0100	1
20451	C10H16O	trans-octahydro-1(2H)-naphthalenone	21370-71-8	20.00	0.9860	1	20716	C10H18O	2-tert-butylcyclohexanone	1728-46-7	25.00	0.8930	1
20454	C10H16O	2-adamantanol	700-57-2	23.00	0.9454	2	20717	C10H18O	4-tert-butylcyclohexanone	98-53-3	22.73	0.9060	2
20455	C10H16O	1-adamantanol	768-95-6	23.00	0.9454	2	20722	C10H18O	cis-decahydro-1-naphthol	529-32-8	22.73	0.9060	2
20456	C10H16O	(1S)-(-)-camphor	464-48-2	25.00	0.9920	1	20726	C10H18O	[(1S)-endo]-(-)-borneol	464-45-9	22.73	0.9060	2
20483	C10H16O2	1,2-cyclodecanedione	96-01-5	21.90	0.9936	2	20727	C10H18O	(1R)-endo-(+)-fenchyl alcohol	2217-02-9	22.73	0.9060	2
20484	C10H16O2	3-cyclohexyl-2-butenoic acid	25229-42-9	21.90	0.9936	2	20731	C10H18O	DL-isoborneol	124-76-5	22.73	0.9060	2
20486	C10H16O2	trans,trans-2,4-decadienoic acid	30361-33-2	21.90	0.9936	2	20732	C10H18O	(1R,2R,3R,5S)-(-)-isopinocampheol	25465-65-0	22.73	0.9060	2
20487	C10H16O2	3,3-dimethyl-delta1,alpha-cyclohexaneacetic *	6790-47-2	17.00	0.9921	1	20733	C10H18O	(1S,2S,3S,5R)-(+)-isopinocampheol	27779-29-9	22.73	0.9060	2
20488	C10H16O2	cis-2,2-dimethyl-3-(2-methyl-1-propenyl)cycl*	26771-11-9	21.90	0.9936	2	20736	C10H18O	p-menthan-3-one	10458-14-7	25.00	0.8900	1
20490	C10H16O2	3-hydroxycamphor	10373-81-6	21.90	0.9936	2	20740	C10H18O	2-(4-methyl-cyclohex-3-enyl)-propan-2-ol	2438-12-2	22.73	0.9060	2
20491	C10H16O2	2-hydroxy-3-methyl-6-isopropyl-2-cyclohexen-*	490-03-9	21.90	0.9936	2	20744	C10H18O	a-terpineol	98-55-5	36.50	0.9346	1
20493	C10H16O2	(1R)-chrysanthemolactone	14087-70-8	21.90	0.9936	2	20745	C10H18O	2,2,6,6-tetramethylcyclohexanone	1195-93-3	22.73	0.9060	2
20494	C10H16O2	(1S)-chrysanthemolactone	14087-71-9	21.90	0.9936	2	20746	C10H18O	3,3,5,5-tetramethylcyclohexanone	14376-79-5	25.00	0.8810	1
20496	C10H16O2	(S)-(+)-5-(1-hydroxy-1-methylethyl)-2-methyl*	60593-11-5	25.00	1.0430	1	20748	C10H18O	1,3,3-trimethylbicyclo[2.2.1]heptan-2-ol	1632-73-1	22.73	0.9060	2
20497	C10H16O2	(1S,2S,5S)-(-)-2-hydroxy-3-pinanone	1845-25-6	25.00	1.0590	1	20760	C10H18O	2-(1-methylpropyl)cyclohexanone	14765-30-1	22.73	0.9060	2
20498	C10H16O2	(1R,2R,5R)-(+)-2-hydroxy-3-pinanone	24047-72-1	25.00	1.0590	1	20772	C10H18O2	9-decenoic acid	14436-32-9	15.00	0.9238	1
20508	C10H16O3	pinonic acid	61826-55-9	25.00	1.0272	2	20777	C10H18O2	2-hydroxycyclodecanone	96-00-4	21.91	0.9293	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
20779	C10H18O2	1,2,2,3-tetramethylcyclopentanecarboxylic ac*	464-88-0	21.91	0.9293	2	21066	C10H20O2	8-methylnonanoic acid	5963-14-4	22.30	0.8715	2
20784	C10H18O2	cyclohexanebutyric acid	4441-63-8	21.91	0.9293	2	21067	C10H20O2	neodecanoic acid	26896-20-8	25.00	0.9200	1
20790	C10H18O2	3,6-dimethyl-4-octyn-3,6-diol	78-66-0	21.91	0.9293	2	21068	C10H20O2	tert-decanoic acid	52627-73-3	22.30	0.8715	2
20792	C10H18O2	trans-p-menth-6-ene-2,8-diol	32226-54-3	21.91	0.9293	2	21074	C10H20O2	2-(4-isobutylphenyl)butyric acid	55837-18-8	22.30	0.8715	2
20793	C10H18O2	(1S,2S,3R,5S)-(+)-2,3-pinanediol	18680-27-8	21.91	0.9293	2	21076	C10H20O2	p-menthane-8-hydroperoxide	80-47-7	-43.15	1.1111	2
20794	C10H18O2	(1R,2R,3S,5R)-(-)-pinanediol	22422-34-0	21.91	0.9293	2	21077	C10H20O2	4-nonanecarboxylic acid	31080-39-4	22.30	0.8715	2
20810	C10H18O3	alpha-ethyl-1-hydroxycyclohexaneacetic acid	512-16-3	18.00	1.0010	1	21083	C10H20O4	diethylene glycol monobutyl ether acetate	124-17-4	-32.20	1.1970	2
20820	C10H18O4	sebacic acid	111-20-6	0.00	1.2070	1	21101	C10H21N	butylcyclohexylamine	10108-56-2	23.00	0.8429	2
20830	C10H18O4	3-methylnonanedioic acid	76078-85-8	20.91	1.0308	2	21107	C10H21NO	3-(aminomethyl)-3,5,5-trimethylcyclohexanol	15647-11-7	25.00	0.9690	1
20832	C10H18O4	3-tert-butyl adipic acid	10347-88-3	20.91	1.0308	2	21108	C10H21NO	decanamide	2319-29-1	130.00	0.8220	1
20842	C10H18O6	diisopropyl tartrate, (±)	58167-01-4	20.00	1.1166	1	21110	C10H21NO	2-isopropyl-N,2,3-trimethylbutyramide	51115-67-4	77.50	0.8955	2
20866	C10H19BrO2	10-bromodecanoic acid	50530-12-6	24.50	1.1791	2	21112	C10H21NO	1,2,2,6,6-pentamethylpiperidin-4-ol	2403-89-6	77.50	0.8955	2
20867	C10H19Br3	1,1,1-tribromodecane	62127-67-7	25.00	1.6088	2	21117	C10H21NO2	1-nitrodecane	4609-87-4	25.00	0.9340	2
20879	C10H19FO2	10-fluorodecanoic acid	334-59-8	25.00	0.9651	2	21126	C10H21NO4	1,4,7,10-tetraoxa-13-azacyclopentadecane	66943-05-3	25.00	1.0356	2
20882	C10H19F3	1,1,1-trifluorodecane	26288-16-4	25.00	0.9542	2	21128	C10H21N3O	N,N-diethyl-4-methyl-1-piperazinecarboxamide	90-89-1	25.00	0.9798	2
20885	C10H19I3	1,1,1-triiododecane	---	25.00	1.9872	2	21133	C10H22	decane	124-18-5	-29.64	0.8962	1
20887	C10H19N	bornylamine	32511-34-5	23.13	0.8913	2	21134	C10H22	2-methylnonane	871-83-0	-74.65	0.9291	2
20891	C10H19N	neobornylamine	2223-67-8	23.13	0.8913	2	21135	C10H22	3-methylnonane	5911-04-6	-84.80	0.9419	2
20896	C10H19N	1,3,3-trimethyl-6-azabicyclo[3.2.1]octane	53460-46-1	23.13	0.8913	2	21136	C10H22	4-methylnonane	17301-94-9	-98.70	0.9576	2
20897	C10H19NO	trans-octahydro-2H-quinolizine-1-methanol, (*	486-70-4	25.00	0.9106	2	21137	C10H22	5-methylnonane	15869-85-9	-87.70	0.9462	2
20901	C10H19NO3	N-tert-butoxycarbonyl-L-prolinol	69610-40-8	25.00	1.0210	2	21140	C10H22	2,2-dimethyloctane	15869-87-1	-68.77	0.9533	2
20904	C10H19NO4	boc-5-ava-oh	27219-07-4	25.00	1.0717	2	21141	C10H22	2,3-dimethyloctane	7146-60-3	-83.15	0.9490	2
20905	C10H19NO4	boc-L-norvaline	53308-95-5	25.00	1.0717	2	21142	C10H22	2,4-dimethyloctane	4032-94-4	-83.15	0.9433	2
20906	C10H19NO4	boc-L-valine	13734-41-3	25.00	1.0717	2	21143	C10H22	2,5-dimethyloctane	15869-89-3	-84.50	0.9419	2
20907	C10H19NO4	boc-D-valine	22838-58-0	25.00	1.0717	2	21144	C10H22	2,6-dimethyloctane	2051-30-1	-53.15	0.9177	2
20908	C10H19N2O3	2,2,6,6-tetramethylpiperidine-1-oxyl-4-amino*	15871-57-5	25.00	1.0691	2	21145	C10H22	2,7-dimethyloctane	1072-16-8	-54.00	0.9092	2
20914	C10H19N5O	sec-bumeton	26259-45-0	25.00	1.1105	2	21175	C10H22	3,3,5-trimethylheptane	7154-80-5	-108.15	0.9732	2
20915	C10H19N5O	2-methoxy-4,6-bis(isopropylamino)-1,3,5-tria*	1610-18-0	25.00	1.1105	2	21190	C10H22	2,2,3,3-tetramethylhexane	13475-81-5	-53.99	0.9547	2
20916	C10H19N5O	2-tert-butylamino-4-ethylamino-6-methoxy-S-t*	33693-04-8	25.00	1.1105	2	21195	C10H22	2,2,5,5-tetramethylhexane	1071-81-4	-53.15	0.9547	2
20917	C10H19N5S	prometryn	7287-19-6	20.00	1.1570	1	21208	C10H22Cl2N2O4	mannomustine	576-68-1	25.00	1.1974	2
20918	C10H19N5S	terbutryn	886-50-0	20.00	1.1150	1	21220	C10H22N2O3	1,4,10-trioxa-7,13-diaza-cyclopentadecane	31249-95-3	25.00	1.0159	2
20923	C10H20	butylcyclohexane	1678-93-9	-74.73	1.0113	2	21224	C10H22O	1-decanol	112-30-1	6.90	0.9798	2
20943	C10H20	1-decene	872-05-9	-66.26	0.9370	2	21317	C10H22O	2,2,5,5-tetramethyl-3-hexanol	55073-86-4	24.35	0.8299	2
20947	C10H20	2-methyl-1-nonene	2980-71-4	-64.82	0.9454	2	21329	C10H22O	2,2,3,4,4-pentamethyl-3-pentanol	5857-69-2	24.35	0.8299	2
20947.1	C10H20	cis-2-decene	20348-51-0	-66.15	1.0212	2	21330	C10H22O	2,3-dimethyl-2-tert-butyl-1-butanol	81931-81-9	24.35	0.8299	2
20947.2	C10H20	trans-2-decene	20063-97-2	-53.15	1.0043	2	21331	C10H22O	3,7-dimethyl-3-octanol, (±)	57706-88-4	20.00	0.8280	1
20947.3	C10H20	8-methyl-1-nonene	26741-24-2	-74.15	1.0436	2	21334	C10H22O	8-methyl-1-nonanol	55505-26-5	-60.00	1.0542	2
20947.4	C10H20	1,1-diethylcyclohexane	78-01-3	-100.00	1.0653	2	21335	C10H22O	di-pentyl ether	693-65-2	-69.43	0.9940	2
20947.5	C10H20	1,2,3,4-tetramethylcyclohexane	3726-45-2	-78.15	1.0464	2	21342	C10H22OS	dipentyl sulfoxide	1986-90-9	25.00	0.9033	2
20958	C10H20Br2	1,1-dibromodecane	59104-80-2	25.00	1.3417	2	21347	C10H22O2	1,2-decanediol	1119-86-4	21.00	0.8674	2
20959	C10H20Br2	1,10-dibromodecane	4101-68-2	30.00	1.3350	1	21348	C10H22O2	1,4-decanediol	37810-94-9	21.00	0.8674	2
20960	C10H20Br2	5,6-dibromodecane	77928-86-0	20.00	1.3484	1	21349	C10H22O2	1,10-decanediol	112-47-0	25.00	1.1001	1
20968	C10H20I2	1,1-diiododecane	66291-57-4	25.00	1.6584	2	21350	C10H22O2	2,9-decanediol	14021-92-2	21.00	0.8674	2
20969	C10H20I2	1,10-diiododecane	16355-92-3	25.00	1.6584	2	21351	C10H22O2	3,7-dimethyl-1,7-octanediol	107-74-4	20.00	0.9370	1
20973	C10H20N2	2,3'-bipiperidine	2467-09-6	25.00	0.8903	2	21352	C10H22O2	3,4-diethyl-3,4-hexanediol	6931-71-1	13.00	0.9602	1
20974	C10H20N2	1-cyclohexylpiperazine	17766-28-8	25.00	0.8903	2	21357	C10H22O2	(S)-1,2-decanediol	84276-14-2	21.00	0.8674	2
20975	C10H20N2	4-piperidinopiperidine	4897-50-1	25.00	0.8903	2	21358	C10H22O2	(R)-1,2-decanediol	87827-60-9	21.00	0.8674	2
20977	C10H20N2O	1,2,2,5,5-pentamethyl-4-ethyl-3-imidazoline-*	75491-38-2	25.00	0.9468	2	21359	C10H22O2	2-(2-ethylhexyloxy)ethanol	1559-35-9	-69.10	1.1538	2
20979	C10H20N2O2	1,2-bis(N-morpholino)ethane	1723-94-0	25.00	1.0001	2	21362	C10H22O2	1,3-decanediol	6071-27-8	21.00	0.8674	2
20981	C10H20N2O2	N,N'-hexamethylenebisacetamide	3073-59-4	25.00	1.0001	2	21369	C10H22O3	di(ethylene glycol) hexyl ether	112-59-4	-33.60	1.1360	2
20984	C10H20N2O4	hexanedioic acid, compound with piperazine (*	142-88-1	25.00	1.0983	2	21370	C10H22O3	di(propylene glycol) tert-butyl ether, isome*	132739-31-2	-53.15	1.1912	2
20985	C10H20N2O4	mebutamate	64-55-1	25.00	1.0983	2	21376	C10H22O4	2-[2-(2-butoxyethoxy)ethoxy]ethanol	143-22-6	-9.15	1.1820	2
20986	C10H20N2S2	dipiperidino disulfide	10220-20-9	25.00	1.0557	2	21378	C10H22O4	(2-(2-methoxy methyl ethoxy)methyl ethoxy)pr*	25498-49-1	-42.00	1.1964	2
20989	C10H20N2S4	disulfiram	97-77-8	25.00	1.1801	2	21380	C10H22O5	tetraethylene glycol dimethyl ether	143-24-8	-29.70	1.2381	2
20990	C10H20N2S4Zn	zinc diethyldithiocarbamate	14324-55-1	25.00	1.4700	1	21381	C10H22O5S2	D(-)-glucose diethyl mercaptal	1941-52-2	25.00	1.1514	2
20992	C10H20O	decanal	112-31-2	-6.00	0.9845	2	21383	C10H22O7	dipentaerythritol	126-58-9	25.00	1.1111	2
20997	C10H20O	2-tert-butylcyclohexanol	13491-79-7	25.00	0.9020	1	21384	C10H22O14S4	mannosulfan	7518-35-6	25.00	1.4967	2
20998	C10H20O	trans-2-butylcyclohexanol	35242-05-8	20.00	0.9020	1	21385	C10H22S	decyl mercaptan	143-10-2	-25.59	1.0217	2
21000	C10H20O	cyclodecanol	1502-05-2	20.00	0.9606	1	21389	C10H22S	ethyl octyl sulfide	3698-94-0	-32.15	1.0269	2
21010	C10H20O	menthol, (±)	15356-70-4	15.00	0.9030	1	21400	C10H23N	decylamine	2016-57-1	15.70	0.9328	2
21011	C10H20O	1-methyl-4-isopropylcyclohexanol	21129-27-1	20.00	0.9000	1	21405	C10H23N	dipentylamine	2050-92-2	-33.00	0.9517	2
21012	C10H20O	2-methyl-5-isopropylcyclohexanol, [1R-(1alph*	5563-78-0	20.00	0.9012	1	21412	C10H23NO3	bis-homotris	116747-79-6	25.00	0.9542	2
21013	C10H20O	2-methyl-1-propylcyclohexanol	24580-48-1	20.00	0.9128	1	21420	C10H24N2	N,N'-di-tert-butylethylenediamine	4062-60-6	53.35	0.8116	2
21014	C10H20O	3-methyl-1-propylcyclohexanol	24580-52-7	21.00	0.8903	1	21421	C10H24N2	1,10-diaminodecane	646-25-3	25.00	0.7955	2
21015	C10H20O	4-tert-butylcyclohexanol; (cis+trans)	98-52-2	21.94	0.8668	2	21422	C10H24N2	N,N'-dimethyl-1,8-octanediamine	33563-54-1	25.00	0.7690	1
21026	C10H20O	(1S,2R,5R)-(+)-isomenthol	23283-97-8	21.94	0.8668	2	21427	C10H24N2O2	tibutol	74-55-5	25.00	0.9245	2
21027	C10H20O	(1S,2R,5S)-(+)-menthol	15356-60-2	21.94	0.8668	2	21435	C10H24N4	1,4,8,11-tetraazacyclotetradecane	295-37-4	25.00	0.9273	2
21028	C10H20O	(1R,2S,5R)-(-)-menthol	2216-51-5	42.50	1.0298	2	21450	C10H26N4	N,N'-bis(3-aminopropyl)-1,4-butanediamine	71-44-3	25.00	0.9011	2
21029	C10H20O	menthol	89-78-1	15.00	0.8900	1	21451	C10H26N6O2	spermine nonoate	36587-13-	25.00	1.0740	2
21031	C10H20O	trans-4-(1,1-dimethylethyl)cyclohexanol	21862-63-5	21.94	0.8668	2	21457	C10H28N6	pentaethylenehexamine	4067-16-7	-30.00	0.9876	2
21032	C10H20O	cis-4-(1,1-dimethylethyl)cyclohexanol	937-05-3	21.94	0.8668	2	21461	C10H30O3Si4	decamethyltetrasiloxane	141-62-8	-68.00	1.0905	2
21033	C10H20O	[1R-(1a,2a,5b)]-5-methyl-2-(1-methylethyl)cy*	20747-49-3	21.94	0.8668	2	21463	C10H30O5Si5	decamethylcyclopentasiloxane	541-02-6	-38.00	1.1902	2
21040	C10H20O2	decanoic acid	334-48-5	31.60	1.0036	1	21464	C10Mn2O10	manganese carbonyl	10170-69-1	25.00	1.7500	1
21041	C10H20O2	2,2-dimethyloctanoic acid	29662-90-6	22.30	0.8715	2	21465	C10O10Re2	rhenium carbonyl	14285-68-8	25.00	2.8700	1
21042	C10H20O2	3-methylnonanoic acid	35205-79-9	20.00	0.9000	1	21468	C11HF21O2	perfluoroundecanoic acid	2058-94-8	25.00	1.7568	2
21043	C10H20O2	nonyl formate	5451-92-3	-33.15	1.0629	2	21469	C11H2F20O2	eicosafluoroundecanoic acid	1765-48-6	25.00	1.7297	2
21044	C10H20O2	2-ethylhexyl acetate	103-09-3	-93.00	1.1249	2	21471	C11H3F21O	2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,*	307-46-0	25.00	1.6953	2
21045	C10H20O2	octyl acetate	112-14-1	-38.50	1.0715	2	21472	C11H4ClF6N	4-chloro-2,8-bis(trifluoromethyl)quinoline	83012-13-9	25.00	1.5242	2
21052	C10H20O2	isopentyl isovalerate	659-70-1	-58.15	1.0646	2	21473	C11H5F6NO	2,8-bis(trifluoromethyl)-4-quinolinol	35853-41-9	25.00	1.4837	2
21062	C10H20O2	4-hydroxy-2,2,5,5-tetramethyl-3-hexanone	815-66-7	22.30	0.8715	2	21476	C11H6F3NO3	4-hydroxy-7-trifluoromethyl-3-quinolinecarbo*	574-92-5	25.00	1.4646	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
21478	C11H6O3	2H-furo(2,3-h)(1)benzopyran-2-one	523-50-2	25.00	1.3139	2	21594	C11H9NO5S	4-aminosulfonyl-1-hydroxy-2-naphthoic acid	64415-15-2	25.00	1.4350	2
21479	C11H6O3	7H-furo(3,2-g)(1)benzopyran-7-one	66-97-7	25.00	1.3139	2	21595	C11H9N3	amino-a-carboline	26148-68-5	25.00	1.2125	2
21481	C11H7BrO2	2-bromo-3-methyl-1,4-naphthalenedione	3129-39-3	25.00	1.5651	2	21597	C11H9N3	aminoperimidine	28832-64-6	25.00	1.2125	2
21482	C11H7BrO2	5-bromo-1-naphthalenecarboxylic acid	16726-67-3	25.00	1.5651	2	21600	C11H9N3O2	4-(2-pyridylazo)resorcinol	1141-59-9	25.00	1.3257	2
21483	C11H7BrO2	5-bromo-2-naphthalenecarboxylic acid	1013-83-8	25.00	1.5651	2	21601	C11H10	1-methylnaphthalene	90-12-0	-30.48	1.2343	2
21484	C11H7ClO	2-naphthalenecarbonyl chloride	2243-83-6	25.00	1.2529	2	21602	C11H10	2-methylnaphthalene	91-57-6	34.58	1.0577	2
21485	C11H7ClO	1-naphthoyl chloride	879-18-5	25.00	1.2650	1	21603	C11H10	methylnaphthalene	1321-94-4	22.50	1.0114	2
21486	C11H7ClO2	5-chloro-1-naphthalenecarboxylic acid	16650-52-5	25.00	1.3097	2	21604	C11H10BrNO2	N-(3-bromopropyl)phthalimide	5460-29-7	25.00	1.5046	2
21487	C11H7ClO2	8-chloro-1-naphthalenecarboxylic acid	4537-00-2	25.00	1.3097	2	21606	C11H10ClNO2	ethyl 5-chloro-2-indolecarboxylate	4792-67-0	25.00	1.2741	2
21491	C11H7FOS	(4-fluorophenyl)-(2-thienyl) ketone	579-49-7	25.00	1.2857	2	21607	C11H10ClNO2	methyl 2-chloro-a-cyanohydrocinnamate	7346-46-5	25.00	1.2741	2
21492	C11H7FO5S	4-fluorosulfonyl-1-hydroxy-2-naphthoic acid	839-78-1	25.00	1.4777	2	21608	C11H10ClNO2	m-chlorocarbanilic acid 1-methyl-2-propynyl *	1967-16-4	25.00	1.2741	2
21496	C11H7N	1-naphthalenecarbonitrile	86-53-3	25.00	1.1080	1	21609	C11H10Cl2N2O	a-(2,4-dichlorophenyl)-1H-imidazole-1-ethanol	24155-42-8	25.00	1.3436	2
21497	C11H7N	2-naphthalenecarbonitrile	613-46-7	60.00	1.0755	1	21611	C11H10Cl2N4	metoprine	7761-45-7	25.00	1.3856	2
21499	C11H7NO	2-naphthyl isocyanate	2243-54-1	25.00	1.2153	2	21612	C11H10Cl2O	3,5-bis(chloromethyl)-2,4,6-trimethylphenol	33919-18-5	25.00	1.2529	2
21501	C11H7NO3	N-(propargyloxy)phthalimide	4616-63-1	25.00	1.3373	2	21614	C11H10F3NO	1-[4-(trifluoromethyl)phenyl]-2-pyrrolidinone	73081-88-6	25.00	1.2567	2
21502	C11H7NO4	5-nitro-1-naphthalenecarboxylic acid	1975-44-6	25.00	1.3917	2	21615	C11H10F3NO3	N-trifluoroacetyl-L-phenylalanine	350-09-4	25.00	1.3491	2
21503	C11H7NO4	5-(2-nitrophenyl)furfural	20000-96-8	25.00	1.3917	2	21620	C11H10N2O	1-naphthylurea	6950-84-1	25.00	1.1862	2
21504	C11H7NS	1-naphthyl isothiocyanate	551-06-4	25.00	1.2420	2	21621	C11H10N2O	2-naphthylurea	13114-62-0	25.00	1.1862	2
21506	C11H8ClNO2S	2-(p-chlorophenyl)-4-thiazole acetic acid	17969-20-9	25.00	1.3933	2	21622	C11H10N2O	N-4-quinolinylacetamide	32433-28-6	25.00	1.1862	2
21509	C11H8Cl2N2S	4,6-dichloro-2-methylthio-5-phenylpyrimidine	64415-11-8	25.00	1.4102	2	21623	C11H10N2O	4'-(imidazol-1-yl)acetophenone	10041-06-2	25.00	1.1862	2
21516	C11H8N2	1H-perimidine	204-02-4	25.00	1.1816	2	21625	C11H10N2O	1-(3-aminophenyl)-2-pyridone	134-37-2	25.00	1.1862	2
21517	C11H8N2	4-amino-1-naphthalenecarbonitrile	58728-64-6	25.00	1.1816	2	21626	C11H10N2O2	3-hydroxy-2-naphthoic acid hydrazide	5341-58-2	25.00	1.2437	2
21518	C11H8N2	norharman	244-63-3	25.00	1.1816	2	21627	C11H10N2O2	2,4,6-trimethyl-1,3-phenylene diisocyanate	16959-10-7	25.00	1.2437	2
21520	C11H8N2O	2-(2-furyl)benzimidazole	3878-19-1	25.00	1.2449	2	21633	C11H10N2O3	5-methyl-5-phenyl-2,4,6(1H,3H,5H)-pyrimidine*	76-94-8	25.00	1.2973	2
21521	C11H8N2O2	2-(2-quinoxalinyl)malondialdehyde	205744-84-	25.00	1.3035	2	21634	C11H10N2O3	4-(3-methyl-5-oxo-2-pyrazolin-1-yl)benzoicac*	60875-16-3	25.00	1.2973	2
21522	C11H8N2O3S2	D(-)-luciferin	2591-17-5	25.00	1.4729	2	21636	C11H10N2O4	ethyl 5-nitroindole-2-carboxylate	16732-57-3	25.00	1.3474	2
21525	C11H8O	1-naphthalenecarboxaldehyde	66-77-3	20.00	1.1503	1	21637	C11H10N2O4	ethyl 7-nitroindole-2-carboxylate	6960-46-9	25.00	1.3474	2
21526	C11H8O	2-naphthalenecarboxaldehyde	66-99-9	99.00	1.0775	1	21638	C11H10N2S	1-naphthalenylthiourea	86-88-4	25.00	1.2118	2
21527	C11H8OS	phenyl-2-thienylmethanone	135-00-2	54.00	1.1890	1	21642	C11H10N4O4	2-formylquinoxaline-1,4-dioxide carbomethoxy*	6804-07-5	25.00	1.4383	2
21528	C11H8OS	phenyl-3-thienylmethanone	6453-99-2	25.00	1.2143	2	21643	C11H10N4O6	3-hydroxymethyl-1-((3-(5-nitro-2-furyl)allyl*	18857-59-5	25.00	1.5201	2
21530	C11H8O2	2-hydroxy-1-naphthalenecarboxaldehyde	708-06-5	48.33	1.2161	2	21647	C11H10O	2-methoxynaphthalene	93-04-9	38.00	1.0571	2
21531	C11H8O2	2-methyl-1,4-naphthalenedione	58-27-5	48.33	1.2161	2	21648	C11H10O	1-methyl-2-naphthalenol	1076-26-2	38.00	1.0571	2
21532	C11H8O2	1-naphthalenecarboxylic acid	86-55-5	25.00	1.3980	1	21649	C11H10O	4-methyl-1-naphthalenol	10240-08-1	38.00	1.0571	2
21533	C11H8O2	2-naphthalenecarboxylic acid	93-09-4	100.00	1.0770	1	21650	C11H10O	1-naphthalenemethanol	4780-79-4	80.00	1.1039	1
21535	C11H8O3	2-hydroxy-3-methyl-1,4-naphthalenedione	483-55-6	25.00	1.2487	2	21651	C11H10O	2-naphthalenemethanol	1592-38-7	38.00	1.0571	2
21536	C11H8O3	5-hydroxy-2-methyl-1,4-naphthalenedione	481-42-5	25.00	1.2487	2	21653	C11H10O	5-phenyl-2,4-pentadienal	13466-40-5	38.00	1.0571	2
21537	C11H8O3	1-hydroxy-2-naphthalenecarboxylic acid	86-48-6	25.00	1.2487	2	21654	C11H10O2	3,4-dihydro-1-naphthalenecarboxylic acid	3333-23-1	21.00	1.0890	2
21538	C11H8O3	3-hydroxy-2-naphthalenecarboxylic acid	92-70-6	25.00	1.2487	2	21655	C11H10O2	3-ethyl-2H-1-benzopyran-2-one	66898-39-3	21.00	1.0890	2
21539	C11H8O3	3-acetylcoumarin	3949-36-8	25.00	1.2487	2	21658	C11H10O2	4-methoxy-1-naphthol	84-85-5	21.00	1.0890	2
21540	C11H8O3	6-hydroxy-2-naphthoic acid	16712-64-4	25.00	1.2487	2	21660	C11H10O2	pentacyclo[5.4.0.02,6.03,10.05,9]undecan-8,1*	2958-72-7	21.00	1.0890	2
21542	C11H8O3	2-hydroxy-1-naphthoic acid	2283-08-1	25.00	1.2487	2	21662	C11H10O2	2-methyl-1,4-naphthalenediol	481-85-6	21.00	1.0890	2
21544	C11H8O4	3,5-dihydroxy-2-methyl-1,4-naphthalenedione	478-40-0	25.00	1.3062	2	21664	C11H10O3	dihydro-3-phenyl-2H-pyran-2,6(3H)-dione	2959-96-8	25.00	1.1909	2
21545	C11H8O5	2,3,4,6-tetrahydroxy-5H-benzocycloheptен-5-o*	569-77-7	25.00	1.3597	2	21665	C11H10O3	dihydro-4-phenyl-2H-pyran-2,6(3H)-dione	4160-80-9	25.00	1.1909	2
21546	C11H9Br	1-(bromomethyl)naphthalene	3163-27-7	25.00	1.4165	2	21666	C11H10O3	ethyl 2-benzofurancarboxylate	3199-61-9	28.00	1.1656	1
21547	C11H9Br	2-(bromomethyl)naphthalene	939-26-4	25.00	1.4165	2	21667	C11H10O3	7-ethoxycoumarin	31005-02-4	25.00	1.1909	2
21550	C11H9BrO	2-bromo-6-methoxynaphthalene	5111-65-9	25.00	1.4473	2	21668	C11H10O3	7-methoxy-4-methylcoumarin	2555-28-4	25.00	1.1909	2
21551	C11H9Cl	1-(chloromethyl)naphthalene	86-52-2	20.00	1.1813	1	21673	C11H10O4	5,7-dimethoxy-2H-1-benzopyran-2-one	487-06-9	25.00	1.2472	2
21552	C11H9Cl	1-chloro-2-methylnaphthalene	5859-45-0	25.00	1.1356	2	21674	C11H10O4	2-acetoxycinnamic acid	5562-18-3	25.00	1.2472	2
21553	C11H9Cl	2-(chloromethyl)naphthalene	2506-41-4	25.00	1.1356	2	21675	C11H10O4	6,7-dimethylesculetin	120-08-1	25.00	1.2472	2
21554	C11H9ClNO3	7-chloro-2-methyl-3,3a-dihydro-2H,9H-isoxazo*	29053-27-8	25.00	1.3510	2	21676	C11H10S	2-methyl-5-phenylthiophene	5069-26-1	25.00	1.1000	2
21555	C11H9ClN2O	5-chloro-3-methyl-1-phenylpyrazole-4-carboxa*	947-95-5	25.00	1.3006	2	21677	C11H11BrN2O	4-bromo-1,2-dihydro-1,5-dimethyl-2-phenyl-3H*	5426-65-3	20.00	1.5900	1
21556	C11H9Cl2NO2	barban	101-27-9	25.00	1.3713	2	21678	C11H11BrN2O2	5-bromo-DL-tryptophan	6548-09-0	25.00	1.5145	2
21557	C11H9Cl5O3	erbon	136-25-4	25.00	1.5195	2	21684	C11H11ClO2	1-(4-chlorophenyl)-1-cyclobutanecarboxylicac*	50921-39-6	25.00	1.1983	2
21558	C11H9F3O3	methyl 4-trifluoromethylbenzoylacetate	212755-76-5	25.00	1.3318	2	21685	C11H11ClO3	3-(p-chlorobenzoyl)-butyric acid	36978-49-1	25.00	1.2494	2
21564	C11H9N	3-phenylpyridine	1008-88-4	25.00	1.0567	2	21686	C11H11ClO3	3-(p-chlorobenzoyl)-2-methylpropionic acid	52240-20-7	25.00	1.2494	2
21565	C11H9N	4-phenylpyridine	939-23-1	25.00	1.0567	2	21687	C11H11ClO3	(4-allyloxy-3-chlorophenyl)acetic acid	22131-79-9	25.00	1.2494	2
21567	C11H9NO	1-naphthalenecarboxamide	2243-81-4	25.00	1.1550	2	21690	C11H11Cl2NO3S	dichlormethazanone	5571-97-1	25.00	1.4110	2
21568	C11H9NO	phenyl-1H-pyrrol-2-ylmethanone	7697-46-3	25.00	1.1550	2	21691	C11H11Cl2N3O	edrul	55294-15-0	25.00	1.3599	2
21569	C11H9NO	4-phenylpyridine-N-oxide	1131-61-9	25.00	1.1550	2	21692	C11H11Cl3O3	isopropyl (2,4,5-trichlorophenoxy)acetate	93-78-7	25.00	1.3789	2
21570	C11H9NO2	3-amino-2-naphthalenecarboxylic acid	5959-52-4	25.00	1.2168	2	21693	C11H11FN2O2	5-fluoro-DL-tryptophan	154-08-5	25.00	1.2556	2
21571	C11H9NO2	5-amino-1-naphthalenecarboxylic acid	32018-88-5	25.00	1.2168	2	21694	C11H11FN2O2	6-fluoro-DL-tryptophan	7730-20-3	25.00	1.2556	2
21572	C11H9NO2	1-methyl-4-nitronaphthalene	880-93-3	25.00	1.2168	2	21697	C11H11F3N2O3	flutamide	13311-84-7	25.00	1.3649	2
21573	C11H9NO2	2-methyl-1-nitronaphthalene	881-03-8	25.00	1.2168	2	21699	C11H11F3O4	2,2,2-trifluoro-2',4',6'-trimethoxyacetophen*	314-98-7	25.00	1.3244	2
21574	C11H9NO2	6-amino-2-naphthoic acid	116668-47-4	25.00	1.2168	2	21701	C11H11I3O3	iophenoxic acid	96-84-4	25.00	2.2890	2
21575	C11H9NO2	3-indoleacrylic acid	1204-06-4	25.00	1.2168	2	21702	C11H11N	3-ethylquinoline	1873-54-7	20.00	1.0508	1
21576	C11H9NO2	trans-3-indoleacrylic acid	29953-71-7	25.00	1.2168	2	21703	C11H11N	6-ethylquinoline	19655-60-8	25.00	1.0430	1
21577	C11H9NO2	methyl 3-isoquinolinecarboxylate	27104-73-0	25.00	1.2168	2	21704	C11H11N	8-ethylquinoline	19655-56-2	20.86	1.0491	2
21578	C11H9NO2	2-methyl-N-phenylmaleimide	3120-04-5	25.00	1.2168	2	21705	C11H11N	2,3-dimethylquinoline	1721-89-7	25.00	1.1013	1
21581	C11H9NO2	2-naphthohydroxamic acid	10335-79-2	25.00	1.2168	2	21707	C11H11N	2,6-dimethylquinoline	877-43-0	20.86	1.0491	2
21582	C11H9NO3	6-methoxy-4-quinolinecarboxylic acid	86-68-0	25.00	1.2743	2	21708	C11H11N	2,7-dimethylquinoline	93-37-8	20.86	1.0491	2
21583	C11H9NO3	3-hydroxy-2-methyl-4-quinolinecarboxylic acid	117-57-7	25.00	1.2743	2	21709	C11H11N	2,8-dimethylquinoline	1463-17-8	20.00	1.0394	1
21584	C11H9NO3	indole-3-pyruvic acid	392-12-1	25.00	1.2743	2	21710	C11H11N	3,4-dimethylquinoline	2436-92-2	20.86	1.0491	2
21585	C11H9NO3	1-methoxy-4-nitronaphthalene	4900-63-4	25.00	1.2743	2	21711	C11H11N	3,6-dimethylquinoline	20668-26-2	20.86	1.0491	2
21586	C11H9NO3	methyl 4-(cyanoacetyl)benzoate	69316-08-1	25.00	1.2743	2	21712	C11H11N	3,7-dimethylquinoline	20668-28-4	20.86	1.0491	2
21587	C11H9NO3	methyl 3-formylindole-6-carboxylate	133831-28-4	25.00	1.2743	2	21713	C11H11N	3,8-dimethylquinoline	20668-29-5	20.00	1.0510	1
21589	C11H9NO3	5-methyl-3-phenylisoxazole-4-carboxylic acid	1136-45-4	25.00	1.2743	2	21714	C11H11N	4,5-dimethylquinoline	59129-74-7	20.86	1.0491	2
21590	C11H9NO4	N-carbethoxyphthalimide	22509-74-6	25.00	1.3279	2	21716	C11H11N	4,8-dimethylquinoline	13362-80-6	20.86	1.0491	2
21591	C11H9NO4	N-tosyl-3-pyrrolecarboxylic acid	106058-86-0	25.00	1.3279	2	21717	C11H11N	5,6-dimethylquinoline	20668-30-8	20.86	1.0491	2
21592	C11H9NO4	4-hydroxy-8-methoxyquinaldic acid	2929-14-8	25.00	1.3279	2	21719	C11H11N	6,7-dimethylquinoline	20668-33-1	20.86	1.0491	2
21593	C11H9NO5	ethyl 5-nitrobenzofuran-2-carboxylate	69604-00-8	25.00	1.3780	2	21720	C11H11N	2,5-dimethylquinoline	26190-82-9	20.86	1.0491	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
21722	C11H11N	6,8-dimethylquinoline	2436-93-3	4.00	1.0665	1	21913	C11H13BrO	4'-bromovalerophenone	7295-44-5	25.00	1.3260	2
21723	C11H11N	2-ethylquinoline	1613-34-9	17.00	1.0500	1	21917	C11H13ClF3N3O4S3	polythiazide	346-18-9	25.00	1.5428	2
21725	C11H11N	4-methyl-1-naphthalenamine	4523-45-9	20.86	1.0491	2	21922	C11H13ClO	4-chloro-4'-methylbutyrophenone	38425-26-2	25.00	1.0290	2
21727	C11H11N	methyl-1-naphthylamine	2216-68-4	20.86	1.0491	2	21923	C11H13ClO	p-chlorovalerophenone	25017-08-7	25.00	1.0290	2
21728	C11H11N	2-naphthalenemethanamine	2018-90-8	20.86	1.0491	2	21926	C11H13ClO2	4-chloro-4'-methoxybutyrophenone	40877-19-8	25.00	1.1325	2
21730	C11H11N	1-(4-methylphenyl)-1H-pyrrole	827-60-1	20.86	1.0491	2	21929	C11H13ClO2S	mcpa-thioethyl	25319-90-8	25.00	1.2214	2
21735	C11H11N	3-methyl-2-naphthylamine	10546-24-4	20.86	1.0491	2	21930	C11H13ClO3	4-(4-chloro-2-methylphenoxy)butanoic acid	94-81-5	25.00	1.2009	2
21736	C11H11NO	2,4-dimethyl-6-quinolinol	64165-34-0	25.00	1.1016	2	21937	C11H13F3N2O3S	mefluidide	53780-34-0	25.00	1.3673	2
21737	C11H11NO	2,4-dimethyl-8-quinolinol	115310-98-0	25.00	1.1016	2	21938	C11H13F3N4O4	dinitramine	29091-05-2	25.00	1.4291	2
21738	C11H11NO	2,8-dimethyl-4-quinolinol	15644-80-1	25.00	1.1016	2	21943	C11H13IO5	bis(acetato-O)(3-methoxyphenyl)iodine	69180-50-3	25.00	1.6531	2
21739	C11H11NO	1-(1H-indol-3-yl)-2-propanone	1201-26-9	25.00	1.1016	2	21945	C11H13N	3-ethyl-2-methyl-1H-indole	35246-18-5	25.00	1.0414	1
21740	C11H11NO	6-methoxyquinaldine	1078-28-0	25.00	1.1016	2	21947	C11H13N	2,3,5-trimethyl-1H-indole	21296-92-4	23.33	0.9567	2
21745	C11H11NO2	1-methyl-3-phenyl-2,5-pyrrolidinedione	86-34-0	25.00	1.1619	2	21954	C11H13N	2,4,6-trimethylbenzylcyanide	34688-71-6	23.33	0.9567	2
21746	C11H11NO2	1-benzyl-2,5-pyrrolidinedione	2142-06-5	25.00	1.1619	2	21959	C11H13NO	3-methyl-4-phenyl-3-butenamide	7236-47-7	25.00	1.0340	2
21749	C11H11NO2	ethyl indole-2-carboxylate	3770-50-1	25.00	1.1619	2	21966	C11H13NO	4-dimethylaminocinnamaldehyde	6203-18-5	25.00	1.0340	2
21750	C11H11NO2	3-indolepropionic acid	830-96-6	25.00	1.1619	2	21969	C11H13NO	1-(4-methylphenyl)-2-pyrrolidinone	3063-79-4	25.00	1.0340	2
21756	C11H11NO2S	N-tosylpyrrole	17639-64-4	25.00	1.2403	2	21971	C11H13NO2	hydrohydrastinine	494-55-3	25.00	1.1775	2
21757	C11H11NO3	5-methoxyindole-3-acetic acid	3471-31-6	25.00	1.2181	2	21972	C11H13NO2	o-acetoacetotoluidide	93-68-5	25.00	1.3000	1
21762	C11H11NO4	ethyl 4-nitrocinnamate, predominantly trans	953-26-4	25.00	1.2707	2	21975	C11H13NO2	4-(dimethylamino)cinnamic acid	1552-96-1	25.00	1.1775	2
21763	C11H11NO4S	8-ethoxy-5-quinolinesulfonic acid	15301-40-3	25.00	1.3355	2	21976	C11H13NO2	1-methyl-7-hydroxy-6-methoxy-3,4-dihydroisoq*	4602-70-4	25.00	1.1775	2
21764	C11H11NO4S	2-ethyl-5-(3-sulfophenyl)isoxazolium hydroxi*	4156-16-5	25.00	1.3355	2	21977	C11H13NO2	DL-5-methyl-1,2,3,4-tetrahydroisoquinoline-3*	151637-59-1	25.00	1.1775	2
21765	C11H11NO4S	methyl 5-methylsulphonylindole-2-carboxylate	205873-28-	25.00	1.3355	2	21978	C11H13NO2	(2S,3R)-3-phenylpyrrolidine-2-carboxylic acid	18758-48-	25.00	1.1775	2
21767	C11H11NO5	ethyl 4-nitrobenzoylacetate	838-57-3	25.00	1.3201	2	21979	C11H13NO2	(S)-phenyl superquat	168297-84-5	25.00	1.1775	2
21773	C11H11NO6	3-nitrobenzaldehyde diacetate	29949-19-7	25.00	1.3930	1	21980	C11H13NO2	(R)-phenyl superquat	170918-42-0	25.00	1.1775	2
21774	C11H11NO6	4,5-dimethoxy-2-nitrocinnamic acid	20567-38-8	25.00	1.3664	2	21981	C11H13NO2	1,2,3,4-tetrahydroisoquinoline-1-acetic acid	105400-81-5	25.00	1.1775	2
21778	C11H11N3O2S	4-amino-N-2-pyridinylbenzenesulfonamide	144-83-2	25.00	1.3338	2	21983	C11H13NO2S	6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline*	24456-59-5	25.00	1.1914	2
21780	C11H11N3O4	3-ethoxy-1-(4-nitrophenyl)-2-pyrazolin-5-one	4105-90-2	25.00	1.3650	2	21985	C11H13NO3	3,4-dihydro-6,7-dimethoxy-1(2H)-isoquinolino*	493-49-2	25.00	1.1676	2
21784	C11H11N5	2-amino-3,8-dimethylimidazo(4,5-f)quinoxaline	77500-04-0	25.00	1.2647	2	21986	C11H13NO3	hydrastinine	6592-85-4	25.00	1.1676	2
21785	C11H11N5	3-(phenylazo)-2,6-pyridinediamine	94-78-0	25.00	1.2647	2	21987	C11H13NO3	p-acetoacetaniside	5437-98-9	25.00	1.1676	2
21786	C11H11N5O5	bis(hydroxymethyl)furatrizine	794-93-4	25.00	1.4909	2	21988	C11H13NO3	o-acetoacetanisidide	92-15-9	86.60	1.1320	1
21791.1	C11H12	p-isopropylenylstyrene	16262-48-9	-73.15	1.1653	2	21989	C11H13NO3	N-acetyl-L-phenylalanine	2018-61-3	25.00	1.1676	2
21796	C11H12ClNO4	N-(2-chloroacetyl)-L-tyrosine	1145-56-8	25.00	1.3161	2	21990	C11H13NO3	N-benzoyl-L-alanine methyl ester	7244-67-9	25.00	1.1676	2
21797	C11H12ClNO4	methyl 4-acetamido-5-chloro-2-methoxybenzoate	4093-31-6	25.00	1.3161	2	21991	C11H13NO3	3,4,5-trimethoxyphenylacetonitrile	13338-63-1	25.00	1.1676	2
21799	C11H12ClN5	azodine	136-40-3	25.00	1.3121	2	21995	C11H13NO4	bendiocarb	22781-23-3	20.00	1.2500	1
21801	C11H12Cl2N2O5	chloramphenicol	56-75-7	25.00	1.4501	2	21996	C11H13NO4	butyl 4-nitrobenzoate	120-48-9	22.50	1.1975	2
21804	C11H12FNO3	N-acetyl-4-fluoro-DL-phenylalanine	17481-06-0	25.00	1.2317	2	21997	C11H13NO4	5-[(2-methoxyphenoxy)methyl]-2-oxazolidinone	70-07-5	22.50	1.1975	2
21805	C11H12FNO3	N-acetyl-2-fluoro-DL-phenylalanine	66574-84-3	25.00	1.2317	2	21998	C11H13NO4	N-acetyl-L-tyrosine	537-55-3	22.50	1.1975	2
21811	C11H12I3NO2	iopanoic acid	96-83-3	25.00	2.2567	2	21999	C11H13NO4	DL-N-benzoyl-2-methylserine	7508-82-9	22.50	1.1975	2
21817	C11H12N2	2-methyl-1,4-naphthalenediamine	83-68-1	22.50	1.0808	2	22000	C11H13NO4	N-carbobenzyloxy-L-alanine	1142-20-7	22.50	1.1975	2
21818	C11H12N2	1-benzyl-2-methylimidazole	13750-62-4	25.00	1.1050	1	22001	C11H13NO4	N-carbobenzyloxy-DL-alanine	4132-86-9	22.50	1.1975	2
21819	C11H12N2O	1,2-dihydro-1,5-dimethyl-2-phenyl-3H-pyrazol*	60-80-0	25.00	1.1340	2	22003	C11H13NO4	4-nitrophenyl trimethylacetate	4195-17-9	22.50	1.1975	2
21820	C11H12N2O	vasicine	6159-55-3	25.00	1.1340	2	22004	C11H13NO4	o-(1,3-dioxolan-2-yl)phenyl methylcarbamate	6988-21-2	22.50	1.1975	2
21821	C11H12N2O	2,2-dimethyl-4-phenyl-2H-imidazole-1-oxide	23557-86-	25.00	1.1340	2	22006	C11H13NO5	N-carbobenzyloxy-L-serine	1145-80-8	25.00	1.2677	2
21823	C11H12N2OS3	2-benzothiazolyl morpholinodisulfide	95-32-9	25.00	1.3374	2	22007	C11H13NO5	N-carbobenzyloxy-DL-serine	2768-56-1	25.00	1.2677	2
21824	C11H12N2OS2	4-(2-benzothiazolylthio)morpholine	102-77-2	25.00	1.2803	2	22013	C11H13N3O	ampyrone	83-07-8	25.00	1.1631	2
21825	C11H12N2O2	L-tryptophan	73-22-3	25.00	1.1901	2	22014	C11H13N3O2S	1-(2-mesitylsulfonyl)-1H-1,2,4-triazole	54230-59-0	25.00	1.2827	2
21826	C11H12N2O2	D(+)-tryptophan	153-94-6	25.00	1.1901	2	22015	C11H13N3O3S	sulfisoxazole	127-69-5	25.00	1.3263	2
21827	C11H12N2O2	ethylphenylhydantoin	631-07-2	25.00	1.1901	2	22016	C11H13N3O3S	2-(p-aminobenzenesulfonamido)-4,5-dimethylox*	729-99-7	25.00	1.3263	2
21828	C11H12N2O2	L-5-ethyl-5-phenylhydantoin	65567-32-0	25.00	1.1901	2	22019	C11H13N3O5	7-deazainosine	2862-16-0	25.00	1.3551	2
21829	C11H12N2O2	3-ethyl-5-phenylhydantoin	86-35-1	25.00	1.1901	2	22045	C11H14BrNO	4-(4-bromophenyl)-4-piperidinol	57988-58-6	25.00	1.3439	2
21831	C11H12N2O2	DL-tryptophan	54-12-6	25.00	1.1901	2	22046	C11H14ClNO	propachlor	1918-16-7	25.00	1.2420	1
21832	C11H12N2O3	DL-5-hydroxytryptophan	114-03-4	25.00	1.2427	2	22047	C11H14ClNO	4-(4-chlorophenyl)-4-hydroxypiperidine, crys*	39512-49-7	25.00	1.1263	2
21833	C11H12N2O3	L-5-hydroxytryptophan	4350-09-8	25.00	1.2427	2	22048	C11H14ClNO2	N-butyl-4-chloro-2-hydroxybenzamide	575-74-6	25.00	1.1763	2
21838	C11H12N2O6	butyl 3,5-dinitrobenzoate	10478-02-1	25.00	1.3821	2	22052	C11H14ClN3O3S	glycolpyramide	631-27-6	25.00	1.3608	2
21844	C11H12N4O2S	sulfamerazine	127-79-7	25.00	1.3508	2	22053	C11H14ClN5	cycloguanyl	516-21-2	25.00	1.2629	2
21845	C11H12N4O3S	sulfamethoxypyridazine	80-35-3	25.00	1.3926	2	22054	C11H14Cl2	2,4-bis(chloromethyl)-1,3,5-trimethylbenzene	1585-17-7	25.00	1.1120	2
21846	C11H12N4O3S	N1-(3-methoxy-2-pyrazinyl)sulfanilamide	152-47-6	25.00	1.3926	2	22057	C11H14N2	N,N-dimethyl-1H-indole-3-methanamine	87-52-5	25.00	1.0287	2
21847	C11H12N4O3S	sulfamonomethoxin	1220-83-3	25.00	1.3926	2	22058	C11H14N2	DL-a-methyltryptamine	299-26-3	25.00	1.0287	2
21848	C11H12N4O4S	1-(mesitylene-2-sulfonyl)-3-nitro-1,2,4-tria*	74257-00-4	25.00	1.4322	2	22059	C11H14N2	N-methyltryptamine	61-49-4	25.00	1.0287	2
21857	C11H12O	1-phenyl-1-penten-3-one	3152-68-9	20.00	0.8697	1	22063	C11H14N2O	5-methoxy-1H-indole-3-ethanamine	608-07-1	25.00	1.0871	2
21862	C11H12O2	3,4-dihydro-6-methoxy-1(2H)-naphthalenone	1078-19-9	23.57	1.0695	2	22064	C11H14N2O	cytisine	485-35-8	25.00	1.0871	2
21866	C11H12O2	5,6,7,8-tetrahydro-2-naphthalenecarboxylic a*	1131-63-1	23.57	1.0695	2	22065	C11H14N2O	4,4-dimethyl-1-phenyl-3-pyrazolidone	2654-58-2	25.00	1.0871	2
21867	C11H12O2	1,2,3,4-tetrahydro-2-naphthalenecarboxylic a*	53440-12-3	23.57	1.0695	2	22067	C11H14N2O	6-methoxytryptamine	3610-36-4	25.00	1.0871	2
21870	C11H12O2	cyclopropyl 4-methoxyphenyl ketone	7152-03-6	23.57	1.0695	2	22071	C11H14N2O2	4-hydroxymethyl-4-methyl-1-phenyl-3-pyrazoli*	13047-13-7	25.00	1.1419	2
21872	C11H12O2	3,6-dihydroxybenzonorbornane	16144-91-5	23.57	1.0695	2	22074	C11H14N2O2	phenylethylacetylurea	90-49-3	25.00	1.1419	2
21874	C11H12O2	6-methoxy-2-tetralone	2472-22-2	23.57	1.0695	2	22075	C11H14N2O3	N-acetyl-L-tyrosinamide	1948-71-6	25.00	1.1934	2
21876	C11H12O2	1-(4-methylphenyl)-1-cyclopropanecarboxylic *	83846-66-6	23.57	1.0695	2	22076	C11H14N2O3	N-tert-butyl-alpha-(4-nitrophenyl)nitrone	3585-88-4	25.00	1.1934	2
21889	C11H12O3	5,6-dimethoxy-1-indanone	2107-69-9	21.89	1.1235	2	22081	C11H14N2O4	N-(5-nitro-2-propoxyphenyl)acetamide	553-20-8	25.00	1.2418	2
21890	C11H12O3	ethyl 4-hydroxycinnamate	17041-46-2	21.89	1.1235	2	22086	C11H14N2S	N-tert-butyl-2-benzothiazolesulfenamide	95-31-8	25.00	1.1155	2
21892	C11H12O3	1-(4-methoxyphenyl)-1-cyclopropanecarboxylic*	16728-01-1	21.89	1.1235	2	22089	C11H14N4O2	mepirizol	18694-40-1	25.00	1.2387	2
21893	C11H12O3	3-(4-methylbenzoyl)propionic acid	4619-20-9	21.89	1.1235	2	22091	C11H14N4O4	2-(7'-theophyllinemethyl)-1,3-dioxolane	69975-86-6	25.00	1.3290	2
21894	C11H12O3	methyl 4-methoxycinnamate	832-01-9	21.89	1.1235	2	22093	C11H14N4O4S	methylthioinosine	342-69-8	25.00	1.3817	2
21899	C11H12O4	dimethyl phenylmalonate	37434-59-6	22.50	1.1300	2	22108	C11H14O	4-cyclopentylphenol	1518-83-8	21.50	0.9882	2
21900	C11H12O4	benzylidene diacetate	581-55-5	20.00	1.1100	1	22109	C11H14O	2-cyclopentylphenol	1518-84-9	21.50	0.9882	2
21902	C11H12O4	2,5-dimethoxycinnamic acid	10538-51-9	22.50	1.1300	2	22113	C11H14O2	butyl benzoate	136-60-7	-21.50	1.2155	2
21903	C11H12O4	3,4-dimethoxycinnamic acid	2316-26-9	22.50	1.1300	2	22116	C11H14O2	benzenepentanoic acid	2270-20-4	22.09	1.0291	2
21904	C11H12O4	3,5-dimethoxycinnamic acid	16909-11-8	22.50	1.1300	2	22119	C11H14O2	benzoic acid, p-tert-butyl-	98-73-7	22.09	1.0291	2
21905	C11H12O4	3-(4-methoxybenzoyl)propionic acid	3153-44-4	22.50	1.1300	2	22121	C11H14O2	cis-1,2-dimethoxy-4-(1-propenyl)benzene	6380-24-1	20.00	1.0521	1
21906	C11H12O4	3-phenylglutaric acid	4165-96-2	22.50	1.1300	2	22122	C11H14O2	beta,beta-dimethylbenzenepropanoic acid	1010-48-6	22.09	1.0291	2
21908	C11H12O5	3,5-dimethoxy-4-hydroxycinnamic acid, predom*	530-59-6	25.00	1.2459	2	22126	C11H14O2	1-(4-hydroxy-3-methylphenyl)-2-methyl-1-prop*	73206-57-2	22.09	1.0291	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
22127	C11H14O2	alpha-isopropylbenzeneacetic acid	3508-94-9	22.09	1.0291	2	22354	C11H16	pentamethylbenzene	700-12-9	54.30	0.9789	1
22129	C11H14O2	methyl 2-phenylbutanoate	2294-71-5	22.09	1.0291	2	22360	C11H16ClN3O4S2	buthiazide	2043-38-1	25.00	1.3963	2
22130	C11H14O2	4-methyl-4-phenyl-1,3-dioxane	1200-73-3	20.00	1.0864	1	22361	C11H16ClN5	1-(p-chlorophenyl)-5-isopropylbiguanide	500-92-5	25.00	1.2179	2
22133	C11H14O2	alpha-propylbenzeneacetic acid, (±)	7782-21-0	22.09	1.0291	2	22366	C11H16FN3O3	carmofur	61422-45-5	25.00	1.2287	2
22134	C11H14O2	2,4,5-trimethylphenyl acetate	69305-42-6	22.09	1.0291	2	22373	C11H16N2O	1-(2-methoxyphenyl)piperazine	35386-24-4	25.00	1.0950	1
22137	C11H14O2	4-butylbenzoic acid	20651-71-2	22.09	1.0291	2	22377	C11H16N2O2	pilocarpine	92-13-7	25.00	1.0982	2
22143	C11H14O2	p-hydroxyvalerophenone	2589-71-1	22.09	1.0291	2	22378	C11H16N2O2	aminocarb	2032-59-9	25.00	1.0982	2
22146	C11H14O2	9-methyl-d-5(10)-octaline-1,6-dione	20007-72-1	22.09	1.0291	2	22383	C11H16N2O3	butalbital	77-26-9	25.00	1.1486	2
22147	C11H14O2	4-(4-methylphenyl)butyric acid	4521-22-6	22.09	1.0291	2	22384	C11H16N2O3	enallylpropymal	1861-21-8	25.00	1.1486	2
22151	C11H14O2	2,4,6-trimethylphenylacetic acid	4408-60-0	22.09	1.0291	2	22387	C11H16N2O3	5-ethyl-5-(1-methyl-1-butenyl)barbiturate	125-42-8	25.00	1.1486	2
22153	C11H14O2	4-tert-butylbenzoic acid	1077-58-3	22.09	1.0291	2	22395	C11H16N4O4	pentostatin	53910-25-1	25.00	1.2814	2
22154	C11H14O2	3-tert-butylbenzoic acid	7498-54-6	22.09	1.0291	2	22396	C11H16N4O4	2,6-piperazinedione-4,4'-propylene dioxopipe*	21416-87-5	25.00	1.2814	2
22165	C11H14O3	butyl 4-hydroxybenzoate	94-26-8	22.07	1.0913	2	22399	C11H16O	p-tert-amylphenol	80-46-6	92.85	1.0725	2
22173	C11H14O3	4-(4-hydroxy-3-methoxyphenyl)-2-butanone	122-48-5	22.07	1.0913	2	22401	C11H16O	2-tert-butyl-4-methylphenol	2409-55-4	75.00	0.9247	1
22174	C11H14O3	2-hydroxy-3-methyl-6-isopropylbenzoic acid	4389-53-1	22.07	1.0913	2	22402	C11H16O	2-tert-butyl-5-methylphenol	88-60-8	80.00	0.9220	1
22175	C11H14O3	2-hydroxy-6-methyl-3-isopropylbenzoic acid	548-51-6	22.07	1.0913	2	22403	C11H16O	2-tert-butyl-6-methylphenol	2219-82-1	80.00	0.9240	1
22179	C11H14O3	4-butoxybenzoic acid	1498-96-0	22.07	1.0913	2	22404	C11H16O	4-tert-butyl-2-methylphenol	98-27-1	20.00	0.9650	1
22184	C11H14O3	3-hydroxy-2,2-dimethyl-3-phenylpropionic acid	ethyl-3-ph	22.07	1.0913	2	22405	C11H16O	4-isopentylphenol	1805-61-4	23.00	0.9562	1
22190	C11H14O4	ethyl 3,4-dimethoxybenzoate	3943-77-9	25.00	1.1466	2	22406	C11H16O	5-methyl-2-sec-butylphenol	29472-95-5	25.00	0.9369	1
22192	C11H14O4	(-)-2,3-O-benzylidene-L-threitol	35572-34-0	25.00	1.1466	2	22407	C11H16O	pentamethylphenol	2819-86-5	28.44	0.9590	2
22193	C11H14O4	(+)-2,3-O-benzylidene-D-threitol	58383-35-0	25.00	1.1466	2	22411	C11H16O	alpha-tert-butylbenzenemethanol	3835-64-1	28.44	0.9590	2
22194	C11H14O4	3,4-diethoxybenzoic acid	5409-31-4	25.00	1.1466	2	22414	C11H16O	beta,beta-dimethylbenzenepropanol	13351-61-6	28.44	0.9590	2
22195	C11H14O4	3-(3,4-dimethoxyphenyl)propionic acid	2107-70-2	25.00	1.1466	2	22415	C11H16O	alpha-ethylbenzenepropanol, (S)	71747-37-0	20.00	0.9687	1
22196	C11H14O4	dimethyl carbate	5826-73-3	25.00	1.1466	2	22423	C11H16O	alpha,alpha,beta-trimethylbenzeneethanol	3280-08-8	20.00	0.9794	1
22197	C11H14O4	ethyl homovanillate	60563-13-5	25.00	1.1466	2	22439	C11H16O	2-(1-methylbutyl)phenol	87-26-3	28.44	0.9590	2
22199	C11H14O4	3',4',5'-trimethoxyacetophenone	1136-86-3	25.00	1.1466	2	22440	C11H16O	o-amylphenol	136-81-2	28.44	0.9590	2
22202	C11H14O5	methyl 3,4,5-trimethoxybenzoate	1916-07-0	25.00	1.1972	2	22441	C11H16O	2-sec-amylphenol	26401-74-1	28.44	0.9590	2
22203	C11H14O5	3,4,5-trimethoxyphenylacetic acid	951-82-6	25.00	1.1972	2	22442	C11H16O	4-sec-amylphenol	25735-67-5	28.44	0.9590	2
22204	C11H14O5	genipin	6902-77-8	25.00	1.1972	2	22448	C11H16O2	tert-butyl-4-hydroxyanisole	25013-16-5	24.83	1.0121	2
22205	C11H14O6	crotonyloxymethyl-4,5,6-trihydrooxycyclohex-*	57449-30-6	25.00	1.2448	2	22451	C11H16O2	4-isopentyl-1,3-benzenediol	15116-17-3	24.83	1.0121	2
22210	C11H15BrN2O	bromanylpromide	332-69-4	25.00	1.3602	2	22452	C11H16O2	4-pentyl-1,3-benzenediol	533-24-4	24.83	1.0121	2
22211	C11H15BrN2O3	5-(2-bromoallyl)-5-sec-butylbarbituric acid	1142-70-7	25.00	1.4396	2	22454	C11H16O2	methyl 7,7-dimethyltricyclo[2.2.1.02,6]hepta*	56694-97-4	42.00	1.0255	1
22212	C11H15BrN2O3	narcobarbital	125-55-3	25.00	1.4396	2	22455	C11H16O2	1-adamantanecarboxylic acid	828-51-3	24.83	1.0121	2
22216	C11H15Cl	4-tert-butylbenzyl chloride	19692-45-6	25.00	0.9450	1	22457	C11H16O2	4-butoxybenzyl alcohol	6214-45-5	24.83	1.0121	2
22219	C11H15ClN2O2	p-chlorophenoxyacetic acid 2-isopropylhydraz*	3544-35-2	25.00	1.1996	2	22458	C11H16O2	2,2-dimethyl-1-phenyl-1,3-propanediol	33950-46-8	24.83	1.0121	2
22221	C11H15ClO	1-adamantanecarbonyl chloride	2094-72-6	25.00	1.0557	2	22460	C11H16O2	4-pentyloxyphenol	18979-53-8	24.83	1.0121	2
22225	C11H15Cl2NO2S	N,N-bis-(2-chloroethyl)-p-toluenesulfonamide	42137-88-2	25.00	1.2833	2	22464	C11H16O2	3-tert-butyl-4-hydroxyanisole	121-00-6	24.83	1.0121	2
22233	C11H15N	4-phenylpiperidine	771-99-3	16.00	0.9996	1	22465	C11H16O3	d-camphocarboxylic acid	18530-30-8	23.33	1.0564	2
22234	C11H15N	1-adamantanecarbonitrile	23074-42-2	23.20	0.9732	2	22477	C11H16O4	3,9-divinyl-2,4,8,10-tetraoxaspiro[5.5]undec*	78-19-3	25.00	1.2510	1
22238	C11H15NO	1-(4-aminophenyl)-1-pentanone	38237-74-0	23.75	1.0622	2	22493	C11H17N	N,N-diethyl-4-methylaniline	613-48-9	16.00	0.9242	1
22239	C11H15NO	4-benzylmorpholine	10316-00-4	20.00	1.0387	1	22494	C11H17N	4-isopentylaniline	104177-72-2	15.00	0.9280	1
22240	C11H15NO	4-(diethylamino)benzaldehyde	120-21-8	23.75	1.0622	2	22495	C11H17N	N-isopentylaniline	2051-84-5	55.00	0.8912	1
22241	C11H15NO	N-isopropyl-N-phenylacetamide	5461-51-8	23.75	1.0622	2	22496	C11H17N	2,3,4,5,6-pentamethylaniline	2243-30-3	25.60	0.9137	2
22242	C11H15NO	3-methyl-2-phenylbutanamide	5470-47-3	23.75	1.0622	2	22497	C11H17N	p-tert-pentylaniline	2049-92-5	25.60	0.9137	2
22244	C11H15NO	4-(4-methylphenyl)morpholine	3077-16-5	23.75	1.0622	2	22501	C11H17N	N,N-diethyl-m-toluidine	91-67-8	25.00	0.9210	1
22245	C11H15NO	N-phenyl-N-propylacetamide	2437-98-1	23.75	1.0622	2	22502	C11H17N	N-ethyl-N-isopropylaniline	54813-77-3	25.00	0.9260	1
22246	C11H15NO	1-adamantyl isocyanate	4411-25-0	23.75	1.0622	2	22503	C11H17N	N,N,2,4,6-pentamethylaniline	13021-15-3	25.00	0.9070	1
22250	C11H15NO	N-tert-butyl-a-phenylnitrone	3376-24-7	23.75	1.0622	2	22504	C11H17N	4-pentylaniline	33228-44-3	25.00	0.9190	1
22255	C11H15NO	2,4,6-trimethylacetanilide	5096-21-9	23.75	1.0622	2	22505	C11H17N	N-pentylaniline	2655-27-8	25.60	0.9137	2
22256	C11H15NO2	butyl 4-aminobenzoate	94-25-7	21.67	1.0463	2	22507	C11H17NO	alpha-[1-(ethylamino)ethyl]benzenemethanol, *	37025-57-3	25.00	0.9863	2
22258	C11H15NO2	isobutyl 4-aminobenzoate	94-14-4	21.67	1.0463	2	22510	C11H17NO	N-methylephedrine, [R-(R*,S*)]	552-79-4	25.00	0.9863	2
22259	C11H15NO2	isobutyl N-phenylcarbamate	2291-80-7	21.67	1.0463	2	22511	C11H17NO	1-adamantanecarboxamide	5511-18-2	25.00	0.9863	2
22260	C11H15NO2	L-phenylalanine, ethyl ester	3081-24-1	15.00	1.0650	1	22513	C11H17NO	5-tert-butyl-o-anisidine	3535-88-4	25.00	0.9880	1
22261	C11H15NO2	salsoline	89-31-6	21.67	1.0463	2	22514	C11H17NO	(+)-N-methylephedrine	42151-56-4	25.00	0.9863	2
22262	C11H15NO2	3-amino-5-phenylpentanoic acid	91247-38-0	21.67	1.0463	2	22515	C11H17NO	(1S,2S)-(+)-N-methylpseudoephedrine	51018-28-1	25.00	0.9863	2
22263	C11H15NO2	3-benzylaminobutyric acid	14676-01-8	21.67	1.0463	2	22517	C11H17NO	methylephedrine	17605-71-9	25.00	0.9863	2
22264	C11H15NO2	(3R,4R)-(-)-1-benzyl-3,4-pyrrolidindiol	163439-82-5	21.67	1.0463	2	22520	C11H17NO2	(-)-chiracamphox	165038-32-4	25.00	1.0695	2
22265	C11H15NO2	(3S,4S)-(+)-1-benzyl-3,4-pyrrolidindiol	90365-74-5	21.67	1.0463	2	22522	C11H17NO2	2,2'-(4-methylphenylimino)diethanol	3077-12-1	25.00	1.0695	2
22266	C11H15NO2	4-(diethylamino)benzoic acid	5429-28-7	21.67	1.0463	2	22527	C11H17NO3	isoproterenol	7683-59-2	25.00	1.0806	2
22267	C11H15NO2	4-(diethylamino)salicylaldehyde	17754-90-4	21.67	1.0463	2	22528	C11H17NO3	3,4,5-trimethoxybenzeneethanamine	54-04-6	25.00	1.0806	2
22269	C11H15NO2	ethyl 4-(dimethylamino)benzoate	10287-53-3	25.00	1.0600	1	22529	C11H17NO3	5,5-dimethyldihydroresorcinol dimethylcarbam*	122-15-6	25.00	1.0806	2
22270	C11H15NO2	methylcarbamic acid-o-cumenyl ester	2631-40-5	21.67	1.0463	2	22530	C11H17NO3	N,N-bis(2-hydroxyethyl)-3-methoxyaniline	17126-75-9	25.00	1.0806	2
22278	C11H15NO2S	methiocarb	2032-65-7	25.00	1.1470	2	22533	C11H17NO4	(1S,4R)-N-boc-1-aminocyclopent-2-ene-4-carbo*	108999-93-5	25.00	1.1300	2
22279	C11H15NO2S	(2-ethylthiomethylphenyl)-N-methylcarbamate	29973-13-5	25.00	1.1470	1	22534	C11H17NO4	(1R,4S)-N-boc-1-aminocyclopent-2-ene-4-carbo*	151907-79-8	25.00	1.1300	2
22280	C11H15NO3	anhalamine	643-60-7	25.00	1.1220	2	22535	C11H17NO4S	N,N-bis-(2-hydroxyethyl)-p-toluenesulfonamid*	7146-67-0	25.00	1.1968	2
22281	C11H15NO3	N-(4-ethoxyphenyl)-2-hydroxypropanamide	539-08-2	25.00	1.1220	2	22539	C11H17N3O3	5-ethyl-5-(1-piperidinyl)-2,4,6(1H,3H,5H)-py*	509-87-5	25.00	1.1729	2
22282	C11H15NO3	propoxur	114-26-1	20.00	1.1200	1	22540	C11H17N3O3	emorfazone	38957-41-4	25.00	1.1729	2
22283	C11H15NO3	(R)-2-aminobut-3-en-1-ol, benzoate salt	---	25.00	1.1220	2	22541	C11H17N3O3S	4-amino-N-[(butylamino)carbonyl]benzenesulfo*	339-43-5	25.00	1.2358	2
22284	C11H15NO3	(S)-2-aminobut-3-en-1-ol, benzoate salt	261360-75-2	25.00	1.1220	2	22542	C11H17N3O4	Na-boc-L-histidine	17791-52-5	25.00	1.2178	2
22287	C11H15NO3	2-hydroxy-2-phenylbutyl carbamate	50-19-1	25.00	1.1220	2	22543	C11H17N3O4	Na-boc-D-histidine	50654-94-9	25.00	1.2178	2
22288	C11H15NO4	2,2-dimethyl-5-(2-hexahydropyridylidene)-1,3*	---	25.00	1.1725	2	22557	C11H18ClNO4	isoprenaline hydrochloride	51-30-9	25.00	1.1836	2
22292	C11H15NO4S	diethyl 5-amino-3-methyl-2,4-thiophenedicarb*	4815-30-9	25.00	1.2390	2	22559	C11H18IN2O2	4-(3-iodo-2-oxopropylidene)-2,2,3,5,5-pentam*	70723-34-1	25.00	1.4841	2
22293	C11H15NO5	methyl 3,4,5-trimethoxyanthranilate	5035-82-5	25.00	1.2201	2	22564	C11H18N2	1-isopentyl-1-phenylhydrazine	636-10-2	15.00	0.9588	1
22294	C11H15NO5	guaiacol glyceryl ether carbamate	532-03-6	25.00	1.2201	2	22566	C11H18N2O	N-(1-adamantyl)urea	13072-69-0	25.00	1.0065	2
22295	C11H15NS	1-adamantyl isothiocyanate	4411-26-1	25.00	1.0438	2	22569	C11H18N2O3	amobarbital	57-43-2	25.00	1.1078	2
22300	C11H15N3O4	pyridinol carbamate	1882-26-4	25.00	1.2625	2	22576	C11H18N2O8	1,2-diaminopropane-N,N,N',N'-tetraacetic acid	4408-81-5	25.00	1.3182	2
22301	C11H15N3O7	2,3,4-tri-O-acetyl-b-D-xylopyranosyl azide	53784-33-1	25.00	1.3854	2	22577	C11H18N2O9	1,3-diamino-2-hydroxypropane-N,N,N',N'-tetra*	3148-72-9	25.00	1.3544	2
22302	C11H15N5S	3-(isopropylideneaminoamidino)-1-phenylthiou*	63467-30-1	25.00	1.2331	2	22579	C11H18N4O2	pirimicarb	23103-98-2	25.00	1.1504	2
22304	C11H16	pentylbenzene	538-68-1	-75.00	1.0807	2	22583	C11H18O	1,4,7,7-tetramethylbicyclo[2.2.1]heptan-2-one	10309-50-9	23.60	0.9331	2
22327	C11H16	1-ethyl-2-isopropylbenzene	18970-44-0	-50.15	1.0975	2	22584	C11H18O	1-adamantanemethanol	770-71-8	23.60	0.9331	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
22587	C11H18O	2-methyl-2-adamantanol	702-98-7	23.60	0.9331	2	23125	C12F26	n-perfluorododecane	307-59-5	25.00	1.7618	2
22594	C11H18O2	3-bornanecarboxylic acid	91965-23-0	23.56	0.9286	2	23127	C12Fe3O12	iron dodecacarbonyl	12088-65-2	25.00	2.0000	1
22604	C11H18O2	9-undecynoic acid	22202-65-9	23.56	0.9286	2	23135	C12HF23O2	tricosafluorododecanoic acid	307-55-1	25.00	1.7633	2
22605	C11H18O2	10-undecynoic acid	2777-65-3	23.56	0.9286	2	23140	C12H2Cl6O2	HCDD	39227-28-6	25.00	1.7098	2
22623	C11H18O4	(S)-2-cyclohexylsuccinic acid-1-methyl ester	213270-44-1	25.00	1.0640	2	23151	C12H3Cl5O2	1,2,3,7,8-pentachlorodibenzo-p-dioxin	40321-76-4	25.00	1.6508	2
22624	C11H18O4	(R)-2-cyclohexyl succinic acid-1-methyl ester	220498-07-7	25.00	1.0640	2	23153	C12H4Cl4O2	2,3,7,8-tetrachloro-dibenzo-p-dioxin	1746-01-6	25.00	1.5843	2
22631	C11H18O5	1,2:3,5-di-o-isopropylidene-a-d-xylofuranose	20881-04-3	21.67	1.0691	2	23167	C12H4Cl6S2	2,4,5-trichlorophenyl disulfide	3808-87-5	25.00	1.6505	2
22647	C11H19NO4	(1R,3R)-N-boc-3-aminocyclopentane carboxylic*	---	25.00	1.0600	2	23169	C12H4F8N2	4,4'-diaminooctafluorobiphenyl	1038-66-0	25.00	1.5568	2
22648	C11H19NO4	(1S,3R)-N-boc-1-aminocyclopentane-3-carboxyl*	161660-94-2	25.00	1.0600	2	23170	C12H4N4	7,7,8,8-tetracyanoquinodimethane	1518-16-7	25.00	1.4563	2
22649	C11H19NO4	(1R,3S)-N-boc-1-aminocyclopentane-3-carboxyl*	261165-05-3	25.00	1.0600	2	23190	C12H5NO5	3-nitro-1,8-naphthalic anhydride	3027-38-1	25.00	1.5193	2
22652	C11H19NO4	cis-2-(tert-butoxycarbonylamino)-1-cyclopent*	36315-70-	25.00	1.0600	2	23192	C12H5N7O12	2,4,6-trinitro-N-(2,4,6-trinitrophenyl)anili*	131-73-7	25.00	1.9533	2
22657	C11H19NO8	N-acetylmuramic acid	10597-89-4	25.00	1.2609	2	23194	C12H6Br4O2	dephosphate bromofenofos	21987-62-2	25.00	2.2516	2
22658	C11H19NO9	N-acetylneuraminic acid	131-48-6	25.00	1.2983	2	23196	C12H6Cl2O2	1,8-naphthalenedicarbonyl dichloride	6423-29-6	25.00	1.4230	2
22660	C11H19N3O	ethirimol	23947-60-6	25.00	1.2100	1	23197	C12H6Cl2O2	2,7-dichlorodibenzodioxin	33857-26-0	25.00	1.4230	2
22663	C11H19N3O5	N-acetyl-L-alanyl-L-alanyl-L-alanine	19245-85-3	25.00	1.2187	2	23207	C12H6Cl4	3,3',4,4'-tetrachlorobiphenyl	32598-13-3	25.00	1.4526	2
22674	C11H20	3-undecyne	60212-30-8	22.86	0.8417	2	23215	C12H6Cl4O2S	bithionol	97-18-7	25.00	1.7300	1
22680	C11H20BrN2O2	4-(2-bromoacetamido)-tempo, free radical	24567-97-3	25.00	1.2844	2	23216	C12H6Cl4O2S	tetradifon	116-29-0	25.00	1.5630	2
22681	C11H20ClN5	6-chloro-N,N,N',N'-tetraethyl-1,3,5-triazine*	580-48-3	20.00	1.0956	1	23222	C12H6N2	2,3-naphthalenedicarbonitrile	22856-30-0	25.00	1.2662	2
22683	C11H20IN2O2	4-(2-iodoacetamido)-tempo, free radical	25713-24-0	25.00	1.4360	2	23224	C12H6N2O2	4,7-phenanthroline-5,6-dione	84-12-8	25.00	1.3832	2
22684	C11H20N2O	1,1'-carbonyldipiperidine	5395-04-0	25.00	0.9716	2	23229	C12H6N6S3	1,3,5-tris(1,2,3-thiadiazol-4-yl)benzene	---	25.00	1.6164	2
22686	C11H20N2O3	desthiobiotin, methyl ester	6020-51-5	25.00	1.0704	2	23230	C12H6O2	1,2-acenaphthylenedione	82-86-0	20.00	1.4800	1
22689	C11H20N2O4	(4R,5R)-4,5-di(dimethylaminocarbonyl)-2,2-di*	63126-29-4	25.00	1.1161	2	23231	C12H6O3	1,8-naphthalic anhydride	81-84-5	25.00	1.3293	2
22692	C11H20O	4-(1,1-dimethylpropyl)cyclohexanone	16587-71-6	25.00	0.9200	1	23232	C12H6O12	benzenehexacarboxylic acid	517-60-2	25.00	1.7141	2
22701	C11H20O2	2-ethylhexyl acrylate	103-11-7	-90.00	1.1352	2	23236	C12H7BrO	2-bromodibenzofuran	86-76-0	25.00	1.5233	2
22737	C11H20O4	octylpropanedioic acid	760-55-4	17.00	1.1730	1	23237	C12H7BrO	3-bromodibenzofuran	26608-06-0	25.00	1.5233	2
22739	C11H20O4	mono-methyl sebacate	818-88-2	21.09	1.0133	2	23240	C12H7ClO2	1-chlorodibenzo-p-dioxin	39227-53-7	25.00	1.3237	2
22741	C11H20O4	a, a, a', a'-tetramethylheptanedioic acid	2941-45-9	21.09	1.0133	2	23241	C12H7ClO2	2-chlorodibenzo-p-dioxin	39227-54-8	25.00	1.3237	2
22742	C11H20O4	undecanedioic acid	1852-04-6	21.09	1.0133	2	23244	C12H7NO2	1,8-naphthalimide	81-83-4	25.00	1.2954	2
22745	C11H20O10	6-O-alpha-L-arabinopyranosyl-D-glucose	14116-69-9	25.00	1.2794	2	23245	C12H7Cl2NO3	nitrofen	1836-75-5	25.00	1.4780	2
22746	C11H20O10	6-O-beta-D-xylopyranosyl-D-glucose	26531-85-1	25.00	1.2794	2	23255	C12H7Cl3O2	2,4,4'-trichloro-2'-hydroxydiphenyl ether	3380-34-5	25.00	1.4510	2
22752	C11H21BrO2	11-bromoundecanoic acid	2834-05-1	24.50	1.1478	2	23256	C12H7NO3	3-nitrodibenzofuran	5410-97-9	25.00	1.3507	2
22755	C11H21Br3	1,1,1-tribromoundecane	62127-68-8	25.00	1.5597	2	23257	C12H7NO3	N-hydroxynaphthalimide	7797-81-1	25.00	1.3507	2
22762	C11H21Cl3	1,1,1-trichloroundecane	3922-25-6	25.00	1.0641	2	23260	C12H7N3O2	5-nitro-1,10-phenanthroline	4199-88-6	25.00	1.4012	2
22766	C11H21FO2	11-fluoroundecanoic acid	463-17-2	25.00	0.9566	2	23261	C12H8	acenaphthylene	208-96-8	-188.15	1.2690	1
22767	C11H21F3	1,1,1-trifluoroundecane	62126-97-0	25.00	0.9468	2	23263	C12H8	biphenylene	259-79-0	18.00	0.9750	2
22770	C11H21I3	1,1,1-triiodoundecane	---	25.00	1.9203	2	23265	C12H8BrNO2	4-bromo-3-nitrobiphenyl	27701-66-2	25.00	1.5750	2
22781	C11H21NO4	boc-L-isoleucine	13139-16-7	22.50	1.0106	2	23266	C12H8Br2	4,4'-dibromo-1,1'-biphenyl	92-86-4	25.00	1.7243	2
22784	C11H21N2O2	4-acetylamino-2,2,6,6-tetramethylpiperidin-1*	14691-89-5	25.00	1.0054	2	23267	C12H8Br2O	bis(4-bromophenyl) ether	2050-47-7	25.00	1.8000	1
22785	C11H21N3O	(1,4'-bipiperidine)-4'-carboxamide	39633-82-4	25.00	1.0024	2	23268	C12H8Br2S	bis(4-bromophenyl) sulfide	3393-78-0	25.00	1.8400	1
22786	C11H21N5OS	2-isopropylamino-4-(3-methoxypropylamino)-6-*	841-06-5	25.00	1.1556	2	23269	C12H8Br2O2S	bis(4-bromophenyl) sulfone	2050-48-8	25.00	1.8800	1
22787	C11H21N5S	dipropetryn	4147-51-7	25.00	1.1141	2	23270	C12H8ClNO	4-(4-chlorobenzoyl)pyridine	14548-48-2	25.00	1.2932	2
22788	C11H21N5S	avirosan	22936-75-0	25.00	1.1141	2	23271	C12H8ClNS	2-chlorophenothiazine	92-39-7	25.00	1.3112	2
22795	C11H22	1-undecene	821-95-4	-49.16	0.9335	2	23274	C12H8Cl2	3,3'-dichloro-1,1'-biphenyl	2050-67-1	25.00	1.2702	2
22805	C11H22Br2	1,1-dibromoundecane	62168-28-9	25.00	1.3274	2	23275	C12H8Cl2	4,4'-dichloro-1,1'-biphenyl	2050-68-2	25.00	1.4420	1
22806	C11H22Br2	1,11-dibromoundecane	16696-65-4	15.00	1.3320	1	23281	C12H8Cl2N2O4S2	3,3'-azobenzenedisulfonyl chloride	104115-88-0	25.00	1.5953	2
22810	C11H22I2	1,1-diiodoundecane	66142-53-8	25.00	1.6065	2	23282	C12H8Cl2O	bis(4-chlorophenyl) ether	2444-89-5	20.00	1.1231	1
22814	C11H22N2O	4-acetamido-2,2,6,6-tetramethylpiperidine	40908-37-0	25.00	0.9396	2	23284	C12H8Cl2OS	4-chlorophenyl sulfoxide	3085-42-5	25.00	1.3778	2
22815	C11H22N2O	3-cyclooctyl-1,1-dimethylurea	2163-69-1	25.00	0.9396	2	23285	C12H8Cl2O2S	bis(4-chlorophenyl) sulfone	80-07-9	25.00	1.4186	2
22819	C11H22N2O4	boc-lys-oh	13734-28-6	25.00	1.0808	2	23286	C12H8Cl2O2S	bis(2-hydroxy-5-chlorophenyl) sulfide	97-24-5	25.00	1.4186	2
22820	C11H22N2O4	lys(boc)-oh	2418-95-3	25.00	1.0808	2	23287	C12H8Cl2O3S	4-chlorophenyl 4-chlorobenzenesulfonate	80-33-1	25.00	1.4572	2
22822	C11H22O	undecanal	112-44-7	0.00	0.9843	2	23288	C12H8Cl2O3S	2,4-dichlorophenyl benzenesulfonate	97-16-5	25.00	1.4572	2
22831	C11H22O	4-tert-amylcyclohexanol	5349-51-9	25.00	0.9030	1	23290	C12H8Cl4N2	tetrachlorobenzidine	15721-02-5	25.00	1.4737	2
22835	C11H22O2	undecanoic acid	112-37-8	28.50	0.9887	2	23291	C12H8Cl6	aldrin	309-00-2	25.00	1.4931	2
22836	C11H22O2	decyl formate	5451-52-5	-23.15	1.0600	2	23292	C12H8Cl6	isodrin	465-73-6	25.00	1.4931	2
22837	C11H22O2	nonyl acetate	143-13-5	-26.00	1.0582	2	23293	C12H8Cl6O	dieldrin	60-57-1	25.00	1.7500	1
22848	C11H22O2	methyl decanoate	110-42-9	-18.00	1.0563	2	23294	C12H8Cl6O	endrin	72-20-8	25.00	1.5235	2
22851	C11H22O2	6-methyldecanoic acid	53696-14-3	22.00	0.8669	2	23297	C12H8F2	2,2'-difluoro-1,1'-biphenyl	388-82-9	20.00	1.3930	1
22860	C11H22O3	11-hydroxyundecanoic acid	3669-80-5	25.00	0.9462	2	23299	C12H8F2	4,4'-difluoro-1,1'-biphenyl	398-23-2	22.50	1.2925	2
22871	C11H23BrO	11-bromoundecanol	1611-56-9	25.00	1.1071	2	23300	C12H8F2O2S	4-fluorophenyl sulfone	383-29-9	25.00	1.3538	2
22885	C11H23NO2	1-nitroundecane	2216-25-3	25.00	0.9280	2	23305	C12H8N2	1,10-phenanthroline	66-71-7	25.00	1.2034	2
22886	C11H23NO2	11-aminoundecanoic acid	2432-99-7	25.00	0.9280	2	23306	C12H8N2	1,7-phenanthroline	230-46-6	25.00	1.2034	2
22890	C11H24	undecane	1120-21-4	-25.58	0.9035	2	23307	C12H8N2	4,7-phenanthroline	230-07-9	25.00	1.2034	2
23055	C11H24O	1-undecanol	112-42-5	15.30	0.9787	2	23308	C12H8N2	phenazine	92-82-0	25.00	1.2034	2
23065	C11H24O2	1,2-undecanediol	13006-29-6	25.00	0.8670	2	23309	C12H8N2	benzo[c]cinnoline	230-17-1	25.00	1.2034	2
23066	C11H24O2	1,3-undecanediol	6071-32-5	25.00	0.8670	2	23310	C12H8N2O	1-phenazinol	528-71-2	25.00	1.2629	2
23067	C11H24O2	1,4-undecanediol	---	25.00	0.8670	2	23311	C12H8N2O	phenazine, 5-oxide	304-81-4	25.00	1.2629	2
23068	C11H24O2	1,11-undecanediol	765-04-8	25.00	0.8670	2	23312	C12H8N2O2	4-amino-1,8-naphthalimide	1742-95-6	25.00	1.3182	2
23069	C11H24O2	2,2-dibutyl-1,3-propanediol	24765-57-9	25.00	0.8670	2	23316	C12H8N2O3	isonicotinic anhydride, remainder picolinic *	7082-71-5	25.00	1.3698	2
23081.1	C11H24O4	tripropylene glycol monoethyl ether	75899-69-3	-16.65	1.1423	2	23317	C12H8N2O4	2,2'-dinitro-1,1'-biphenyl	2436-96-6	25.00	1.4500	1
23084	C11H24S	1-undecanethiol	5332-52-5	-3.00	1.0041	2	23318	C12H8N2O4	2,4'-dinitro-1,1'-biphenyl	606-81-5	25.00	1.4740	1
23090	C11H25N	undecylamine	7307-55-3	15.11	0.9372	2	23320	C12H8N2O4	4,4'-dinitrobiphenyl	1528-74-1	25.00	1.4620	2
23104	C11H26N4	1,4,8,12-tetraazacyclopentadecane	15439-16-4	25.00	0.9241	2	23322	C12H8N2O4S	bis(p-nitrophenyl)sulfide	1223-31-0	25.00	1.4713	2
23111	C11H27NSi	N,N-dimethyltriisopropylsilylamine	181231-66-3	25.00	0.8330	1	23323	C12H8N2O4S2	bis(3-nitrophenyl) disulfide	537-91-7	25.00	1.5164	2
23112	C11H28Br2N2	pentamethonium bromide	541-20-8	25.00	1.2792	2	23324	C12H8N2O4S2	3-nitrophenyl disulfide	1155-00-6	25.00	1.5164	2
23117	C12Br10O	decabromodiphenyl ether	1163-19-5	25.00	3.1012	2	23325	C12H8N2O4S2	bis(p-nitrophenyl)disulfide	100-32-3	25.00	1.5164	2
23118	C12Cl8O2	octachlorodibenzo-p-dioxin	3268-87-9	25.00	1.8103	2	23327	C12H8N2O5	2,4-dinitro-1-phenoxybenzene	2486-07-9	25.00	1.4633	2
23121	C12Co4O12	cobalt dodecacarbonyl	17786-31-1	25.00	2.0900	1	23332	C12H8N4S	2,5-bis(4-pyridyl)-1,3,4-thiadiazole	15311-09-8	25.00	1.3825	2
23122	C12F4N4	2,3,5,6-tetrafluoro-7,7,8,8-tetracyanoquinod*	29261-33-4	25.00	1.7075	2	23333	C12H8N6O2S	3,3'-diazido-diphenylsulfone	75742-13-1	25.00	1.5517	2
23123	C12F10	2,2',3,3',4,4',5,5',6,6'-decafluoro-1,1'-bip*	434-90-2	20.00	1.7850	1	23335	C12H8O	dibenzofuran	132-64-9	27.00	1.2700	1
23124	C12F25I	pentacosafluoro-1-iodododecane	307-60-8	25.00	1.9588	2	23336	C12H8OS	phenoxathiin	262-20-4	25.00	1.2329	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
23337	C12H8O2	phenyl-p-benzoquinone	363-03-1	25.00	1.2080	2	23466	C12H10Cl2F3NO	flurochloridone	61213-25-0	25.00	1.3924	2
23338	C12H8O2	dibenzo-p-dioxin	262-12-4	25.00	1.2080	2	23468	C12H10Cl2N2	2,2'-dichloro-p-benzidine	84-68-4	25.00	1.3106	2
23339	C12H8O2S	dibenzothiophene sulfone	1016-05-3	25.00	1.2869	2	23469	C12H10Cl2N2	3,3'-dichloro-p-benzidine	91-94-1	25.00	1.3106	2
23340	C12H8O3	4,5-dihydronaphtho[1,2-c]furan-1,3-dione	37845-14-0	25.00	1.2663	2	23472	C12H10Cl2Si	dichlorodiphenylsilane	80-10-4	-22.00	1.4581	2
23342	C12H8O4	methoxsalen	298-81-7	25.00	1.3206	2	23475	C12H10FN	4-amino-4'-fluorodiphenyl	324-93-6	25.00	1.1388	2
23343	C12H8O4	1,8-naphthalenedicarboxylic acid	518-05-8	25.00	1.3206	2	23476	C12H10FNO4S2	N-fluorobenzenesulfonimide	133745-75-2	25.00	1.4466	2
23344	C12H8O4	2,6-naphthalenedicarboxylic acid	1141-38-4	367.00	1.1847	2	23478	C12H10F3NO2	coumarin 500	52840-38-7	25.00	1.3164	2
23345	C12H8O4	2,3-naphthalenedicarboxylic acid	2169-87-1	25.00	1.3206	2	23486	C12H10INO3	diphenyliodonium nitrate	722-56-5	25.00	1.7164	2
23346	C12H8O4	5-methoxy psoralen	484-20-8	25.00	1.3206	2	23488	C12H10N2	azobenzene	17082-12-1	20.00	1.2030	1
23347	C12H8O6	bicyclo[2.2.2]oct-7-ene-2,3,5,6-tetracarboxy*	1719-83-1	25.00	1.4187	2	23489	C12H10N2	cis-azobenzene	1080-16-6	25.00	1.1478	2
23348	C12H8S	dibenzothiophene	132-65-0	98.67	1.3500	1	23490	C12H10N2	1-methyl-9H-pyrido[3,4-b]indole	486-84-0	25.00	1.1478	2
23349	C12H8S2	thianthrene	92-85-3	20.00	1.4420	1	23491	C12H10N2	1,2-bis(2-pyridyl)ethylene	1437-15-6	25.00	1.1478	2
23352	C12H9AsClN	diphenylamine chloroarsine	578-94-9	25.00	1.6500	1	23492	C12H10N2O	cis-azoxybenzene	20972-43-4	20.00	1.1660	1
23358	C12H9Br	4-bromobiphenyl	92-66-0	25.00	0.9327	1	23493	C12H10N2O	trans-azoxybenzene	495-48-7	26.00	1.1590	1
23359	C12H9Br	5-bromo-1,2-dihydroacenaphthylene	2051-98-1	52.00	1.4392	1	23494	C12H10N2O	N-nitrosodiphenylamine	86-30-6	23.00	1.1625	2
23360	C12H9Br	5-bromo-[1,1'-biphenyl]-2-ol	16434-97-2	34.33	1.1965	2	23495	C12H10N2O	4-nitroso-N-phenylaniline	156-10-5	23.00	1.1625	2
23361	C12H9BrN2O	4-bromoazoxybenzene	16109-68-5	100.00	1.4138	1	23496	C12H10N2O	4-(phenylazo)phenol	1689-82-3	23.00	1.1625	2
23363	C12H9BrO	a-bromo-2'-acetonaphthone	613-54-7	25.00	1.4549	2	23497	C12H10N2O	N-trans-cinnamoylimidazole	1138-15-4	23.00	1.1625	2
23364	C12H9BrO	4-(4-bromophenyl)phenol	29558-77-8	25.00	1.4549	2	23499	C12H10N2O2	2,2'-dihydroxyazobenzene	2050-14-8	25.00	1.2602	2
23365	C12H9Cl	2-chlorobiphenyl	2051-60-7	32.00	1.1499	1	23500	C12H10N2O2	4-nitro-N-phenylaniline	836-30-6	135.40	1.1997	2
23367	C12H9Cl	4-chlorobiphenyl	2051-62-9	42.33	1.1677	2	23501	C12H10N2O2	4-(4-nitrobenzyl)pyridine	1083-48-3	25.00	1.2602	2
23368	C12H9Cl	5-chloro-1,2-dihydroacenaphthylene	5209-33-6	70.00	1.1954	1	23502	C12H10N2O2	2-nitro-N-phenylaniline	119-75-5	0.00	1.4759	2
23370	C12H9ClF3N3O	norflurazon	27314-13-2	25.00	1.4395	2	23503	C12H10N2O2	a-pyridoin	1141-06-6	25.00	1.2602	2
23371	C12H9ClN2O2	5-chloro-2-nitrodiphenylamine	25781-92-4	25.00	1.3612	2	23504	C12H10N2O2	4-amino-4'-nitrobiphenyl	1211-40-1	25.00	1.2602	2
23375	C12H9ClO	3-chloro-4-hydroxybiphenyl	92-04-6	20.00	1.2213	2	23507	C12H10N2O2S	anilino (p-nitrophenyl) sulfide	101-59-7	25.00	1.3273	2
23378	C12H9ClO2S	1-chloro-4-(phenylsulfonyl)benzene	80-00-2	25.00	1.3319	2	23509	C12H10N2O4	nifurpirinol	13411-16-0	25.00	1.3587	2
23380	C12H9ClO3S	4-chlorophenyl benzenesulfonate	80-38-6	25.00	1.3755	2	23510	C12H10N2O5	cinoxacin	28657-80-9	25.00	1.4035	2
23381	C12H9ClO4	7-[(chlorocarbonyl)methoxy]-4-methylcoumarin	91454-65-8	25.00	1.3627	2	23512	C12H10N4	2,3-phenazinediamine	655-86-7	25.00	1.2570	2
23383	C12H9Cl2NO3	vinclozolin	50471-44-8	25.00	1.5100	1	23519	C12H10O	diphenyl ether	101-84-8	26.88	1.1675	1
23385	C12H9F	2-fluoro-1,1'-biphenyl	321-60-8	25.00	1.2452	1	23520	C12H10O	1-acetonaphthone	941-98-0	21.00	1.1171	1
23386	C12H9F	4-fluoro-1,1'-biphenyl	324-74-3	25.00	1.2470	1	23521	C12H10O	2-acetonaphthone	93-08-3	28.50	1.1304	2
23387	C12H9FO	4'-fluoro-1'-acetonaphthone	316-68-7	25.00	1.2030	1	23522	C12H10O	o-phenylphenol	90-43-7	25.00	1.2130	1
23391	C12H9I	3-iodo-1,1'-biphenyl	20442-79-9	25.00	1.5967	1	23523	C12H10O	m-phenylphenol	580-51-8	28.50	1.1304	2
23392	C12H9I	4-iodo-1,1'-biphenyl	1591-31-7	23.33	1.5493	2	23524	C12H10O	p-phenylphenol	92-69-3	28.50	1.1304	2
23393	C12H9I	5-iodo-1,2-dihydroacenaphthylene	6861-64-9	20.00	1.5000	1	23525	C12H10O	4-methyl-1-naphthalenecarboxaldehyde	33738-48-6	38.00	1.1252	1
23394	C12H9N	dibenzopyrrole	86-74-8	18.00	1.1000	1	23527	C12H10OS	diphenyl sulfoxide	945-51-7	25.00	1.1798	2
23395	C12H9N	1-naphthaleneacetonitrile	132-75-2	25.00	1.1147	2	23529	C12H10O2	[1,1'-biphenyl]-2,2'-diol	1806-29-7	20.00	1.3420	1
23396	C12H9N	2-naphthaleneacetonitrile	7498-57-9	25.00	1.0920	1	23530	C12H10O2	[1,1'-biphenyl]-2,4'-diol	611-62-1	26.00	1.2035	2
23397	C12H9NO	10H-phenoxazine	135-67-1	25.00	1.1773	2	23531	C12H10O2	[1,1'-biphenyl]-3,3'-diol	612-76-0	26.00	1.2035	2
23398	C12H9NO	phenyl-2-pyridinylmethanone	91-02-1	20.00	1.1556	1	23532	C12H10O2	1-(1-hydroxy-2-naphthyl)ethanone	711-79-5	26.00	1.2035	2
23399	C12H9NO	phenyl-4-pyridinylmethanone	14548-46-0	25.00	1.1773	2	23533	C12H10O2	4-methoxy-1-naphthalenecarboxaldehyde	15971-29-6	39.00	1.1879	1
23400	C12H9NO	3-benzoylpyridine	5424-19-1	25.00	1.1773	2	23534	C12H10O2	methyl 1-naphthalenecarboxylate	2459-24-7	20.00	1.1290	1
23401	C12H9NO	2-hydroxycarbazole	86-79-3	25.00	1.1773	2	23535	C12H10O2	methyl 2-naphthalenecarboxylate	2459-25-8	26.00	1.2035	2
23402	C12H9NO	2-methoxy-1-naphthonitrile	16000-39-8	25.00	1.1773	2	23536	C12H10O2	1-naphthaleneacetic acid	86-87-3	26.00	1.2035	2
23403	C12H9NO	4-methoxy-1-naphthonitrile	5961-55-7	25.00	1.1773	2	23537	C12H10O2	2-naphthaleneacetic acid	581-96-4	26.00	1.2035	2
23404	C12H9NO	6-methoxy-2-naphthonitrile	67886-70-8	25.00	1.1773	2	23538	C12H10O2	1-acetyl-2-naphthol	574-19-6	26.00	1.2035	2
23405	C12H9NO	2-dibenzofuranamine	3693-22-9	25.00	1.1773	2	23539	C12H10O2	4,4'-biphenol	92-88-6	26.00	1.2035	2
23406	C12H9NO	3-dibenzofuranamine	4106-66-5	25.00	1.1773	2	23540	C12H10O2	2-methoxy-1-naphthaldehyde	5392-12-1	26.00	1.2035	2
23409	C12H9NO2	4-methoxyfuro[2,3-b]quinoline	484-29-7	25.00	1.2355	2	23541	C12H10O2	2-naphthyl acetate	1523-11-1	26.00	1.2035	2
23410	C12H9NO2	o-nitrobiphenyl	86-00-0	25.00	1.4400	1	23542	C12H10O2	1-naphthyl acetate	830-81-9	26.00	1.2035	2
23411	C12H9NO2	3-nitrobiphenyl	2113-58-8	25.00	1.2355	2	23543	C12H10O2	3-phenoxyphenol	713-68-8	25.00	1.1550	1
23412	C12H9NO2	p-nitrobiphenyl	92-93-3	25.00	1.2355	2	23544	C12H10O2	4-phenoxyphenol	831-82-3	26.00	1.2035	2
23413	C12H9NO2	5-nitroacenaphthene	602-87-9	25.00	1.2355	2	23545	C12H10O2	phenylhydroquinone	1079-21-6	26.00	1.2035	2
23414	C12H9NO2	phenyl nicotinate	3468-53-9	25.00	1.2355	2	23546	C12H10O2	4-phenylpyrocatechol	92-05-7	26.00	1.2035	2
23415	C12H9NO2	2-quinaldylmalondialdehyde	40070-84-6	25.00	1.2355	2	23547	C12H10O2S	diphenyl sulfone	127-63-9	20.00	1.2520	1
23418	C12H9NO2S	1-nitro-2-(phenylthio)benzene	4171-83-9	25.00	1.3081	2	23548	C12H10O2S	2-(4-methoxybenzoyl)thiophene	4160-63-8	25.00	1.2328	2
23419	C12H9NO2S	1-nitro-4-(phenylthio)benzene	952-97-6	25.00	1.3081	2	23550	C12H10O2S	4,4'-thiodiphenol	2664-63-3	25.00	1.2328	2
23421	C12H9NO3	1-nitro-4-phenoxybenzene	620-88-2	25.00	1.2898	2	23554	C12H10O3	methyl 3-hydroxy-2-naphthalenecarboxylate	883-99-8	23.50	1.1697	2
23422	C12H9NO3	2-phenoxynicotinic acid	35620-71-4	25.00	1.2898	2	23555	C12H10O3	(2-naphthyloxy)acetic acid	120-23-0	23.50	1.1697	2
23423	C12H9NO6	miloxacin	37065-29-5	25.00	1.4328	2	23557	C12H10O3	1-naphthoxyacetic acid	2976-75-2	23.50	1.1697	2
23425	C12H9NS	10H-phenothiazine	92-84-2	25.00	1.2036	2	23558	C12H10O3	4,4'-oxydiphenol	1965-09-9	23.50	1.1697	2
23426	C12H9NS	2-methyl-b-naphthothiazole	2682-45-3	25.00	1.2036	2	23562	C12H10O4	trans,trans-5-(1,3-benzodioxol-5-yl)-2,4-pen*	136-72-1	25.00	1.2633	2
23428	C12H9N3	2-(2-pyridyl)benzimidazole	1137-68-4	25.00	1.2317	2	23563	C12H10O4	5-(1,3-benzodioxol-5-yl)-2,4-pentadienoic ac*	5285-18-7	25.00	1.2633	2
23435	C12H9N3O4	4-[(4-nitrophenyl)azo]-1,3-benzenediol	74-39-5	25.00	1.4325	2	23564	C12H10O4	[1,1'-biphenyl]-3,3',5,5'-tetrol	531-02-2	25.00	1.2633	2
23436	C12H9N3O4	2-(2,4-dinitrobenzyl)pyridine	1151-97-9	25.00	1.4325	2	23565	C12H10O4	7-acetoxy-4-methylcoumarin	2747-05-9	25.00	1.2633	2
23437	C12H9N3O4	2,4-dinitrodiphenylamine	961-68-2	25.00	1.4325	2	23566	C12H10O4	ethyl 3-coumarincarboxylate	1846-76-0	25.00	1.2633	2
23437.1	C12H9N3O4	4,4'-dinitrodiphenylamine	1821-27-8	217.90	1.3379	2	23567	C12H10O4	1-phenyenediacrylic acid	16323-43-6	25.00	1.2633	2
23438	C12H9N3O5	N-(2,4-dinitrophenyl)-N-(4-hydroxyphenyl)ami*	119-15-3	25.00	1.4751	2	23568	C12H10O4	quinhydrone	106-34-3	25.00	1.4000	1
23439	C12H9N3O5	dicoferin	965-52-6	25.00	1.4751	2	23569	C12H10O4S	bis(4-hydroxyphenyl) sulfone	80-09-1	15.00	1.3663	1
23441	C12H9N5	5-amino-4-cyano-1-phenyl-3-pyrazoleacetonitr*	7152-40-1	25.00	1.3368	2	23570	C12H10O4S	resorcinol sulfide	97-29-0	25.00	1.3292	2
23444	C12H10	acenaphthene	83-32-9	93.41	1.1890	1	23571	C12H10O4S3	bis(phenylsulfonyl)sulfide	4388-22-1	25.00	1.4329	2
23445	C12H10	phenylbenzene (biphenyl)	92-52-4	24.50	1.1750	1	23572	C12H10O6S2	[1,1'-biphenyl]-4,4'-disulfonic acid	5314-37-4	25.00	1.4615	2
23447	C12H10	2-vinylnaphthalene	827-54-3	20.00	1.1092	2	23573	C12H10O6S2	dibenzenesulfonyl peroxide	29342-61-8	25.00	1.4615	2
23448	C12H10AsCl	diphenylarsinous chloride	712-48-1	16.00	1.4820	1	23574	C12H10O7	echinochrome a	517-82-8	25.00	1.4042	2
23449	C12H10BrI	diphenyliodonium bromide	1483-73-4	25.00	1.8173	2	23575	C12H10O7	6-ethyl-2,3,5,7,8-pentahydroxy-1,4-naphthale*	1471-96-1	25.00	1.4042	2
23452	C12H10ClI	diphenyliodonium chloride	1483-72-3	25.00	1.6151	2	23577	C12H10S2	diphenyldisulfide	882-33-7	20.00	1.3530	1
23453	C12H10ClN	4'-chloro-[1,1'-biphenyl]-4-amine	135-68-2	25.00	1.2500	2	23579	C12H10Se2	diphenyl diselenide	1666-13-3	80.00	1.5570	1
23455	C12H10ClN	4-chloro-N-phenylaniline	1205-71-6	25.00	1.2500	2	23584	C12H11BO	diphenylborinic acid	2622-89-1	20.00	1.0740	1
23460	C12H10ClNO2	cis-N-(4-chlorobutenyl)phthalimide	84347-67-1	25.00	1.2883	2	23588	C12H11BrO4	4-bromomethyl-6,7-dimethoxycoumarin	88404-25-5	25.00	1.5178	2
23461	C12H10ClNO5	N-(2-chlorobenzyloxycarbonyloxy)succinimide	65853-65-8	25.00	1.4199	2	23589	C12H11ClFN	1-(2-chloro-4-fluorophenyl)cyclopentanecarbo*	14262-92-	25.00	1.2020	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
23592	C12H11ClN2O5S	4-chloro-N-furfuryl-5-sulfamoylanthranilic a*	54-31-9	25.00	1.4759	2	23753	C12H12N4	p-diaminoazobenzene	538-41-0	25.00	1.2042	2
23596	C12H11ClN6O2S2	azosemide	27589-33-9	25.00	1.5464	2	23755	C12H12N4	2-amino-3,4-dimethylimidazo(4,5-f)quinoline	77094-11-2	25.00	1.2042	2
23599	C12H11Cl2NO	propyzamide	23950-58-5	25.00	1.2870	2	23759	C12H12O	1,4-dimethyl-2-naphthalenol	4705-94-6	18.00	1.0810	2
23606	C12H11I3N2O4	metrizoic acid	1949-45-7	25.00	2.3140	2	23760	C12H12O	alpha-methyl-1-naphthalenemethanol, (±)	57605-95-5	14.00	1.1190	1
23607	C12H11N	p-aminodiphenyl	92-67-1	20.00	1.1500	1	23762	C12H12O	2-ethoxynaphthalene	93-18-5	20.00	1.0640	1
23608	C12H11N	2-aminobiphenyl	90-41-5	23.86	1.0751	2	23763	C12H12O	6-phenyl-3,5-hexadien-2-one	4173-44-8	18.00	1.0810	2
23609	C12H11N	diphenylamine	122-39-4	53.00	1.0932	1	23764	C12H12O	2-naphthaleneethanol	1485-07-0	18.00	1.0810	2
23610	C12H11N	1,2-dihydro-1-acenaphthylenamine	40745-44-6	23.86	1.0751	2	23765	C12H12O	1-naphthaleneethanol	773-99-9	18.00	1.0810	2
23612	C12H11N	3-benzylpyridine	620-95-1	25.00	1.0610	1	23767	C12H12O2	2-acetyl-3,4-dihydro-1(2H)-naphthalenone	17216-08-9	25.00	1.1039	2
23617	C12H11N	3-aminobiphenyl	2243-47-2	23.86	1.0751	2	23769	C12H12O2	1,8-bis(hydroxymethyl)naphthalene	2026-08-6	25.00	1.1039	2
23618	C12H11N	1,2-dihydro-5-acenaphthylenamine	4657-93-6	23.86	1.0751	2	23770	C12H12O2	3-butylidene phthalide	551-08-6	25.00	1.1039	2
23620	C12H11NO	N-1-naphthylenylacetamide	575-36-0	25.00	1.1251	2	23771	C12H12O2	2,7-dimethoxynaphthalene	3469-26-9	25.00	1.1039	2
23621	C12H11NO	2-phenoxyaniline	2688-84-8	25.00	1.1251	2	23772	C12H12O2	2-methoxy-1-naphthalenemethanol	40696-22-8	25.00	1.1039	2
23622	C12H11NO	3-phenoxyaniline	3586-12-7	25.00	1.1583	1	23773	C12H12O2	5-phenyl-1,3-cyclohexanedione	493-72-1	25.00	1.1039	2
23623	C12H11NO	2-(phenylamino)phenol	644-71-3	25.00	1.1251	2	23777	C12H12O3	1,3,5-triacetylbenzene	779-90-8	25.00	1.1596	2
23624	C12H11NO	3-(phenylamino)phenol	101-18-8	25.00	1.1251	2	23784	C12H12O4	2,2-dimethyl-5-phenyl-1,3-dioxane-4,6-dione	15231-78-4	25.00	1.2118	2
23625	C12H11NO	4-(phenylamino)phenol	122-37-2	25.00	1.1251	2	23785	C12H12O4	cubane-1,4-dicarboylic acid dimethyl ester	29412-62-2	25.00	1.2118	2
23626	C12H11NO	4-phenoxyaniline	139-59-3	25.00	1.1251	2	23789	C12H12O5	radicinin	10088-95-6	25.00	1.2608	2
23627	C12H11NO	4-amino-3-biphenylol	4363-03-5	25.00	1.1251	2	23790	C12H12O5	6,7,8-trimethoxy-2H-1-benzopyran-2-one	6035-49-0	25.00	1.2608	2
23628	C12H11NO	4'-amino-4-biphenylol	1204-79-1	25.00	1.1251	2	23791	C12H12O5	3',5'-diacetoxyacetophenone	35086-59-0	25.00	1.2608	2
23630	C12H11NOS	2-mercapto-N-2-naphthylacetamide	93-42-5	25.00	1.2059	2	23792	C12H12O5	methyl 4-methoxycarbonylbenzoylacetate	22027-52-7	25.00	1.2608	2
23632	C12H11NO2	carbaryl	63-25-2	25.00	1.2280	1	23795	C12H12O6	1,2,4-benzenetriol triacetate	613-03-6	25.00	1.3071	2
23633	C12H11NO2	2,3-dihydro-1H,5H-benzo[ij]quinolizine-1,6(7*	39052-57-8	25.00	1.1375	2	23796	C12H12O6	trimethyl 1,2,4-benzenetricarboxylate	2459-10-1	25.00	1.2610	1
23634	C12H11NO2	ethyl 2-cyano-3-phenyl-2-propenoate	2025-40-3	25.00	1.1076	1	23797	C12H12O6	trimethyl 1,3,5-benzenetricarboxylate	2672-58-4	25.00	1.3071	2
23635	C12H11NO2	ethyl 2-isocyano-3-phenyl-2-propenoate	52744-85-1	25.00	1.0762	1	23802	C12H13Br2NO4	N-carbobenzoxyglycine-1,2-dibromoethyl ester	64187-25-3	25.00	1.7162	2
23636	C12H11NO2	N-(2-hydroxy-1-naphthyl)acetamide	117-93-1	25.00	1.1375	2	23803	C12H13ClF3NO	4-[4-chloro-3-(trifluoromethyl)phenyl]-4-pip*	21928-50-7	25.00	1.2685	2
23637	C12H11NO2	ethyl trans-a-cyanocinnamate	2169-69-9	25.00	1.1375	2	23804	C12H13ClF3N3O4	fluchloralin	33245-39-5	25.00	1.4469	2
23644	C12H11NO2S	benzenesulfonanilide	1678-25-7	25.00	1.2555	2	23806	C12H13ClN4	5-(4-chlorophenyl)-6-ethyl-2,4-pyrimidinedia*	58-14-0	25.00	1.2564	2
23646	C12H11NO3	4-ethoxymethylene-2-phenyl-2-oxazolin-5-one	15646-46-5	25.00	1.2352	2	23807	C12H13ClN4	4-(phenylazo)-1,3-benzenediamine monohydroch*	532-82-1	25.00	1.2564	2
23647	C12H11NO3S	4-(phenylamino)benzenesulfonic acid	101-57-5	25.00	1.3023	2	23808	C12H13ClO2	1-(4-chlorophenyl)-1-cyclopentanecarboxylic *	80789-69-1	25.00	1.1690	2
23648	C12H11NO3S	3-acetyl-1-(phenylsulfonyl)pyrrole	81453-98-7	25.00	1.3023	2	23809	C12H13Cl3O3	butyl (2,4,5-trichlorophenoxy)acetate	93-79-8	25.00	1.3419	2
23651	C12H11NO4	ethyl phthalimidoacetate	6974-10-3	25.00	1.2851	2	23810	C12H13Cl3O3	sec-butyl (2,4,5-trichlorophenoxy)acetate	61792-07-2	25.00	1.3419	2
23652	C12H11NO4	dimethyl indole-2,3-dicarboxylate	54781-93-0	25.00	1.2851	2	23812	C12H13FO2	1-(2-fluorophenyl)cyclopentanecarboxylic acid	214262-96-1	25.00	1.1262	2
23653	C12H11NO5	N-(benzyloxycarbonyloxy)succinimide	13139-17-8	25.00	1.3321	2	23813	C12H13FO2	1-(3-fluorophenyl)cyclopentanecarboxylic acid	214262-97-2	25.00	1.1262	2
23654	C12H11NO5	(2S)-4-(1,3-dioxoisoindolin-2-yl)-2-hydroxyb*	48172-10-7	25.00	1.3321	2	23814	C12H13FO2	1-(4-fluorophenyl)cyclopentanecarboxylic acid	214262-99-4	25.00	1.1262	2
23655	C12H11NS	4-(phenylthio)benzenamine	1135-14-4	25.00	1.1530	2	23816	C12H13N	1,4-dimethyl-2-naphthylamine	878-93-3	24.00	1.0420	2
23656	C12H11N3	p-aminoazobenzene	60-09-3	0.00	1.1740	1	23818	C12H13N	N,N-dimethyl-2-naphthylamine	2436-85-3	60.00	1.0279	1
23657	C12H11N3	1,3-diphenyltriazene	136-35-6	98.85	1.1341	2	23820	C12H13N	N-ethyl-2-naphthalenamine	2437-03-8	21.00	1.0545	1
23659	C12H11N3	2-amino-3-methyl-9H-pyrido(2,3-b)indole	68006-83-7	25.00	1.1775	2	23821	C12H13N	2-ethyl-3-methylquinoline	27356-52-1	24.00	1.0420	2
23661	C12H11N3O2	furonazide	3460-67-1	25.00	1.2825	2	23822	C12H13N	2-ethyl-4-methylquinoline	33357-44-7	20.00	1.0250	1
23665	C12H11N5	6-benzylaminopurine	1214-39-7	25.00	1.2798	2	23823	C12H13N	3-ethyl-6-methylquinoline	105688-74-2	20.00	1.0280	1
23678	C12H12	1,5-dimethylnaphthalene	571-61-9	23.33	1.0035	2	23824	C12H13N	2-propylquinoline	1613-32-7	17.00	1.0380	1
23681	C12H12	1,8-dimethylnaphthalene	569-41-5	20.00	1.0030	1	23825	C12H13N	2,3,6-trimethylquinoline	2437-73-2	24.00	1.0420	2
23682	C12H12	2,3-dimethylnaphthalene	581-40-8	20.00	1.0030	1	23826	C12H13N	2,3,8-trimethylquinoline	4945-28-2	20.00	1.0069	1
23683	C12H12	2,6-dimethylnaphthalene	581-42-0	25.00	1.1300	2	23827	C12H13N	2,4,6-trimethylquinoline	2243-89-2	24.00	1.0420	2
23684	C12H12	2,7-dimethylnaphthalene	582-16-1	25.00	1.1497	1	23828	C12H13N	2,4,7-trimethylquinoline	71633-43-7	20.00	1.0337	1
23685	C12H12	1-ethylnaphthalene	1127-76-0	-13.81	1.2045	2	23829	C12H13N	2,5,7-trimethylquinoline	102871-67-0	24.00	1.0420	2
23686	C12H12	2-ethylnaphthalene	939-27-5	-7.39	1.1826	2	23830	C12H13N	2,3,4,9-tetrahydro-1H-carbazole	942-01-8	24.00	1.0420	2
23687	C12H12	dimethylnaphthalene, isomers	28804-88-8	25.00	1.0100	1	23834	C12H13N	2,6,8-trimethylquinoline	2243-90-5	24.00	1.0420	2
23690	C12H12BrNO2	N-(4-bromobutyl)phthalimide	5394-18-3	25.00	1.4498	2	23836	C12H13NO	2-(2-naphthylamino)ethanol	36190-77-9	25.00	1.0783	2
23691	C12H12Br2N2	diquat dibromide	85-00-7	20.00	1.2400	1	23837	C12H13NO2	1,3-dimethyl-3-phenyl-2,5-pyrrolidinedione	77-41-8	25.00	1.1338	2
23694	C12H12ClFO2	1-(2-chloro-6-fluorophenyl)cyclopentanecarbo*	214263-03-3	25.00	1.2282	2	23838	C12H13NO2	1H-indole-3-butanoic acid	133-32-4	25.00	1.1338	2
23697	C12H12ClNO2S	5-(dimethylamino)-1-naphthalenesulfonyl chlo*	605-65-2	25.00	1.2999	2	23839	C12H13NO2	1-benzoyl-4-piperidone	24686-78-0	25.00	1.1338	2
23700	C12H12ClN5O4S	chlorsulfuron	64902-72-3	25.00	1.5177	2	23841	C12H13NO2	(3S-cis)-(-)-3-phenyltetrahydropyrrolo-[2,1-*	122383-34-0	25.00	1.1338	2
23718	C12H12N2	p-aminodiphenylamine	101-54-2	66.00	1.1478	2	23842	C12H13NO2	(3R-cis)-(-)-3-phenyltetrahydropyrrolo-[2,1-*	133007-27-9	25.00	1.1338	2
23719	C12H12N2	hydrazobenzene	122-66-7	20.00	1.1830	1	23843	C12H13NO2	ethyl 3-indoleacetate	778-82-5	25.00	1.1338	2
23720	C12H12N2	p-benzidine	92-87-5	17.00	1.3900	1	23844	C12H13NO2	(R)-1-(2-hydroxy-1-phenylethyl)-1,5-dihydrop*	158271-95-5	25.00	1.1338	2
23721	C12H12N2	[1,1'-biphenyl]-2,2'-diamine	1454-80-4	20.00	1.3090	1	23845	C12H13NO2	N-(n-butyl)phthalimide	1515-72-6	25.00	1.1338	2
23722	C12H12N2	[1,1'-biphenyl]-2,4'-diamine	492-17-1	17.33	1.2190	2	23853	C12H13NO2S	carboxin	5234-68-4	25.00	1.2078	2
23723	C12H12N2	[1,1'-biphenyl]-3,3'-diamine	2050-89-7	17.33	1.2190	2	23856	C12H13NO3	ethyl 5-hydroxy-2-methylindole-3-carboxylate	7598-91-6	25.00	1.1140	2
23724	C12H12N2	N-phenyl-1,2-benzenediamine	534-85-0	17.33	1.2190	2	23857	C12H13NO3	5-methoxy-2-methyl-3-indoleacetic acid	2882-15-7	25.00	1.1140	2
23725	C12H12N2	1,1-diphenylhydrazine	530-50-7	16.00	1.1900	1	23858	C12H13NO3	methyl (4S,5S)-dihydro-5-methyl-2-phenyl-4-o*	82659-84-5	25.00	1.1140	2
23726	C12H12N2	2-benzylaminopyridine	6935-27-9	17.33	1.2190	2	23859	C12H13NO3	(N-acetyl)-(4R)-benzyl-2-oxazolidinone	132836-66-9	25.00	1.1140	2
23727	C12H12N2	1,2-bis(4-pyridyl)ethane	4916-57-8	17.33	1.2190	2	23860	C12H13NO3S	pyridinium p-toluenesulfonate	24057-28-1	25.00	1.2538	2
23728	C12H12N2	4-tert-butylphthalonitrile	32703-80-3	17.33	1.2190	2	23861	C12H13NO4	DL-5-benzoylamino-5-methyl-4-oxo-1,3-dioxane	---	25.00	1.2349	2
23729	C12H12N2	4,4'-dimethyl-2,2'-bipyridine	1134-35-6	17.33	1.2190	2	23866	C12H13NO6	N-carbobenzyloxy-L-aspartic acid	1152-61-0	25.00	1.3248	2
23730	C12H12N2O	4,4'-diaminodiphenyl ether	101-80-4	25.00	1.1549	2	23868	C12H13N3	N-(4-aminophenyl)-1,4-benzenediamine	537-65-5	25.00	1.1288	2
23731	C12H12N2O	2-amino-3-benzyloxypyridine	24016-03-3	25.00	1.1549	2	23870	C12H13N3	N,N-bis(cyanoethyl)aniline	1555-66-4	25.00	1.1288	2
23732	C12H12N2O	3,5-dimethyl-1-phenylpyrazole-4-carboxaldehy*	22042-79-1	25.00	1.1549	2	23871	C12H13N3O	1,3-dihydro-1-(1,2,3,6-tetrahydro-4-pyridiny*	2147-83-3	25.00	1.1818	2
23733	C12H12N2O	3,4'-oxydianiline	2657-87-6	25.00	1.1549	2	23872	C12H13N3O2	5-amino-4-carbethoxy-1-phenylpyrazole	16078-71-0	25.00	1.2317	2
23734	C12H12N2OS	di(p-aminophenyl) sulfoxide	119-59-5	25.00	1.2295	2	23873	C12H13N3O2	2,3,5-tris(1-aziridinyl)-p-benzoquinone	68-76-8	25.00	1.2317	2
23735	C12H12N2OS2	p-(dimethylamino)benzalrhodanine	536-17-4	25.00	1.2927	2	23875	C12H13N3O2	isocarboxazid	59-63-2	25.00	1.2317	2
23736	C12H12N2O2	4,4'-dimethoxy-2,2'-bipyridine	17217-57-1	25.00	1.2080	2	23877	C12H13N3O4S2	n4-sulfanilylsulfanilamide	547-52-4	25.00	1.4227	2
23737	C12H12N2O2	3,3'-dihydroxybenzidine	2373-98-0	25.00	1.2080	2	23884	C12H13N5O4	vengicide	606-58-6	25.00	1.4038	2
23739	C12H12N2O2S	bis(4-aminophenyl) sulfone	80-08-0	25.00	1.2762	2	23887	C12H14	1,2,3-trimethylindene	4773-83-5	71.50	1.1362	2
23740	C12H12N2O2S	3-aminophenyl sulfone	599-61-1	25.00	1.2762	2	23901	C12H14Cl2N2	paraquat dichloride	1910-42-5	25.00	1.2178	2
23741	C12H12N2O3	nalidixic acid	389-08-2	25.00	1.2579	2	23903	C12H14BrNO3	3-(2-carboxyethyl)-2,5-dimethylbenzoxazolium*	32353-63-2	25.00	1.4345	2
23742	C12H12N2O3	5-ethyl-5-phenyl-2,4,6(1H,3H,5H)-pyrimidinet*	50-06-6	25.00	1.2579	2	23906	C12H14ClN5O2S	4-[(2,4-diaminophenyl)azo]benzenesulfonamide	103-12-8	25.00	1.4037	2
23747	C12H12N2S	4,4'-diaminodiphenyl sulfide	139-65-1	25.00	1.1798	2	23912	C12H14F3NO	4- 3-(trifluoromethyl)phenyl]-4-piperidinol	2249-28-7	25.00	1.1802	2
23749	C12H12N2S2	2,2'-dithiobisaniline	1141-88-4	25.00	1.2487	2	23914	C12H14IN	1-ethylquinaldinium iodide	606-55-3	25.00	1.4877	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
23918	C12H14N2	N,N,2-trimethyl-6-quinolinamine	92-99-9	25.00	1.0536	2	24093	C12H15NO7S	2-nitrophenyl-b-D-thiogalactopyranoside	1158-17-4	25.00	1.3682	2
23922	C12H14N2O	2,3-dimethyl-1-(4-methylphenyl)-3-pyrazolin-*	56430-08-1	25.00	1.1089	2	24094	C12H15NO8	4-nitrophenyl-b-D-galactopyranoside	3150-24-1	25.00	1.3572	2
23923	C12H14N2O2	5-ethyldihydro-5-phenyl-4,6(1H,5H)-pyrimidin*	125-33-7	25.00	1.1608	2	24095	C12H15NO8	2-nitrophenyl-b-D-galactopyranoside	369-07-3	25.00	1.3572	2
23924	C12H14N2O2	N-methyl-L-tryptophan	526-31-8	25.00	1.1608	2	24096	C12H15NO8	4-nitrophenyl-b-D-glucopyranoside	2492-87-7	25.00	1.3572	2
23925	C12H14N2O2	N-acetyl-5-hydroxytryptamine	17994-17-1	25.00	1.1608	2	24097	C12H15NO8	4-nitrophenyl-a-D-glucopyranoside	3767-28-0	25.00	1.3572	2
23926	C12H14N2O2	5-methyl-DL-tryptophan	951-55-3	25.00	1.1608	2	24099	C12H15N3O3	2,4,6-triallyloxy-1,3,5-triazine	101-37-1	25.00	1.1130	1
23927	C12H14N2O2	5-ethyl-1-methyl-5-phenylhydantoin	5696-06-0	25.00	1.1608	2	24102	C12H15N3O6	1-tert-butyl-3,5-dimethyl-2,4,6-trinitrobenz*	81-15-2	25.00	1.3559	2
23930	C12H14N2O2S	dansylamide	1431-39-6	25.00	1.2296	2	24107	C12H15N5O5	sangivamycin	18417-89-5	25.00	1.3925	2
23931	C12H14N2O2S	N-mesitylenesulfonylimidazole	50257-39-1	25.00	1.2296	2	24108	C12H15O2N	acetoacet-m-xylidide	97-36-9	25.00	1.0902	2
23933	C12H14N2O3	cyclopentobarbital	76-68-6	25.00	1.2098	2	24111	C12H16	cyclohexylbenzene	827-52-1	6.99	1.1154	2
23934	C12H14N2O3	DL-5-methoxytryptophan	28052-84-8	25.00	1.2098	2	24139	C12H16	4-tert-butylstyrene	1746-23-2	-36.90	1.0850	2
23937	C12H14N2O4	ruvazone	20228-27-7	25.00	1.2560	2	24139.1	C12H16	4-isobutylstyrene	63444-56-4	-53.15	1.0657	2
23939	C12H14N2O5	N-(4-aminobenzoyl)-L-glutamic acid	4271-30-1	25.00	1.2997	2	24140	C12H16	methylcyclopentadiene dimer	26472-00-4	-53.15	1.1793	2
23941	C12H14N2O5	Na-carbobenzyloxy-L-asparagine	2304-96-3	25.00	1.2997	2	24144	C12H16BrNO4S	(S)-N-boc-2-(5-bromothienyl)alanine	190319-95-0	25.00	1.4628	2
23943	C12H14N2O6	dinoseb acetate	2813-95-8	25.00	1.3410	2	24145	C12H16BrNO4S	(R)-N-boc-2-(5-bromothienyl)alanine	261380-16-9	25.00	1.4628	2
23946	C12H14N4	3,3'-diaminobenzidine	91-95-2	25.00	1.1565	2	24152	C12H16Cl2N2O	1-butyl-3-(3,4-dichlorophenyl)-1-methylurea	555-37-3	25.00	1.2187	2
23948	C12H14N4OS	2,7-dimethylthiachromine-8-ethanol	92-35-3	25.00	1.2706	2	24155	C12H16F3N	fenfluramine	458-24-2	25.00	1.0950	2
23949	C12H14N4O2S	sulfamethazine	57-68-1	25.00	1.3124	2	24157	C12H16N2	N,N-dimethyl-1H-indole-3-ethanamine	61-50-7	25.00	1.0133	2
23950	C12H14N4O2S	sulfaisodimerazine	515-64-0	25.00	1.3124	2	24158	C12H16N2O	caulophylline	486-86-2	25.00	1.0672	2
23951	C12H14N4O3S	methofadin	3772-76-7	25.00	1.3521	2	24159	C12H16N2O	3-[2-(dimethylamino)ethyl]-1H-indol-5-ol	487-93-4	25.00	1.0672	2
23952	C12H14N4O4	cyclohexanone 2,4-dinitrophenylhydrazone	1589-62-4	25.00	1.3395	2	24160	C12H16N2O	5-methoxygramine	16620-52-3	25.00	1.0672	2
23953	C12H14N4O4S	sulfadimethoxine	122-11-2	25.00	1.3897	2	24161	C12H16N2O	4-piperazinoacetophenone	51639-48-6	25.00	1.0672	2
23954	C12H14N4O4S	6-(4-aminobenzenesulfonamido)-4,5-dimethoxyp*	2447-57-6	25.00	1.3897	2	24163	C12H16N2O	4-hydroxy-N,N-dimethyltryptamine	520-53-6	25.00	1.0672	2
23956	C12H14N4O4S	sulfadimethoxypyrimidine	155-91-9	25.00	1.3897	2	24164	C12H16N2O2	1-acetyl-4-(4-hydroxyphenyl)piperazine	67914-60-7	25.00	1.1180	2
23957	C12H14N4O4S2	thiophanate-methyl	23564-05-8	25.00	1.4334	2	24166	C12H16N2O2	1-piperonylpiperazine	32231-06-4	25.00	1.1180	2
23959	C12H14N4O6	N,N',N",N"'-tetraacetylglycoluril	10543-60-9	25.00	1.4169	2	24167	C12H16N2O2	4-dimethylamino-3,5-xylyl methylcarbamate	315-18-4	25.00	1.1180	2
23965	C12H14O	4-phenylcyclohexanone	4894-75-1	21.71	1.0165	2	24170	C12H16N2O3	cyclobarbital	52-31-3	25.00	1.1659	2
23969	C12H14O	5,7-dimethyl-1-tetralone	13621-25-5	21.71	1.0165	2	24171	C12H16N2O3	hexobarbital	56-29-1	25.00	1.1659	2
23970	C12H14O	2-phenylcyclohexanone	1444-65-1	21.71	1.0165	2	24173	C12H16N2O5	1-tert-butyl-2-methoxy-4-methyl-3,5-dinitrob*	83-66-9	25.00	1.2543	2
23977	C12H14O2	beta-propylcinnamic acid	4362-01-0	23.00	1.0403	2	24174	C12H16N2O6	2',3'-O-isopropylideneuridine	362-43-6	25.00	1.2951	2
23979	C12H14O2	1-phenylcyclopentanecarboxylic acid	77-55-4	23.00	1.0403	2	24179	C12H16N3O3PS2	azinphos-ethyl	2642-71-9	25.00	1.2840	1
23987	C12H14O3	4-allyl-2-methoxyphenyl acetate	93-28-7	20.00	1.0806	1	24181	C12H16N4O2S2	glipasol	535-65-9	25.00	1.3202	2
23992	C12H14O3	trans-2-methoxy-4-(1-propenyl)phenol acetate	5912-87-8	100.00	1.0251	1	24182	C12H16N4O4	4,4'-azobis(4-cyanovaleric acid)	2638-94-0	25.00	1.2931	2
24000	C12H14O3S	trans-2-(2-thiophenecarbonyl)-1-cyclohexanec*	212757-11-4	25.00	1.1874	2	24192	C12H16O	1-phenyl-1-hexanone	942-92-7	20.00	0.9576	1
24001	C12H14O3S	cis-2-(2-thiophenecarbonyl)-1-cyclohexanecar*	212757-10-3	25.00	1.1874	2	24196	C12H16O	2-cyclohexylphenol	119-42-6	20.80	0.9755	2
24002	C12H14O4	diethyl phthalate	84-66-2	-3.28	1.3357	2	24197	C12H16O	4-cyclohexylphenol	1131-60-8	20.80	0.9755	2
24003	C12H14O4	1,3-bis(2,3-epoxypropoxy)benzene	101-90-6	30.00	1.2183	1	24198	C12H16O	1-phenylcyclohexanol	1589-60-2	16.00	1.0350	1
24005	C12H14O4	diethyl terephthalate	636-09-9	45.00	1.0989	1	24199	C12H16O	cis-2-phenylcyclohexanol, (±)	40960-73-4	16.00	1.0350	1
24006	C12H14O4	4,7-dimethoxy-5-allyl-1,3-benzodioxole	523-80-8	20.00	1.0150	1	24200	C12H16O	trans-2-phenylcyclohexanol, (±)	40960-69-8	20.80	0.9755	2
24007	C12H14O4	trans-4,7-dimethoxy-5-(1-propenyl)-1,3-benzo*	17672-88-7	27.00	1.1094	2	24203	C12H16O	pentamethylbenzaldehyde	17432-38-1	20.80	0.9755	2
24008	C12H14O4	dimethyl p-phenylenediacetate	36076-25-2	27.00	1.1094	2	24205	C12H16O	(±)-trans-2-phenyl-1-cyclohexanol	2362-61-0	20.80	0.9755	2
24009	C12H14O4	1-allyl-2,3-dimethoxy-4,5-(methylenedioxy)be*	484-31-1	27.00	1.1094	2	24206	C12H16O	(1S,2R)-(+)-trans-2-phenyl-1-cyclohexanol	34281-92-0	20.80	0.9755	2
24013	C12H14O4	ethyl 4-hydroxy-3-methoxycinnamate	4046-02-0	27.00	1.1094	2	24207	C12H16O	(1R,2S)-trans-2-phenyl-1-cyclohexanol	98919-68-7	20.80	0.9755	2
24014	C12H14O4	1-phenylenepropionic acid	4251-21-2	27.00	1.1094	2	24216	C12H16O2	beta-ethyl-beta-methylhydrocinnamic acid	105401-59-0	25.00	1.0500	1
24016	C12H14O4	mono-iso-butyl phthalate	30833-53-5	27.00	1.1094	2	24223	C12H16O2	pentamethylbenzoic acid	2243-32-5	20.00	1.0039	2
24018	C12H14O5	trans-2,4,5-trimethoxycinnamic acid	24160-53-0	25.00	1.2132	2	24227	C12H16O2	4-pentylbenzoic acid	26311-45-5	14.00	0.9920	1
24019	C12H14O5	trans-2,3,4-trimethoxycinnamic acid	33130-03-9	25.00	1.2132	2	24235	C12H16O2	4-isobutylphenylacetic acid	1553-60-2	20.00	1.0039	2
24020	C12H14O5	3,4,5-trimethoxycinnamic acid	90-50-6	25.00	1.2132	2	24238	C12H16O3	1,2,4-trimethoxy-5-(1-propenyl)benzene	494-40-6	20.00	1.1650	1
24021	C12H14O5S	(R)-(-)-g-toluenesulfonylmethyl-g-butyrolact*	58879-33-7	25.00	1.2754	2	24240	C12H16O3	1-(2,4-dihydroxyphenyl)-1-hexanone	3144-54-5	22.50	1.0595	2
24022	C12H14O5S	(S)-(+)-g-toluenesulfonylmethyl-g-butyrolact*	58879-34-8	25.00	1.2754	2	24247	C12H16O3	4-n-amyloxybenzoic acid	15872-41-0	22.50	1.0595	2
24022.1	C12H14O6	terephthalic acid diethylene glycol ester	959-26-2	112.00	1.3940	2	24248	C12H16O3	a-asarone	2883-98-9	22.50	1.0595	2
24023	C12H14O7	4-ethoxycarbonyloxy-3,5-dimethoxybenzoic acid	18780-67-1	25.00	1.3017	2	24251	C12H16O3	2,4-diethoxy-m-tolualdehyde	162976-08-1	25.00	1.0550	1
24030	C12H15ClO	2-chloro-4-cyclohexylphenol	3964-61-2	15.00	1.1600	1	24252	C12H16O3	2,2-dimethyl-3-hydroxy-3-(p-tolyl)propionic *	---	22.50	1.0595	2
24032	C12H15ClO	4-chloro-3',4'-dimethylbutyrophenone	74298-66-1	20.00	1.0980	2	24256	C12H16O3	oudenone	31323-50-9	22.50	1.0595	2
24038	C12H15Cl2NO5S	methylsulfonyl chloramphenicol	15318-45-3	25.00	1.3966	2	24258	C12H16O4	isobutyl 4-hydroxy-3-methoxybenzoate	7152-88-7	25.00	1.1226	2
24047	C12H15N	2,3,6,7-tetrahydro-1H,5H-benzo[ij]quinolizine	479-59-4	20.00	1.0030	1	24259	C12H16O4	benzo-12-crown-4	14174-08-4	25.00	1.1226	2
24048	C12H15N	acetonanil	26780-96-1	20.25	0.9653	2	24260	C12H16O4	4-(3,4-dimethoxyphenyl)butyric acid	13575-74-1	25.00	1.1226	2
24050	C12H15N	1,3,3-trimethyl-2-methyleneindoline	118-12-7	25.00	0.9790	1	24261	C12H16O4	2,2-dimethyl-3-hydroxy-3-(p-methoxyphenyl)pr*	64284-35-1	25.00	1.1226	2
24054	C12H15N3O	4-(2-keto-1-benzimidazolinyl)piperidine	20662-53-7	25.00	1.1366	2	24267	C12H16O4S2	malotilate	59937-28-9	25.00	1.2490	2
24055	C12H15N3O2S	methyl 5-propylthio-2-benzimidazolecarbamate	54965-21-8	25.00	1.2496	2	24268	C12H16O5	3-(3,4,5-trimethoxyphenyl)propionic acid	25173-72-2	25.00	1.1698	2
24056	C12H15N3O2S2	gludiase	1492-02-0	25.00	1.3050	2	24269	C12H16O6	phenyl-b-D-glucopyranoside	1464-44-4	25.00	1.2145	2
24057	C12H15NO	1-benzoylpiperidine	776-75-0	25.00	1.0160	2	24270	C12H16O6	phenyl-b-D-galactopyranoside	2818-58-8	25.00	1.2145	2
24059	C12H15NO	2-tert-butyl-6-methylphenyl isocyanate	13680-30-3	25.00	1.0160	2	24271	C12H16O7	4-hydroxyphenyl-beta-D-glucopyranoside	497-76-7	25.00	1.2569	2
24064	C12H15NO2	1-cyclohexyl-2-nitrobenzene	7137-56-6	23.00	1.1110	1	24272	C12H16O7	tri-O-acetyl-D-glucal	2873-29-2	25.00	1.2569	2
24065	C12H15NO2	1-cyclohexyl-4-nitrobenzene	5458-48-0	24.33	1.1403	2	24273	C12H16O8	1,6-anhydro-b-D-glucose-2,3,4-tri-O-acetate	13242-55-2	25.00	1.2971	2
24067	C12H15NO2	2',4'-dimethylacetoacetanilide	97-36-9	25.00	1.2400	1	24280	C12H17Cl	pentamethylbenzyl chloride	484-65-1	25.00	0.9885	2
24068	C12H15NO2	1-methyl-6,7-dimethoxy-3,4-dihydroisoquinoli*	4721-98-6	24.33	1.1403	2	24282	C12H17ClN4	myclobutanil	88671-89-0	25.00	1.1702	2
24069	C12H15NO2	4-morpholinoacetophenone	39910-98-0	24.33	1.1403	2	24288	C12H17Cl2NO3	meclofenoxate hydrochloride	3685-84-5	25.00	1.2397	2
24076	C12H15NO3	carbofuran	1563-66-2	25.00	1.1800	1	24292	C12H17N	2-benzylpiperidine	32838-55-4	25.00	0.9660	1
24077	C12H15NO3	hydrocotarnine	550-10-7	25.00	1.2000	2	24295	C12H17N	4-cyclohexylaniline	6373-50-8	20.25	0.9853	2
24078	C12H15NO3	acetoacet-p-phenetidide	122-82-7	25.00	1.2200	1	24299	C12H17NO	N-phenylhexanamide	621-15-8	25.00	1.1120	1
24081	C12H15NO3S	N-acetyl-S-benzyl-L-cysteine	19542-77-9	25.00	1.2094	2	24300	C12H17NO	1-benzyl-4-hydroxypiperidine	4727-72-4	23.33	1.0422	2
24082	C12H15NO3S	N-benzoyl-DL-methionine	4703-38-2	25.00	1.2094	2	24301	C12H17NO	4-benzyl-4-hydroxypiperidine	51135-96-7	23.33	1.0422	2
24084	C12H15NO4	cotarnine	82-54-2	25.00	1.1892	2	24305	C12H17NO	2-cis-hydroxymethyl-4-trans-phenyl-1-cyclohe*	---	23.33	1.0422	2
24085	C12H15NO4	g-benzyl L-glutamate	1676-73-9	25.00	1.1892	2	24306	C12H17NO	(R)-(-)-2-(2-isoindolinyl)butan-1-ol	135711-18-1	23.33	1.0422	2
24086	C12H15NO4	N-carbobenzyloxy-2-methylalanine	15030-72-5	25.00	1.1892	2	24307	C12H17NO	N-pivaloyl-o-toluidine	61495-04-3	23.33	1.0422	2
24088	C12H15NO5	(S)-N-carbobenzyloxy-4-amino-2-hydroxybutyri*	40371-50-4	25.00	1.2347	2	24312	C12H17NO2	promecarb	2631-37-0	25.00	1.0506	2
24089	C12H15NO5	N-carbobenzyloxy-L-serine methyl ester	1676-81-9	25.00	1.2347	2	24313	C12H17NO2	4-butoxyacetanilide	23563-26-0	25.00	1.0506	2
24090	C12H15NO5	N-carbobenzyloxy-D-serine methyl ester	93204-36-5	25.00	1.2347	2	24314	C12H17NO2	2-(1-methylpropyl)phenyl methylcarbamate	3766-81-2	25.00	1.0506	2
24091	C12H15NO5	N-carbobenzyloxy-L-threonine	19728-63-3	25.00	1.2347	2	24323	C12H17NO2S	ethyl 2-aminocyclohepta[b]thiophene-3-carbox*	40106-13-6	25.00	1.1244	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
24325	C12H17NO3	anhalonidine	17627-77-9	25.00	1.1004	2	24613	C12H20O6	diacetone-D-glucose	582-52-5	20.00	1.1250	2
24326	C12H17NO3	4-butoxy-N-hydroxybenzeneacetamide	2438-72-4	25.00	1.1004	2	24614	C12H20O6	1,2:3,4-di-o-isopropylidene-a-d-galactopyran*	4064-06-6	25.00	1.1420	1
24327	C12H17NO3	N,N-diethyl-4-hydroxy-3-methoxybenzamide	304-84-7	25.00	1.1004	2	24615	C12H20O6	2,3:5,6-di-o-isopropylidene-a-D-mannofuranose	14131-84-1	20.00	1.1250	2
24328	C12H17NO3	calycotomine	4356-47-2	25.00	1.1004	2	24616	C12H20O6	1,2:5,6-di-O-isopropylidene-a-D-allofuranose	2595-05-3	20.00	1.1250	2
24329	C12H17NO3	2,3-epoxy-4-oxo-7,10-dodecadienamide	17397-89-6	25.00	1.1004	2	24621	C12H20Si	tetraallylsilane	1112-66-9	25.00	0.8310	1
24334	C12H17NO4	diethyl 3,5-dimethylpyrrole-2,4-dicarboxylate	2436-79-5	25.00	1.1475	2	24624	C12H21BrN3O3	3-[2-(2-bromoacetamido)acetamide]-proxyl,fre*	100900-13-8	25.00	1.3448	2
24335	C12H17NO4	2,2-dimethyl-5-(2-hexahydroazepinylidene)-1,*	70912-54-8	25.00	1.1475	2	24633	C12H21NO4	cis-2-(tert-butoxycarbonylamino)-cyclohexane*	63216-49-9	25.00	1.0740	2
24337	C12H17NO4S	(S)-N-boc-2-thienylalanine	56675-37-7	25.00	1.2109	2	24652	C12H22	bicyclohexyl	92-51-3	3.63	1.0494	2
24340	C12H17NO4S2	N-(p-toluenesulfonyl)-DL-methionine	4703-33-7	25.00	1.2660	2	24655	C12H22	3-dodecyne	6790-27-8	20.00	0.7871	1
24347	C12H17N3O3	L-leucine-4-nitroanilide	4178-93-2	25.00	1.1887	2	24674	C12H22Br3N3O3	pyrrolidone hydrotribromide	52215-12-0	25.00	1.6902	2
24349	C12H17N3O4	agaritine	2757-90-6	25.00	1.2316	2	24688	C12H22N3O	4-tert-butyliminomethyl-2,2,5,5-tetramethyl-*	1973-36-0	25.00	1.0073	2
24351	C12H17N3O7	2,3,4-tri-O-acetyl-b-L-fucopyranosyl azide	95581-07-0	25.00	1.3482	2	24690	C12H22O	cyclododecanone	830-13-7	66.00	0.9059	1
24353	C12H17N5O4	nifurpipone	24632-47-1	25.00	1.3095	2	24692	C12H22O	codlelure	33956-49-9	34.00	0.9044	2
24357	C12H18	hexylbenzene	1077-16-3	-61.15	1.0694	2	24699	C12H22O2	cyclohexanehexanoic acid	4354-56-7	20.00	0.9626	1
24361	C12H18	m-diisopropylbenzene	99-62-7	-63.13	1.1018	2	24717	C12H22O2	(1R)-(-)-neomenthyl acetate	146502-80-9	25.00	0.9120	1
24362	C12H18	p-diisopropylbenzene	100-18-5	-17.07	1.0321	2	24718	C12H22O2	(1S)-(+)-neomenthyl acetate	2552-91-2	25.00	0.9120	1
24365	C12H18	1,2,4-triethylbenzene	877-44-1	-78.00	1.1086	2	24721	C12H22O2	trans-4-n-pentylcyclohexanecarboxylic acid	38289-29-1	22.30	0.9159	2
24366	C12H18	1,3,5-triethylbenzene	102-25-0	-66.42	1.0808	2	24737	C12H22O3	[(5-methyl-2-isopropylcyclohexyl)oxy]acetic *	40248-63-3	21.67	0.9663	2
24378	C12H18	hexamethylbenzene	87-85-4	165.50	0.9813	1	24744	C12H22O4	di-tert-butyl succinate	926-26-1	21.27	0.9879	2
24378.1	C12H18	p-tert-butyl ethylbenzene	7364-19-4	-38.35	1.0597	2	24753	C12H22O4	dimethyl sebacate	106-79-6	28.00	0.9882	1
24378.2	C12H18	1,5,9-cyclododecatriene	706-31-0	-16.80	1.0710	2	24755	C12H22O4	dodecanedioic acid	693-23-2	25.00	1.1500	1
24378.3	C12H18	1,2,3-triethylebenzene	42205-08-3	-58.15	1.1131	2	24771	C12H22O10	rutinose	90-74-4	25.00	1.2526	2
24386	C12H18	trans,trans,trans-1,5,9-cyclododecatriene	676-22-2	24.42	0.8680	2	24772	C12H22O11	beta-D-lactose	5965-66-2	20.00	1.5900	1
24389	C12H18Be4O13	beryllium basic acetate	1332-52-1	25.00	1.2500	1	24773	C12H22O11	alpha-maltose	4482-75-1	20.00	1.5460	1
24391	C12H18BrNO2	hemicholinium-15	4303-88-2	25.00	1.3002	2	24774	C12H22O11	sucrose	57-50-1	25.00	1.5870	1
24400	C12H18Cl2N4OS	thiamine hydrochloride	67-03-8	25.00	1.3029	2	24775	C12H22O11	trehalose	99-20-7	24.00	1.5800	1
24403	C12H18N2	1-(2,5-dimethylphenyl)piperazine	1013-25-8	25.00	0.9768	2	24776	C12H22O11	turanose	547-25-1	23.43	1.5280	2
24405	C12H18N2	1-(3,4-dimethylphenyl)piperazine	1014-05-7	25.00	0.9768	2	24777	C12H22O11	D(+)-cellobiose	528-50-7	23.43	1.5280	2
24408	C12H18N2	1-(2,3-xylyl)piperazine monohydrochloride	80836-96-0	25.00	0.9768	2	24778	C12H22O11	gentiobiose	554-91-6	23.43	1.5280	2
24412	C12H18N2O2	isophorone diisocyanate	4098-71-9	-60.00	1.3096	2	24779	C12H22O11	lactose	63-42-3	25.00	1.5300	1
24415	C12H18N2O2S	5-allyl-5-(1-methylbutyl)-2-thiobarbituric a*	77-27-0	25.00	1.1478	2	24780	C12H22O11	lactulose	4618-18-2	25.00	1.3200	1
24416	C12H18N2O3	nealbarbital	561-83-1	25.00	1.1258	2	24781	C12H22O11	D-maltose	69-79-4	25.00	1.5400	1
24422	C12H18N2O3S	tolbutamide	64-77-7	25.00	1.2450	1	24782.1	C12H22S	dicyclohexyl sulfide	7133-46-2	9.90	1.1435	2
24426	C12H18N2O5	hypoglycine B	502-37-4	25.00	1.2126	2	24789	C12H23BrO2	2-bromododecanoic acid	111-56-8	74.00	1.1474	1
24430	C12H18N4O6S	oryzalin	19044-88-3	25.00	1.3714	2	24791	C12H23Br3	1,1,1-tribromododecane	62127-69-9	25.00	1.5165	2
24431	C12H18N6	2,4,6-tris((1-(2-methylaziridinyl))-1,3,5-tr*	13009-91-1	25.00	1.1630	2	24795	C12H23Cl3	1,1,1-trichlorododecane	62108-57-0	25.00	1.0509	2
24433	C12H18O	2-tert-butyl-4,5-dimethylphenol	1445-23-4	80.00	0.9200	1	24799	C12H23F3	1,1,1-trifluorododecane	764-84-1	25.00	0.9405	2
24435	C12H18O	4-tert-butyl-2,5-dimethylphenol	17696-37-6	80.00	0.9390	1	24802	C12H23I3	1,1,1-triiodododecane	---	25.00	1.8609	2
24436	C12H18O	4-tert-butyl-2,6-dimethylphenol	879-97-0	80.00	0.9160	1	24804	C12H23N	dicyclohexylamine	101-83-7	-0.10	1.0843	2
24441	C12H18O	1-phenyl-3-hexanol	2180-43-0	20.00	0.9525	1	24821	C12H24	cyclododecane	294-62-2	80.00	0.8200	1
24447	C12H18O	2,6-dipropylphenol	6626-32-0	25.00	0.9620	1	24823	C12H24	1-dodecene	112-41-4	-35.22	0.9325	2
24450	C12H18O	1-adamantyl methyl ketone	1660-04-4	33.57	0.9414	2	24823.1	C12H24	cis-2-dodecene	7206-26-0	-40.15	1.0503	2
24452	C12H18O	2-tert-butyl-4-ethylphenol	96-70-8	25.00	0.9390	1	24823.2	C12H24	trans-2-dodecene	7206-13-5	-30.15	1.0402	2
24457	C12H18O	3,5-bis(1-methylethyl)phenol	26886-05-5	33.57	0.9414	2	24831	C12H24Br2	1,1-dibromododecane	62168-29-0	25.00	1.2967	2
24458	C12H18O	2,4-bis(1-methylethyl)phenol	2934-05-6	33.57	0.9414	2	24832	C12H24Br2	1,12-dibromododecane	3344-70-5	25.00	1.2967	2
24461	C12H18O	2-hexylphenol	3226-32-2	33.57	0.9414	2	24834	C12H24Cl2	1,12-dichlorododecane	3922-28-9	25.00	0.9656	2
24467	C12H18O2	4-hexyl-1,3-benzenediol	136-77-6	23.67	1.0026	2	24839	C12H24I2	1,1-diiododododecane	66553-33-1	25.00	1.5609	2
24468	C12H18O2	1-adamantaneacetic acid	4942-47-6	23.67	1.0026	2	24845	C12H24N2O2	dicyclohexyl ammonium nitrite	3129-91-7	25.00	0.9796	2
24471	C12H18O2	3,5-diisopropylcatechol	2138-49-0	23.67	1.0026	2	24847	C12H24N2O4	isopropyl meprobamate	78-44-4	25.00	1.0656	2
24472	C12H18O2	4-hexyloxyphenol	18979-55-0	23.67	1.0026	2	24849	C12H24N4S8Se	selenium dimethyldithiocarbamate	144-34-3	25.00	1.5800	1
24473	C12H18O2	a,a,a',a'-tetramethyl-1,4-benzenedimethanol	2948-46-1	23.67	1.0026	2	24852	C12H24O	dodecanal	112-54-9	12.00	0.9769	2
24477.1	C12H18O2	m-diisopropylbenzene hydroperoxide	26762-93-6	-9.15	1.1365	2	24855.1	C12H24O	isobutyl heptyl ketone	123-18-2	-75.15	1.0322	2
24477.2	C12H18O2	p-diisopropylbenzene hydroperoxide	98-49-7	-9.15	1.1851	2	24857	C12H24O	cyclododocanol	1724-39-6	22.86	0.8284	2
24479	C12H18O3	1,3,5-triethoxybenzene	2437-88-9	25.00	1.0350	2	24867	C12H24O2	dodecanoic acid	143-07-7	43.83	1.0073	1
24480	C12H18O3	3,5-dipropoxyphenol	28334-99-8	25.00	1.0350	2	24869	C12H24O2	decyl acetate	112-17-4	-15.03	1.0437	2
24486	C12H18O4	1,4-butanediol dimethacrylate	2082-81-7	25.00	1.0230	1	24879	C12H24O2	2-butyloctanoic acid	27610-92-0	25.00	0.8870	1
24488	C12H18O4	di-tert-butyl acetylenedicarboxylate	66086-33-7	22.00	1.0516	2	24881	C12H24O3	methyl 11-hydroxyundecanoate	24724-07-0	20.00	0.9542	1
24493	C12H18O4S2	isoprothiolane	50512-35-1	25.00	1.2105	2	24883	C12H24O3	12-hydroxydodecanoic acid	505-95-3	22.50	0.9521	2
24498	C12H18O6	1,2:5,6-di-O-isopropylidene-a-D-ribo-3-hexul*	2847-00-9	25.00	1.1739	2	24885.1	C12H24O3	2,2,4-trimethyl-1,3-pentanediol monoisobutyr*	77-68-9	-12.15	1.1465	2
24501	C12H19BrN2O2	neostigmine bromide	114-80-7	25.00	1.3160	2	24889	C12H24O6	18-crown-6	17455-13-9	25.00	1.0699	2
24504	C12H19IN2	1,1-dimethyl-4-phenylpiperazinium iodide	54-77-3	25.00	1.3965	2	24890	C12H24O11	maltitol	585-88-6	25.00	1.2515	2
24512	C12H19NO	4-(hexyloxy)aniline	39905-57-2	25.00	0.9631	2	24891	C12H24O12	alpha-lactose monohydrate	5989-81-1	20.00	1.5470	1
24519	C12H19NO4	choline salicylate	2016-36-6	25.00	1.1092	2	24896	C12H25BrO	12-bromododecanol	3344-77-2	25.00	1.0900	2
24532	C12H20	1,3-dimethyladamantane	702-79-4	-25.56	1.0899	2	24901	C12H25N	cyclododecylamine	1502-03-0	25.00	0.8254	2
24535	C12H20ClN5	sodium 3,5-dinitrosalicylate	46506-88-1	25.00	1.1541	2	24902	C12H25NO	dodecanamide	1120-16-7	25.00	0.8753	2
24539	C12H20Cl4N2O2	N,N'-octamethylenebis(dichloroacetamide)	1477-57-2	25.00	1.2899	2	24905	C12H25NO2	1-nitrododecane	16891-99-9	25.00	0.9228	2
24543	C12H20NO5	3-[(ethoxycarbonyl)oxycarbonyl]-2,5-dihydro-*	19187-50-9	25.00	1.1346	2	24908	C12H25NO5	aza-18-crown-6	33941-15-0	25.00	1.0526	2
24549	C12H20N2O2	aspergillic acid	490-02-8	25.00	1.0430	2	24914	C12H26	dodecane	112-40-3	-9.56	0.8994	2
24554	C12H20N2S4	dicyclopentamethylenethiuram disulfide	94-37-1	25.00	1.2048	2	24915	C12H26	3-methylundecane	1002-43-3	-58.00	0.9369	2
24556	C12H20N4O2	hexazinone	51235-04-2	25.00	1.2500	1	25272	C12H26N2O4	diaza-18-crown-6	23978-55-4	25.00	1.0356	2
24559	C12H20O	[1,1'-bicyclohexyl]-2-one	90-42-6	-32.00	1.1809	2	25274	C12H26N4O6	neomycin A	3947-65-7	25.00	1.1806	2
24561	C12H20O	1-adamantaneethanol	6240-11-5	22.50	0.9033	2	25277	C12H26O	1-dodecanol	112-53-8	23.80	0.9491	1
24564	C12H20O2	l-bornyl acetate	5655-61-8	25.00	0.9820	1	25280	C12H26O	6-dodecanol	6836-38-0	40.00	0.8201	1
24570	C12H20O2	5-methyl-2-(1-methylvinyl)cyclohexanol aceta*	57576-09-7	25.00	0.9250	1	25285	C12H26O	dihexyl ether	112-58-3	-43.00	0.9801	2
24571	C12H20O2	methyl 10-undecynoate	2777-66-4	20.00	0.9237	1	25287	C12H26O2	1,2-dodecanediol	1119-87-5	25.00	0.8662	2
24574	C12H20O2	1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol ace*	76-49-3	22.50	0.9319	2	25288	C12H26O2	1,3-dodecanediol	39516-24-0	25.00	0.8662	2
24594	C12H20O4	dibutyl maleate	105-76-0	-85.00	1.2624	2	25289	C12H26O2	1,4-dodecanediol	38146-95-1	25.00	0.8662	2
24599	C12H20O4	diethyl trans-1,4-cyclohexanedicarboxylate	19145-96-1	20.00	1.0110	1	25290	C12H26O2	1,12-dodecanediol	5675-51-4	25.00	0.8662	2
24602	C12H20O4	trans-2-dodecenedioic acid	6402-36-4	21.22	1.0091	2	25291	C12H26O2	(R)-1,2-dodecanediol	85514-84-7	25.00	0.8662	2
24612	C12H20O6	1,2-O-cyclohexylidene-a-D-glucofuranose	16832-21-6	20.00	1.1250	2	25292	C12H26O2	(S)-1,2-dodecanediol	85514-85-8	25.00	0.8662	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
25294	C12H26O3	diethylene glycol dibutyl ether	112-73-2	-60.20	1.1048	2	25521	C13H9ClO	(4-chlorophenyl)phenylmethanone	134-85-0	25.00	1.2313	2
25305	C12H26O5	di(trimethylolpropane)	23235-61-2	25.00	0.9996	2	25522	C13H9ClO	4-biphenylcarbonyl chloride	14002-51-8	25.00	1.2313	2
25310	C12H26S	1-dodecanethiol	112-55-0	-8.00	1.0140	2	25523	C13H9ClO	3-chlorobenzophenone	1016-78-0	25.00	1.2313	2
25317	C12H26S	tert-dodecylmercaptan	25103-58-6	-23.15	1.0404	2	25524	C13H9ClO	2-chlorobenzophenone	5162-03-8	25.00	1.2313	2
25326	C12H27B	tri-n-butyl borane	122-56-5	25.00	0.7470	1	25525	C13H9ClO2	4-chloro-4'-hydroxybenzophenone	42019-78-3	25.00	1.2813	2
25327	C12H27BO3	tributyl borate	688-74-4	-70.00	1.0955	2	25527	C13H9Cl2FN2S	loflucarban	790-69-2	25.00	1.4231	2
25340	C12H27N	dodecylamine	124-22-1	28.32	0.9231	2	25528	C13H9Cl2NO	2-amino-2',5-dichlorobenzophenone	2958-36-3	25.00	1.3481	2
25346	C12H27N	tributylamine	102-82-9	-70.15	0.9787	2	25530	C13H9Cl2NO4	chlomethoxynil	32861-85-1	25.00	1.4661	2
25359	C12H27P	tri-tert-butylphosphine	13716-12-6	25.00	0.8115	2	25531	C13H9Cl3N2O	3,4,4'-trichlorocarbanilide	101-20-2	25.00	1.4421	2
25362	C12H27PS3	merphos	150-50-5	20.00	1.0200	1	25533	C13H9FO	4-fluorobenzophenone	345-83-5	25.00	1.1871	2
25364	C12H28BrN	nonyltrimethylammonium bromide	1943-11-9	25.00	1.0422	2	25535	C13H9F3N2O2	niflumic acid	4394-00-7	25.00	1.3935	2
25365	C12H28BrN	tetrapropylammonium bromide	1941-30-6	25.00	1.0422	2	25537	C13H9N	acridine	260-94-6	25.00	1.2000	2
25366	C12H28ClN	tetrapropylammonium chloride	5810-42-4	25.00	0.8774	2	25538	C13H9N	phenanthridine	229-87-8	20.00	1.1195	2
25374	C12H28IN	tetrapropylammonium iodide	631-40-3	25.00	1.3138	1	25539	C13H9N	benzo[f]quinoline	85-02-9	20.00	1.1195	2
25397	C12H29N3	bis(6-aminohexyl)amine	143-23-7	25.00	0.9260	1	25540	C13H9N	benzo[g]quinoline	260-36-6	20.00	1.1195	2
25401	C12H30Cl2N2	hexamethonium chloride	60-25-3	25.00	0.9648	2	25541	C13H9N	benzo[h]quinoline	230-27-3	20.00	1.2340	1
25420	C12H36O4Si5	dodecamethylpentasiloxane	141-63-9	-81.15	1.1276	2	25542	C13H9N	[1,1'-biphenyl]-2-carbonitrile	24973-49-7	20.00	1.1195	2
25421	C12H36O4Si5	tetrakis(trimethylsilyloxy)silane	3555-47-3	-3.00	1.0006	2	25543	C13H9N	4-cyanobiphenyl	2920-38-9	20.00	1.1195	2
25426	C12H4Br6	polybrominated biphenyls	67774-32-7	25.00	2.5900	2	25544	C13H9NO	2-amino-9-fluorenone	3096-57-9	25.00	1.1975	2
25429	C12H4Cl4O	2,3,7,8-tetrachlorodibenzofuran	51207-31-9	25.00	1.5484	2	25546	C13H9NO	4-biphenylyl isocyanate	92-95-5	25.00	1.1975	2
25435	C13F10O	decafluorobenzophenone	853-39-4	25.00	1.6684	2	25547	C13H9NO	4'-hydroxy-4-biphenylcarbonitrile	19812-93-2	25.00	1.1975	2
25436	C13F28	perfluorotridecane	376-03-4	25.00	1.7673	2	25548	C13H9NO	2-phenylbenzoxazole	833-50-1	25.00	1.1975	2
25437	C13H2F10O	decafluorobenzhydrol	1766-76-3	25.00	1.6108	2	25549	C13H9NO	9,10-dihydro-9-oxoacridine	578-95-0	25.00	1.1975	2
25442	C13H5F5O	2,3,4,5,6-pentafluorobenzophenone	1536-23-8	25.00	1.4312	2	25550	C13H9NO	4-aminofluorenone	4269-15-2	25.00	1.1975	2
25443	C13H5F21O	(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11*	38565-54-7	25.00	1.7580	1	25553	C13H9NOS	2-(2-benzothiazolyl)phenol	3411-95-8	25.00	1.2727	2
25444	C13H5N3O7	2,4,7-trinitro-9H-fluoren-9-one	129-79-3	25.00	1.6839	2	25555	C13H9NO2	2-(2-benzoxazolyl)phenol	835-64-3	25.00	1.1685	2
25445	C13H6Cl5NO3	2,2'-dihydroxy-3,3',5,5',6-pentachlorobenzan*	2277-92-1	25.00	1.6274	2	25556	C13H9NO2	2-nitrofluorene	607-57-8	25.00	1.1685	2
25446	C13H6Cl6O2	hexachlorophene	70-30-4	25.00	1.6019	2	25561	C13H9NO3	(3-nitrophenyl)phenylmethanone	2243-80-3	25.00	1.3040	2
25447	C13H6N2O5	2,7-dinitro-9-fluorenone	31551-45-8	25.00	1.5334	2	25562	C13H9NO3	(4-nitrophenyl)phenylmethanone	1144-74-7	9.00	1.4060	1
25448	C13H7BrO	2-bromo-9-fluorenone	3096-56-8	25.00	1.5277	2	25568	C13H9NS	2-phenylbenzothiazole	883-93-2	25.00	1.2215	2
25450	C13H7ClO	2-chloro-9H-fluoren-9-one	3096-47-7	25.00	1.2857	2	25570	C13H9N3O2S	amoscanate	26328-53-0	25.00	1.4079	2
25451	C13H7ClF3NO3	nitrofluorfen	42874-01-1	25.00	1.4978	2	25572	C13H9N3O5	alizarin yellow r	2243-76-7	25.00	1.4807	2
25452	C13H7Cl4NO2	3,3',4',5-tetrachlorosalicylanilide	1154-59-2	25.00	1.5369	2	25574	C13H9O4	4-hydroxy-3-nitrobenzophenone	5464-98-2	25.00	1.3052	2
25453	C13H7FO	2-fluoro-9-fluorenone	343-01-1	25.00	1.2415	2	25575	C13H10	fluorene	86-73-7	20.00	1.2020	1
25454	C13H7F3N2O5	fluorodifen	15457-05-3	25.00	1.5601	2	25578	C13H10ClNO	2-amino-5-chlorobenzophenone	719-59-5	25.00	1.2542	2
25456	C13H7NO3	2-nitro-9H-fluoren-9-one	3096-52-4	25.00	1.3629	2	25579	C13H10ClNO	diphenylcarbamyl chloride	83-01-2	25.00	1.2542	2
25457	C13H7NO3	3-nitro-9-fluorenone	42135-22-8	25.00	1.3629	2	25581	C13H10Cl2	bis(4-chlorophenyl)methane	101-76-8	17.00	1.3650	1
25459	C13H8Br2	2,7-dibromofluorene	16433-88-8	25.00	1.7203	2	25584	C13H10Cl2O	4,4'-dichlorobenzhydrol	90-97-1	25.00	1.2806	2
25460	C13H8Br2O	4,4'-dibromobenzophenone	3988-03-2	25.00	1.7530	2	25585	C13H10Cl2O2	dichlorophene	97-23-4	25.00	1.3239	2
25462	C13H8Br3NO2	3,5-dibromo-N-(4-bromophenyl)-2-hydroxybenza*	87-10-5	25.00	2.0115	2	25586	C13H10Cl2O2	bis(4-chlorophenoxy)methane	555-89-5	25.00	1.3239	2
25464	C13H8ClN	9-chloroacridine	1207-69-8	25.00	1.2562	2	25587	C13H10Cl2S	chlorbenside	103-17-3	20.00	1.4210	1
25465	C13H8ClNOS	phenothiazine-10-carbonyl chloride	18956-87-1	25.00	1.3684	2	25589	C13H10F2	4,4'-difluorodiphenylmethane	457-68-1	25.00	1.1450	1
25466	C13H8ClNO3	2-chloro-5-nitrobenzophenone	34052-37-4	25.00	1.3997	2	25590	C13H10F2O	bis(4-fluorophenyl)methanol	365-24-2	25.00	1.2031	2
25467	C13H8ClNO3	4-chloro-3-nitrobenzophenone	56107-02-9	25.00	1.3997	2	25593	C13H10N2	4-acridinamine	578-07-4	25.00	1.1690	2
25468	C13H8Cl2	2,7-dichloro-9H-fluorene	7012-16-0	25.00	1.2845	2	25594	C13H10N2	9-acridinamine	90-45-9	25.00	1.1690	2
25469	C13H8Cl2N2O4	2',5-dichloro-4'-nitrosalicylanilide	50-65-7	25.00	1.5287	2	25595	C13H10N2	N,N'-diphenylcarbodiimide	622-16-2	25.00	1.1690	2
25470	C13H8Cl2O	(2-chlorophenyl)(4-chlorophenyl)methanone	85-29-0	14.00	1.3930	1	25596	C13H10N2	diphenylcyanamide	27779-01-7	25.00	1.1690	2
25471	C13H8Cl2O	3,3'-dichlorobenzophenone	7094-34-0	17.00	1.4215	2	25597	C13H10N2	2-methylphenazine	1016-94-0	25.00	1.1690	2
25472	C13H8Cl2O	4,4'-dichlorobenzophenone	90-98-2	20.00	1.4500	1	25598	C13H10N2	1-phenyl-1H-benzimidazole	2622-60-8	25.00	1.1690	2
25473	C13H8Cl2O	3,4-dichlorobenzophenone	6284-79-3	17.00	1.4215	2	25599	C13H10N2	2-phenylbenzimidazole	716-79-0	25.00	1.1690	2
25475	C13H8Cl2O2	3-(3,5-dichlorophenoxy)benzaldehyde	81028-92-4	25.00	1.3750	2	25600	C13H10N2	5-methyl-1,10-phenanthroline	3002-78-6	25.00	1.1690	2
25477	C13H8Cl2O4S	tienilic acid	40180-04-9	25.00	1.4981	2	25601	C13H10N2	3-acridinamine	581-29-3	25.00	1.1690	2
25478	C13H8Cl3NO2	5-chloro-N-(3,4-dichlorophenyl)-2-hydroxyben*	642-84-2	25.00	1.4676	2	25602	C13H10N2	2-aminoacridine	581-28-2	25.00	1.1690	2
25479	C13H8Cl4N2	banomite	---	25.00	1.4786	2	25605	C13H10N2O	pyocyanine	85-66-5	25.00	1.2239	2
25483	C13H8F2O	4,4'-difluorobenzophenone	345-92-6	25.00	1.2543	2	25607	C13H10N2O3	2-amino-5-nitrobenzophenone	1775-95-7	25.00	1.3236	2
25486	C13H8F2O	3,4-difluorobenzophenone	85118-07-6	25.00	1.2543	2	25608	C13H10N2O3	4-amino-3-nitrobenzophenone	31431-19-3	25.00	1.3236	2
25487	C13H8F2O3	5-(2,4-difluorophenyl)salicylic acid	22494-42-4	25.00	1.3505	2	25609	C13H10N2O3	2-(4-hydroxyphenylazo)benzoic acid	1634-82-8	25.00	1.3236	2
25488	C13H8F3NS	2-(trifluoromethyl)phenothiazine	92-30-8	25.00	1.3491	2	25610	C13H10N2O3S	2-phenylbenzimidazole-5-sulfonic acid	27503-81-7	25.00	1.3814	2
25490	C13H8I2O	4,4'-diiodobenzophenone	5630-56-8	20.00	2.2600	1	25611	C13H10N2O4	thalidomide	50-35-1	25.00	1.3691	2
25492	C13H8N2O4	2,7-dinitrofluorene	5405-53-8	25.00	1.4265	2	25612	C13H10N2O4	(±)-N-(2,6-dioxo-3-piperidyl)phthalimide	731-40-8	25.00	1.3691	2
25495	C13H8N4O4	N,N'-bis(4-nitrophenyl)carbodiimide	51128-83-7	25.00	1.5110	2	25616	C13H10N2O4	(+)-thalidomide	2614-06-4	25.00	1.3691	2
25496	C13H8O	9H-fluoren-9-one	486-25-9	99.00	1.1300	1	25617	C13H10N2O4	(-)-thalidomide	841-67-8	25.00	1.3691	2
25497	C13H8O	perinaphthenone	548-39-0	25.00	1.1681	2	25620	C13H10N4O2S3	S-2-benzothiazoyl-2-amino-a-methoxyimino-4-t*	80756-85-0	25.00	1.5068	2
25498	C13H8OS	9H-thioxanthen-9-one	492-22-8	25.00	1.2499	2	25621	C13H10N4O3	bbd	18378-20-6	25.00	1.4112	2
25500	C13H8O2	xanthone	90-47-1	25.00	1.2272	2	25622	C13H10N4O5	N,N'-bis(4-nitrophenyl)urea	587-90-6	25.00	1.4909	2
25501	C13H8O2	1-hydroxy-9-fluorenone	6344-60-1	25.00	1.2272	2	25623	C13H10O	benzophenone	119-61-9	25.00	1.1830	1
25502	C13H8O2	2-hydroxy-9-fluorenone	6949-73-1	25.00	1.2272	2	25624	C13H10O	9H-xanthene	92-83-1	25.00	1.1160	2
25503	C13H8O2	3-hydroxy-1H-phenalen-1-one	5472-84-4	25.00	1.2272	2	25625	C13H10O	biphenyl-4-carboxaldehyde	3218-36-8	25.00	1.1160	2
25504	C13H8O4	1,3-dihydroxy-9H-xanthen-9-one	3875-68-1	25.00	1.3336	2	25626	C13H10O	9-hydroxyfluorene	1689-64-1	25.00	1.1160	2
25505	C13H8O4	2,7-dihydroxy-9H-xanthen-9-one	64632-72-0	25.00	1.3336	2	25627	C13H10O2	3-(2-furanyl)-1-phenyl-2-propen-1-one	717-21-5	20.00	1.1140	1
25506	C13H8O4	3,6-dihydroxy-9H-xanthen-9-one	1214-24-0	25.00	1.3336	2	25628	C13H10O2	(2-hydroxyphenyl)phenylmethanone	117-99-7	23.00	1.1016	2
25507	C13H8O4	7,2-dihydroxy-1H-benz[f]indene-1,3(2H)-dione*	38627-57-5	25.00	1.3336	2	25629	C13H10O2	trans-3-(1-naphthyl)-2-propenoic acid	2006-14-6	23.00	1.1016	2
25508	C13H9Br	2-bromo-9H-fluorene	1133-80-8	25.00	1.4168	2	25631	C13H10O2	phenyl benzoate	93-99-2	20.00	1.2350	1
25509	C13H9Br	9-bromofluorene	1940-57-4	25.00	1.4168	2	25632	C13H10O2	o-phenylbenzoic acid	947-84-2	23.00	1.1016	2
25511	C13H9BrFNO	2-amino-2'-fluoro-5-bromobenzophenone	1479-58-9	25.00	1.5259	2	25633	C13H10O2	[1,1'-biphenyl]-4-carboxylic acid	92-92-2	23.00	1.1016	2
25512	C13H9BrO	(2-bromophenyl)phenylmethanone	13047-06-8	25.00	1.4619	2	25634	C13H10O2	4-hydroxybenzophenone	1137-42-4	23.00	1.1016	2
25513	C13H9BrO	(3-bromophenyl)phenylmethanone	1016-77-9	25.00	1.4619	2	25635	C13H10O2	3-hydroxybenzophenone	13020-57-0	23.00	1.1016	2
25514	C13H9BrO	(4-bromophenyl)phenylmethanone	90-90-4	25.00	1.4619	2	25637	C13H10O2	xanthydrol	90-46-0	25.00	0.8800	1
25517	C13H9ClFNO	2-amino-5-chloro-2'-fluorobenzophenone	784-38-3	25.00	1.3134	2	25639	C13H10O3	1,5-di-2-furanyl-1,4-pentadien-3-one	886-77-1	64.60	1.1842	2
25519	C13H9ClN2O	4-phenylazobenzoyl chloride	104-24-5	25.00	1.3265	2	25640	C13H10O3	2,2'-dihydroxybenzophenone	835-11-0	64.60	1.1842	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
25641	C13H10O3	4,4'-dihydroxybenzophenone	611-99-4	131.00	1.1330	1	25779	C13H12N2O3S	N-[(4-aminophenyl)sulfonyl]benzamide	127-71-9	25.00	1.3311	2
25642	C13H10O3	(2,4-dihydroxyphenyl)phenylmethanone	131-56-6	64.60	1.1842	2	25782	C13H12N2S	N,N'-diphenylthiourea	102-08-9	25.00	1.3200	1
25643	C13H10O3	phenyl carbonate	102-09-0	87.00	1.1215	1	25783	C13H12N2S	dimethylamino-1-naphthylisothiocyanate	29711-79-3	25.00	1.1970	2
25644	C13H10O3	2-phenoxybenzoic acid	2243-42-7	50.00	1.1553	1	25787	C13H12N4O	diphenylcarbazone	538-62-5	25.00	1.2694	2
25645	C13H10O3	phenyl salicylate	118-55-8	30.00	1.2614	1	25790	C13H12N4S	dithizone	60-10-6	25.00	1.2866	2
25646	C13H10O3	3,4-dihydroxybenzophenone	10425-11-3	64.60	1.1842	2	25792	C13H12O	4-benzylphenol	101-53-1	53.80	1.0494	2
25647	C13H10O3	4'-hydroxy-4-biphenylcarboxylic acid	58574-03-1	64.60	1.1842	2	25793	C13H12O	benzyl phenyl ether	946-80-5	53.80	1.0494	2
25648	C13H10O3	4-phenoxybenzoic acid	2215-77-2	64.60	1.1842	2	25794	C13H12O	2-methoxy-1,1'-biphenyl	86-26-0	99.00	1.0233	1
25649	C13H10O3	3-phenoxybenzoic acid	3739-38-6	64.60	1.1842	2	25795	C13H12O	4-methoxy-1,1'-biphenyl	613-37-6	100.00	1.0278	1
25650	C13H10O3	3-phenylsalicylic acid	304-06-3	25.00	1.2500	1	25798	C13H12O	diphenylmethanol	91-01-0	53.80	1.0494	2
25651	C13H10O3	resorcinol monobenzoate	136-36-7	64.60	1.1842	2	25800	C13H12O	1-(2-naphthyl)-1-propanone	6315-96-4	53.80	1.0494	2
25654	C13H10O4	visnagin	82-57-5	25.00	1.2781	2	25801	C13H12O	1,2,3,4-tetrahydro-9H-fluoren-9-one	634-19-5	53.80	1.0494	2
25655	C13H10O4	2,4,4'-trihydroxybenzophenone	1470-79-7	25.00	1.2781	2	25802	C13H12O	2-biphenylmethanol	2928-43-0	53.80	1.0494	2
25656	C13H10O5	2,2',4,4'-tetrahydroxybenzophenone	131-55-5	25.00	1.3256	2	25803	C13H12O	4-biphenylmethanol	3597-91-9	53.80	1.0494	2
25657	C13H10O6	maclurin	519-34-6	25.00	1.3703	2	25805	C13H12O2	2-benzyl-1,4-benzenediol	1706-73-6	21.25	1.1359	2
25658	C13H10S	diphenylmethanethione	1450-31-3	25.00	1.1447	2	25806	C13H12O2	bis(4-hydroxyphenyl)methane	620-92-8	21.25	1.1359	2
25659	C13H10S	9H-thioxanthene	261-31-4	25.00	1.1447	2	25807	C13H12O2	3,3'-dihydroxydiphenylmethane	10193-50-7	21.25	1.1359	2
25660	C13H10S	4-methyldibenzothiophene	7372-88-5	25.00	1.1447	2	25808	C13H12O2	2-ethoxy-1-naphthalenecarboxaldehyde	19523-57-0	21.25	1.1359	2
25663	C13H11Br	alpha-bromodiphenylmethane	776-74-9	25.00	1.3578	2	25810	C13H12O2	ethyl 2-naphthalenecarboxylate	3007-91-8	23.00	1.1143	1
25666	C13H11BrO	benzyl 4-bromophenyl ether	6793-92-6	25.00	1.4024	2	25811	C13H12O2	1-methoxy-2-phenoxybenzene	1695-04-1	21.25	1.1359	2
25671	C13H11Cl	3-chloro-2-methylbiphenyl	20261-24-9	25.00	1.1370	1	25812	C13H12O2	1-naphthalenepropanoic acid	3243-42-3	21.25	1.1359	2
25672	C13H11Cl	4-chloromethylbiphenyl	1667-11-4	23.33	1.1339	2	25814	C13H12O2	3-(phenylmethoxy)phenol	3769-41-3	21.25	1.1359	2
25675	C13H11ClN2O2	clonixic acid	17737-65-4	25.00	1.3195	2	25815	C13H12O2	4-(phenylmethoxy)phenol	103-16-2	21.25	1.1359	2
25676	C13H11ClO	clorophene	120-32-1	58.00	1.1850	1	25816	C13H12O2	2-acetyl-6-methoxynaphthalene	3900-45-6	21.25	1.1359	2
25677	C13H11ClO	4-chlorobenzhydrol	119-56-2	25.00	1.1822	2	25820	C13H12O2S	(benzylsulfonyl)benzene	3112-88-7	153.00	1.1261	1
25678	C13H11ClO	2-benzyl-4-chlorophenol	1322-48-1	25.00	1.1822	2	25821	C13H12O2S2	o-toluenethiosulfonic acid, s-phenyl ester	96097-69-7	25.00	1.2647	2
25681	C13H11Cl2NO2	procymidone	32809-16-8	25.00	1.4520	1	25822	C13H12O3	ethyl 3-hydroxy-2-naphthalenecarboxylate	7163-25-9	25.00	1.1783	2
25683	C13H11N	3-methyl-9H-carbazole	4630-20-0	58.00	1.0458	2	25823	C13H12O3	euparin	532-48-9	25.00	1.1783	2
25684	C13H11N	9-methylcarbazole	1484-12-4	58.00	1.0458	2	25824	C13H12O3	6-hydroxy-2-naphthalenepropanoic acid	553-39-9	25.00	1.1783	2
25686	C13H11N	N-(phenylmethylene)aniline	538-51-2	55.00	1.0380	1	25825	C13H12O3	2-ethoxynaphthoic acid	2224-00-2	25.00	1.1783	2
25688	C13H11N	trans-2-(2-phenylvinyl)pyridine	538-49-8	100.00	1.0147	1	25827	C13H12S	(benzylthio)benzene	831-91-4	17.50	1.0915	2
25689	C13H11N	trans-4-(2-phenylvinyl)pyridine	5097-93-8	58.00	1.0458	2	25831	C13H12S2	bis(phenylthio)methane	3561-67-9	25.00	1.1748	2
25690	C13H11N	2-aminofluorene	153-78-6	58.00	1.0458	2	25832	C13H12S2O4	bis(phenylsulfonyl)methane	3406-02-8	25.00	1.3455	2
25691	C13H11N	fluoren-9-amine	525-03-1	58.00	1.0458	2	25847	C13H13Cl2N3O3	iprodione	36734-19-7	25.00	1.4040	2
25693	C13H11NO	N,N-diphenylformamide	607-00-1	25.00	1.1658	2	25850	C13H13IO8	dess-martin periodinane	87413-09-0	25.00	1.3690	1
25694	C13H11NO	N-phenylbenzamide	93-98-1	25.00	1.3150	1	25851	C13H13N	p-benzylaniline	1135-12-2	25.00	1.0380	1
25695	C13H11NO	2-[(phenylimino)methyl]phenol	779-84-0	25.00	1.0870	1	25852	C13H13N	N-benzylaniline	103-32-2	65.00	1.0298	1
25696	C13H11NO	4-aminobenzophenone	1137-41-3	25.00	1.1658	2	25853	C13H13N	3-methyl-N-phenylaniline	1205-64-7	31.00	1.0450	2
25697	C13H11NO	2-aminobenzophenone	2835-77-0	25.00	1.1658	2	25854	C13H13N	3-methyl-[1,1'-biphenyl]-4-amine	63019-98-7	31.00	1.0450	2
25698	C13H11NO	4-biphenylcarboxamide	3815-20-1	25.00	1.1658	2	25855	C13H13N	4'-methyl-[1,1'-biphenyl]-4-amine	1204-78-0	31.00	1.0450	2
25703	C13H11NO	benzophenone oxime	574-66-3	25.00	1.1658	2	25856	C13H13N	6-methyl-[1,1'-biphenyl]-2-amine	76472-83-8	31.00	1.0450	2
25705	C13H11NO	N-hydroxy-2-aminofluorene	53-94-1	25.00	1.1658	2	25858	C13H13N	alpha-phenylbenzenemethanamine	91-00-9	20.00	1.0633	1
25708	C13H11NO2	2-hydroxy-N-phenylbenzamide	87-17-2	25.00	1.2003	2	25860	C13H13N	2-benzylaniline	28059-64-5	31.00	1.0450	2
25709	C13H11NO2	2-(phenylamino)benzoic acid	91-40-7	25.00	1.2003	2	25863	C13H13NO	4-cyano-4-phenylcyclohexanone	25115-74-6	25.00	1.1006	2
25710	C13H11NO2	N-phenylbenzohydroxamic acid	304-88-1	25.00	1.2003	2	25864	C13H13NO	5-phenyl-o-anisidine	39811-17-1	25.00	1.1006	2
25718	C13H11NO3	4,8-dimethoxyfuro[2,3-b]quinoline	524-15-2	25.00	1.2508	2	25870	C13H13NO2	(S)-(-)-2-amino-3-(1-naphthyl)propanoic acid	55516-54-6	25.00	1.1532	2
25719	C13H11NO3	1-methyl-2-(2-nitrophenoxy)benzene	54106-40-0	20.00	1.1950	1	25871	C13H13NO2	(3R-cis)-2,3-dihydro-7a-methyl-3-phenylpyrro*	211240-56-1	25.00	1.1532	2
25720	C13H11NO3	1-methyl-4-(4-nitrophenoxy)benzene	3402-74-2	25.00	1.2508	2	25872	C13H13NO2	(3S-cis)-2,3-dihydro-7a-methyl-3-phenylpyrro*	143140-06-1	25.00	1.1532	2
25721	C13H11NO3	phenyl 4-amino-3-hydroxybenzoate	133-11-9	25.00	1.2508	2	25879	C13H13NO5	3-(4-hydroxyphenyl)propionic acid N-hydroxys*	34071-95-9	25.00	1.2936	2
25723	C13H11NO3	driol	526-18-1	25.00	1.2508	2	25882	C13H13N3	N,N'-diphenylguanidine	102-06-7	20.00	1.1300	1
25724	C13H11NO5	oxolinic acid	14698-29-4	25.00	1.3431	2	25888	C13H13N3O	4,4-diphenylsemicarbazide	603-51-0	25.00	1.1990	2
25726	C13H11NS	N-phenylbenzenecarbothioamide	636-04-4	25.00	1.1721	2	25889	C13H13N3O	2',4-diaminobenzanilide	58338-59-3	25.00	1.1990	2
25727	C13H11NS	10-methylphenothiazine	1207-72-3	25.00	1.1721	2	25894	C13H13N3O3	5-(cyclopropylcarbonyl)-2-benzimidazolecarba*	31431-43-3	25.00	1.2913	2
25728	C13H11N3	3,6-acridinediamine	92-62-6	25.00	1.1963	2	25895	C13H13N3O5S2	succinylsulphathiazole	116-43-8	25.00	1.4618	2
25729	C13H11N3	9-hydrazinoacridine	3407-93-0	25.00	1.1963	2	25900	C13H13O3P	diphenyl methylphosphonate	7526-26-3	20.00	1.2051	1
25730	C13H11N3	3,9-acridinediamine	951-80-4	25.00	1.1963	2	25903	C13H14	1-propylnaphthalene	2765-18-6	-8.60	1.1816	2
25731	C13H11N3	2,6-diaminoacridine	3407-94-1	25.00	1.1963	2	25907	C13H14	1-methyl-2-ethylnaphthalene	25607-16-3	23.86	0.9924	2
25732	C13H11N3O	2-(2H-benzotriazol-2-yl)-4-methylphenol	2440-22-4	25.00	1.2477	2	25908	C13H14	1-methyl-3-ethylnaphthalene	17179-41-8	23.86	0.9924	2
25737	C13H11N3O4S2	tenoxicam	59804-37-4	25.00	1.4765	2	25909	C13H14	1-methyl-4-ethylnaphthalene	27424-87-9	23.86	0.9924	2
25738	C13H12	diphenylmethane	101-81-5	20.00	1.0900	1	25910	C13H14	1-methyl-5-ethylnaphthalene	17057-92-0	23.86	0.9924	2
25741	C13H12	4-methylbiphenyl	644-08-6	27.00	1.0150	1	25911	C13H14	1-methyl-6-ethylnaphthalene	17059-53-9	23.86	0.9924	2
25751	C13H12Cl2O4	ethacrynic acid	58-54-8	25.00	1.3562	2	25912	C13H14	1-methyl-7-ethylnaphthalene	2451-00-5	23.86	0.9924	2
25753	C13H12F3NO2	coumarin 307	55804-70-1	25.00	1.2806	2	25913	C13H14	1-methyl-8-ethylnaphthalene	61886-71-3	23.86	0.9924	2
25756	C13H12N2	N,N'-diphenylmethanimidamide	622-15-1	25.00	1.1203	2	25914	C13H14	2-methyl-1-ethylnaphthalene	---	23.86	0.9924	2
25757	C13H12N2	9H-fluorene-2,7-diamine	525-64-4	25.00	1.1203	2	25915	C13H14	2-methyl-3-ethylnaphthalene	31032-94-7	23.86	0.9924	2
25759	C13H12N2	(4-methylphenyl)phenyldiazene	949-87-1	25.00	1.1203	2	25916	C13H14	2-methyl-4-ethylnaphthalene	17057-94-2	23.86	0.9924	2
25760	C13H12N2	benzophenone hydrazone	5350-57-2	25.00	1.1203	2	25917	C13H14	2-methyl-5-ethylnaphthalene	---	23.86	0.9924	2
25762	C13H12N2O	benzo-2-phenylhydrazide	532-96-7	55.60	1.1620	2	25918	C13H14	2-methyl-6-ethylnaphthalene	7372-86-3	23.86	0.9924	2
25763	C13H12N2O	3,3'-diaminobenzophenone	611-79-0	55.60	1.1620	2	25919	C13H14	2-methyl-7-ethylnaphthalene	17059-55-1	23.86	0.9924	2
25764	C13H12N2O	N,N'-diphenylurea	102-07-8	25.00	1.2390	1	25920	C13H14	2-methyl-8-ethylnaphthalene	---	23.86	0.9924	2
25765	C13H12N2O	N,N-diphenylurea	603-54-3	25.00	1.2760	1	25921	C13H14	1,2,3-trimethylnaphthalene	879-12-9	23.86	0.9924	2
25766	C13H12N2O	7-methoxy-1-methyl-9H-pyrido[3,4-b]indole	442-51-3	55.60	1.1620	2	25922	C13H14	1,2,4-trimethylnaphthalene	2717-42-2	23.86	0.9924	2
25767	C13H12N2O	(2-methoxyphenyl)phenyldiazene	6319-21-7	100.00	1.0728	1	25923	C13H14	1,2,5-trimethylnaphthalene	641-91-8	22.00	1.0103	1
25768	C13H12N2O	(3-methoxyphenyl)phenyldiazene	34238-81-8	53.00	1.1023	1	25925	C13H14	1,2,7-trimethylnaphthalene	486-34-0	20.00	1.0087	1
25769	C13H12N2O	(4-methoxyphenyl)phenyldiazene	2396-60-3	75.00	1.1200	1	25926	C13H14	1,2,8-trimethylnaphthalene	3876-97-9	23.86	0.9924	2
25770	C13H12N2O	4-methyl-2-(phenylazo)phenol	952-47-6	55.60	1.1620	2	25927	C13H14	1,3,5-trimethylnaphthalene	2131-39-7	23.86	0.9924	2
25771	C13H12N2O	2-aminobenzanilide	4424-17-3	55.60	1.1620	2	25928	C13H14	1,3,6-trimethylnaphthalene	3031-08-1	23.86	0.9924	2
25772	C13H12N2O	3,4-diaminobenzophenone	39070-63-8	55.60	1.1620	2	25930	C13H14	1,3,8-trimethylnaphthalene	17057-91-9	23.86	0.9924	2
25775	C13H12N2O2S	3,6-thioxanthenediamine-10,10-dioxide	10215-25-5	25.00	1.2889	2	25931	C13H14	1,4,5-trimethylnaphthalene	2131-41-1	23.86	0.9924	2
25776	C13H12N2O3	5-phenyl-5-allyl-2,4,6(1H,3H,5H)-pyrimidinet*	115-43-5	25.00	1.2720	2	25932	C13H14	1,4,6-trimethylnaphthalene	2131-42-2	23.86	0.9924	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
25934	C13H14	2,3,6-trimethylnaphthalene	829-26-5	23.86	0.9924	2	26127	C13H17NO	1-(b-phenethyl)-4-piperidone	39742-60-4	25.00	0.9690	2
25937	C13H14ClN	1-(4-chlorophenyl)-1-cyclohexanecarbonitrile	64399-28-6	25.00	1.1146	2	26128	C13H17NO	4-piperidinoacetophenone	10342-85-5	25.00	0.9690	2
25938	C13H14ClNO2	pirprofen	31793-07-4	25.00	1.2081	2	26134	C13H17NO2S	6,7-diethoxy-3,4-dihydroisoquinoline-1(2H)-t*	336185-28-5	25.00	1.1412	2
25941	C13H14Cl2O3	ciprofibrate	52214-84-3	25.00	1.2743	2	26136	C13H17NO3S	N-acetyl-S-benzyl-L-cysteine methyl ester	77549-14-5	25.00	1.1837	2
25944	C13H14FN	1-(4-fluorophenyl)cyclohexanecarbonitrile	71486-43-6	25.00	1.0708	2	26137	C13H17NO4	diethyl 2,6-dimethyl-3,5-pyridinedicarboxyla*	1149-24-2	25.00	1.1638	2
25947	C13H14F3N3O4	ethalfluralin	55283-68-6	25.00	1.3855	2	26138	C13H17NO4	DL-N-benzoyl-2-isopropylserine	52421-46-2	25.00	1.1638	2
25950	C13H14N2	4,4'-diaminodiphenylmethane	101-77-9	25.00	1.0765	2	26139	C13H17NO4	N-carbobenzyloxy-L-valine	1149-26-4	25.00	1.1638	2
25951	C13H14N2	3-methylhydrazobenzene	621-25-0	100.00	1.0265	1	26140	C13H17NO4	6,7-dimethoxy-1,2,3,4-tetrahydro-1-isoquinol*	---	25.00	1.1638	2
25952	C13H14N2	2,4'-methylenedianiline	1208-52-2	25.00	1.0765	2	26147	C13H17NO5	N-carbobenzyloxy-L-threonine methyl ester	57224-63-2	25.00	1.2065	2
25953	C13H14N2	tetrahydroaminocrine	321-64-2	25.00	1.0765	2	26148	C13H17N2O2	2,2,5,5-Tetramethyl-4-phenyl-3-imidazoline-3*	18796-03-7	25.00	1.1166	2
25954	C13H14N2O	alpha-[(2-pyridinylamino)methyl]benzenemetha*	553-69-5	25.00	1.1289	2	26150	C13H17N3O	aminopyrine	58-15-1	25.00	1.1143	2
25955	C13H14N2O	p-anisyl(2-pyridyl)amine	52818-63-0	25.00	1.1289	2	26151	C13H17N3O	1-phenyl-1,3,8-triazaspiro[4.5]decan-4-one	1021-25-6	25.00	1.1143	2
25956	C13H14N2O	N-(p-methoxyphenyl)-p-phenylenediamine	101-64-4	25.00	1.1289	2	26152	C13H17N3O2	5-butyl-2-benzimidazolecarbamic acid methyl *	14255-87-9	25.00	1.1600	2
25960	C13H14N2O2S	4-(benzylamino)benzenesulfonamide	104-22-3	25.00	1.2434	2	26153	C13H17N3O3	dioxypyramidon	519-65-3	25.00	1.2034	2
25961	C13H14N2O3	mephobarbital	115-38-8	25.00	1.2250	2	26155	C13H17N5O4	2',3'-O-isopropylideneadenosine	362-75-4	25.00	1.3194	2
25962	C13H14N2O3	N-acetyl-DL-tryptophan	87-32-1	25.00	1.2250	2	26166	C13H18ClNO	4'-chloro-2,2-dimethylvaleranilide	7287-36-7	25.00	1.0860	2
25963	C13H14N2O3	N-boc-3-(4-cyanophenyl)oxaziridine	150884-56-3	25.00	1.2250	2	26167	C13H18ClNO	solan	2307-68-8	25.00	1.0860	2
25964	C13H14N2O3	boc-ON	58632-95-4	25.00	1.2250	2	26168	C13H18ClNO2	2,6-dimethyl-N-(2-methoxyethyl)chloroacetani*	50563-36-5	25.00	1.1297	2
25970	C13H14N2O4S2	aspergillin	67-99-2	25.00	1.3727	2	26172	C13H18ClN3O4S2	cyclopenthiazide	742-20-1	25.00	1.3703	2
25972	C13H14N2O13	harmaline	304-21-2	25.00	1.5796	2	26175	C13H18Cl2N2O2	DL-3-(p-(bis(2-chloroethyl)amino)phenyl)alan*	531-76-0	25.00	1.2315	2
25977	C13H14N4O	2,2'-diphenylcarbonic dihydrazide	140-22-7	25.00	1.2218	2	26176	C13H18Cl2N2O2	L-phenylalanine mustard	148-82-3	25.00	1.2315	2
25987	C13H14N4S	1,5-diphenyl-3-thiocarbohydrazide	622-03-7	25.00	1.2406	2	26177	C13H18Cl2N2O2	D-sarcolysine	13045-94-8	25.00	1.2315	2
25990	C13H14O	propyl 2-naphthyl ether	19718-45-7	25.00	1.0273	2	26179	C13H18N2	trans-1-cinnamylpiperazine	87179-40-6	25.00	0.9890	1
25991	C13H14OSi	methyldiphenylsilanol	778-25-6	25.00	1.0840	1	26181	C13H18N2O	4-(4-methylpiperazino)acetophenone	26586-55-0	25.00	1.0504	2
25992	C13H14O2	ethyl 5-phenyl-2,4-pentadienoate	1552-95-0	20.00	1.0467	1	26182	C13H18N2O	N,N-dimethyl-5-methoxytryptamine	1019-45-0	25.00	1.0504	2
25993	C13H14O2	DL-6-methoxy-a-methyl-2-napthalenemethanol	77301-42-9	25.00	1.0820	2	26184	C13H18N2O2	lenacil	2164-08-1	25.00	1.3200	1
25995	C13H14O3	ethyl 2-benzylideneacetoacetate	620-80-4	25.00	1.1336	2	26185	C13H18N2O2	1-hydroxy-2,2,5,5-tetramethyl-4-phenyl-3-imi*	18796-01-5	25.00	1.0977	2
25999	C13H14O5	citrinin	518-75-2	25.00	1.2281	2	26187	C13H18N2O2	2-dimethylaminoethanol-p-acetamidobenzoate	3635-74-3	25.00	1.0977	2
26002	C13H15ClO2	1-(4-chlorophenyl)-1-cyclohexanecarboxylicac*	58880-37-8	25.00	1.1443	2	26188	C13H18N2O3	N-caffeeoylputrescine	29554-26-5	25.00	1.1426	2
26004	C13H15FO2	1-(2-fluorophenyl)cyclohexanecarboxylic acid	106795-66-8	25.00	1.1041	2	26192	C13H18N2O4	(S)-N-boc-(3-pyridyl)alanine	117142-26-4	25.00	1.1853	2
26005	C13H15FO2	1-(3-fluorophenyl)cyclohexanecarboxylic acid	214262-98-3	25.00	1.1041	2	26194	C13H18N2O4	(R)-N-boc-(4-pyridyl)alanine	37535-58-3	25.00	1.1853	2
26006	C13H15FO2	1-(4-fluorophenyl)cyclohexanecarboxylic acid	214263-00-0	25.00	1.1041	2	26196	C13H18N2O4	(R)-N-boc-(3-pyridyl)alanine	98266-33-2	25.00	1.1853	2
26007	C13H15IN2O7	3',5'-diacetyl-5-iodo-2'-deoxyuridine	1956-30-5	25.00	1.7080	2	26201	C13H18N4O3	Na-benzoyl-L-arginine	154-92-7	25.00	1.2231	2
26008	C13H15N	2-butylquinoline	7661-39-4	20.00	1.0030	1	26202	C13H18N4O3	pentoxifylline	6493-05-6	25.00	1.2231	2
26013	C13H15N	a-isobutylquinoline	93-19-6	24.00	1.0268	2	26206	C13H18O	1-cyclohexyl-2-methoxybenzene	2206-48-6	18.00	1.0070	1
26018	C13H15NO2	(3R-cis)-7a-methyl-3-phenyltetrahydropyrrolo*	137869-70-6	25.00	1.1104	2	26214	C13H18O2	a-(tert-butyl)hydrocinnamic acid	53483-12-8	23.75	0.9943	2
26019	C13H15NO2	(3S-cis)-(+)-7a-methyl-3-phenyltetrahydropyr*	153745-22-3	25.00	1.1104	2	26215	C13H18O2	4-hexylbenzoic acid	21643-38-9	23.75	0.9943	2
26020	C13H15NO2	coumarin 2	26078-25-1	25.00	1.1104	2	26217	C13H18O2	ibuprofen	15687-27-1	75.25	1.2274	2
26021	C13H15NO2	doriden	77-21-4	25.00	1.1104	2	26218	C13H18O2	(S)-(+)-ibuprofen	51146-56-6	23.75	0.9943	2
26022	C13H15NO2	(-)-securinine	5610-40-2	25.00	1.1104	2	26232	C13H18O3	3,5-diisopropylsalicylic acid	2215-21-6	25.00	1.0557	2
26024	C13H15NO3	(4S)-(+)-4-benzyl-3-propionyl-2-oxazolidinone	101711-78-8	25.00	1.1589	2	26233	C13H18O3	4-(hexyloxy)benzoic acid	1142-39-8	25.00	1.0557	2
26025	C13H15NO3	methyl 1-benzyl-5-oxo-3-pyrrolidine-carboxyl*	51535-00-3	25.00	1.1589	2	26236	C13H18O5	3,4,5-triethoxybenzoic acid	6970-19-0	25.00	1.1465	2
26026	C13H15NO4	benzyl 1,2-pyrrolidinedicarboxylate, (S)	1148-11-4	25.00	1.2047	2	26237	C13H18O5S	ethofumesate	26225-79-6	25.00	1.1400	1
26027	C13H15NO4S2	fentiapril	80830-42-8	25.00	1.3166	2	26238	C13H18O5S	(S)-(+)-2,2-dimethyl-1,3-dioxolan-4-ylmethyl*	23735-43-5	25.00	1.2080	1
26028	C13H15NO6	N-benzyloxycarbonyl-L-glutamic acid	1155-62-0	25.00	1.2894	2	26239	C13H18O5S	(R)-(-)-2,2-dimethyl-1,3-dioxolan-4-ylmethyl*	23788-74-1	25.00	1.2080	1
26029	C13H15N3O2	pyrolan	87-47-8	25.00	1.2014	2	26241	C13H18O7	2-(hydroxymethyl)phenyl-beta-D-glucopyranosi*	138-52-3	25.00	1.4340	1
26030	C13H15N3O2	4-acetamidoantipyrine	83-15-8	25.00	1.2014	2	26242	C13H18O9	b-D-ribofuranose 1,2,3,5-tetraacetate	13035-61-5	25.00	1.3031	2
26031	C13H15N3O2	N-acetyl-L-tryptophanamide	2382-79-8	25.00	1.2014	2	26243	C13H19ClN2O2	2-(diethylamino)ethyl-4-amino-2-chlorobenzoa*	133-16-4	25.00	1.1515	2
26032	C13H15N3O3	imazapyr	81334-34-1	25.00	1.2455	2	26244	C13H19ClN2O5S2	mefruside	7195-27-9	25.00	1.3524	2
26042	C13H16ClNO	ketamine	6740-88-1	25.00	1.1227	2	26251	C13H19NO	trans-2-benzylamino-1-cyclohexanol	40571-86-6	25.00	0.9866	2
26047	C13H16Cl12O8	1,1',1",1"'-(neopentane tetrayltetraoxy)te*	78-12-6	25.00	1.6647	2	26252	C13H19NO	N,N-diisopropylbenzamide	20383-28-2	25.00	0.9866	2
26048	C13H16F3N3O4	balan	1861-40-1	25.00	1.3435	2	26255	C13H19NO2	1,2,3,4-tetrahydro-6,7-dimethoxy-1,2-dimethy*	71783-56-7	25.00	1.0356	2
26049	C13H16F3N3O4	trifluralin	1582-09-8	25.00	1.3435	2	26258	C13H19NO2	ethyl 4-(butylamino)benzoate	94-32-6	25.00	1.0356	2
26050	C13H16FNO4	(S)-N-boc-4-fluorophenylglycine	142186-36-5	25.00	1.2168	2	26259	C13H19NO2	ethyl 4-(N,N-diethylamino)benzoate	12087-54-4	25.00	1.0356	2
26051	C13H16FNO4	(R)-N-boc-4-fluorophenylglycine	196707-32-1	25.00	1.2168	2	26261	C13H19NO2	o-hexyloxybenzamide	53370-90-4	25.00	1.0356	2
26057	C13H16N2O	1-benzyl-4-cyano-4-hydroxypiperidine	6094-60-6	25.00	1.0879	2	26262	C13H19NO2S	fenothiocarb	62850-32-2	25.00	1.1051	2
26059	C13H16N2O2	N-[2-(5-methoxy-1H-indol-3-yl)ethyl]acetamide	73-31-4	25.00	1.1363	2	26265	C13H19NO3	pellotine	83-14-7	25.00	1.0820	2
26061	C13H16N2O2	6,7-dimethoxy-1,2,3,4-tetrahydro-1-isoquinol*	---	25.00	1.1363	2	26267	C13H19NO3	homocalycotomine	14029-02-8	25.00	1.0820	2
26062	C13H16N2O2	4-methylprimidone	59026-32-3	25.00	1.1363	2	26272	C13H19NO4S	4-[(dipropylamino)sulfonyl]benzoic acid	57-66-9	25.00	1.1866	2
26065	C13H16N2O2	mobutazon	2210-63-1	25.00	1.1363	2	26273	C13H19NO4S	ethyl O-mesitylsulfonylaceto-hydroxamate	38202-27-6	25.00	1.1866	2
26067	C13H16N2O2S	thialpenton	467-36-7	25.00	1.2016	2	26274	C13H19N2O3	3-(maleimidomethyl)-proxyl, free radical	54060-41-2	25.00	1.1241	2
26069	C13H16N2O5	L-aspartyl-L-phenylalanine	13433-09-5	25.00	1.2667	2	26275	C13H19N3O4	pendimethalin	40487-42-1	25.00	1.1900	1
26070	C13H16N2O5	N-carbobenzyloxy-L-glutamine	2650-64-8	25.00	1.2667	2	26276	C13H19N3O5S	(Z)-2-amino-a-[1-(tert-butoxycarbonyl)]-1-1-*	86299-47-0	25.00	1.2937	2
26072	C13H16N2S2	N-cyclohexyl-2-benzothiazolesulfenamide	95-33-0	25.00	1.2700	1	26277	C13H19N3O5S2	sparsomycin	1404-64-4	25.00	1.3378	2
26078	C13H16O	4,4-dimethyl-1-phenyl-1-penten-3-one	538-44-3	46.00	0.9508	1	26278	C13H19N3O6S	nitralin	4726-14-1	25.00	1.3272	2
26079	C13H16O	5-methyl-1-phenyl-1-hexen-3-one	2892-18-4	46.00	0.9509	1	26280	C13H19N5S	1-phenyl-1H-tetrazole-5-thiol cyclohexylamin*	102853-44-1	25.00	1.1803	2
26081	C13H16O	benzoylcyclohexane	712-50-5	39.00	0.9679	2	26283	C13H20	heptylbenzene	1078-71-3	-48.00	1.0617	2
26089	C13H16O2	1-hydroxycyclohexyl phenyl ketone	947-19-3	24.00	1.0506	2	26290	C13H20ClNO	cis-2-benzylaminomethyl-1-cyclopentanol hydr*	20520-98-3	25.00	1.0521	2
26091	C13H16O2	1-phenyl-1-cyclohexanecarboxylic acid	1135-67-7	24.00	1.0506	2	26293	C13H20N2O	prilocaine	721-50-6	25.00	1.0160	2
26092	C13H16O2	a-phenylcyclopentaneacetic acid	3900-93-4	24.00	1.0506	2	26296	C13H20N2O2	2-diethylaminoethyl 4-aminobenzoate	59-46-1	25.00	1.0623	2
26093	C13H16O2	1-(p-tolyl)-1-cyclopentanecarboxylic acid	80789-75-9	24.00	1.0506	2	26303	C13H20N2O4S	Ne-tosyl-L-lysine	2130-76-9	25.00	1.2051	2
26103	C13H16O3	tert-butyl 4-vinylphenyl carbonate	87188-51-0	21.67	1.0555	2	26314	C13H20O	2-methyl-4-(3-methylpentyl)phenol	882-25-7	20.60	0.9402	2
26105	C13H16O3	1-(4-methoxyphenyl)-1-cyclopentanecarboxylic*	43050-28-8	21.67	1.0555	2	26324	C13H20O2	4-heptyloxyphenol	13037-86-0	25.00	0.9455	2
26106	C13H16O3	precocene ii	644-06-4	21.67	1.0555	2	26340	C13H20O8	pentaerythritol tetraacetate	597-71-7	18.00	1.2730	1
26108	C13H16O3	phenacylpivalate	2522-81-8	21.67	1.0555	2	26341	C13H21ClN2O2	procaine hydrochloride	51-05-8	25.00	1.1172	2
26110	C13H16O4	diethyl dipropargylmalonate	2689-88-5	25.00	1.1405	2	26354	C13H21N3O	procainamide	51-06-9	25.00	1.0432	2
26112	C13H16O5	ethyl 4-(cyclopropylhydroxymethylene)-3,5-di*	95266-40-3	25.00	1.1856	2	26355	C13H21N5O2	corafil	314-35-2	25.00	1.1654	2
26114	C13H16O7	2-(beta-D-glucopyranosyloxy)benzaldehyde	618-65-5	25.00	1.2690	2	26362	C13H22BrN	benzyltriethylammonium bromide	5197-95-5	25.00	1.1543	2
26120	C13H17F3N4O4	prodiamine	29091-21-2	25.00	1.4700	1	26364	C13H22ClN	benzyltriethylammonium chloride	56-37-1	25.00	0.9768	2
26123	C13H17NO	4-benzoyl-N-methylpiperidine	92040-00-1	25.00	0.9690	2	26365	C13H22ClN3O	procainamide hydrochloride	614-39-1	25.00	1.0991	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
26367	C13H22NO3PS	fenamiphos	22224-92-6	20.00	1.1500	1	26638	C14H8Cl4	o,p'-DDE	3424-82-6	25.00	1.4146	2
26368	C13H22N2	dicyclohexylcarbodiimide	538-75-0	25.00	0.9369	2	26639	C14H8F2O2	4,4'-difluorobenzil	579-39-5	25.00	1.3163	2
26369	C13H22N2O	norea	18530-56-8	25.00	0.9844	2	26640	C14H8N2	4,4'-biphenyldicarbonitrile	1591-30-6	25.00	1.2412	2
26372	C13H22N4O3S	triazamate	112143-82-5	25.00	1.2040	2	26642	C14H8N2O3	4,4'-oxybis(phenyl isocyanate)	4128-73-8	25.00	1.3905	2
26373	C13H22O	dicyclohexylmethanone	119-60-8	25.00	0.9860	1	26643	C14H8N2O4	N,N'-o-phenylenedimaleimide	13118-04-2	25.00	1.4343	2
26395	C13H22O6	1,2-O-cyclohexylidene-3-O-methyl-a-D-glucofu*	13322-87-7	25.00	1.1177	2	26644	C14H8N2O4	N,N'-m-phenylenedimaleimide	3006-93-7	25.00	1.4343	2
26403	C13H24	2-tridecyne	28467-75-6	25.00	0.8243	2	26645	C14H8N2O4	N,N'-p-phenylenedimaleimide	3278-31-7	25.00	1.4343	2
26404	C13H24	3-tridecyne	60186-78-9	25.00	0.8243	2	26651	C14H8N2O8S2	5,5'-dithiobis(2-nitrobenzoic acid)	69-78-3	25.00	1.6474	2
26409	C13H24N2O	N,N'-dicyclohexylurea	2387-23-7	25.00	0.9552	2	26652	C14H8N2S4	2,2'-dithiobis(benzothiazole)	120-78-5	25.00	1.5200	1
26410	C13H24N2O3	(R)-(+)-1-(tert-butoxycarbonyl)-2-tert-butyl*	119838-44-7	25.00	1.0417	2	26654	C14H8O2	anthraquinone	84-65-1	0.00	1.4390	2
26414	C13H24N4O3S	5-butyl-2-ethylamino-6-methylpyrimidin-4-yl *	41483-43-6	25.00	1.1713	2	26655	C14H8O2	9,10-phenanthrenedione	84-11-7	22.00	1.4050	1
26415	C13H24O	cyclotridecanone	832-10-0	25.00	0.9270	1	26656	C14H8O2	9H-fluorene-4-carboxylic acid	6954-55-8	21.00	1.4215	2
26416	C13H24O	dicyclohexylmethanol	4453-82-1	25.00	0.8673	2	26657	C14H8O3	dibenz[c,e]oxepin-5,7-dione	6050-13-1	25.00	1.2968	2
26423	C13H24O2	2-tridecenoic acid	6969-16-0	30.00	0.8995	1	26658	C14H8O3	1-hydroxy-9,10-anthracenedione	129-43-1	25.00	1.2968	2
26424	C13H24O2	12-tridecenoic acid	6006-06-0	22.40	0.8792	2	26659	C14H8O3	2-hydroxy-9,10-anthracenedione	605-32-3	25.00	1.2968	2
26431	C13H24O3	(-)-menthyl lactate	59259-38-0	25.00	0.9610	2	26660	C14H8O3	2-hydroxy-9,10-phenanthrenedione	4088-81-7	25.00	1.2968	2
26436	C13H24O4	tridecanedioic acid	505-52-2	20.50	0.9653	2	26661	C14H8O3	3-hydroxy-9,10-phenanthrenedione	57404-54-3	25.00	1.2968	2
26442	C13H25Br3	1,1,1-tribromotridecane	62127-70-2	25.00	1.4784	2	26662	C14H8O3	9-oxo-9H-fluorene-2-carboxylic acid	784-50-9	25.00	1.2968	2
26445	C13H25Cl3	1,1,1-trichlorotridecane	3922-24-5	25.00	1.0392	2	26663	C14H8O4	alizarin	72-48-0	25.00	1.3457	2
26448	C13H25F3	1,1,1-trifluorotridecane	62126-98-1	25.00	0.9350	2	26664	C14H8O4	1,4-dihydroxy-9,10-anthracenedione	81-64-1	25.00	1.3457	2
26451	C13H25I3	1,1,1-triiodotridecane	---	25.00	1.8078	2	26665	C14H8O4	1,5-dihydroxy-9,10-anthracenedione	117-12-4	25.00	1.3457	2
26455	C13H25NO	N-ethyl-p-menthane-3-carboxamide	39711-79-0	25.00	0.8989	2	26666	C14H8O4	1,7-dihydroxy-9,10-anthracenedione	569-08-4	25.00	1.3457	2
26463	C13H25N3OS	1-cyclohexyl-3-(2-morpholinoethyl)thiourea	21545-54-0	25.00	1.0473	2	26667	C14H8O4	1,8-dihydroxy-9,10-anthracenedione	117-10-2	25.00	1.3457	2
26469	C13H26	1-tridecene	2437-56-1	-23.07	0.9318	2	26668	C14H8O4	2,7-dihydroxy-9,10-anthracenedione	572-93-0	25.00	1.3457	2
26472	C13H26Br2	1,1-dibromotridecane	62168-30-3	25.00	1.2698	2	26669	C14H8O4	2,6-dihydroxyanthraquinone	84-60-6	25.00	1.3457	2
26476	C13H26I2	1,1-diiodotridecane	66324-43-4	25.00	1.5205	2	26671	C14H8O5	1,2,3-trihydroxy-9,10-anthracenedione	602-64-2	25.00	1.3915	2
26477	C13H26N2	cis,cis-bis(4-aminocyclohexyl)methane	6693-31-8	25.00	0.9239	2	26672	C14H8O5	1,2,4-trihydroxy-9,10-anthracenedione	81-54-9	25.00	1.3915	2
26478	C13H26N2	cis,trans-bis(4-aminocyclohexyl)methane	6693-30-7	25.00	0.9608	1	26673	C14H8O5	1,2,6-trihydroxy-9,10-anthracenedione	82-29-1	25.00	1.3915	2
26479	C13H26N2	trans,trans-bis(4-aminocyclohexyl)methane	6693-29-4	25.00	0.9239	2	26674	C14H8O5	1,2,7-trihydroxy-9,10-anthracenedione	602-65-3	25.00	1.3915	2
26480	C13H26N2	1,3-di-4-piperidylpropane	16898-52-5	25.00	0.9239	2	26675	C14H8O6	1,2,5,6-tetrahydroxy-9,10-anthracenedione	632-77-9	25.00	1.4346	2
26486	C13H26O	1-tridecanal	10486-19-8	15.00	0.9759	2	26676	C14H8O6	1,2,5,8-tetrahydroxy-9,10-anthracenedione	81-61-8	25.00	1.4346	2
26487	C13H26O	2-tridecanone	593-08-8	30.00	0.8217	1	26677	C14H8O6	1,3,5,7-tetrahydroxy-9,10-anthracenedione	632-82-6	25.00	1.4346	2
26488	C13H26O	3-tridecanone	1534-26-5	27.00	0.8449	2	26678	C14H8O6	1,4,5,8-tetrahydroxyanthraquinone	81-60-7	25.00	1.4346	2
26489	C13H26O	7-tridecanone	462-18-0	30.00	0.8250	1	26681	C14H8O8S2	1,5-anthraquinonedisulfonic acid	117-14-6	25.00	1.5870	2
26492	C13H26O2	tridecanoic acid	638-53-9	41.86	1.0224	2	26682	C14H8O8S2	1,8-anthraquinonedisulfinic acid	82-48-4	25.00	1.5870	2
26502	C13H26O2	butyl nonanoate	50623-57-9	-38.00	1.0503	2	26683	C14H9Br	9-bromophenanthrene	573-17-1	10.00	1.4093	1
26505	C13H26O2	methyl dodecanoate	111-82-0	5.00	1.0310	2	26684	C14H9Br	9-bromoanthracene	1564-64-3	25.00	1.4253	2
26514	C13H26S	thiacyclotetradecane	295-20-5	25.00	0.8740	2	26688	C14H9Cl	1-chloroanthracene	4985-70-0	100.00	1.1707	1
26522	C13H27NO2	1-nitrotridecane	26817-31-2	25.00	0.9184	2	26689	C14H9Cl	2-chloroanthracene	17135-78-3	25.00	1.1965	2
26526	C13H28	tridecane	629-50-5	-5.39	0.9276	2	26690	C14H9Cl	9-chlorophenanthrene	947-72-8	25.00	1.1965	2
26535	C13H28O	1-tridecanol	112-70-9	20.85	0.9600	1	26691	C14H9ClF2N2O2	diflubenzuron	35367-38-5	25.00	1.4301	2
26537	C13H28O	3-tridecanol	10289-68-6	46.00	0.8139	1	26692	C14H9ClN2	4-chloro-2-phenylquinazoline	6484-25-9	25.00	1.2924	2
26539	C13H28O2	1,2-tridecanediol	---	25.00	0.8654	2	26695	C14H9Cl2NO5	bifenox	42576-02-3	25.00	1.5054	2
26540	C13H28O2	1,3-tridecanediol	---	25.00	0.8654	2	26697	C14H9Cl3F2	fluoro-ddt	475-26-3	25.00	1.3867	2
26541	C13H28O2	1,4-tridecanediol	61828-34-0	25.00	0.8654	2	26698	C14H9Cl3N2OS	6-chloro-5-(2,3-dichlorophenoxy)-2-methylthi*	68786-66-3	25.00	1.4874	2
26542	C13H28O2	1,13-tridecanediol	13362-52-2	25.00	0.8654	2	26699	C14H9Cl5	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	25.00	1.4380	2
26543	C13H28O2	1,12-tridecanediol	99706-68-0	25.00	0.8654	2	26700	C14H9Cl5	o,p'-DDT	789-02-6	25.00	1.4380	2
26555	C13H29N	tridecylamine	2869-34-3	20.00	0.8049	1	26701	C14H9Cl5O	1,1-bis(4-chlorophenyl)-2,2,2-trichloroethan*	115-32-2	25.00	1.4694	2
26558	C13H29N	dimethylundecylamine	17373-28-3	25.00	0.7802	1	26703	C14H9F3O	2-(trifluoromethyl)benzophenone	727-99-1	25.00	1.2778	2
26559	C13H29N	diethylnonylamine	45124-35-4	25.00	0.7830	1	26704	C14H9F3O	3-(trifluoromethyl)benzophenone	728-81-4	25.00	1.2778	2
26562	C13H29N	N-methyldihexylamine	37615-53-5	25.00	0.7750	1	26705	C14H9F3O	4-(trifluoromethyl)benzophenone	728-86-9	25.00	1.2778	2
26565	C13H30BrN	decyltrimethylammonium bromide	2082-84-0	25.00	1.0309	2	26707	C14H9F3O2	4,4,4-trifluoro-1-(2-naphthyl)-1,3-butanedio*	893-33-4	25.00	1.3216	2
26574	C14HF27O2	perfluorotetradecanoic acid	376-06-7	25.00	1.7738	2	26709	C14H9N	4-cyanofluorene	41606-44	25.00	1.1604	2
26575	C14H4Cl6O4	bis(2,4,6-trichlorophenyl)oxalate	1165-91-9	25.00	1.7027	2	26710	C14H9NO	4-cyanobenzophenone	1503-49-7	25.00	1.2160	2
26577	C14H4N2O2S2	dithianone	3347-22-6	25.00	1.5689	2	26712	C14H9NO2	1-amino-9,10-anthracenedione	82-45-1	25.00	1.2681	2
26579	C14H4O6	[2]benzopyrano[6,5,4-def][2]benzopyran-1,3,6*	81-30-1	25.00	1.5618	2	26713	C14H9NO2	9-nitroanthracene	602-60-8	25.00	1.2681	2
26581	C14H6Br2O2	2,7-dibromo-9,10-anthracenedione	605-42-5	25.00	1.8489	2	26714	C14H9NO2	2-phenyl-1H-isoindole-1,3(2H)-dione	520-03-6	25.00	1.2681	2
26584	C14H6ClNO4	1-chloro-5-nitroanthraquinone	129-40-8	25.00	1.5066	2	26715	C14H9NO2	2-amino-9,10-anthracenedione	117-79-3	25.00	1.2681	2
26586	C14H6Cl2O2	1,5-dichloroanthraquinone	82-46-2	25.00	1.4384	2	26716	C14H9NO2	bentranil	1022-46-4	25.00	1.2681	2
26587	C14H6Cl2O2	1,8-dichloro-9,10-anthraquinone	82-43-9	25.00	1.4384	2	26717	C14H9NO2	2-nitroanthracene	3586-69-4	25.00	1.2681	2
26590	C14H6Cl4O4	bis(2,4-dichlorobenzoyl) peroxide	133-14-2	25.00	1.5949	2	26719	C14H9NO2	2-nitrophenanthrene	17024-18-9	25.00	1.2681	2
26592	C14H6F8	4,4'-dimethyloctafluorobiphenyl	26475-18-3	25.00	1.4426	2	26721	C14H9NO3	2-amino-1-hydroxy-9,10-anthracenedione	568-99-0	25.00	1.3170	2
26593	C14H6F8O2	4,4'-dimethoxyoctafluorodiphenyl	2200-71-7	25.00	1.5092	2	26722	C14H9NO3	1-amino-4-hydroxyanthraquinone	116-85-8	25.00	1.3170	2
26594	C14H6F20O2	2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-*	4998-38-3	25.00	1.6468	2	26724	C14H9NO4	3-amino-1,2-dihydroxy-9,10-anthracenedione	3963-78-8	25.00	1.3629	2
26595	C14H6N2O6	1,5-dinitro-9,10-anthracenedione	82-35-9	25.00	1.5760	2	26728	C14H10	anthracene	120-12-7	90.00	1.2504	1
26602	C14H7BrO2	1-bromo-9,10-anthracenedione	632-83-7	25.00	1.5722	2	26729	C14H10	diphenylacetylene	501-65-5	62.50	1.1400	2
26603	C14H7BrO2	2-bromo-9,10-anthracenedione	572-83-8	25.00	1.5722	2	26730	C14H10	phenanthrene	85-01-8	99.23	1.1503	1
26606	C14H7ClF3NO5	acifluorfen	50594-66-6	25.00	1.5676	2	26731	C14H10BrN3O	bromazepam	1812-30-2	25.00	1.5554	2
26607	C14H7ClO2	1-chloro-9,10-anthracenedione	82-44-0	25.00	1.3484	2	26733	C14H10ClNO4	(3-chlorophenyl)(4-methoxy-3-nitrophenyl) me*	66938-41-8	25.00	1.3959	2
26608	C14H7ClO2	2-chloro-9,10-anthracenedione	131-09-9	25.00	1.3484	2	26734	C14H10Cl2	cis-alpha,beta-dichlorostilbene	5216-32-0	25.00	1.2492	2
26610	C14H7NO	4-cyano-9-fluorenone	4269-20-9	25.00	1.2714	2	26735	C14H10Cl2	trans-alpha,beta-dichlorostilbene	951-86-0	25.00	1.2492	2
26612	C14H7NO4	1-nitro-9,10-anthracenedione	82-34-8	25.00	1.4205	2	26737	C14H10Cl2O	2-chloro-2,2-diphenylacetyl chloride	2902-98-9	25.00	1.2930	2
26613	C14H7NO4	2-nitro-9,10-anthracenedione	605-27-6	25.00	1.4205	2	26739	C14H10Cl4	1,1-dichloro-2,2-bis(p-chlorophenyl)ethane	72-54-8	25.00	1.3687	2
26614	C14H7NO6	1,2-dihydroxy-3-nitro-9,10-anthracenedione	568-93-4	25.00	1.5052	2	26740	C14H10Cl4	o,p'-DDD	53-19-0	25.00	1.3687	2
26615	C14H7NO6	1,2-dihydroxy-4-nitro-9,10-anthracenedione	2243-71-2	25.00	1.5052	2	26741	C14H10FNO4	(2-fluorophenyl)(4-methoxy-3-nitrophenyl)met*	66938-39-4	25.00	1.3649	2
26628	C14H8Br2	9,10-dibromoanthracene	523-27-3	25.00	1.7167	2	26742	C14H10F3NO2	2-[[3-(trifluoromethyl)phenyl]amino]benzoic *	530-78-9	25.00	1.3380	2
26629	C14H8Br2O2	4,4'-dibromobenzil	35578-47-3	25.00	1.7781	2	26747	C14H10N2O	3,5-diphenyl-1,2,4-oxadiazole	888-71-1	25.00	1.2404	2
26634	C14H8Cl2	9,10-dichloroanthracene	605-48-1	25.00	1.0800	1	26748	C14H10N2O	2,5-diphenyl-1,3,4-oxadiazole	725-12-2	25.00	1.2404	2
26635	C14H8Cl2N4	clofentezine	74115-24-5	25.00	1.4615	2	26752	C14H10N2O2	1,5-diamino-9,10-anthracenedione	129-44-2	25.00	1.2893	2
26637	C14H8Cl4	2,2-dichloro-1,1-bis(4-chlorophenyl)ethene	72-55-9	25.00	1.4146	2	26753	C14H10N2O2	diphenyl N-cyanocarbonimidate	79463-77-7	25.00	1.2893	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
26754	C14H10N2O2	1,4-diaminoanthraquinone	128-95-0	25.00	1.2893	2	26873	C14H12	stilbene	588-59-0	25.00	0.9710	1
26755	C14H10N2O2	2,6-anthraquinonyldiamine	131-14-6	25.00	1.2893	2	26876	C14H12Br2	1,2-dibromo-1,2-diphenylethane	5789-30-0	25.00	1.5908	2
26757	C14H10N2O2	1,8-diaminoanthraquinone	129-42-0	25.00	1.2893	2	26877	C14H12ClNO2	N-(3-chloro-o-tolyl)anthranilic acid	13710-19-5	25.00	1.2658	2
26759	C14H10N2O4	trans-2,4-dinitro-1-(2-phenylvinyl)benzene	56456-42-9	25.00	1.3787	2	26880	C14H12Cl2	1,1-bis(4-chlorophenyl)ethane	3547-04-4	25.00	1.2048	2
26760	C14H10N2O4	cis-1,2-diphenyl-1,2-dinitroethene	1796-05-0	25.00	1.3787	2	26884	C14H12Cl2O	1,1-bis(4-chlorophenyl)ethanol	80-06-8	25.00	1.2479	2
26765	C14H10N4O5	dantrolene	7261-97-4	25.00	1.4955	2	26889	C14H12FNO	4'-(4-fluorophenyl)acetanilide	398-32-3	25.00	1.1828	2
26766	C14H10O	1-anthracenol	610-50-4	25.00	1.1380	2	26893	C14H12F3NO4S2	perfluidone	37924-13-3	25.00	1.4504	2
26767	C14H10O	9-anthracenol	529-86-2	25.00	1.1380	2	26896	C14H12N2	2-benzyl-1H-benzimidazole	621-72-7	25.00	1.1407	2
26768	C14H10O	9(10H)-anthracenone	90-44-8	25.00	1.1380	2	26897	C14H12N2	3,4-dihydro-3-phenylquinazoline	612-97-5	4.00	1.2900	1
26770	C14H10O	2-fluorenecarboxaldehyde	30084-90-3	25.00	1.1380	2	26898	C14H12N2	2,9-dimethyl-1,10-phenanthroline	484-11-7	25.00	1.1407	2
26771	C14H10O	9-phenanthrol	484-17-3	25.00	1.1380	2	26899	C14H12N2	benzalazine	28867-76-7	25.00	1.1407	2
26772	C14H10O	9,10-phenanthrene oxide	585-08-0	25.00	1.1380	2	26900	C14H12N2O	benzil monohydrazone	5344-88-7	25.00	1.1917	2
26773	C14H10OS	6,11-dihydrodibenzo[b,e]thiepin-11-one	1531-77-7	25.00	1.2151	2	26901	C14H12N2O2	N,N'-diphenylethanediamide	620-81-5	25.00	1.2397	2
26775	C14H10O2	benzil	134-81-6	102.00	1.0840	1	26902	C14H12N2O2	4-hydroxyazobenzene acetate	13102-31-3	25.00	1.2397	2
26776	C14H10O2	3,4-phenanthrenediol	478-71-7	25.00	1.1925	2	26903	C14H12N2O2	sym-dibenzoylhydrazine	787-84-8	25.00	1.2397	2
26777	C14H10O2	9H-fluorene-9-carboxylic acid	1989-33-9	25.00	1.1925	2	26904	C14H12N2O2	diphenylglyoxime	23873-81-6	25.00	1.2397	2
26781	C14H10O2S2	dibenzoyldisulfide	644-32-6	25.00	1.3227	2	26905	C14H12N2O2	glyoxalbis(2-hydroxyanil)	1149-16-2	25.00	1.2397	2
26782	C14H10O3	1,2,10-anthracenetriol	577-33-3	25.00	1.2437	2	26910	C14H12N2O2S	zoliridine	1222-57-7	25.00	1.3007	2
26783	C14H10O3	benzoic anhydride	93-97-0	25.00	1.1990	1	26912	C14H12N2O4	4,4'-dinitrobibenzyl	736-30-1	25.00	1.3279	2
26784	C14H10O3	3-benzoylbenzoic acid	579-18-0	25.00	1.2437	2	26913	C14H12N2O4	5,5'-bianthranilic acid	2130-56-5	25.00	1.3279	2
26785	C14H10O3	4-benzoylbenzoic acid	611-95-0	25.00	1.2437	2	26919	C14H12N2S	4-(6-methyl-2-benzothiazolyl)aniline	92-36-4	25.00	1.2130	2
26786	C14H10O3	2-benzoylbenzoic acid	85-52-9	25.00	1.2437	2	26920	C14H12N2S2	4,4-bis(methylthio)-2-phenyl-but-1,3-dien-1,*	---	25.00	1.2747	2
26787	C14H10O3	1,8,9-anthracenetriol	480-22-8	25.00	1.2437	2	26923	C14H12N4O2S	4-amino-N-2-quinoxalinylbenzenesulfonamide	59-40-5	25.00	1.3786	2
26788	C14H10O4	benzoyl peroxide	94-36-0	25.00	1.3340	1	26925	C14H12N4O4	MBD	33984-50-8	25.00	1.4063	2
26789	C14H10O4	[1,1'-biphenyl]-2,2'-dicarboxylic acid	482-05-3	25.00	1.2917	2	26928	C14H12N6O6	panazone	804-36-4	25.00	1.5446	2
26792	C14H10O4S2	2,2'-dithiosalicylic acid	119-80-2	25.00	1.4011	2	26929	C14H12O	1-[1,1'-biphenyl]-4-ylethanone	92-91-1	25.00	1.2510	1
26794	C14H10O5	2-carboxyphenyl 2-hydroxybenzoate	552-94-3	25.00	1.3370	2	26932	C14H12O	(4-methylphenyl)phenylmethanone	134-84-9	25.00	0.9926	1
26795	C14H10O5	1,7-dihydroxy-3-methoxy-9H-xanthen-9-one	437-50-3	25.00	1.3370	2	26933	C14H12O	2-phenylacetophenone	451-40-1	25.00	1.2010	1
26796	C14H10O5	alternariol	641-38-3	25.00	1.3370	2	26935	C14H12O	2,3-epoxy-1,2,3,4-tetrahydroanthracene	176236-88-7	22.67	1.1259	2
26797	C14H10O6	phenicin	128-68-7	25.00	1.3797	2	26936	C14H12O	9-fluorenemethanol	24324-17-2	22.67	1.1259	2
26798	C14H10O9	3,4-dihydroxy-5-[(3,4,5-trihydroxybenzoyl)ox*	536-08-3	25.00	1.4945	2	26937	C14H12O	trans-4-hydroxystilbene	6554-98-9	22.67	1.1259	2
26799	C14H11Br	2-bromo-1,1-diphenylethene	13249-58-6	25.00	1.3681	2	26938	C14H12O	trans-stilbene oxide	1439-07-2	22.67	1.1259	2
26801	C14H11Br	trans-1-bromo-2-(2-phenylvinyl)benzene	54737-45-0	25.00	1.3681	2	26941	C14H12OS	S-benzyl thiobenzoate	13402-51-2	25.00	1.1693	2
26802	C14H11BrN2S2	2-(4-bromophenyl)-4,4-bis(methylthio)buta-1,*	---	25.00	1.5338	2	26942	C14H12O2	benzyl benzoate	120-51-4	19.40	1.3096	2
26803	C14H11BrO	2-bromo-4'-phenylacetophenone	135-73-9	25.00	1.4108	2	26944	C14H12O2	4-methylphenyl benzoate	614-34-6	21.50	1.2062	2
26804	C14H11BrO	2-bromo-2-phenylacetophenone	1484-50-0	25.00	1.4108	2	26945	C14H12O2	benzoin	579-44-2	20.00	1.3100	1
26805	C14H11Cl	1-chloro-2-(trans-2-phenylvinyl)benzene	1657-52-9	25.00	1.1496	2	26946	C14H12O2	2-benzylbenzoic acid	612-35-1	21.50	1.2062	2
26806	C14H11Cl	1-chloro-3-(trans-2-phenylvinyl)benzene	14064-43-8	25.00	1.1496	2	26947	C14H12O2	4-benzylbenzoic acid	620-86-0	21.50	1.2062	2
26808	C14H11Cl	trans-alpha-chlorostilbene	948-98-1	25.00	1.1496	2	26948	C14H12O2	[1,1'-biphenyl]-4-acetic acid	5728-52-9	21.50	1.2062	2
26809	C14H11ClN2	4-amino-2-chlorodiphenylacetonitrile	4760-53-6	25.00	1.2430	2	26949	C14H12O2	(1,1'-biphenyl)-4-ol acetate	148-86-7	21.50	1.2062	2
26811	C14H11ClN2S2	2-(4-chlorophenyl)-4,4-bis(methylthio)-buta-*	---	25.00	1.3554	2	26950	C14H12O2	(2-methoxyphenyl)phenylmethanone	2553-04-0	21.50	1.2062	2
26813	C14H11ClO	2-chloro-1,2-diphenylethanone	447-31-4	25.00	1.1992	2	26951	C14H12O2	(3-methoxyphenyl)phenylmethanone	6136-67-0	21.50	1.2062	2
26814	C14H11ClO	alpha-phenylbenzeneacetyl chloride	1871-76-7	25.00	1.1992	2	26952	C14H12O2	(4-methoxyphenyl)phenylmethanone	611-94-9	21.50	1.2062	2
26815	C14H11ClO2	5-chloro-2-hydroxy-4-methylbenzophenone	68751-90-6	25.00	1.2460	2	26953	C14H12O2	alpha-phenylbenzeneacetic acid	117-34-0	15.00	1.2570	1
26816	C14H11Cl2NO2	N-(2,6-dichloro-m-tolyl)anthranilic acid	644-62-2	25.00	1.3496	2	26954	C14H12O2	trans-5-(2-phenylvinyl)-1,3-benzenediol	22139-77-1	21.50	1.2062	2
26821	C14H11N	2-anthracenamine	613-13-8	25.00	1.1118	2	26955	C14H12O2	3-benzyloxybenzaldehyde	1700-37-4	21.50	1.2062	2
26822	C14H11N	9-phenanthrenamine	947-73-9	25.00	1.1118	2	26956	C14H12O2	4-benzyloxybenzaldehyde	4397-53-9	21.50	1.2062	2
26823	C14H11N	alpha-phenylbenzeneacetonitrile	86-29-3	25.00	1.1118	2	26957	C14H12O2	2-benzyloxybenzaldehyde	5896-17-3	25.00	1.3390	1
26824	C14H11N	2-phenyl-1H-indole	948-65-2	25.00	1.1118	2	26958	C14H12O2	2-hydroxy-5-methylbenzophenone	1470-57-1	21.50	1.2062	2
26825	C14H11N	iminostilbene	256-96-2	25.00	1.1118	2	26960	C14H12O2	4'-phenoxyacetophenone	5031-78-7	21.50	1.2062	2
26826	C14H11N	9-methylacridine	611-64-3	25.00	1.1118	2	26961	C14H12O2	phenyl phenylacetate	722-01-0	21.50	1.2062	2
26827	C14H11N	2-phenylindolizine	25379-20-8	25.00	1.1118	2	26966	C14H12O2S	2-phenylmercaptomethylbenzoic acid	1699-03-2	25.00	1.2163	2
26828	C14H11N	9-vinylcarbazole	1484-13-5	25.00	1.1118	2	26968	C14H12O3	(2-hydroxy-4-methoxyphenyl)phenylmethanone	131-57-7	22.50	1.1345	2
26829	C14H11N	1-aminophenanthrene	4176-53-8	25.00	1.1118	2	26969	C14H12O3	alpha-hydroxy-alpha-phenylbenezeneacetic acid	76-93-7	22.50	1.1345	2
26830	C14H11N	1-anthracenamine	610-49-1	25.00	1.1118	2	26970	C14H12O3	2-methoxyphenol benzoate	531-37-3	22.50	1.1345	2
26831	C14H11N	2-phenanthrylamine	3366-65-2	25.00	1.1118	2	26971	C14H12O3	xanthyletin	553-19-5	22.50	1.1345	2
26832	C14H11N	3-phenanthrylamine	1892-54-2	25.00	1.1118	2	26972	C14H12O3	benzyl 4-hydroxybenzoate	94-18-8	22.50	1.1345	2
26833	C14H11NO	9-acetyl-9H-carbazole	574-39-0	100.00	1.1580	1	26974	C14H12O3	4-phenoxyphenylacetic acid	6328-74-1	22.50	1.1345	2
26834	C14H11NO	10-methyl-9(10H)-acridone	719-54-0	62.50	1.1410	2	26975	C14H12O3	4,5',8-trimethylpsoralen	3902-71-4	22.50	1.1345	2
26835	C14H11NO	2-methyl-5-phenylbenzoxazole	61931-68-8	62.50	1.1410	2	26980	C14H12O3S	2-(phenylsulfonyl)acetophenone	3406-03-9	25.00	1.2607	2
26839	C14H11NO	N-phenylphthalimidine	5388-42-1	62.50	1.1410	2	26981	C14H12O3S	surgam	33005-95-7	25.00	1.2607	2
26842	C14H11NO2	9H-carbazole-9-acetic acid	524-80-1	25.00	1.2172	2	26983	C14H12O4	(2,6-dihydroxy-4-methoxyphenyl)phenylmethano*	479-21-0	25.00	1.2428	2
26843	C14H11NO2	cis-1-nitro-2-(2-phenylvinyl)benzene	52208-62-5	25.00	1.2172	2	26985	C14H12O4	dimethyl 2,3-naphthalenedicarboxylate	13728-34-2	25.00	1.2428	2
26844	C14H11NO2	trans-1-nitro-2-(2-phenylvinyl)benzene	4264-29-3	25.00	1.2172	2	26986	C14H12O4	piceatannol	10083-24-6	25.00	1.2428	2
26845	C14H11NO2	4-benzyloxyphenyl isocyanate	50528-73-9	25.00	1.2172	2	26987	C14H12O4	2,6-naphthalenedicarboxylic acid, dimethyl e*	840-65-3	25.00	1.2428	2
26846	C14H11NO2	9-hydroxy-4-methoxyacridine	35308-00-0	25.00	1.2172	2	26987.1	C14H12O4	dimethyl-2,6-naphthalenedicarboxylate	840-65-3	191.35	1.3165	2
26853	C14H11NO3	3-(benzoylamino)benzoic acid	587-54-2	4.00	1.5100	1	26988	C14H12O5	khellin	82-02-0	25.00	1.2874	2
26854	C14H11NO3	(4-methyl-2-nitrophenyl)phenylmethanone	100224-75-7	25.00	1.2653	2	26990	C14H12S	4,6-dimethyldibenzothiophene	1207-12-1	25.00	1.1196	2
26855	C14H11NO3	(4-methylphenyl)(4-nitrophenyl)methanone	5350-47-0	25.00	1.2653	2	26991	C14H12S2	2,7-dimethylthianthrene	135-58-0	25.00	1.1909	2
26858	C14H11NO4	4-(benzoylamino)-2-hydroxybenzoic acid	13898-58-3	25.00	1.3106	2	27004	C14H13N	9-ethyl-9H-carbazole	86-28-2	80.00	1.0590	1
26859	C14H11NO4	diphenylamine-2,2'-dicarboxylic acid	579-92-0	25.00	1.3106	2	27006	C14H13N	3-methyl-N-(phenylmethylene)aniline	5877-58-7	25.00	1.0390	1
26861	C14H11NS	2-methyl-6-phenylbenzothiazole	107559-02-4	25.00	1.1898	2	27007	C14H13N	4-methyl-N-(phenylmethylene)aniline	2272-45-9	37.50	1.0443	2
26862	C14H11N3	3,5-diphenyl-S-triazole	2039-06-7	25.00	1.2137	2	27009	C14H13N	iminodibenzyl	494-19-9	37.50	1.0443	2
26864	C14H11N3O3S	nocodazole	31430-18-9	25.00	1.4033	2	27010	C14H13N	trans-4-aminostilbene	4309-66-4	37.50	1.0443	2
26866	C14H12	cis-stilbene	645-49-8	2.50	1.2005	2	27013	C14H13NO	N-(1,1'-biphenyl)-2-ylacetamide	2113-47-5	15.00	1.1923	2
26867	C14H12	trans-stilbene	103-30-0	124.20	1.1480	1	27014	C14H13NO	N,N-diphenylacetamide	519-87-9	15.00	1.1923	2
26869	C14H12	9,10-dihydroanthracene	613-31-0	20.00	1.2150	1	27015	C14H13NO	[2-(methylamino)phenyl]phenylmethanone	1859-76-3	15.00	1.1923	2
26870	C14H12	9,10-dihydrophenanthrene	776-35-2	40.00	1.0757	1	27016	C14H13NO	N-(2-methylphenyl)benzamide	584-70-3	15.00	1.2050	1
26871	C14H12	1-methylfluorene	1730-37-6	31.57	1.0414	2	27017	C14H13NO	N-(3-methylphenyl)benzamide	582-77-4	15.00	1.1700	1
26872	C14H12	9-methyl-9H-fluorene	2523-37-7	66.00	1.0263	1	27018	C14H13NO	N-(4-methylphenyl)benzamide	582-78-5	15.00	1.2020	1

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
27019	C14H13NO	2-amino-4'-methylbenzophenone	36192-63-9	15.00	1.1923	2	27179	C14H14O3	1-methoxy-2-(3-methoxyphenoxy)benzene	1655-71-6	25.00	1.1517	2
27020	C14H13NO	N-benzylbenzamide	1485-70-7	15.00	1.1923	2	27180	C14H14O3	2-pivaloyl-1,3-indandione	83-26-1	25.00	1.1517	2
27023	C14H13NO	2-methyl-N-phenylbenzamide	7055-03-0	15.00	1.1923	2	27181	C14H14O3	gonosan	500-64-1	25.00	1.1517	2
27024	C14H13NO	3'-phenylacetanilide	2113-54-4	15.00	1.1923	2	27183	C14H14O3	(+)-2-(methoxy-2-naphthyl)-propionic acid	22204-53-1	25.00	1.1517	2
27025	C14H13NO	4'-phenylacetanilide	4075-79-0	15.00	1.1923	2	27188	C14H14O8	tetramethyl 1,2,4,5-benzenetetracarboxylate	635-10-9	25.00	1.3607	2
27026	C14H13NO2	a-benzoin oxime	441-38-3	25.00	1.1711	2	27189	C14H14S	benzyl sulfide	538-74-9	50.00	1.0583	1
27027	C14H13NO2	a,a-diphenylglycine	3060-50-2	25.00	1.1711	2	27190	C14H14S	bis(2-methylphenyl) sulfide	4537-05-7	32.50	1.0679	2
27034	C14H13NO2	N-(p-tolyl)anthranilic acid	16524-23-5	25.00	1.1711	2	27191	C14H14S	bis(4-methylphenyl) sulfide	620-94-0	32.50	1.0679	2
27038	C14H13NO4	4,7,8-trimethoxyfuro[2,3-b]quinoline	83-95-4	25.00	1.2629	2	27192	C14H14S	3,4'-ditolyl sulfide	107770-92-3	32.50	1.0679	2
27039	C14H13NO4	aniline hydrogen phthalate	50930-79-5	25.00	1.2629	2	27195	C14H14S2	bis(4-methylphenyl) disulfide	103-19-5	51.00	1.1140	1
27040	C14H13NO4S	4-[(benzylsulfonyl)amino]benzoic acid	536-95-8	25.00	1.3191	2	27196	C14H14S2	dibenzyl disulfide	150-60-7	25.00	1.1502	2
27041	C14H13NO7	lycorcidinol	29477-83-6	25.00	1.3832	2	27197	C14H14S3	benzyl trisulfide	6493-73-8	25.00	1.2119	2
27042	C14H13N3	2-amino-1-benzylbenzimidazole	43182-10-1	25.00	1.1670	2	27201	C14H15BrClNO6	5-bromo-4-chloro-3-indolyl-b-D-galactoside	7240-90-6	25.00	1.5563	2
27044	C14H13N3O	4'-phenylazoacetanilide	4128-71-6	25.00	1.2150	2	27204	C14H15Cl2N	chlornaphazine	494-03-1	25.00	1.1855	2
27047	C14H13N3O4S	2-nitrobenzaldehyde tosylhydrazone	58809-90-8	25.00	1.3924	2	27209	C14H15IN2O4S	N-iodoacetyl-N'-(5-sulfo-1-naphthyl)ethylene*	36930-63-9	25.00	1.6533	2
27052	C14H14	1,1-diphenylethane	612-00-0	-17.95	1.2030	2	27211	C14H15N	N-(2-methylphenyl)benzenemethanamine	5405-13-0	65.00	1.0142	1
27053	C14H14	1,2-diphenylethane	103-29-7	51.19	1.1511	1	27216	C14H15N	2-methyl-N-(2-methylphenyl)aniline	617-00-5	35.78	1.0256	2
27058	C14H14	2,3'-trimethylbiphenyl	611-43-8	20.00	0.9924	1	27218	C14H15N	4-methyl-N-(4-methylphenyl)aniline	620-93-9	35.78	1.0256	2
27059	C14H14	2,4'-dimethlbiphenyl	611-61-0	20.00	0.9924	1	27219	C14H15N	2-(2-phenylethyl)aniline	5697-85-8	20.00	1.0430	1
27062	C14H14	4,4'-dimethylbiphenyl	613-33-2	121.00	0.9170	1	27221	C14H15N	2,2-diphenylethylamine	3963-62-0	35.78	1.0256	2
27065	C14H14	4-ethylbiphenyl	5707-44-8	29.00	0.9900	2	27226	C14H15NO	N,N-dibenzylhydroxylamine	621-07-8	25.00	1.0801	2
27066	C14H14	2,3-dimethylbiphenyl	3864-18-4	29.00	0.9900	2	27230	C14H15NO2	coumarin 138	62669-74-3	25.00	1.1290	2
27067	C14H14	3,4-dimethylbiphenyl	4433-11-8	20.00	1.0087	1	27234	C14H15NO3	(N-crotonyl)-(4S)-benzyl-2-oxazolidinone	90719-30-5	25.00	1.1753	2
27069	C14H14	1,3-dimethyl-4-phenyl benzene	---	29.00	0.9900	2	27236	C14H15NO7	laetrile	1332-94-1	25.00	1.3380	2
27070	C14H14	1,3-dimethyl-5-phenyl benzene	---	29.00	0.9900	2	27237	C14H15N3	p-(dimethylamino)azobenzene	60-11-7	25.00	1.1246	2
27071	C14H14	1,4-dimethyl-2-phenyl benzene	---	29.00	0.9900	2	27238	C14H15N3	2',3-dimethyl-4-aminoazobenzene	97-56-3	25.00	1.1246	2
27072	C14H14	2,5-dimethylbiphenyl	7372-85-2	20.00	0.9931	1	27239	C14H15N3	p-amino-2':3-azotoluene	3398-09-2	25.00	1.1246	2
27073	C14H14	2,4-dimethylbiphenyl	4433-10-7	20.00	0.9470	1	27240	C14H15N3	4'-amino-4,2'-azotoluene	3963-79-9	25.00	1.1246	2
27075	C14H14	1,2,3,4-tetrahydrophenanthrene	1013-08-7	40.00	1.0601	1	27242	C14H15N3	2,3-dimethyl-4-(phenylazo)benzenamine	36576-23-5	25.00	1.1246	2
27084	C14H14ClN3O2S	(4-chloro-6-(2,3-xylidino)-2-pyrimidinylthio*	50892-23-4	25.00	1.3502	2	27258	C14H15O3Br	trans-2-(4-bromobenzoyl)-1-cyclohexane-carbo*	212757-09-0	25.00	1.3874	2
27085	C14H14Cl2N2O	imazalil	35554-44-0	23.00	1.2430	1	27259	C14H15O3Br	cis-2-(4-bromobenzoyl)-1-cyclohexane-carboxy*	85603-41-4	25.00	1.3874	2
27096	C14H14NO4PS	ethyl p-nitrophenyl benzenethiophosphate	2104-64-5	25.00	1.2700	1	27260	C14H15O3Cl	trans-2-(p-chlorobenzoyl)-1-cyclohexanecarbo*	52240-19-4	25.00	1.2034	2
27097	C14H14N2	trans-bis(3-methylphenyl)diazene	51437-67-3	66.00	1.0123	1	27261	C14H15O3Cl	cis-2-(p-chlorobenzoyl)-1-cyclohexanecarboxy*	52240-18-3	25.00	1.2034	2
27098	C14H14N2	trans-4,4'-diaminostilbene	7314-06-9	65.50	1.0169	2	27262	C14H15O3F	cis-2-(4-fluorobenzoyl)-1-cyclohexane-carbox*	154810-33-0	25.00	1.1677	2
27099	C14H14N2	2,2'-dimethylazobenzene	584-90-7	65.00	1.0215	1	27263	C14H15O3F	trans-2-(4-fluorobenzoyl)-1-cyclohexane-carb*	111857-42-2	25.00	1.1677	2
27100	C14H14N2	3-amino-9-ethylcarbazole	132-32-1	65.50	1.0169	2	27267	C14H16	1-butylnaphthalene	1634-09-9	-19.72	1.1739	2
27106	C14H14N2O	cis-bis(2-methylphenyl)diazene 1-oxide	51284-68-5	65.00	1.0215	1	27269	C14H16	1-sec-butylnaphthalene	1680-58-6	20.00	0.9742	1
27108	C14H14N2O	cis-bis(3-methylphenyl)diazene 1-oxide	71297-97-7	66.00	1.0123	1	27270	C14H16	2-sec-butylnaphthalene	4614-03-3	22.64	0.9799	2
27109	C14H14N2O	trans-bis(3-methylphenyl)diazene 1-oxide	116723-90-1	66.00	1.0123	1	27272	C14H16	2-isobutylnaphthalene	26490-07-3	22.64	0.9799	2
27110	C14H14N2O	(4-ethoxyphenyl)phenyldiazene	7466-38-8	100.00	1.0400	1	27275	C14H16	1-methyl-2-propylnaphthalene	39036-65-2	22.64	0.9799	2
27111	C14H14N2O	N-methyl-N,N'-diphenylurea	612-01-1	72.40	1.0215	2	27276	C14H16	2-methyl-1-propylnaphthalene	54774-89-9	22.64	0.9799	2
27112	C14H14N2O	2-methyl-1,2-di-3-pyridinyl-1-propanone	54-36-4	72.40	1.0215	2	27277	C14H16	3-methyl-2-propylnaphthalene	66577-19-3	22.64	0.9799	2
27113	C14H14N2O	N,N-dimethylindoaniline	2150-58-5	72.40	1.0215	2	27278	C14H16	2-methyl-1-isopropylnaphthalene	32114-79-7	22.64	0.9799	2
27114	C14H14N2O	1-methyl-3,3-diphenylurea	13114-72-2	72.40	1.0215	2	27279	C14H16	3-methyl-2-isopropylnaphthalene	66577-18-2	22.64	0.9799	2
27115	C14H14N2O	N-acetylbenzidine	3366-61-8	72.40	1.0215	2	27280	C14H16	1-methyl-3-isopropylnaphthalene	66577-16-0	22.64	0.9799	2
27117	C14H14N2O	4'-hydroxy-2,3'-azotoluene	57598-00-2	72.40	1.0215	2	27281	C14H16	1-methyl-4-isopropylnaphthalene	1680-53-1	14.00	0.9934	1
27119	C14H14N2O	oil yellow HA	6370-43-0	72.40	1.0215	2	27282	C14H16	1-methyl-6-isopropylnaphthalene	10136-83-1	22.64	0.9799	2
27123	C14H14N2O3	4,4'-azoxyanisole	1562-94-3	25.00	1.2392	2	27283	C14H16	1-methyl-7-isopropylnaphthalene	490-65-3	20.00	0.9740	1
27126	C14H14N2O4S	phenazine methosulfate	299-11-6	25.00	1.3342	2	27284	C14H16	2-methyl-8-isopropylnaphthalene	---	22.64	0.9799	2
27132	C14H14N4	rolodine	1866-43-9	25.00	1.1910	2	27285	C14H16	1,2-diethylnaphthalene	19182-11-7	22.64	0.9799	2
27136	C14H14N4O2S	cambendazole	26097-80-3	25.00	1.3327	2	27287	C14H16	1,6-diethylnaphthalene	19182-13-9	22.64	0.9799	2
27138	C14H14O	dibenzyl ether	103-50-4	3.60	1.2372	2	27288	C14H16	1,7-diethylnaphthalene	66577-37-5	22.64	0.9799	2
27141	C14H14O	bis(4-methylphenyl) ether	1579-40-4	34.44	1.0591	2	27289	C14H16	2,3-diethylnaphthalene	66610-91-1	22.64	0.9799	2
27142	C14H14O	3-ethoxy-1,1'-biphenyl	54852-73-2	34.44	1.0591	2	27289.1	C14H16	2,6-diethylnaphthalene	59919-41-4	49.00	1.1683	2
27146	C14H14O	alpha-phenylbenzeneethanol, (±)	63180-94-9	70.00	1.0360	1	27290	C14H16	2,4-dimethyl-1-ethylnaphthalene	66577-14-8	22.64	0.9799	2
27147	C14H14O	alpha-phenylbenzeneethanol, (S)	5773-56-8	70.00	1.0358	1	27291	C14H16	4,6-dimethyl-1-ethylnaphthalene	66577-15-9	22.64	0.9799	2
27148	C14H14O	beta-phenylbenzeneethanol	1883-32-5	34.44	1.0591	2	27292	C14H16	2,5-dimethyl-3-ethylnaphthalene	---	22.64	0.9799	2
27150	C14H14O	2-benzylbenzyl alcohol	1586-00-1	34.44	1.0591	2	27293	C14H16	1,2-dimethyl-4-ethylnaphthalene	66577-38-6	22.64	0.9799	2
27151	C14H14O	1,1-diphenylethanol	599-67-7	34.44	1.0591	2	27294	C14H16	1,3-dimethyl-5-ethylnaphthalene	66577-40-0	22.64	0.9799	2
27152	C14H14O	4-methylbenzhydrol	1517-63-1	34.44	1.0591	2	27296	C14H16	1,3-dimethyl-6-ethylnaphthalene	39622-45-2	22.64	0.9799	2
27153	C14H14O	2-methylbenzhydrol	7111-76-4	34.44	1.0591	2	27297	C14H16	1,4-dimethyl-6-ethylnaphthalene	66610-92-2	22.64	0.9799	2
27154	C14H14O	a-o-tolylbenzyl alcohol	5472-13-9	34.44	1.0591	2	27298	C14H16	1,2-dimethyl-7-ethylnaphthalene	66577-39-7	22.64	0.9799	2
27156	C14H14OS	dibenzyl sulfoxide	621-08-9	25.00	1.1276	2	27299	C14H16	1,2,3,4-tetramethylnaphthalene	3031-15-0	22.64	0.9799	2
27157	C14H14O2	2,2'-dimethoxy-1,1'-biphenyl	4877-93-4	25.00	1.2680	1	27300	C14H16	1,2,3,6-tetramethylnaphthalene	66577-20-6	22.64	0.9799	2
27158	C14H14O2	3,3'-dimethoxy-1,1'-biphenyl	6161-50-8	25.00	1.1790	2	27301	C14H16	1,2,4,6-tetramethylnaphthalene	66577-21-7	22.64	0.9799	2
27159	C14H14O2	4,4'-dimethoxy-1,1'-biphenyl	2132-80-1	25.00	1.1790	2	27303	C14H16	1,2,4,8-tetramethylnaphthalene	66577-22-8	22.64	0.9799	2
27160	C14H14O2	3,3'-dimethyl-[1,1'-biphenyl]-2,2'-diol	32750-14-4	25.00	1.1790	2	27304	C14H16	1,2,5,6-tetramethylnaphthalene	2131-43-3	22.64	0.9799	2
27161	C14H14O2	5,5'-dimethyl-[1,1'-biphenyl]-2,2'-diol	15519-73-0	25.00	1.1790	2	27305	C14H16	1,2,5,8-tetramethylnaphthalene	3031-16-1	22.64	0.9799	2
27162	C14H14O2	1,2-diphenoxyethane	104-66-5	25.00	1.1790	2	27306	C14H16	1,2,6,8-tetramethylnaphthalene	66577-00-2	22.64	0.9799	2
27163	C14H14O2	1,2-diphenylethanediol, (R*,R*)-(±)	655-48-1	25.00	1.1790	2	27307	C14H16	1,3,5,8-tetramethylnaphthalene	14558-12-4	22.64	0.9799	2
27164	C14H14O2	ethyl 1-naphthylacetate	2122-70-5	25.00	1.1790	2	27308	C14H16	1,3,6,7-tetramethylnaphthalene	7435-50-9	22.64	0.9799	2
27165	C14H14O2	3-benzyloxybenzyl alcohol	1700-30-7	25.00	1.1790	2	27309	C14H16	1,4,5,8-tetramethylnaphthalene	2717-39-7	22.64	0.9799	2
27166	C14H14O2	4-benzyloxybenzyl alcohol	836-43-1	25.00	1.1790	2	27310	C14H16	1,4,6,7-tetramethylnaphthalene	13764-18-6	22.64	0.9799	2
27167	C14H14O2	(S,S)-(-)-1,2-diphenyl-1,2-ethanediol	2325-10-2	25.00	1.1790	2	27311	C14H16	2,3,6,7-tetramethylnaphthalene	1134-40-3	22.64	0.9799	2
27168	C14H14O2	(R,R)-(+)-1,2-diphenyl-1,2-ethanediol	52340-78-0	25.00	1.1790	2	27312	C14H16	1,2,3,4,5,6-hexahydroanthracene	6109-22-4	22.64	0.9799	2
27169	C14H14O2	6'-methoxy-2'-propiononaphthone	2700-47-2	25.00	1.1790	2	27313	C14H16	7-methyl-1-isopropylnaphthalene	66577-17-1	20.00	0.9833	1
27174	C14H14O2S	bis(4-methylphenyl) sulfone	599-66-6	25.00	1.1737	2	27314	C14H16	1,3,6,8-tetramethylnaphthalene	14558-14-6	22.64	0.9799	2
27175	C14H14O2S	dibenzyl sulfone	620-32-6	25.00	1.1737	2	27318	C14H16BrN	1-phenethyl-2-picolinium bromide	10551-21-0	25.00	1.2868	2
27177	C14H14O3	bis(2-methoxyphenyl) ether	1655-70-5	25.00	1.1517	2	27320	C14H16ClN3O2	bayleton	43121-43-3	20.00	1.2200	1
27178	C14H14O3	equol	531-95-3	25.00	1.1517	2	27321	C14H16ClN3O4S2	cyclothiazide	2259-96-3	25.00	1.4145	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
27322	C14H16ClN5O5S	triasulfuron	82097-50-5	25.00	1.4656	2	27506.1	C14H18O8	di-1-glyceryl terephthalate	66032-51-76	124.25	1.1275	2
27323	C14H16ClO5PS	coumaphos	56-72-4	25.00	1.4740	1	27507	C14H19BrO5	4'-bromobenzo-15-crown-5	60835-72-5	25.00	1.3694	2
27326	C14H16F3N3O4	profluralin	26399-36-0	25.00	1.3516	2	27508	C14H19BrO9	2,3,4,6-tetra-O-acetyl-a-D-galactopyranosyl *	3068-32-4	25.00	1.4898	2
27327	C14H16FeO	butyrylferrocene	1271-94-9	25.00	1.2540	1	27510	C14H19ClO	4'-tert-butyl-4-chlorobutyrophenone	43076-61-5	25.00	1.0452	2
27330	C14H16N2	4,4'-diaminostilbene	621-95-4	25.00	1.0583	2	27513	C14H19Cl2NO2	chlorambucil	305-03-3	25.00	1.1908	2
27331	C14H16N2	N,N'-diphenyl-1,2-ethanediamine	150-61-8	25.00	1.0583	2	27521	C14H19NO2	(+)-2-methylbutyl-p-aminocinnamate	62742-50-1	25.00	1.0552	2
27332	C14H16N2	1,2-di(m-tolyl)hydrazine	621-26-1	25.00	1.0583	2	27522	C14H19NO2	1-methyl-6,7-diethoxy-3,4-dihydroisoquinoline	99155-80-3	25.00	1.0552	2
27333	C14H16N2	1,2-di(p-tolyl)hydrazine	637-47-8	20.00	0.9570	1	27523	C14H19NO2	methylphenidate	113-45-1	25.00	1.0552	2
27334	C14H16N2	o-tolidine	119-93-7	25.00	1.0583	2	27527	C14H19NO4	(S)-N-boc-3-amino-3-phenylpropanoic acid	103365-47-5	25.00	1.1420	2
27335	C14H16N2	2,2'-diaminobibenzyl	34124-14-6	25.00	1.0583	2	27528	C14H19NO4	(R)-N-boc-3-amino-3-phenylpropanoic acid	161024-80-2	25.00	1.1420	2
27336	C14H16N2	(1S,2S)-(-)-1,2-diphenyl-1,2-ethanediamine	29841-69-8	25.00	1.0583	2	27529	C14H19NO4	DL-N-benzoyl-2-isobutylserine	52421-47-3	25.00	1.1420	2
27337	C14H16N2	(1R,2R)-(+)-1,2-diphenyl-1,2-ethanediamine	35132-20-8	25.00	1.0583	2	27530	C14H19NO4	boc-L-phenylalanine	13734-34-4	25.00	1.1420	2
27339	C14H16N2O	(-)-2-cyano-6-phenyloxazolopiperidine	88056-92-2	25.00	1.1071	2	27531	C14H19NO4	boc-D-phenylalanine	18942-49-9	25.00	1.1420	2
27345	C14H16N2O2	3,3'-dimethoxybenzidine	119-90-4	25.00	1.1533	2	27532	C14H19NO4	6-(carbobenzyloxyamino)caproic acid	1947-00-8	25.00	1.1420	2
27347	C14H16N2O2	1,4-bis-(1-isocyanato-1-methylethyl)benzene	2778-41-8	25.00	1.1533	2	27533	C14H19NO4	N-carbobenzyloxy-l-isoleucine	3160-59-6	25.00	1.1420	2
27353	C14H16N2O3	5,5-diethyl-1-phenyl-2,4,6(1H,3H,5H)-pyrimid*	357-67-5	25.00	1.1971	2	27539	C14H19NO4S	tritiozine	35619-65-9	25.00	1.1996	2
27355	C14H16N2O4	phthalazinol	56611-65-5	25.00	1.2387	2	27540	C14H19NO5	boc-L-tyrosine	3978-80-1	25.00	1.1822	2
27358	C14H16N4	N,N-dimethyl-4,4'-azodianiline	539-17-3	25.00	1.1493	2	27541	C14H19NO5	boc-D-tyrosine	70642-86-3	25.00	1.1822	2
27359	C14H16N4	1-(2-(1,3-dimethyl-2-butenylidene)hydrazino)*	36798-79-5	25.00	1.1493	2	27543	C14H19NO5	trimethoxazine	635-41-6	25.00	1.1822	2
27373	C14H16N4O3	panacid	19562-30-2	25.00	1.2760	2	27544	C14H19NO7	nitrobenzo-18-crown-6	53408-96-1	25.00	1.2574	2
27374	C14H16O	isobutyl 2-naphthyl ether	2173-57-1	25.00	1.0130	2	27545	C14H19NO7	nitrobenzo-15-crown-5	60835-69-0	25.00	1.2574	2
27377	C14H16O3	cis-2-benzoyl-1-cyclohexanecarboxylic acid	6939-99-7	25.00	1.1117	2	27549	C14H19N3O	4-(isopropylamino)antipyrine	3615-24-5	25.00	1.0953	2
27378	C14H16O3	trans-2-benzoyl-1-cyclohexanecarboxylic acid	---	25.00	1.1117	2	27550	C14H19N3O	xilobam	50528-97-7	25.00	1.0953	2
27379	C14H16O3	dihydrokavain	587-63-3	25.00	1.1117	2	27554	C14H19N3O9	2,3,4,6-tetra-O-acetyl-b-D-glucopyranosylazi*	13992-25-1	25.00	1.3883	2
27380	C14H16O3	fraxinellone	28808-62-0	25.00	1.1117	2	27555	C14H19N3O9	2,3,4,6-tetra-O-acetyl-a-D-glucopyranosylazi*	20369-61-3	25.00	1.3883	2
27383	C14H16O4	diethyl benzylidenemalonate	5292-53-5	20.00	1.1045	1	27566.1	C14H20	diamantane	2292-79-7	25.00	1.0700	1
27384	C14H16O4	4-trans-phenylcyclohexane-(1R,2-cis)-dicarbo*	36299-64-6	25.00	1.1571	2	27572	C14H20ClNO2	alachlor	15972-60-8	25.00	1.1330	1
27385	C14H16O9	bergenin	477-90-7	25.00	1.3529	2	27582	C14H20N2O3S	1-cyclohexyl-3-p-tolysulfonylurea	664-95-9	25.00	1.1807	2
27395	C14H17N	cyclohexylphenylacetonitrile	3893-23-0	23.75	1.0048	2	27583	C14H20N2O4	Ne-carbobenzyloxy-L-lysine	1155-64-2	25.00	1.1628	2
27403	C14H17N3O9	2-(2',3',5'-triacetyl-b-D-ribofuranosyl)-as-*	2169-64-4	25.00	1.4287	2	27585	C14H20N2O6S	p-methylaminophenolsulfate	55-55-0	25.00	1.2856	2
27404	C14H17N5O3	pipram	51940-44-4	25.00	1.2924	2	27586	C14H20N4O4	Na-carbobenzyloxy-L-arginine	1234-35-1	25.00	1.2354	2
27406	C14H17NO	1-(4-methoxyphenyl)cyclohexanecarbonitrile	36263-51-1	25.00	1.0427	2	27587	C14H20N4O4	Na-carbobenzyloxy-D-arginine	6382-93-0	25.00	1.2354	2
27408	C14H17NO2	7-diethylamino-4-methylcoumarin	91-44-1	25.00	1.0906	2	27588	C14H20N4O8	2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-b-D-g*	6205-69-2	25.00	1.3687	2
27409	C14H17NO3	ethyl 2-ethoxy-1(2H)-quinolinecarboxylate	16357-59-8	25.00	1.1359	2	27591	C14H20O	4'-tert-butyl-2',6'-dimethylacetophenone	2040-10-0	25.00	0.9470	2
27410	C14H17NO3	2-acetyl-6,7-dimethoxy-1-methylene-1,2,3,4-t*	57621-04-2	25.00	1.1359	2	27597	C14H20O2	2,6-di-tert-butyl-1,4-benzoquinone	719-22-2	25.00	0.9953	2
27411	C14H17NO4	DL-5-benzoylamino-5-isopropyl-4-oxo-1,3-diox*	51127-25-4	25.00	1.1790	2	27599	C14H20O2	3,5-di-tert-butyl-o-benzoquinone	3383-21-9	25.00	0.9953	2
27413	C14H17NO6	mandelonitrile glucoside	138-53-4	25.00	1.2590	2	27605	C14H20O3	n-heptyl 4-hydroxybenzoate	1085-12-7	25.00	1.0411	2
27414	C14H17NO6	N-carbobenzyloxy-L-glutamic acid 1-methylest*	5672-83-3	25.00	1.2590	2	27606	C14H20O3	4-n-heptyloxybenzoic acid	15872-42-1	25.00	1.0411	2
27415	C14H17O5PS	potasan	299-45-6	38.00	1.2600	1	27610	C14H20O5	benzo-15-crown-5	14098-44-3	25.00	1.1264	2
27416	C14H18	1,2,3,4,5,6,7,8-octahydroanthracene	1079-71-6	80.00	0.9703	1	27613	C14H20O8	tetraethyl ethylenetetracarboxylate	6174-95-4	25.00	1.2402	2
27420	C14H18BrNO4	(S)-N-boc-3-amino-3-(4-bromophenyl)propanoic*	261165-06-4	25.00	1.3898	2	27615	C14H20O9S	b-D-thioglucose tetraacetate	28878-90-2	25.00	1.3191	2
27421	C14H18BrNO4	(R)-N-boc-3-amino-3-(4-bromophenyl)propanoic*	261380-20-5	25.00	1.3898	2	27617	C14H21BrO	4-bromo-2,6-di-tert-butylphenol	1139-52-2	25.00	1.1880	2
27422	C14H18BrNO4	(S)-N-boc-2-bromophenylalanine	261165-02-0	25.00	1.3898	2	27628	C14H21NO3	(R)-(+)-2-(tert-butoxycarbonylamino)-3-pheny*	106454-69-7	25.00	1.0662	2
27423	C14H18BrNO4	(R)-N-boc-2-bromophenylalanine	261360-76-3	25.00	1.3898	2	27629	C14H21NO3	(S)-(-)-2-(tert-butoxycarbonylamino)3-phenyl*	66605-57-0	25.00	1.0662	2
27425	C14H18BrNO4	(S)-N-boc-4-bromophenylalanine	62129-39-9	25.00	1.3898	2	27631	C14H21NO3	2,6-di-tert-butyl-4-nitrophenol	728-40-5	25.00	1.0662	2
27426	C14H18BrNO4	(R)-N-boc-4-bromophenylalanine	79561-82-3	25.00	1.3898	2	27633	C14H21NO4	benzoaza-15-crown-5	54533-83-4	25.00	1.1077	2
27429	C14H18ClNO4	(R)-N-boc-4-chlorophenylalanine	57292-44-1	25.00	1.2234	2	27634	C14H21NO4	diethyl 1,4-dihydro-2,4,6-trimethyl-3,5-pyri*	632-93-9	25.00	1.1077	2
27430	C14H18ClNO4	(S)-N-boc-4-chlorophenylalanine	68090-88-0	25.00	1.2234	2	27638	C14H21N3O3	oxamniquine	21738-42-1	25.00	1.1438	2
27436	C14H18FNO4	(S)-N-boc-2-fluorophenylalanine	114873-00-6	25.00	1.1918	2	27639	C14H21N3O3S	tolazamide	1156-19-0	25.00	1.1987	2
27437	C14H18FNO4	(S)-N-boc-3-fluorophenylalanine	114873-01-7	25.00	1.1918	2	27640	C14H21N3O3S	3-amino-4-methylbenzenesulfonylcyclohexylurea	565-33-3	25.00	1.1987	2
27438	C14H18FNO4	(R)-N-boc-2-fluorophenylalanine	114873-10-8	25.00	1.1918	2	27641	C14H21N3O4	butralin	33629-47-9	25.00	1.1821	2
27439	C14H18FNO4	(R)-N-boc-3-fluorophenylalanine	114873-11-9	25.00	1.1918	2	27644	C14H22	octylbenzene	2189-60-8	-36.00	1.0487	2
27440	C14H18FNO4	(S)-N-boc-4-fluorophenylalanine	41153-30-4	25.00	1.1918	2	27646	C14H22	1,2,3,5-tetraethylbenzene	38842-05-6	-21.00	1.0685	2
27441	C14H18FNO4	(R)-N-boc-4-fluorophenylalanine	57292-45-2	25.00	1.1918	2	27648	C14H22	1,4-di-tert-butylbenzene	1012-72-2	77.61	0.9675	1
27442	C14H18FN4O5	3-(5-fluoro-2,4-dinitroanilino)-proxyl, free*	73784-45-9	25.00	1.3329	2	27654	C14H22BrN3O2	valopride	4093-35-0	25.00	1.3091	2
27449	C14H18N2O	4-isopropylantipyrine	479-92-5	25.00	1.0701	2	27663	C14H22N2O	2-(diethylamino)-N-(2,6-dimethylphenyl)aceta*	137-58-6	25.00	1.0047	2
27451	C14H18N2O2	methyl 4-amino-1-benzyl-1,2,5,6-tetrahydropy*	159660-85-2	25.00	1.1153	2	27669	C14H22N2O2	2,N-pentylaminoethyl-p-aminobenzoate	2188-67-2	25.00	1.0480	2
27452	C14H18N2O2	5-amino-N-butyl-2-propargyloxybenzamide	30653-83-9	25.00	1.1153	2	27671	C14H22N2O3	bucolome	841-73-6	25.00	1.0894	2
27454	C14H18N2O3S2	2-(2-anilinovinyl)-3-(3-sulfopropyl)-2-thiaz*	42825-73-0	25.00	1.2673	2	27672	C14H22N2O3	eraldin	6673-35-4	25.00	1.0894	2
27455	C14H18BrNO4	(S)-N-boc-3-bromophenylalanine	82278-73-7	25.00	1.3898	2	27673	C14H22N2O3	tenormin	29122-68-7	25.00	1.0894	2
27458	C14H18Cl2N2O3S	5,6-dichloro-1-ethyl-2-methyl-3-(3-sulfobuty*	63175-96-2	25.00	1.3216	2	27678	C14H22N4O2	oxalic acid bis(cyclohexylidenehydrazide)	370-81-0	25.00	1.1253	2
27460	C14H18N2O4	oxadixyl	77732-09-3	25.00	1.1992	2	27679	C14H22O	p-tert-octylphenol	140-66-9	85.40	1.0812	2
27465	C14H18N2O5	aspartame	22839-47-0	25.00	1.2382	2	27680	C14H22O	2,4-di-tert-butylphenol	96-76-4	21.20	0.9389	2
27466	C14H18N2O5	N-(2,6-dimethylphenylcarbamoylmethyl) iminod*	59160-29-1	25.00	1.2382	2	27682	C14H22O	2,6-di-tert-butylphenol	128-39-2	21.20	0.9389	2
27468	C14H18N2O7	dessin	973-21-7	25.00	1.3109	2	27687	C14H22O	4-octylphenol	1806-26-4	25.00	0.9610	1
27469	C14H18N2O8	2'-nitrophenyl-2-acetamido-2-deoxy-a-D-gluco*	10139-01-2	25.00	1.3448	2	27688	C14H22O	tert-octylphenol	27193-28-8	25.00	0.9410	1
27470	C14H18N2O8	4'-nitrophenyl-2-acetamido-2-deoxy-a-D-gluco*	10139-02-3	25.00	1.3448	2	27689	C14H22O	3,5-bis(1,1-dimethylethyl)phenol	1138-52-9	21.20	0.9389	2
27471	C14H18N2O8	4-nitrophenyl-2-acetamido-2-deoxy-b-D-glucop*	3459-18-5	25.00	1.3448	2	27691	C14H22O	2-isopropyl-6-(1-methylbutyl)phenol	74926-98-0	21.20	0.9389	2
27477	C14H18N4O3	5-(3,4,5-trimethoxybenzyl)-2,4-diaminopyrimi*	738-70-5	25.00	1.2357	2	27693	C14H22O2	bis(1-hydroxycyclohexyl)acetylene	78-54-6	22.00	0.9400	2
27478	C14H18N4O4S2	diethyl-4,4'-o-phenylenebis(3-thioallophanat*	23564-06-9	25.00	1.3635	2	27694	C14H22O2	1,4-dibutoxybenzene	104-36-9	22.00	0.9400	2
27481	C14H18O	2-(phenylmethylene)heptanal	122-40-7	20.00	0.9711	1	27696	C14H22O2	3,5-di-tert-butylcatechol	1020-31-1	22.00	0.9400	2
27482	C14H18O	4'-cyclohexylacetophenone	18594-05-3	22.50	0.9856	2	27700	C14H22O2	2,5-di-tert-butylhydroquinone	88-58-4	22.00	0.9400	2
27485	C14H18O2	cyclohexylphenylacetic acid	3894-09-5	25.00	1.0280	2	27704	C14H22O3	(R)-5-[(1R)-menthyloxy]-2(5H)-furanone	77934-87-3	25.00	1.0099	2
27486	C14H18O2	1-(4-methylphenyl)-1-cyclohexanecarboxylicac*	84682-27-9	25.00	1.0280	2	27706	C14H22O4	dicyclohexyl oxalate	620-82-6	25.00	1.0527	2
27493	C14H18O3	1-(4-methoxyphenyl)-1-cyclohexanecarboxylic *	7469-83-2	25.00	1.0749	2	27714	C14H22O7	3-O-acetyl-1,2:5,6-di-O-isopropylidene-a-D-g*	16713-80-7	25.00	1.1698	2
27497	C14H18O4	dipropyl phthalate	131-16-8	-31.00	1.3065	2	27716	C14H22O8	tetraethyl 1,1,2,2-ethanetetracarboxylate	632-56-4	80.00	1.0640	1
27498	C14H18O4	6-hydroxy-2,5,7,8-tetramethylchroman-2-carbo*	53188-07-1	21.67	1.0693	2	27719	C14H23Cl2N3O2	spiromustine	56605-16-4	25.00	1.1924	2
27502	C14H18O6	(+)-(4,6-O-benzylidene)methyl-a-D-glucopyran*	3162-96-7	25.00	1.2022	2	27723	C14H23N	2,6-di-tert-butyl-4-methylpyridine	38222-83-2	23.00	0.8979	2
27504	C14H18O6	ethyl 3,4,5-trimethoxybenzoylacetate	3044-56-2	25.00	1.2022	2	27727	C14H23NO	4-(octyloxy)aniline	39905-45-8	25.00	0.9479	2
27505	C14H18O7	1-[4-(beta-D-glucopyranosyloxy)phenyl]ethano*	530-14-3	25.00	1.2407	2	27737	C14H24NO4PS3	bensulide	741-58-2	20.00	1.2240	1

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
27751	C14H24N2	tetradecanedinitrile	7735-44-6	18.50	0.9486	2	28034	C15H10O	dibenzosuberenone	2222-33-5	25.00	1.1582	2
27755	C14H24N2O8	1,6-diaminohexane-N,N,N',N'-tetraacetic acid	1633-00-7	25.00	1.2372	2	28035	C15H10O	diphenylcyclopropenone	886-38-4	25.00	1.2020	1
27781	C14H26	3-tetradecyne	60212-32-0	24.14	0.8429	2	28036	C15H10O2	1-anthracenecarboxylic acid	607-42-1	25.00	1.2099	2
27782	C14H26	7-tetradecyne	35216-11-6	20.00	0.7991	1	28037	C15H10O2	2-anthracenecarboxylic acid	613-08-1	25.00	1.2099	2
27786	C14H26Cl2O2	2,2-dichlorotetradecanoic acid	93347-74-1	25.00	1.0512	2	28038	C15H10O2	9-anthracenecarboxylic acid	723-62-6	25.00	1.2099	2
27789	C14H26N2	2-undecylimidazole	16731-68-3	25.00	0.9052	2	28039	C15H10O2	2-benzofuranylphenylmethanone	6272-40-8	25.00	1.2099	2
27790	C14H26N2O	[(3S)-4-azabicyclo[4.4.0]dec-3-yl]-N-(tert-b*	136465-81-1	25.00	0.9487	2	28040	C15H10O2	2-methyl-9,10-anthracenedione	84-54-8	25.00	1.2099	2
27794	C14H26N4S4	bis(4-methyl-1-piperazinylthiocarbonyl) disu*	26087-98-9	25.00	1.1967	2	28041	C15H10O2	9-phenanthrenecarboxylic acid	837-45-6	25.00	1.2099	2
27802	C14H26O2	(R,R)-(-)-1,2-dicyclohexyl-1,2-ethanediol	120850-92-2	21.00	0.8936	2	28042	C15H10O2	2-phenyl-4H-1-benzopyran-4-one	525-82-6	25.00	1.2099	2
27805	C14H26O2	2,4,7,9-tetramethyl-5-decyne-4,7-diol, (±) a*	126-86-3	21.00	0.8936	2	28043	C15H10O2	3-phenyl-4H-1-benzopyran-4-one	574-12-9	25.00	1.2099	2
27818	C14H26O4	dimethyl 1,12-dodecanedioate	1731-79-9	19.75	0.9605	2	28044	C15H10O2	2-phenyl-1H-indene-1,3(2H)-dione	83-12-5	25.00	1.2099	2
27820	C14H26O4	1,12-dodecanedicarboxylic acid	821-38-5	19.75	0.9605	2	28045	C15H10O2	benzalphthalide	575-61-1	25.00	1.2099	2
27825	C14H27Br	cis-1-bromo-1-tetradecene	66827-02-9	25.00	1.0526	2	28046	C15H10O3	diphenylpropanetrione	643-75-4	25.00	1.2585	2
27826	C14H27Br	trans-1-bromo-1-tetradecene	66827-03-0	25.00	1.0526	2	28047	C15H10O3	3-hydroxyflavone	577-85-5	25.00	1.2585	2
27828	C14H27Br3	1,1,1-tribromotetradecane	62155-25-3	25.00	1.4444	2	28048	C15H10O3	6-hydroxyflavone	6665-83-4	25.00	1.2585	2
27832	C14H27Cl3	1,1,1-trichlorotetradecane	62108-58-1	25.00	1.0289	2	28049	C15H10O3	7-hydroxyflavone	6665-86-7	25.00	1.2585	2
27835	C14H27F3	1,1,1-trifluorotetradecane	62126-99-2	25.00	0.9301	2	28050	C15H10O3	2-(hydroxymethyl)anthraquinone	17241-59-7	25.00	1.2585	2
27836	C14H27I	cis-1-iodo-1-tetradecene	66827-08-5	25.00	1.1926	2	28052	C15H10O4	daidzein	486-66-8	25.00	1.3043	2
27837	C14H27I	trans-1-iodo-1-tetradecene	66827-09-6	25.00	1.1926	2	28053	C15H10O4	1,8-dihydroxy-3-methyl-9,10-anthracenedione	481-74-3	25.00	0.9200	1
27838	C14H27I3	1,1,1-triiodotetradecane	---	25.00	1.7600	2	28054	C15H10O4	5,7-dihydroxy-2-phenyl-4H-1-benzopyran-4-one	480-40-0	25.00	1.3043	2
27849	C14H28	cyclotetradecane	295-17-0	24.17	0.7861	2	28055	C15H10O5	apigenin	520-36-5	25.00	1.3476	2
27850	C14H28	1-tetradecene	1120-36-1	-12.85	0.9289	2	28056	C15H10O5	4,4'-benzophenonedicarboxylic acid	964-68-1	25.00	1.3476	2
27854	C14H28Br2	1,1-dibromotetradecane	62168-31-4	25.00	1.2460	2	28057	C15H10O5	3-benzoyl-1,2-benzenedicarboxylic acid	602-82-4	25.00	1.3476	2
27855	C14H28Br2	1,14-dibromotetradecane	37688-96-3	25.00	1.2460	2	28058	C15H10O5	1,8-dihydroxy-3-(hydroxymethyl)-9,10-anthrac*	481-72-1	25.00	1.3476	2
27858	C14H28I2	1,1-diiodotetradecane	66826-79-7	25.00	1.4844	2	28059	C15H10O5	genistein	446-72-0	25.00	1.3476	2
27863	C14H28O	2-tetradecanone	2345-27-9	23.57	0.8389	2	28060	C15H10O5	1,3,8-trihydroxy-6-methyl-9,10-anthracenedio*	518-82-1	25.00	1.3476	2
27864	C14H28O	7-ethyl-2-methyl-4-undecanone	6976-00-7	20.00	0.8362	1	28061	C15H10O5	5,6,7-trihydroxy-2-phenyl-4H-1-benzopyran-4-*	491-67-8	25.00	1.3476	2
27865	C14H28O	2-methyl-3-tridecanone	40239-35-8	20.00	0.8314	1	28063	C15H10O5	galangin	548-83-4	25.00	1.3476	2
27866	C14H28O	3-tetradecanone	629-23-2	23.57	0.8389	2	28065	C15H10O6	datiscetin	480-15-9	25.00	1.3885	2
27873	C14H28O2	tetradecanoic acid	544-63-8	20.00	1.0200	1	28066	C15H10O6	fisetin	528-48-3	25.00	1.3885	2
27874	C14H28O2	tridecyl formate	42875-41-2	26.00	0.8608	2	28067	C15H10O6	kaempferol	520-18-3	25.00	1.3885	2
27890	C14H28O6	1-O-n-octyl-b-D-glucopyranoside	29836-26-8	25.00	1.0447	2	28068	C15H10O6	luteolin	491-70-3	25.00	1.3885	2
27893	C14H28S	thiacyclopentadecane	295-51-2	25.00	0.8728	2	28069	C15H10O7	morin	480-16-0	25.00	1.4272	2
27905	C14H29NO	tetradecanamide	638-58-4	25.00	0.8727	2	28070	C15H10O7	quercetin	117-39-5	25.00	1.4272	2
27908	C14H29NO2	1-nitrotetradecane	31241-42-6	25.00	0.9144	2	28071	C15H10O7	robinetin	490-31-3	25.00	1.4272	2
27912	C14H30	tetradecane	629-59-4	5.86	0.9140	2	28072	C15H10O8	myricetin	529-44-2	25.00	1.4639	2
27922	C14H30O	1-tetradecanol	112-72-1	25.00	0.9543	1	28073	C15H11Br	9-bromomethylanthracene	2417-77-8	25.00	1.3777	2
27923	C14H30O	2-tetradecanol	4706-81-4	20.00	0.8315	1	28075	C15H11Cl	9-(chloromethyl)anthracene	24463-19-2	25.00	1.1676	2
27924	C14H30O	3-tetradecanol	1653-32-3	53.00	0.8098	1	28076	C15H11ClF3NO4	oxyfluorfen	42874-03-3	73.00	1.3500	1
27927	C14H30O	2-methyl-4-tridecanol	36691-77-7	29.33	0.8238	2	28078	C15H11ClN2O	nordazepam	1088-11-5	25.00	1.2998	2
27929	C14H30O	tetradecanol; mixed isomers	27196-00-5	29.33	0.8238	2	28085	C15H11ClO2	9-fluorenylmethyl chloroformate	28920-43-6	25.00	1.2596	2
27930	C14H30O2	1,2-tetradecanediol	21129-09-9	25.00	0.8648	2	28086	C15H11ClO3	chlorflurenol methyl ester	2536-31-4	25.00	1.3019	2
27931	C14H30O2	1,3-tetradecanediol	---	25.00	0.8648	2	28087	C15H11ClO5	pelargonidin chloride	134-04-3	25.00	1.3801	2
27932	C14H30O2	1,4-tetradecanediol	---	25.00	0.8648	2	28088	C15H11ClO7	delphinidin	528-53-0	25.00	1.4507	2
27933	C14H30O2	1,14-tetradecanediol	19812-64-7	25.00	0.8648	2	28090	C15H11FO	4'-fluorochalcone	399-10-0	25.00	1.1755	2
27938	C14H30O2	2,2,9,9-tetramethyl-1,10-decanediol	35449-36-6	25.00	0.8648	2	28095	C15H11I4NO4	L-thyroxine	51-48-9	25.00	2.4440	2
27941	C14H30O3S	1-tetradecanesulfonic acid	7314-37-6	25.00	0.9996	1	28096	C15H11I4NO4	D-thyroxine	51-49-0	25.00	2.4440	2
27948	C14H30S	diheptyl sulfide	629-65-2	25.00	0.8430	1	28098	C15H11N	2-phenylquinoline	612-96-4	25.00	1.1327	2
27956	C14H31N	tetradecylamine	2016-42-4	38.19	0.9326	2	28099	C15H11N	3-phenylquinoline	1666-96-2	25.00	1.1327	2
27962	C14H31NO	dimethyldodecylamine-N-oxide	1643-20-5	25.00	0.8510	2	28100	C15H11N	4-phenylquinoline	605-03-8	25.00	1.1327	2
27967	C14H32N4	1,4,8,11-tetramethyl-1,4,8,11-tetraazacyclot*	41203-22-9	25.00	0.9120	2	28101	C15H11N	6-phenylquinoline	612-95-3	20.00	1.1945	1
27973	C14H42O5Si6	tetradecamethylhexasiloxane	107-52-8	-59.00	1.1245	2	28102	C15H11N	cis-4-(2-phenylvinyl)benzonitrile	14064-68-7	25.00	1.1327	2
27975	C15H7Cl2F2N2O2	5,6-dichloro-1-phenoxycarbonyl-2-trifluorome*	14255-88-0	25.00	1.5297	2	28104	C15H11N	a-(phenylmethylene)benzeneacetonitrile	2510-95-4	25.00	1.1327	2
27977	C15H7F21O2	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,1*	17741-60-5	25.00	1.3200	1	28105	C15H11NO	2,4-diphenyloxazole	838-41-5	25.00	1.1843	2
27985	C15H8F6O	3,3'-bis(trifluoromethyl)benzophenone	1868-00-4	25.00	1.3935	2	28106	C15H11NO	2,5-diphenyloxazole	92-71-7	100.00	1.0940	1
27986	C15H8F6O	3,4'-bis(trifluoromethyl)benzophenone	21084-22-0	25.00	1.3935	2	28107	C15H11NO	4,5-diphenyloxazole	4675-18-7	25.00	1.1843	2
27987	C15H8O4	9,10-dihydro-9,10-dioxo-2-anthracenecarboxyl*	117-78-2	25.00	1.3567	2	28109	C15H11NOS	4,5-diphenyl-4-oxazoline-2-thione	6670-13-9	25.00	1.2516	2
27988	C15H8O5	coumestrol	479-13-0	25.00	1.4005	2	28110	C15H11NO2	1-amino-2-methyl-9,10-anthracenedione	82-28-0	25.00	1.2329	2
27989	C15H8O6	rhein	478-43-3	25.00	1.4417	2	28111	C15H11NO2	2-benzyl-1H-isoindole-1,3(2H)-dione	2142-01-0	18.00	1.3430	1
27990	C15H9BrO2	2-(4-bromophenyl)-1H-indene-1,3(2H)-dione	1146-98-1	25.00	1.5130	2	28114	C15H11NO3	4-nitrochalcone	1222-98-6	25.00	1.2787	2
27993	C15H9ClO2	2-(4-chlorophenyl)-1H-indene-1,3(2H)-dione	1146-99-2	25.00	1.3071	2	28115	C15H11NO3	3-nitrochalcone	614-48-2	25.00	1.2787	2
27997	C15H9I3O5	acetyltriiodothyronine formic acid	2260-08-4	25.00	2.3074	2	28116	C15H11NO3	1-amino-2-methoxyanthraquinone	10165-33-0	25.00	1.2787	2
27998	C15H9N	9-cyanophenanthrene	2510-55-6	25.00	1.1803	2	28119	C15H11NS	2,4-diphenylthiazole	1826-14-8	98.00	1.1554	1
28001	C15H9NO4	1-amino-9,10-dioxo-9,10-dihydro-2-anthracene*	82-24-6	25.00	1.3728	2	28120	C15H11NS	2-(phenylthio)quinoline	22190-12-1	25.00	1.2061	2
28005	C15H10	cyclopenta[def]phenanthrene	203-64-5	25.00	1.1031	2	28121	C15H11N3	2,2':6',2"-terpyridine	1148-79-4	25.00	1.2296	2
28007	C15H10BrClN4S	lendormin	57801-81-7	25.00	1.6265	2	28123	C15H11N3O	1-(2-pyridylazo)-2-naphthol, indicator	85-85-8	25.00	1.2762	2
28008	C15H10BrNO2	1-bromo-4-(methylamino)anthraquinone	128-93-8	25.00	1.5215	2	28125	C15H11N3O3	1,3-dihydro-7-nitro-5-phenyl-2H-1,4-benzodia*	146-22-5	25.00	1.3617	2
28009	C15H10Br2ClNO2S	brotianide	23233-88-7	25.00	1.7803	2	28126	C15H11N3O7	(R)-(-)-N-(3,5-dinitrobenzoyl)-a-phenylglyci*	74927-72-3	25.00	1.5076	2
28010	C15H10ClFO	2-chloro-4'-fluorochalcone	28081-11-0	25.00	1.2707	2	28129	C15H12	1-methylanthracene	610-48-0	99.00	1.0471	1
28012	C15H10ClF3N2O6S	fomesafen	72178-02-0	20.00	1.2800	1	28130	C15H12	2-methylanthracene	613-12-7	99.00	1.0561	2
28014	C15H10ClI2NO3	4'-chloro-3,5-diiodosalicylanilide acetate	14437-41-3	25.00	2.0218	2	28131	C15H12	9-methylanthracene	779-02-2	99.00	1.0650	1
28016	C15H10ClN3	4'-chloro-2,2':6',2"-terpyridine	128143-89-5	25.00	1.3227	2	28132	C15H12	1-methylphenanthrene	832-69-9	99.00	1.0561	2
28017	C15H10ClN3O3	cloazepam	1622-61-3	25.00	1.4400	2	28133	C15H12	3-methylphenanthrene	832-71-3	99.00	1.0561	2
28020	C15H10Cl2N2O2	1-(2,4-dichlorbenzyl)indazole-3-carboxylic a*	50264-69-2	25.00	1.4175	2	28134	C15H12	4-methylphenanthrene	832-64-4	99.00	1.0561	2
28021	C15H10FNO3	3-nitro-4'-fluorochalcone	28081-18-7	25.00	1.3333	2	28135	C15H12	2-methylphenanthrene	2531-84-2	99.00	1.0561	2
28025	C15H10F6	3,3'-methylenebis(a,a,a-trifluorotoluene)	86845-35-4	25.00	1.3127	2	28135.1	C15H12	1-phenylindene	1961-96-2	37.50	1.2670	2
28026	C15H10F6O2	4,4'-(hexafluoroisopropylidene)diphenol	1478-61-1	25.00	1.3837	2	28136	C15H12Br4O2	3,3',5,5'-tetrabromobisphenol a	79-94-7	25.00	1.9988	2
28029	C15H10N2O2	diphenylmethane-4,4'-diisocyanate	101-68-8	38.05	1.4039	2	28137	C15H12ClNO2	carprofen	53716-49-7	25.00	1.2782	2
28032	C15H10N2S2	2,2'-methylenebisbenzothiazole	1945-78-4	25.00	1.3315	2	28139	C15H12Cl2N2	4-amino-2-chloro-a-(4-chlorophenyl)-5-methyl*	61437-85-2	25.00	1.2979	2
28033	C15H10O	9-anthracenecarboxaldehyde	642-31-9	25.00	1.1582	2	28140	C15H12Cl4O2	4,4'-isopropylidenebis(2,6-dichlorophenol)	79-95-8	25.00	1.4000	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
28149	C15H12F6N2	4,4'-(hexafluoroisopropylidene)dianiline	1095-78-9	25.00	1.3410	2	28300	C15H14O2	2-methoxy-1,2-diphenylethanone	3524-62-7	14.00	1.1278	1
28151	C15H12I2O3	4-hydroxy-3,5-diiodo-alpha-phenylbenzeneprop*	577-91-3	25.00	1.9344	2	28301	C15H14O2	alpha-methyl-alpha-phenylbenzeneacetic acid	5558-66-7	55.00	1.1387	2
28152	C15H12I3NO4	liothyronine	6893-02-3	25.00	2.2155	2	28302	C15H14O2	alpha-phenylbenzenepropanoic acid, (±)	94942-89-9	96.00	1.1495	1
28153	C15H12N2	1,3-diphenyl-1H-pyrazole	4492-01-7	101.00	1.0794	1	28304	C15H14O2	2-bibenzylcarboxylic acid	4890-85-1	55.00	1.1387	2
28154	C15H12N2	1,5-diphenyl-1H-pyrazole	6831-89-6	100.00	1.0696	1	28305	C15H14O2	2-biphenylyl glycidyl ether	7144-65-2	55.00	1.1387	2
28155	C15H12N2	4,5-diphenylimidazole	668-94-0	100.50	1.0745	2	28306	C15H14O2	3,3-diphenylpropionic acid	606-83-7	55.00	1.1387	2
28156	C15H12N2	N-(diphenylmethylene)aminoacetonitrile	70591-20-7	100.50	1.0745	2	28307	C15H14O2	4-ethylbiphenyl-4'-carboxylic acid	5731-13-5	55.00	1.1387	2
28157	C15H12N2	3,5-diphenylpyrazole	1145-01-3	100.50	1.0745	2	28310	C15H14O3	(2,4-dimethoxyphenyl)phenylmethanone	3555-84-8	25.00	1.1685	2
28159	C15H12N2O	5H-dibenz[b,f]azepine-5-carboxamide	298-46-4	25.00	1.2080	2	28311	C15H14O3	di(o-tolyl) carbonate	617-09-4	25.00	1.1685	2
28160	C15H12N2O	1-benzyl-2(1H)-cycloheptimidazolone	363-13-3	25.00	1.2080	2	28312	C15H14O3	lapachol	84-79-7	25.00	1.1685	2
28163	C15H12N2O2	1,4-diphenyl-3,5-pyrazolidinedione	3426-01-5	25.00	1.2538	2	28313	C15H14O3	methyl alpha-hydroxydiphenylacetate	76-89-1	25.00	1.1685	2
28164	C15H12N2O2	phenytoin	57-41-0	25.00	1.2538	2	28314	C15H14O3	4-benzyloxy-3-methoxybenzaldehyde	2426-87-1	25.00	1.1685	2
28167	C15H12N2O3	hydrofuramide	494-47-3	25.00	1.2972	2	28315	C15H14O3	3-benzyloxy-4-methoxybenzaldehyde	6346-05-0	25.00	1.1685	2
28170	C15H12N2S	4,5-diphenyl-2-imidazolethiol	2349-58-8	25.00	1.2277	2	28316	C15H14O3	dibenzyl carbonate	3459-92-5	25.00	1.1685	2
28172	C15H12N6O4	rhizopterin	119-20-0	25.00	1.4833	2	28317	C15H14O3	4,4'-dimethoxybenzophenone	90-96-0	25.00	1.1685	2
28173	C15H12O	10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-o*	1210-35-1	20.00	1.1635	1	28319	C15H14O3	2-hydroxy-4-methoxy-4'-methylbenzophenone	164-17-4	25.00	1.1685	2
28174	C15H12O	5,11-dihydro-10H-dibenzo[a,d]cyclohepten-10-*	6374-70-5	20.00	1.1635	1	28321	C15H14O4	2-methyl-1,4-naphthalenediol diacetate	573-20-6	25.00	1.2128	2
28175	C15H12O	2,3-dihydro-2-phenyl-1H-inden-1-one	16619-12-8	41.00	1.1174	2	28322	C15H14O4	peucedanin	133-26-6	25.00	1.2128	2
28176	C15H12O	1,3-diphenyl-2-propen-1-one	94-41-7	62.00	1.0712	1	28323	C15H14O4	xanthoxyletin	84-99-1	25.00	1.2128	2
28177	C15H12O	trans-1,3-diphenyl-2-propen-1-one	614-47-1	62.00	1.0712	1	28325	C15H14O5	bis(2-hydroxy-4-methoxyphenyl)methanone	131-54-4	25.00	1.2549	2
28178	C15H12O	2-acetylfluorene	781-73-7	41.00	1.1174	2	28326	C15H14O5	2-methoxyphenol carbonate (2:1)	553-17-3	25.00	1.2549	2
28179	C15H12O	9-anthracenemethanol	1468-95-7	41.00	1.1174	2	28327	C15H14O5	methysticin	495-85-2	25.00	1.2549	2
28180	C15H12O	1,1-diphenyl-2-propyn-1-ol	3923-52-2	41.00	1.1174	2	28328	C15H14O5	phloretin	60-82-2	25.00	1.2549	2
28181	C15H12O	3-phenyl-1-indanone	16618-72-7	41.00	1.1174	2	28329	C15H14O6	catechin, (2S-cis)	35323-91-2	4.00	1.3440	1
28185	C15H12O2	1,3-diphenyl-1,3-propanedione	120-46-7	25.00	1.1637	2	28331	C15H14O6	javanicin	476-45-9	43.50	1.2668	2
28186	C15H12O2	3-hydroxy-1,3-diphenyl-2-propen-1-one	1704-15-0	25.00	1.1637	2	28333	C15H14O6	D-catechol	154-23-4	43.50	1.2668	2
28187	C15H12O2	phenyl trans-cinnamate	25695-77-6	100.00	1.0650	1	28335	C15H15Br	1-bromo-3,3-diphenylpropane	20017-68-9	25.00	1.2809	2
28188	C15H12O2	alpha-(phenylmethylene)benezeneacetic acid	3368-16-9	25.00	1.1637	2	28337	C15H15Cl	1-(4-chloromethylphenyl)-2-phenylethane	80676-35-3	25.00	1.0874	2
28189	C15H12O2	flavanone	487-26-3	25.00	1.1637	2	28339	C15H15ClF3N3O	triflumizole	68694-11-1	25.00	1.3288	2
28190	C15H12O2	9H-fluorene-9-acetic acid	6284-80-6	25.00	1.1637	2	28340	C15H15ClN2O2	chloroxuron	1982-47-4	25.00	1.2537	2
28191	C15H12O2	a-phenylcinnamic acid	91-48-5	25.00	1.1637	2	28341	C15H15ClN2O4S	4-chloro-5-sulfamoyl-2',6'-salicyloxylidide	14293-44-8	25.00	1.3715	2
28193	C15H12O3	methyl 2-benzoylbenzoate	606-28-0	19.00	1.1903	1	28342	C15H15ClN4O6S	chlorimuron	90982-32-4	25.00	1.4899	2
28194	C15H12O3	2-(4-methylbenzoyl)benzoic acid	85-55-2	25.00	1.2115	2	28345	C15H15F3N2O2	a-isopropyl-a-(p-(trifluoromethoxy)phenyl)-5*	56425-91-3	25.00	1.2779	2
28198	C15H12O4	2-(4-methoxybenzoyl)benzoic acid	1151-15-1	25.00	1.2566	2	28347	C15H15N	9-isopropylcarbazole	1484-09-9	25.00	1.0504	2
28199	C15H12O4	methylene glycol dibenzoate	5342-31-4	22.00	1.2750	1	28348	C15H15N	1,1,2-trimethyl-1H-benz[e]indole	41532-84-7	25.00	1.0504	2
28200	C15H12O4	phenyl 2-(acetyloxy)benzoate	134-55-4	25.00	1.2566	2	28349	C15H15N	N,N-dimethyl-9H-fluoren-2-amine	13261-62-6	25.00	1.0504	2
28203	C15H12O5	naringenin	480-41-1	25.00	1.2992	2	28352	C15H15NO	3-(dimethylamino)benzophenone	31766-07-1	25.00	1.0998	2
28206	C15H12O6	eriodictyol	552-58-9	25.00	1.3397	2	28353	C15H15NO	[4-(dimethylamino)phenyl]phenylmethanone	530-44-9	25.00	1.0998	2
28207	C15H12O6	5,5'-methylenedisalicylic acid	122-25-8	25.00	1.3397	2	28356	C15H15NO2	ethyl diphenylcarbamate	603-52-1	25.00	1.1464	2
28210	C15H13ClN2	chlormidazole	3689-76-7	25.00	1.2129	2	28358	C15H15NO2	N-(2,3-xylyl)anthranilic acid	61-68-7	25.00	1.1464	2
28213	C15H13Cl2N5	robenidine	25875-51-8	25.00	1.3833	2	28360	C15H15NO3	tolmetine	26171-23-3	25.00	1.1907	2
28214	C15H13Cl2NO2	1,1-bis(p-chlorophenyl)-2-nitropropane	117-27-1	25.00	1.3152	2	28361	C15H15NO3S2	2-methyl-1-(3-sulfopropyl)naphtho[1,2-d]thia*	3176-77-0	25.00	1.3002	2
28216	C15H13N	1-benzyl-1H-indole	3377-71-7	25.00	1.0896	2	28362	C15H15N2O2	diphenyldiketopyrazolidine	2652-77-9	25.00	1.1890	2
28217	C15H13N	3-methyl-2-phenyl-1H-indole	10257-92-8	25.00	1.0896	2	28363	C15H15N3	3,6-diamino-2,7-dimethylacridine	92-26-2	25.00	1.1423	2
28219	C15H13N	1-methyl-2-phenylindole	3558-24-5	25.00	1.0896	2	28364	C15H15N3O	7-ethoxy-3,9-acridinediamine	442-16-0	25.00	1.1873	2
28220	C15H13NO	2-(acetylamino)fluorene	53-96-3	25.00	1.1401	2	28366	C15H15N3O2	methyl red	493-52-7	25.00	1.2299	2
28221	C15H13NO	4-benzyloxyindole	20289-26-3	25.00	1.1401	2	28367	C15H15N3O2	disperse yellow 3,ci 11855	2832-40-8	25.00	1.2299	2
28222	C15H13NO	5-benzyloxyindole	1215-59-4	25.00	1.1401	2	28382	C15H16	2,2-diphenylpropane	778-22-3	20.00	0.9980	1
28223	C15H13NO	N-ethyl-3-carbazolecarboxaldehyde	7570-45-8	25.00	1.1401	2	28383	C15H16	2-methyl-1,1-diphenylethane	32341-92-7	23.75	0.9811	2
28224	C15H13NO	5,6,11,12-tetrahydrodibenz[b,f]azocin-6-one	6047-29-6	25.00	1.1401	2	28384	C15H16	3-methyl-1,1-diphenylethane	32341-91-6	23.75	0.9811	2
28229	C15H13NO2	2-benzoylacetanilide	85-99-4	25.00	1.1877	2	28385	C15H16	4-methyl-1,1-diphenylethane	3717-68-8	23.75	0.9811	2
28231	C15H13NO2	1-fluorenyl acethydroxamic acid	22251-01-0	25.00	1.1877	2	28386	C15H16	2-methyl-1,2-diphenylethane	34403-05-9	23.75	0.9811	2
28232	C15H13NO2	3-fluorenyl acethydroxamic acid	22225-32-7	25.00	1.1877	2	28387	C15H16	3-methyl-1,2-diphenylethane	34403-06-0	23.75	0.9811	2
28238	C15H13NO2S	10-methyl-10H-phenothiazine-2-acetic acid	13993-65-2	25.00	1.2503	2	28388	C15H16	4-methyl-1,2-diphenylethane	14310-20-4	23.75	0.9811	2
28239	C15H13NO3	2-amino-3-benzoylphenylacetic acid	51579-82-9	25.00	1.2328	2	28392	C15H16	2',3'-dimethyldiphenylmethane	62155-16-2	23.75	0.9811	2
28241	C15H13NO3	pranoprofen	52549-17-4	25.00	1.2328	2	28393	C15H16	2',4'-dimethyldiphenylmethane	28122-28-3	23.75	0.9811	2
28248	C15H13N3O2S	fenbendazole	43210-67-9	25.00	1.3274	2	28394	C15H16	2',5'-dimethyldiphenylmethane	13540-50-6	23.75	0.9811	2
28249	C15H13N3O3S	oxfendazole	53716-50-0	25.00	1.3644	2	28395	C15H16	2',6'-dimethyldiphenylmethane	---	23.75	0.9811	2
28250	C15H14	1,1-diphenyl-1-propene	778-66-5	20.00	1.0250	1	28396	C15H16	3',4'-dimethyldiphenylmethane	13540-56-2	23.75	0.9811	2
28251	C15H14	1,2-diphenyl-1-propene	779-51-1	17.00	0.9857	1	28397	C15H16	3',5'-dimethyldiphenylmethane	28122-27-2	23.75	0.9811	2
28253	C15H14	2,3-diphenyl-1-propene	948-97-0	20.00	1.1014	1	28398	C15H16	2',2"-dimethyldiphenylmethane	28122-29-4	23.75	0.9811	2
28255	C15H14	dibenzosuberane	833-48-7	18.60	1.0412	2	28399	C15H16	2',3"-dimethyldiphenylmethane	21895-13-6	23.75	0.9811	2
28256	C15H14	trans-a-methylstilbene	833-81-8	18.60	1.0412	2	28400	C15H16	2',4"-dimethyldiphenylmethane	21895-17-0	23.75	0.9811	2
28268	C15H14Cl2O	proclonol	14088-71-2	25.00	1.2199	2	28401	C15H16	3',3"-dimethyldiphenylmethane	---	23.75	0.9811	2
28269	C15H14F3N3	N,N-dimethyl-4-[[3-(trifluoromethyl)phenyl]a*	328-96-1	25.00	1.2594	2	28402	C15H16	3',4"-dimethyldiphenylmethane	21895-16-9	23.75	0.9811	2
28271	C15H14F3N3O4S2	benzylhydroflumethiazide	73-48-3	25.00	1.4711	2	28403	C15H16	4',4"-dimethyldiphenylmethane	4957-14-6	20.00	0.9800	1
28273	C15H14N2	di(p-tolyl)carbodiimide	726-42-1	20.00	1.1500	1	28404	C15H16	4-isopropylbiphenyl	7116-95-2	23.75	0.9811	2
28274	C15H14N2O	5,5-diphenyl-4-imidazolidinone	3254-93-1	25.00	1.1647	2	28408	C15H16	isopropylbiphenyl	25640-78-2	23.75	0.9811	2
28276	C15H14N2OS2	2-(4-methoxyphenyl)-4,4-bis(methylthio)-1,3-*	64573-34-8	25.00	1.2829	2	28414	C15H16Cl3N3O2	N-propyl-N-(2-(2,4,6-trichlorophenoxy)ethyl)*	67747-09-5	25.00	1.3695	2
28282	C15H14N4S	4-N,N-dimethylaminoazobenzene-4'-isothiocyan*	7612-98-8	25.00	1.2660	2	28415	C15H16F5NO2S2	dithiopyr	97886-45-8	25.00	1.3583	2
28285	C15H14O	3,4-dihydro-2-phenyl-2H-1-benzopyran	494-12-2	21.33	1.1133	2	28416	C15H16N2O	N,N'-dimethyl-N,N'-diphenylurea	611-92-7	25.00	1.1250	2
28286	C15H14O	4,4'-dimethylbenzophenone	611-97-2	21.33	1.1133	2	28417	C15H16N2O	N'-ethyl-N,N-diphenylurea	18168-01-9	25.00	1.1250	2
28288	C15H14O	(3,4-dimethylphenyl)phenylmethanone	2571-39-3	21.33	1.1133	2	28419	C15H16N2O	neuralex	7654-03-7	25.00	1.1250	2
28289	C15H14O	1,1-diphenyl-2-propanone	781-35-1	21.33	1.1133	2	28423	C15H16N2S	1,3-di-o-tolyl-2-thiourea	137-97-3	25.00	1.1468	2
28290	C15H14O	1,3-diphenyl-2-propanone	102-04-5	25.00	1.1950	1	28427	C15H16N4O	pyrazapon	26308-28-1	25.00	1.2081	2
28292	C15H14O	trans-1-methoxy-4-(2-phenylvinyl)benzene	1694-19-5	21.33	1.1133	2	28428	C15H16N4O5S	sulfometuron methyl	74222-97-2	25.00	1.4008	2
28293	C15H14O	dibenzosuberol	1210-34-0	21.33	1.1133	2	28429	C15H16O	p-cumylphenol	599-64-4	73.15	1.2228	2
28294	C15H14O	3,4'-dimethylbenzophenone	13152-94-8	21.33	1.1133	2	28431	C15H16O	beta-phenylbenzenepropanol	3536-29-6	24.00	1.0585	1
28295	C15H14O	9,9-dimethylxanthene	19814-75-6	21.33	1.1133	2	28433	C15H16O	1,1-diphenyl-2-propanol	29338-49-6	23.00	1.0618	2
28297	C15H14O	4-methoxystilbene	1142-15-0	21.33	1.1133	2	28436	C15H16O2	bisphenol a	80-05-7	25.00	1.1950	1

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
28437	C15H16O2	1,1-bis(4-hydroxyphenyl)propane	1576-13-2	25.00	1.0833	2	28611	C15H21FeO6	iron(iii) acetylacetonate	14024-18-1	25.00	5.2400	1
28438	C15H16O2	1,2-diphenoxypropane	69813-63-4	33.00	1.0748	1	28612	C15H21GaO6	gallium(iii) acetylacetonate	14405-43-7	25.00	1.4200	1
28439	C15H16O2	1,3-diphenoxypropane	726-44-3	25.00	1.0833	2	28616	C15H21NOS	S-1-methyl-1-phenylethyl piperidine 1-carbot*	61432-55-1	25.00	1.0644	2
28440	C15H16O2	4-(6-methoxy-2-naphthyl)-2-butanone	42924-53-8	25.00	1.0833	2	28617	C15H21NO2	meperidine	57-42-1	25.00	1.0414	2
28441	C15H16O3	1,3-diphenoxy-2-propanol	622-04-8	24.00	1.1790	1	28619	C15H21NO2	b-eucaine	500-34-5	25.00	1.0414	2
28442	C15H16O3	4-benzyloxy-3-methoxybenzyl alcohol	33693-48-0	25.00	1.1292	2	28621	C15H21NO2	ketobemidone	469-79-4	25.00	1.0414	2
28443	C15H16O3	diendo-3-benzoylbicyclo[2.2.1]heptane-2-carb*	212757-12-5	25.00	1.1292	2	28623	C15H21NO4	metalaxyl	57837-19-1	25.00	1.1230	2
28444	C15H16O3	4,4'-dimethoxybenzhydrol	728-87-0	25.00	1.1292	2	28625	C15H21NO4	boc-DL-2'-methylphenylalanine	139558-50-2	25.00	1.1230	2
28445	C15H16O5	(-)-6b-hydroxymethyl-7a-benzoyloxy-cis-2-oxa*	39746-00-4	25.00	1.2140	2	28626	C15H21NO4	6,7-diethoxy-1,2,3,4-tetrahydroisoquinoline-*	336185-23-0	25.00	1.1230	2
28446	C15H16O6	picrotoxinin	17617-45-7	25.00	1.2534	2	28627	C15H21NO4	N-[(S)-(+)-1-ethoxycarbonyl)-3-phenylpropyl]*	82717-96-2	25.00	1.1230	2
28447	C15H16O8	7-(beta-D-glucopyranosyloxy)-2H-1-benzopyran*	93-39-0	25.00	1.3267	2	28630	C15H21NO4S	boc-S-benzyl-L-cysteine	5068-28-0	25.00	1.1782	2
28448	C15H16O9	esculin	531-75-9	25.00	1.3609	2	28633	C15H21NO5	N-boc-O-benzyl-L-serine	23680-31-1	25.00	1.1611	2
28461	C15H17FN4O3	enoxacin	74011-58-8	25.00	1.2931	2	28634	C15H21NO5	N-boc-O-benzyl-D-serine	47173-80-8	25.00	1.1611	2
28462	C15H17I2NO2	octanoic acid, 4-cyano-2,6-diiodophenyl ester	3861-47-0	25.00	1.7974	2	28639	C15H21N3O2	physostigmine	57-47-6	25.00	1.1193	2
28463	C15H17N	N-benzyl-N-ethylaniline	92-59-1	55.00	1.0010	1	28641	C15H21N3O3S	diamicron	21187-98-4	25.00	1.2105	2
28467	C15H17N	3,3-diphenylpropylamine	5586-73-2	32.50	1.0035	2	28642	C15H21N5O5	trans-zeatin-riboside	6025-53-2	25.00	1.2949	2
28470	C15H17NO4	cis-2-(benzyloxycarbonylamino)-4-cyclohexene*	124753-65-7	25.00	1.1933	2	28663	C15H22N3O4	3-(2-maleimidoethylcarbamoyl)-proxyl, freera*	66641-27-8	25.00	1.1781	2
28472	C15H17NS2	bitiodin	5169-78-8	25.00	1.1506	2	28664	C15H22O	alpha-vetivone	15764-04-2	20.00	1.0035	1
28473	C15H17N3	N,N'-di(o-tolyl)guanidine	97-39-2	20.00	1.1000	1	28665	C15H22O	beta-vetivone	18444-79-6	20.00	1.0001	1
28474	C15H17N3	4-dimethylamino-2-methylazobenzene	54-88-6	25.00	1.1041	2	28666	C15H22O	3,5-bis(tert-butyl)benzaldehyde	17610-00-3	22.50	1.0094	2
28489	C15H17N3O5	(2R)-2-[(4-ethyl-2,3-dioxopiperazinyl)carbon*	63422-71-9	25.00	1.3043	2	28671	C15H22O2	4-octylbenzoic acid	3575-31-3	25.00	0.9856	2
28490	C15H17N3O6	(2R)-2-[(4-ethyl-2,3-dioxopiperazinyl)carbon*	62893-24-7	25.00	1.3389	2	28673	C15H22O2	3,5-di-tert-butyl-4-hydroxybenzaldehyde	1620-98-0	25.00	0.9856	2
28497	C15H18	1-pentylnaphthalene	86-89-5	-24.36	1.1641	2	28674	C15H22O2	3,5-di-tert-butylbenzoic acid	16225-26-6	25.00	0.9856	2
28498	C15H18	1,4-dimethyl-7-isopropylazulene	489-84-9	20.00	0.9730	1	28682	C15H22O3	gemfibrozil	25812-30-0	25.00	1.0230	2
28499	C15H18	4,8-dimethyl-2-isopropylazulene	529-08-8	19.00	0.9735	1	28683	C15H22O3	4-octyloxybenzoic acid	2493-84-7	25.00	1.0230	2
28500	C15H18ClN3O	cyproconazole	94361-06-5	25.00	1.1955	2	28684	C15H22O3	3,5-di-tert-butyl-4-hydroxybenzoic acid	1421-49-4	25.00	1.0230	2
28501	C15H18Cl2N2O3	oxadiazon	19666-30-9	25.00	1.2870	2	28687	C15H22O5	artemisinine	63968-64-9	25.00	1.1089	2
28503	C15H18N2	N-isopropyl-N'-phenyl-1,4-phenylenediamine	101-72-4	25.00	1.0429	2	28692	C15H23ClO2S	2,4,6-triisopropylbenzenesulfonyl chloride	6553-96-4	25.00	1.1012	2
28505	C15H18N2	4,4'-methylenebis(2-methylaniline)	838-88-0	25.00	1.0429	2	28699	C15H23NO2	alprenolol	13655-52-2	25.00	1.0115	2
28511	C15H18N2O3	N-acetyl-L-tryptophan ethyl ester	2382-80-1	25.00	1.1730	2	28702	C15H23NO4	cycloheximide	66-81-9	25.00	1.0916	2
28513	C15H18N2O4	1-cyano-2-ethoxycarbonyl-6,7-dimethoxy-1,2,3*	68881-59-4	25.00	1.2123	2	28710	C15H24N4O2S2	dithiopropylthiamine	59-58-5	25.00	1.2089	2
28514	C15H18N2O4	(S)-N-boc-4-cyanophenylalanine	131724-45-3	25.00	1.2123	2	28717	C15H25NO4	supinine	551-58-6	25.00	1.0622	2
28515	C15H18N2O4	(S)-N-boc-3-cyanophenylalanine	131980-30-8	25.00	1.2123	2	28718	C15H25NO6	indicine-N-oxide	41708-76-3	25.00	1.1344	2
28516	C15H18N2O4	(R)-N-boc-4-cyanophenylalanine	146727-62-0	25.00	1.2123	2	28719	C15H23NO5	streptovitacin A	523-86-4	25.00	1.1290	2
28517	C15H18N2O6	binapacryl	485-31-4	20.00	1.2700	1	28722	C15H23N3O4S	(1-aminocyclohexyl)penicillin	3485-14-1	25.00	1.2116	2
28519	C15H18N2O8	4'-isocyanato-5'-nitrobenzo-15-crown-5	83935-64-2	25.00	1.3527	2	28723	C15H23N3O4S	N-((1-ethyl-2-pyrrolidinyl)methyl)-5-sulfamo*	15676-16-1	25.00	1.2116	2
28530	C15H18N4O5	mitomycin c	50-07-7	25.00	1.3184	2	28724	C15H23N3O5S	ethyl 2-(2-aminothiazol-4-yl)-2-(1-tert- but*	86299-46-9	25.00	1.2436	2
28531	C15H18N6O6S	nicosulfuron	111991-09-4	25.00	1.4489	2	28725	C15H24	nonylbenzene	1081-77-2	-24.15	1.0361	2
28533	C15H18O	2-(3-methylbutoxy)naphthalene	635-88-1	12.00	1.0155	1	28728	C15H24	3,5-di-tert-butyltoluene	15181-11-0	25.00	0.8600	1
28534	C15H18O	1-naphthyl pentyl ether	108438-40-0	13.00	1.0112	2	28751	C15H24N2O	aphylline	577-37-7	25.00	0.9948	2
28537	C15H18O2	1-phenylbicyclo[2.2.1]heptane-2-ol acetate	71173-15-4	25.00	1.0481	2	28753	C15H24N2O	lupanine	550-90-3	25.00	0.9948	2
28538	C15H18O3	alpha-santonin	481-06-1	25.00	1.5900	1	28754	C15H24N2O2	hydroxylupanine	15358-48-2	25.00	1.0356	2
28539	C15H18O3	trans-2-(4-methylbenzoyl)-1-cyclohexanecarbo*	151830-92-1	25.00	1.0930	2	28755	C15H24N2O2	p-(butylamino)benzoic acid-2-(dimethylamino)*	94-24-6	25.00	1.0356	2
28540	C15H18O3	cis-2-(4-methylbenzoyl)-1-cyclohexanecarboxy*	107147-13-7	25.00	1.0930	2	28756	C15H24O	2,6-di-tert-butyl-p-cresol	128-37-0	69.75	1.0500	1
28542	C15H18O4	helenalin	6754-13-8	25.00	1.1356	2	28757	C15H24O	nonylphenol	25154-52-3	6.00	1.1238	1
28543	C15H18O4	parthenicin	508-59-8	25.00	1.1356	2	28758	C15H24O	2,4-di-tert-butyl-5-methylphenol	497-39-2	80.00	0.9120	1
28544	C15H18O5	coriamyrtin	2571-86-0	25.00	1.1763	2	28759	C15H24O	2,4-di-tert-butyl-6-methylphenol	616-55-7	80.00	0.8910	1
28545	C15H18O6	cedrin	6040-62-6	25.00	1.2151	2	28763	C15H24O	(-)-caryophyllene oxide	1139-30-6	25.00	0.9600	1
28547	C15H18O6	tutin	2571-22-4	25.00	1.2151	2	28764	C15H24O	4-nonylphenol	104-40-5	40.89	0.9313	2
28548	C15H19BrN2O5	N-(3-bromo-2,4,6-trimethylphenylcarbamoylmet*	78266-06-5	25.00	1.4372	2	28765	C15H24O	4-nonylphenol, isomers	84852-15-3	25.00	0.9400	1
28553	C15H19NO2	o-benzoyltropine	19145-60-9	25.00	1.0736	2	28771	C15H24O2	3,5-di-tert-butyl-4-hydroxybenzyl alcohol	88-26-6	25.00	0.9577	2
28554	C15H19NO2	tropacocaine	537-26-8	100.00	1.0426	1	28772	C15H24O2	2,6-di-tert-butyl-4-methoxyphenol	489-01-0	25.00	0.9577	2
28556	C15H19NO4	DL-5-benzoylamino-5-isobutyl-4-oxo-1,3-dioxa*	51127-26-5	25.00	1.1568	2	28782	C15H25ClN2O2	tetracaine hydrochloride	136-47-0	25.00	1.0861	2
28557	C15H19NO4	cis-2-(benzyloxycarbonylamino)-cyclohexaneca*	54867-08-2	25.00	1.1568	2	28785	C15H26N2	sparteine	90-39-1	20.00	1.0196	1
28558	C15H19NO4	N-boc-DL-1-aminoindane-1-carboxylic acid	214139-26-1	25.00	1.1568	2	28787	C15H26O	cedrol	77-53-2	90.00	0.9479	1
28559	C15H19NO4	(1S,2R)-N-boc-1-amino-2-phenylcyclopropaneca*	151910-11-1	25.00	1.1568	2	28790	C15H26O	guaiol	489-86-1	100.00	0.9074	1
28560	C15H19NO4	(1S,2S)-N-boc-1-amino-2-phenylcyclopropaneca*	180322-79-6	25.00	1.1568	2	28791	C15H26O	juniperol	465-24-7	20.00	1.0441	1
28561	C15H19NO4	(1R,2R)-N-boc-1-amino-2-phenylcyclopropaneca*	180322-86-5	25.00	1.1568	2	28792	C15H26O	ledol	577-27-5	100.00	0.9078	1
28562	C15H19NO4	(1R,2S)-N-boc-1-amino-2-phenylcyclopropaneca*	244205-60-5	25.00	1.1568	2	28794	C15H26O	patchouli alcohol	5986-55-0	65.00	0.9906	1
28563	C15H19NO4	N-boc-L-1,2,3,4-tetrahydroisoquinoline-3-car*	78879-20-6	25.00	1.1568	2	28805	C15H26O4	prostaglandin viii	---	25.00	1.0125	2
28566	C15H19NO5	4-[bis[2-(acetyloxy)ethyl]amino]benzaldehyde	41313-77-3	25.00	1.1955	2	28812	C15H27NO3S	tetraethylammonium p-toluenesulfonate	733-44-8	25.00	1.0550	2
28568	C15H19NO6	4'-isocyanatobenzo-15-crown-5	83935-62-0	25.00	1.2325	2	28821	C15H28	2-pentadecyne	52112-25-1	23.83	0.8579	2
28569	C15H19NO7	3',5'-diacetylthymidine	6979-97-1	25.00	1.2679	2	28822	C15H28	3-pentadecyne	61886-61-1	23.83	0.8579	2
28570	C15H19N2O2	2,2,5,5-tetramethyl-4-phenacetyliden-imidazo*	84271-26-1	25.00	1.1142	2	28826	C15H28O	cyclopentadecanone	502-72-7	25.00	0.8895	1
28571	C15H19N2O5	3-(4-nitrophenoxycarbonyl)-proxyl, free radi*	21913-97-3	25.00	1.2313	2	28835	C15H28O4	dimethyl brassylate	1472-87-3	25.00	0.9868	2
28573	C15H19N3O3	imazethapyr	81335-77-5	25.00	1.1926	2	28837	C15H29Br	cis-1-bromo-1-pentadecene	66374-76-3	25.00	1.0409	2
28574	C15H19N3O5	2,5-bis(1-aziridinyl)-3-(2-carbamoyloxy-1-me*	24279-91-2	25.00	1.2659	2	28838	C15H29Br	trans-1-bromo-1-pentadecene	66374-77-4	25.00	1.0409	2
28577	C15H20BrNO5	(S)-N-boc-(5-bromo-2-methoxyphenyl)alanine	261165-03-1	25.00	1.3876	2	28839	C15H29Br3	1,1,1-tribromopentadecane	62127-71-3	25.00	1.4140	2
28578	C15H20BrNO5	(R)-N-boc-(5-bromo-2-methoxyphenyl)alanine	261380-17-0	25.00	1.3876	2	28842	C15H29Cl3	1,1,1-trichloropentadecane	62108-59-2	25.00	1.0197	2
28583	C15H20N2O2	6,7-diethoxy-1,2,3,4-tetrahydro-1-isoquinoli*	170306-62-4	25.00	1.0973	2	28845	C15H29F3	1,1,1-trifluoropentadecane	62127-00-8	25.00	0.9258	2
28588	C15H20N2O4S	acetohexamide	968-81-0	25.00	1.2286	2	28846	C15H29I	cis-1-iodo-1-pentadecene	66291-44-9	25.00	1.1733	2
28589	C15H20N2O5	N-(2,4,6-trimethylphenylcarbamoylmethyl)imin*	65717-98-8	25.00	1.2134	2	28847	C15H29I	trans-1-iodo-1-pentadecene	66291-45-0	25.00	1.1733	2
28593	C15H20O2	alantolactone	546-43-0	25.00	1.0156	2	28848	C15H29I3	1,1,1-triiodopentadecane	---	25.00	1.7168	2
28594	C15H20O2	helenine	1407-14-3	25.00	1.0156	2	28853	C15H29NO7	methyl-6-O-(N-heptylcarbamoyl)-a-D-glucopyra*	115457-83-5	25.00	1.1119	2
28595	C15H20O4	abscisic acid	21293-29-8	25.00	1.1014	2	28858	C15H30	cyclopentadecane	295-48-7	61.00	0.8364	1
28597	C15H20O4	dihydrohelenalin	34257-95-9	25.00	1.1014	2	28859	C15H30	1-pentadecene	13360-61-7	-3.73	0.9279	2
28601	C15H20O6	vomitoxin	51481-10-8	25.00	1.1795	2	28862.1	C15H30	trans-2-pentadecene	74392-36-2	-10.15	1.0637	2
28602	C15H20O7	4-carboxybenzo-15-crown-5	56683-55-7	25.00	1.2160	2	28864	C15H30Br2	1,1-dibromopentadecane	62168-32-5	25.00	1.2247	2
28603	C15H20O7	nivalenol	23282-20-4	25.00	1.2160	2	28865	C15H30Cl2	1,1-dichloropentadecane	822-15-1	25.00	0.9473	2
28609	C15H21CrO6	chromium acetylacetonate	21679-31-2	25.00	1.3400	1	28866	C15H30F2	1,1-difluoropentadecane	62127-04-2	25.00	0.8797	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
28867	C15H30I2	1,1-diiodopentadecane	66325-78-8	25.00	1.4521	2	29049	C16H12O	2,5-diphenylfuran	955-83-9	25.00	1.1326	2
28873	C15H30O	pentadecanal	2765-11-9	31.00	0.8492	2	29050	C16H12O	1-phenoxynaphthalene	3402-76-4	25.00	1.1326	2
28874	C15H30O	2-pentadecanone	2345-28-0	39.00	0.8182	1	29051	C16H12O	2-phenoxynaphthalene	19420-29-2	25.00	1.1326	2
28875	C15H30O	8-pentadecanone	818-23-5	39.00	0.8180	1	29052	C16H12O	9-acetylanthracene	784-04-3	25.00	1.1326	2
28876	C15H30O	cyclopentadecanol	4727-17-7	20.00	0.9300	1	29053	C16H12O	10-methylanthracene-9-carboxaldehyde	7072-00-6	25.00	1.1326	2
28877	C15H30O	1-pentadecen-3-ol	99814-65-0	32.00	0.8340	1	29054	C16H12O2	1,4-dimethyl-9,10-anthracenedione	1519-36-4	25.00	1.1807	2
28879	C15H30O2	pentadecanoic acid	1002-84-2	20.00	1.0200	1	29055	C16H12O2	2,3-dimethyl-9,10-anthracenedione	6531-35-7	25.00	1.1807	2
28880	C15H30O2	tetradecyl formate	5451-63-8	29.29	0.8566	2	29056	C16H12O2	2,6-dimethyl-9,10-anthracenedione	3837-38-5	25.00	1.1807	2
28882	C15H30O2	dodecyl propanoate	6221-93-8	29.29	0.8566	2	29057	C16H12O2	trans-1,2-dibenzoylethylene	959-28-4	25.00	1.1807	2
28883	C15H30O2	undecyl butanoate	5461-02-9	29.29	0.8566	2	29058	C16H12O2	2-ethylanthraquinone	84-51-5	25.00	1.1807	2
28892	C15H30O4	glycerol 1-monododecanoate, (±)	40738-26-9	97.00	0.9248	1	29060	C16H12O3	2-(4-methoxyphenyl)-1H-indene-1,3(2H)-dione	117-37-3	25.00	1.2263	2
28895	C15H30S	thiacyclohexadecane	295-68-1	25.00	0.8717	2	29061	C16H12O4	diphenyl maleate	7242-17-3	25.00	1.2694	2
28903	C15H31NO2	1-nitropentadecane	39220-65-0	25.00	0.9110	2	29062	C16H12O4	formononetin	485-72-3	25.00	1.2694	2
28904	C15H32	pentadecane	629-62-9	9.92	0.9134	2	29063	C16H12O4	1,5-dimethoxyanthraquinone	6448-90-4	25.00	1.2694	2
28912	C15H32O	1-pentadecanol	629-76-5	43.90	0.9639	2	29064	C16H12O4	oxepinac	55689-65-1	25.00	1.2694	2
28913	C15H32O	2-pentadecanol	1653-34-5	20.00	0.8328	1	29065	C16H12O5	acacetin	480-44-4	25.00	1.3103	2
28914	C15H32O	3-pentadecanol	53346-71-7	22.50	0.8338	2	29066	C16H12O5	oroxylin a	480-11-5	25.00	1.3103	2
28915	C15H32O	2,8-dimethyl-6-isobutylnonanol-4	10143-20-1	22.50	0.8338	2	29067	C16H12O5	prunetin	552-59-0	25.00	1.3103	2
28916	C15H32O2	1,2-pentadecanediol	33968-47-7	25.00	0.8642	2	29068	C16H12O6	hematein	475-25-2	25.00	1.3491	2
28917	C15H32O2	1,3-pentadecanediol	---	25.00	0.8642	2	29069	C16H12O6	acetylsalicylsalicylic acid	530-75-6	25.00	1.3491	2
28918	C15H32O2	1,4-pentadecanediol	---	25.00	0.8642	2	29070	C16H12O6	6-methoxy-3-methyl-1,7,8-trihydroxyanthraqui*	7213-59-4	25.00	1.3491	2
28919	C15H32O2	1,15-pentadecanediol	14722-40-8	25.00	0.8642	2	29072	C16H12O7	rhamnetin	90-19-7	25.00	1.3860	2
28920	C15H32O10	tripentaerythritol, hydroxyl content min.	78-24-0	25.00	1.1362	2	29073	C16H12S	1-(phenylthio)naphthalene	7570-98-1	15.00	1.1670	1
28931	C15H33N	pentadecylamine	2570-26-5	20.00	0.8104	1	29076	C16H13ClN2O	7-chloro-1,3-dihydro-1-methyl-5-phenyl-2H-1,*	439-14-5	25.00	1.2673	2
28932	C15H33N	methyltetradecylamine	29369-63-9	21.33	0.8103	2	29077	C16H13ClN2O	mazindol	22232-71-9	25.00	1.2673	2
28933	C15H33N	ethyltridecylamine	59570-06-8	21.33	0.8103	2	29078	C16H13ClN2O2	7-chloro-1,3-dihydro-3-hydroxy-1-methyl-5-ph*	846-50-4	25.00	1.3059	2
28936	C15H33N	tripentylamine	621-77-2	0.00	0.9370	2	29079	C16H13ClN2O2	7-chloro-1-methyl-5-phenyl-1H-1,5-benzodiaze*	22316-47-8	25.00	1.3059	2
28949	C15H34BrN	dodecyltrimethylammonium bromide	1119-94-4	25.00	1.0119	2	29080	C16H13ClN2O2	tolnidamide	50454-68-7	25.00	1.3059	2
28950	C15H34ClN	dodecyltrimethylammonium chloride	112-00-5	25.00	0.8737	2	29083	C16H13FO2	4-methoxy-4'-fluorochalcone	2965-64-2	25.00	1.1948	2
28953	C16H5N5O6	(2,4,7-trinitro-9-fluorenylidene)malononitri*	1172-02-7	25.00	1.7113	2	29086	C16H13I3N2O3	N-(3-amino-2,4,6-triiodobenzoyl)-N-(2-carbox*	3115-05-7	25.00	2.1751	2
28957	C16H6O7	bis-(3-phthalyl anhydride) ether	1823-59-2	25.00	1.5423	2	29087	C16H13N	3-benzylisoquinoline	90210-56-3	25.00	1.1096	2
28961	C16H8N2	9,10-anthracenedicarbonitrile	1217-45-4	25.00	1.2727	2	29088	C16H13N	N-phenyl-2-naphthalenamine	135-88-6	25.00	1.1096	2
28966	C16H8N2O4	1,3-dinitropyrene	75321-20-9	25.00	1.4482	2	29089	C16H13N	N-phenyl-1-naphthylamine	90-30-2	25.00	1.2000	1
28970	C16H8O2	aceanthrenequinone	6373-11-1	25.00	1.2755	2	29090	C16H13N	6-benzylquinoline	54884-99-0	25.00	1.1096	2
28973	C16H8O2S2	delta2,2'(3H,3'H)-bibenzo[b]thiophene-3,3'-d*	522-75-8	25.00	1.3901	2	29091	C16H13N	1-(phenylmethyl)isoquinoline	6907-59-1	25.00	1.1096	2
28974	C16H9Br	1-bromopyrene	1714-29-0	25.00	1.4403	2	29092	C16H13NO	2-methyl-4,5-diphenyloxazole	14224-99-8	25.00	1.1160	1
28975	C16H9Cl	1-chloropyrene	34244-14-9	25.00	1.2293	2	29098	C16H13NO5	(2-naphthoxy)acetic acid, N-hydroxysuccinimi*	81012-92-2	25.00	1.3260	2
28976	C16H9F3O	9-(trifluoroacetyl)-anthracene	53531-31-0	25.00	1.3021	2	29099	C16H13NS	4-(4-biphenylyl)-2-methylthiazole	24864-19-5	25.00	1.1790	2
28977	C16H9F21O2	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,1*	2144-54-9	25.00	1.6040	2	29100	C16H13N3	1-(phenylazo)-2-naphthalenamine	85-84-7	25.00	1.1998	2
28978	C16H9NO2	3-nitrofluoranthene; (purity)	892-21-7	25.00	1.2957	2	29104	C16H13N3O3	1,3-dihydro-1-methyl-7-nitro-5-phenyl-2H-1,4*	2011-67-8	25.00	1.3244	2
28979	C16H9NO2	1-nitropyrene	5522-43-0	25.00	1.2957	2	29105	C16H13N3O3	methyl-5-benzoyl benzimidazole-2-carbamate	31431-39-7	25.00	1.3244	2
28981	C16H9NO2	4-nitropyrene	57835-92-4	25.00	1.2957	2	29107	C16H14	1,3-dimethylanthracene	610-46-8	75.50	1.0426	2
28984	C16H10	fluoranthene	206-44-0	25.00	1.2510	1	29108	C16H14	2,10-dimethylanthracene	27532-76-9	75.50	1.0426	2
28985	C16H10	pyrene	129-00-0	22.70	1.2710	1	29109	C16H14	9,10-dimethylanthracene	781-43-1	75.50	1.0426	2
28986	C16H10	1,4-diphenylbutadiyne	886-66-8	24.00	1.2615	2	29110	C16H14	9-ethylanthracene	605-83-4	99.00	1.0413	1
28987	C16H10ClN3	2-(p-chlorophenyl)-S-triazolo(5,1-a)isoquino*	66535-86-2	25.00	1.3333	2	29111	C16H14	9,10-dimethylphenanthrene	604-83-1	75.50	1.0426	2
28989	C16H10Cl4O5	diploicin	527-93-5	25.00	1.5325	2	29112	C16H14	9-ethylphenanthrene	3674-75-7	78.00	1.0603	1
28993	C16H10N2	benzo[a]phenazine	225-61-6	25.00	1.2225	2	29113	C16H14	cis,cis-1,4-diphenyl-1,3-butadiene	5807-76-1	100.00	0.9697	1
28994	C16H10N2O2	indigo	482-89-3	25.00	1.3141	2	29114	C16H14	trans,trans-1,4-diphenyl-1,3-butadiene	538-81-8	75.50	1.0426	2
28998	C16H10O	benzo[b]naphtho[2,3-d]furan	243-42-5	25.00	1.1767	2	29115	C16H14	3,6-dimethylphenanthrene	1576-67-6	75.50	1.0426	2
28999	C16H10O	1-hydroxypyrene	5315-79-7	25.00	1.1767	2	29116	C16H14	1,4-dimethylphenanthrene	22349-59-3	75.50	1.0426	2
29000	C16H10O2	9,10-anthracenedicarboxaldehyde	7044-91-9	25.00	1.2259	2	29117	C16H14	1,4-diphenylbuta-1,3-diene	886-65-7	75.50	1.0426	2
29002	C16H10S	benzo[b]naphtho[2,3-d]thiophene	243-46-9	25.00	1.1990	2	29118	C16H14	2-methyl-7-phenyl-1H-indene	153733-75-6	75.50	1.0426	2
29003	C16H11ClN4	8-chloro-6-phenyl-4H-S-triazolo(4,3-a)(1,4)b*	29975-16-4	25.00	1.3486	2	29120	C16H14	2,7-dimethylphenanthrene	1576-69-8	75.50	1.0426	2
29004	C16H11F3O	(-)-2,2,2-trifluoro-1-(9-anthryl)ethanol	53531-34-3	25.00	1.2578	2	29121	C16H14	2,5-dimethylphenanthrene	3674-66-6	75.50	1.0426	2
29005	C16H11F3O	(S)-(+)-2,2,2-trifluoro-1-(9-anthryl)ethanol	60646-30-2	25.00	1.2578	2	29122	C16H14	4,5-dimethylphenanthrene	3674-69-9	75.50	1.0426	2
29006	C16H11F19O3	4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadeca*	88752-37-8	25.00	1.5738	2	29124	C16H14	dimethylanthracene	29063-00-1	75.50	1.0426	2
29007	C16H11N	7H-benzo[c]carbazole	205-25-4	25.00	1.1519	2	29125	C16H14BrN	4-bromo-2,2-diphenylbutyronitrile	39186-58-8	25.00	1.3524	2
29008	C16H11N	3-aminofluoranthene	2693-46-1	25.00	1.1519	2	29126	C16H14Br2N2O2	N,N'-bis-(5-bromosalicylidene)ethylenediamine	17937-38-1	25.00	1.6560	2
29009	C16H11N	1-aminopyrene	1606-67-3	25.00	1.1519	2	29127	C16H14ClN3O	chlorodiazepoxide	58-25-3	25.00	1.2841	2
29010	C16H11N	11H-benzo(a)carbazole	239-01-0	25.00	1.1519	2	29129	C16H14Cl2O3	chlorobenzilate	510-15-6	20.00	1.2816	1
29013	C16H11NO	phenyl-4-quinolinylmethanone	54885-00-6	25.00	1.2010	2	29130	C16H14Cl2O4	diclofop-methyl	51338-27-3	25.00	1.3394	2
29014	C16H11NO2	2-(phenylamino)-1,4-naphthalenedione	6628-97-3	25.00	1.2473	2	29133	C16H14FN3O	afloqualone	56287-74-2	25.00	1.2529	2
29015	C16H11NO2	2-phenyl-4-quinolinecarboxylic acid	132-60-5	25.00	1.2473	2	29135	C16H14N2	N,N'-bis(phenylmethylene)-1,2-ethylenediamine	104-71-2	25.00	1.1353	2
29018	C16H11NO3	3-hydroxy-2-phenyl-4-quinolinecarboxylic acid	485-89-2	25.00	1.2911	2	29136	C16H14N2O	1-methyl-2-benzyl-4(1H)-quinazolinone	6873-15-0	25.00	1.1807	2
29020	C16H11N3O3	4-(4-nitrophenylazo)-1-naphthol	5290-62-0	25.00	1.3708	2	29137	C16H14N2O	2-methyl-3-(2-methylphenyl)-4(3H)-quinazolin*	72-44-6	25.00	1.1807	2
29021	C16H11N3O3	para red, dye content ca.	6410-10-2	25.00	1.3708	2	29139	C16H14N2O2	coumarin 337	55804-68-7	25.00	1.2237	2
29024	C16H12	1-phenylnaphthalene	605-02-7	20.00	1.0960	1	29140	C16H14N2O2	5-(4-methylphenyl)-5-phenylhydantoin	51169-17-6	25.00	1.2237	2
29025	C16H12	2-phenylnaphthalene	612-94-2	20.00	1.2180	1	29145	C16H14N2O3	bendazolic acid	20187-55-7	25.00	1.2646	2
29026	C16H12	9-vinylanthracene	2444-68-0	20.00	1.1570	2	29147	C16H14N2O4	dibenzyl azodicarboxylate	2449-05-0	25.00	1.3035	2
29028	C16H12ClFN2O	fludiazepam	3900-31-0	25.00	1.3159	2	29156	C16H14O2	benzyl trans-cinnamate	78277-23-3	15.00	1.1090	1
29032	C16H12ClNO3	oraflex	51234-28-7	25.00	1.3283	2	29157	C16H14O2	3-(3-methoxyphenyl)-1-phenyl-2-propen-1-one	5470-91-7	25.00	1.1395	2
29034	C16H12Cl2	9,10-bis(chloromethyl)anthracene	10387-13-0	25.00	1.2326	2	29158	C16H14O2	3-(4-methoxyphenyl)-1-phenyl-2-propen-1-one	959-33-1	25.00	1.1395	2
29035	C16H12Cl2N2O2	N-methyllorazepam	848-75-9	25.00	1.3795	2	29159	C16H14O2	benzyl cinnamate	103-41-3	25.00	1.1395	2
29038	C16H12FN3O3	flubendazole	31430-15-6	25.00	1.3720	2	29160	C16H14O2	4,4'-diacetylbiphenyl	787-69-9	25.00	1.1395	2
29039	C16H12FN3O3	flunitrazepam	1622-62-4	25.00	1.3720	2	29161	C16H14O2	1,4-dimethoxyanthracene	13076-29-4	25.00	1.1395	2
29040	C16H12NO3	1,2,3,3a,6,7,12b,12c-octadehydro-2-hydroxyly*	2121-12-2	25.00	1.2682	2	29162	C16H14O2	4,4'-dimethylbenzil	3457-48-5	25.00	1.1395	2
29041	C16H12N2	4,4'-dicyanobibenzyl	4381-02-6	25.00	1.1769	2	29165	C16H14O3	benzeneacetic anhydride	1555-80-2	25.00	1.1842	2
29044	C16H12N2O	2-(phenylazo)-1-naphthalenol	3375-23-3	25.00	1.2232	2	29166	C16H14O3	ethyl 2-benzoylbenzoate	604-61-5	64.00	1.2210	1
29046	C16H12N2O2	3,3'-dimethyl-4,4'-biphenylene diisocyanate	91-97-4	25.00	1.2669	2	29167	C16H14O3	2-methylbenzoic anhydride	607-86-3	25.00	1.1842	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
29168	C16H14O3	3-methylbenzoic anhydride	21436-44-2	25.00	1.1842	2	29329	C16H17NO3	O-benzyl-L-tyrosine	16652-64-5	25.00	1.1670	2
29171	C16H14O3	3-(4-biphenylylcarbonyl)propionic acid	36330-85-5	25.00	1.1842	2	29330	C16H17NO4	lycorine	476-28-8	25.00	1.2066	2
29172	C16H14O3	trans-3-(o-methoxyphenyl)-2-phenylacrylic ac*	21140-85-2	25.00	1.1842	2	29331	C16H17NO4	3-endo-(benzyloxycarbonylamino)bicyclo[2.2.1*	---	25.00	1.2066	2
29174	C16H14O4	dimethyl diphenate	5807-64-7	25.00	1.2266	2	29332	C16H17NO4	3-exo-(benzyloxycarbonylamino)bicyclo]2.2.1]*	109853-34-1	25.00	1.2066	2
29175	C16H14O4	diphenyl succinate	621-14-7	25.00	1.2266	2	29336	C16H17N3O	lysergamide	478-94-4	25.00	1.1635	2
29176	C16H14O4	ethylene glycol dibenzoate	94-49-5	25.00	1.2266	2	29338	C16H17N3O4	anthramycin	4803-27-4	25.00	1.2787	2
29177	C16H14O4	imperatorin	482-44-0	25.00	1.2266	2	29340	C16H17N3O5S	duricef	50370-12-2	25.00	1.3570	2
29178	C16H14O4	dibenzyl oxalate	7579-36-4	25.00	1.2266	2	29341	C16H17N3O7S2	cefoxitin	35607-66-0	25.00	1.4511	2
29179	C16H14O4	4,4'-dimethoxybenzil	1226-42-2	25.00	1.2266	2	29343	C16H18	1,2-diphenylbutane	5223-59-6	20.00	0.9673	1
29180	C16H14O4	dimethyl biphenyl-4,4'-dicarboxylate	792-74-5	25.00	1.2266	2	29344	C16H18	1,4-diphenylbutane	1083-56-3	20.00	0.9880	1
29181	C16H14O4	phenylhydroquinone diacetate	58244-28-3	25.00	1.2266	2	29346	C16H18	1,3-diphenylbutane, (±)	116783-21-2	20.00	0.9722	1
29184	C16H14O5	dibenzyldicarbonate	31139-36-3	25.00	1.1700	1	29348	C16H18	2-butyl-1,1'-biphenyl	54532-97-7	20.63	0.9761	2
29185	C16H14O5	4-methoxybenzoic anhydride	794-95-5	25.00	1.2670	2	29349	C16H18	2,2',4,4'-tetramethyl-1,1'-biphenyl	3976-36-1	20.63	0.9761	2
29187	C16H14O6	2,3-dihydro-5,7-dihydroxy-3-(3-hydroxy-4-met*	99365-26-1	25.00	1.3053	2	29350	C16H18	2,2',5,5'-tetramethyl-1,1'-biphenyl	3075-84-1	20.63	0.9761	2
29188	C16H14O6	hematoxylin	517-28-2	25.00	1.3053	2	29352	C16H18	1,2-di(p-tolyl)ethane	538-39-6	20.63	0.9761	2
29189	C16H14O6	hesperetin	520-33-2	25.00	1.3053	2	29356	C16H18	DL-2,3-diphenylbutane	2726-21-8	20.63	0.9761	2
29191	C16H14O6	rosanomycin A	52934-83-5	25.00	1.3053	2	29357	C16H18	1,1'-(1,2-ethanediyl)bis[2-methylbenzene	952-80-7	20.63	0.9761	2
29192	C16H14O6S	4,4'-sulfonylbis-(methylbenzoate)	3965-53-5	25.00	1.3529	2	29358	C16H18	meso-2,3-diphenylbutane	4613-11-0	20.63	0.9761	2
29194	C16H15ClN2	7-chloro-2,3-dihydro-1-methyl-5-phenyl-1H-1,*	2898-12-6	25.00	1.1871	2	29359.1	C16H18	4-ethyl-bibenzyl	7439-15-8	18.85	1.2262	2
29195	C16H15ClN2OS	5-(2-chlorophenyl)-7-ethyl-1-methyl-1,3-dihy*	33671-46-4	25.00	1.2791	2	29367	C16H18FN3O3	baccidal	70458-96-7	25.00	1.2504	2
29196	C16H15ClO2	ethyl chlorodiphenylacetate	52460-86-3	25.00	1.1903	2	29371	C16H18N2	1,4-diphenylpiperazine	613-39-8	25.00	1.0621	2
29198	C16H15Cl3O2	methoxychlor	72-43-5	25.00	1.4100	1	29372	C16H18N2	agroclavine	548-42-5	25.00	1.0621	2
29200	C16H15FO2	b-fluoroethylic ester of xenylacetic acid	4242-33-5	25.00	1.1556	2	29373	C16H18N2	nomifensine	24526-64-5	25.00	1.0621	2
29202	C16H15F3N2O4	(+/-)-bay K 8644	71145-03-4	25.00	1.3548	2	29374	C16H18N2O	lysergol	602-85-7	25.00	1.1057	2
29204	C16H15NO	cyheptamide	7199-29-3	25.00	1.1180	2	29375	C16H18N2O	elymoclavine	548-43-6	25.00	1.1057	2
29207	C16H15NO2	cinnamyl anthranilate	87-29-6	25.00	1.1626	2	29376	C16H18N2O2	2,2'-diethoxyazobenzene	613-43-4	25.00	1.1472	2
29216	C16H15NO3S	(2S-cis)-(+)-2,3-dihydro-3-hydroxy-2-(4-meth*	42399-49-5	25.00	1.2607	2	29377	C16H18N2O2	4,4'-diethoxyazobenzene	588-52-3	25.00	1.1472	2
29233	C16H16	1,3-diphenyl-1-butene	7614-93-9	20.00	0.9996	1	29378	C16H18N2O3	isopilosine	491-88-3	25.00	1.1869	2
29234	C16H16	cis-2,3-diphenyl-2-butene	782-05-8	20.00	1.0040	1	29379	C16H18N2O3	4,4'-azoxydiphenetole	4792-83-0	25.00	1.1869	2
29235	C16H16	trans-2,3-diphenyl-2-butene	782-06-9	20.00	0.9870	1	29382	C16H18N2O5S	phenoxymethylpenicillin	87-08-1	25.00	1.3072	2
29236	C16H16	2,2'-dimethylstilbene	10311-74-7	19.20	1.0102	2	29385	C16H18N4O2	nialamide	51-12-7	25.00	1.2221	2
29238	C16H16	alpha-ethylstilbene	22692-70-2	18.00	1.0124	1	29386	C16H18N4O2	trivastan	3605-01-4	25.00	1.2221	2
29239	C16H16	1,2,3,6,7,8-hexahydropyrene	1732-13-4	19.20	1.0102	2	29387	C16H18N4O3	2-[ethyl[4-[(4-nitrophenyl)azo]phenyl]amino]*	2872-52-8	25.00	1.2586	2
29240	C16H16	[2.2]paracyclophane	1633-22-3	19.20	1.0102	2	29388	C16H18N4O7S	bensulfuron-methyl	83055-99-6	25.00	1.4262	2
29245	C16H16ClN3O3S	indapamide	26807-65-8	25.00	1.3588	2	29392	C16H18O	beta-phenylbenzenebutanol, (R)	17297-04-0	19.00	1.0090	2
29246	C16H16ClN3O3S	metolazone	17560-51-9	25.00	1.3588	2	29396	C16H18O2	1,1-bis(4-hydroxyphenyl)butane	4731-84-4	25.00	1.0668	2
29252	C16H16N2	3,4,7,8-tetramethyl-1,10-phenanthroline	1660-93-1	25.00	1.0971	2	29397	C16H18O2	bisphenol b	77-40-7	25.00	1.0668	2
29253	C16H16N2OS	10-[(dimethylamino)acetyl]-10H-phenothiazine	518-61-6	25.00	1.2021	2	29398	C16H18O2	2,2'-dimethoxy-5,5'-dimethyl-1,1'-biphenyl	7168-55-0	25.00	1.0668	2
29257	C16H16N4O5	4-bis(2-hydroxyethyl)amino-2-(5-nitro-2-fury*	5055-20-9	25.00	1.3666	2	29399	C16H18O2	2,5'-dimethoxy-2',5-dimethyl-1,1'-biphenyl	72935-12-7	25.00	1.0668	2
29260	C16H16N2O2	isolysergic acid	478-95-5	25.00	1.1840	2	29400	C16H18O2	3,3',5,5'-tetramethyl-[1,1'-biphenyl]-4,4'-d*	2417-04-1	25.00	1.0668	2
29261	C16H16N2O2	lysergic acid	82-58-6	25.00	1.1840	2	29402	C16H18O8	4-methylumbelliferyl-b-D-glucopyranoside	18997-57-4	25.00	1.2970	2
29262	C16H16N2O2	N,N'-bis(salicylidene)ethylenediamine	94-93-9	25.00	1.1840	2	29403	C16H18O9	chlorogenic acid	327-97-9	25.00	1.3298	2
29263	C16H16N2O2	4',4""-biacetanilide	613-35-4	25.00	1.1840	2	29404	C16H18O10	fraxin	524-30-1	25.00	1.3611	2
29268	C16H16N2O4	desmedipham	13684-56-5	25.00	1.2626	2	29407	C16H19ClN4O2S	2-((4-chloro-6-(2,3-xylidino)-2-pyrimidinyl)*	65089-17-0	25.00	1.3038	2
29269	C16H16N2O4	phenmedipham	13684-63-4	25.00	1.2626	2	29408	C16H19ClO2	6-chloro-5-cyclohexyl-1-indancarboxylic acid	28968-07-2	25.00	1.1203	2
29270	C16H16N2O4	vanillin azine	1696-60-2	25.00	1.2626	2	29410	C16H19ClO3	4-(4-cyclohexyl-3-chlorophenyl)-4-oxobutyric*	32808-51-8	25.00	1.1585	2
29271	C16H16N2O4S	acedapsone	77-46-3	25.00	1.3116	2	29414	C16H19N	bis(2-phenylethyl)amine	6308-98-1	25.00	1.0030	2
29272	C16H16N2O6S2	cephalothin	153-61-7	25.00	1.4148	2	29415	C16H19N	2-ethyl-N-(2-ethylphenyl)aniline	64653-59-4	25.00	1.0030	2
29274	C16H16O	3,3-diphenyl-2-butanone	2575-20-4	20.00	1.0690	1	29418	C16H19NO3	beta-erythroidine	466-81-9	25.00	1.1318	2
29275	C16H16O	cyclopropyl diphenyl carbinol	5785-66-0	25.00	1.0555	2	29420	C16H19NO4	benzoylecgonine	519-09-5	25.00	1.1708	2
29276	C16H16O	1,4-diphenyl-1-butanone	5407-91-0	25.00	1.0555	2	29427	C16H19N3	oil yellow DEA	2481-94-9	25.00	1.0866	2
29277	C16H16O2	alpha-benzylbenzenepropanoic acid	618-68-8	19.25	1.1137	2	29431	C16H19N3O4S	aminobenzylpenicillin	69-53-4	25.00	1.2885	2
29279	C16H16O2	[1,1'-biphenyl]-4-butanoic acid	6057-60-9	19.25	1.1137	2	29432	C16H19N3O4S	sefril	38821-53-3	25.00	1.2885	2
29280	C16H16O2	4,4'-dimethoxystilbene	4705-34-4	19.25	1.1137	2	29433	C16H19N3O5S	cefroxadin	51762-05-1	25.00	1.3201	2
29281	C16H16O2	2-ethoxy-1,2-diphenylethanone	574-09-4	17.00	1.1016	1	29439	C16H19N5O8	2',3',5'-triacetylguanosine	6979-94-8	25.00	1.4284	2
29282	C16H16O2	ethyl diphenylacetate	3468-99-3	20.00	1.1860	1	29440	C16H20	1-hexylnaphthalene	2876-53-1	-18.00	1.1402	2
29283	C16H16O2	2-phenylethyl phenylacetate	102-20-5	25.00	1.0770	1	29442	C16H20	1-isopropyl-2,4,7-trimethylnaphthalene	6995-30-8	30.00	0.9721	1
29285	C16H16O2	4-benzyloxy-3-methoxystyrene	55708-65-1	19.25	1.1137	2	29443	C16H20	1,2,5-trimethyl-8-isopropylnaphthalene	6897-76-3	30.00	0.9847	1
29286	C16H16O2	4'-benzyloxypropiophenone	4495-66-3	19.25	1.1137	2	29445	C16H20	2,6-diisopropylnaphthalene	24157-81-1	28.00	0.9657	2
29287	C16H16O2	4-n-propylbiphenyl-4'-carboxylic acid	88038-94-2	19.25	1.1137	2	29446	C16H20	bis(isopropyl)naphthalene	38640-62-9	28.00	0.9657	2
29290.1	C16H16O2	trans-3,5-dimethoxystilbene	21956-56-9	56.40	1.5815	2	29448	C16H20N2	N,N'-dibenzyl-1,2-ethanediamine	140-28-3	20.00	1.0240	1
29291	C16H16O3	ethyl alpha-hydroxydiphenylacetate	52182-15-7	22.50	1.1363	2	29449	C16H20N2	tetramethyl-[1,1'-biphenyl]-4,4'-diamine	34314-06-2	22.50	1.0161	2
29292	C16H16O3	phenyl 2-phenoxybutanoate	116836-19-2	15.00	1.1350	1	29451	C16H20N2	(1R,2R)-(+)-N,N'-dimethyl-1,2-diphenyl-1,2-e*	118628-68-5	22.50	1.0161	2
29295	C16H16O3	4-benzyloxy-3,5-dimethylbenzoic acid	97888-80-7	22.50	1.1363	2	29452	C16H20N2	(1S,2S)-(-)-N,N'-dimethyl-1,2-diphenyl-1,2-e*	70749-06-3	22.50	1.0161	2
29296	C16H16O3	desoxyanisoin	120-44-5	22.50	1.1363	2	29453	C16H20N2	N,N,N',N'-tetramethylbenzidine	366-29-0	22.50	1.0161	2
29297	C16H16O3	2,2-dimethoxy-2-phenylacetophenone	24650-42-8	22.50	1.1363	2	29454	C16H20N2	3,3',5,5'-tetramethylbenzidine	54827-17-7	22.50	1.0161	2
29299	C16H16O3	ethoxydiphenylacetic acid	7495-45-6	22.50	1.1363	2	29455	C16H20N2O4	nalpha-boc-L-tryptophane	13139-14-5	25.00	1.1894	2
29301	C16H16O4	diethyl 1,8-naphthalenedicarboxylate	58618-39-6	70.00	1.1399	1	29456	C16H20N2O4	nalpha-boc-D-tryptophane	5241-64-5	25.00	1.1894	2
29302	C16H16O4	anisoin	119-52-8	25.00	1.1872	2	29457	C16H20N2O4	tomaymycin	35050-55-6	25.00	1.1894	2
29304	C16H16O4	(S)-2-(1-naphthylmethyl)succinic acid-1-meth*	130693-96-8	25.00	1.1872	2	29458	C16H20N2O7	N-(4-nitrobenzoyl)-L-glutamic acid diethyles*	7148-24-5	25.00	1.2919	2
29305	C16H16O4	(S)-2-(2-naphthylmethyl)succinic acid-1-meth*	220497-75-6	25.00	1.1872	2	29459	C16H20N4	3,3'-bis(dimethylamino)azobenzene	21232-53-1	25.00	1.1093	2
29306	C16H16O5	alkannin	23444-65-7	25.00	1.2269	2	29460	C16H20N4O2	apazone	13539-59-8	25.00	1.1865	2
29310	C16H17BrN2	zimelidine	56775-88-3	25.00	1.3232	2	29462	C16H20N4O5	N-methylmitomycin C	801-52-5	25.00	1.2903	2
29311	C16H17BrO6	6-bromo-2-naphthyl-b-D-galactopyranoside	15572-30-2	25.00	1.4539	2	29463	C16H20N4O6	aziridinylquinone	57998-68-2	25.00	1.3220	2
29312	C16H17BrO6	6-bromo-2-naphthyl-b-D-glucopyranoside	15548-61-5	25.00	1.4539	2	29465	C16H20O2	4,4,10-trimethyl-tricyclo[7,3,1,0(1-6)]-6,10*	---	25.00	1.0346	2
29314	C16H17ClN2O	7-chloro-5-(cyclohexen-1-yl)-1,3-dihydro-1-m*	10379-14-3	25.00	1.1898	2	29466	C16H20O2	fenestrel	7698-97-7	25.00	1.0346	2
29318	C16H17N	9-butyl-9H-carbazole	1484-08-8	25.00	1.0355	2	29468	C16H20O4	marasmic acid	2212-99-9	25.00	1.1170	2
29319	C16H17N	trans-N,N-dimethyl-4-(2-phenylvinyl)aniline	838-95-9	25.00	1.0355	2	29470	C16H20O6P2S3	abate	3383-96-8	25.00	1.3200	1
29322	C16H17NO	diphenamid	957-51-7	23.30	1.1700	1	29477	C16H21NO2	DL-propranolol	13013-17-7	25.00	1.0590	2
29328	C16H17NO3	normorphine	466-97-7	25.00	1.1670	2	29478	C16H21NO3	homatropine	87-00-3	25.00	1.0991	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
29479	C16H21NO3	norhyoscyamine	537-29-1	25.00	1.0991	2	29750	C16H33NO2	1-nitrohexadecane	66271-50-9	25.00	0.9079	2
29480	C16H21NO3	rolipram	61413-54-5	25.00	1.0991	2	29753	C16H33NO3	N,N-bis(2-hydroxyethyl)dodecan amide	120-40-1	25.00	0.9437	2
29481	C16H21NO4	N-boc-DL-2-aminotetralin-2-carboxylic acid	98569-12-1	25.00	1.1375	2	29754	C16H34	hexadecane	544-76-3	18.16	0.9020	1
29482	C16H21NO4	boc-DL-5-methyl-1,2,3,4-tetrahydroisoquinoli*	155367-45-6	25.00	1.1375	2	29760	C16H34	2,2,4,4,6,8,8-heptamethylnonane	4390-04-9	-13.23	1.0371	2
29485	C16H21NO4	2-(tert-butoxycarbonylamino)-1,2,3,4-tetrahy*	98569-12-1	25.00	1.1375	2	29764	C16H34N2O6	N,N'-bis(methoxymethyl)diaza-18-crown-6	83809-94-3	25.00	1.0613	2
29489	C16H21NO6	boc-L-aspartic acid 4-benzylester	7536-58-5	25.00	1.2094	2	29766	C16H34O	1-hexadecanol	36653-82-4	20.85	0.9720	1
29492	C16H22ClN3O4	plafibride	63394-05-8	25.00	1.2427	2	29767	C16H34O	2-hexadecanol	14852-31-4	20.00	0.8338	1
29494	C16H22ClNO4	lipenan	26717-47-5	25.00	1.1799	2	29768	C16H34O	3-hexadecanol	593-03-3	67.00	0.8000	1
29504	C16H22N2O4	2,5-diazirino-3,6-dipropoxy-p-benzoquinone	436-40-8	25.00	1.1565	2	29770	C16H34O	6-methyl-6-pentadecanol	108836-86-8	25.00	0.8316	1
29507	C16H22N2O5	N-(4-aminobenzoyl)-L-glutamic acid diethyles*	13726-52-8	25.00	1.1917	2	29771	C16H34O	dioctyl ether	629-82-3	-7.60	0.9649	2
29508	C16H22N2O5	N-(2,6-diethylphenylcarbamoylmethyl)iminodia*	63245-28-3	25.00	1.1917	2	29773	C16H34O	2-hexyl-1-decanol	2425-77-6	25.00	0.8360	1
29512	C16H22N4O2	aminopropylon	3690-04-8	25.00	1.1534	2	29776	C16H34O2	1,2-hexadecanediol	6920-24-7	25.00	0.8637	2
29518	C16H22O4	dibutyl phthalate	84-74-2	-35.00	1.2721	2	29777	C16H34O2	1,3-hexadecanediol	34014-79-4	25.00	0.8637	2
29519	C16H22O4	diisobutyl phthalate	84-69-5	-50.00	1.2804	2	29778	C16H34O2	1,4-hexadecanediol	---	25.00	0.8637	2
29520	C16H22O4	diisobutyl terephthalate	18699-48-4	21.67	1.0440	2	29780	C16H34O2	1,16-hexadecanediol	7735-42-4	25.00	0.8637	2
29525	C16H22O5	4-vinylbenzo-15-crown-5	31943-70-1	25.00	1.1234	2	29791	C16H34S	dioctyl sulfide	2690-08-6	11.85	0.9823	2
29526	C16H22O6	bis(2-ethoxyethyl) phthalate	605-54-9	21.00	1.1229	1	29798	C16H35N	hexadecylamine	143-27-1	20.00	0.8129	1
29527	C16H22O6	colibil	41826-92-0	25.00	1.1596	2	29800	C16H35N	dioctylamine	1120-48-5	14.62	0.9409	2
29529	C16H22O8	coniferin	531-29-3	25.00	1.2277	2	29805	C16H35N	bis(2-ethylhexyl)amine	106-20-7	16.85	0.9458	2
29530	C16H22O11	alpha-D-glucose pentaacetate	604-68-2	25.00	1.3200	2	29806	C16H35NO2	ammonium palmitate	593-26-0	25.00	0.8879	2
29531	C16H22O11	beta-D-glucose pentaacetate	604-69-3	20.00	1.2740	1	29812	C16H36BrN	tetrabutylammonium bromide	1643-19-2	25.00	1.0039	2
29532	C16H22O11	b-D-galactose pentaacetate	4163-60-4	25.00	1.3200	2	29814	C16H36Br3N	tetra-n-butylammonium tribromide	38932-80-8	25.00	1.3364	2
29536	C16H23BrO6	4'-bromobenzo-18-crown-6	75460-28-5	25.00	1.3400	2	29815	C16H36ClNO4	tetrabutylammonium perchlorate, contains max*	1923-70-2	25.00	1.0029	2
29537	C16H23ClN2O2	alloclamide	5486-77-1	25.00	1.1288	2	29820	C16H36IN	tetrabutyl ammonium iodide	311-28-4	25.00	1.1199	2
29538	C16H23ClN3O	tebuconazole	107534-96-3	25.00	1.1272	2	29821	C16H36INO4	tetrabutylammonium periodate	65201-77-6	25.00	1.2302	2
29539	C16H23ClN4O	thonzylamine hydrochloride	63-56-9	25.00	1.1603	2	29822	C16H36N2O3	tetrabutylammonium nitrate	1941-27-1	25.00	0.9445	2
29544	C16H23NO	tolperisone	728-88-1	25.00	0.9882	2	29830	C16H37NO	tetrabutylammonium hydroxide	2052-49-5	25.00	0.9840	1
29551	C16H23NO5	fulvine	6029-87-4	25.00	1.1425	2	29839	C16H48O6Si7	hexadecamethylheptasiloxane	541-01-5	-78.00	1.1569	2
29554	C16H23NO6	monocrotaline	315-22-0	25.00	1.1772	2	29840	C16H48O8Si8	hexadecamethylcyclooctasiloxane	556-68-3	25.00	1.1770	1
29559	C16H24	1-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-11-9	-73.15	1.1511	2	29841	C17H6O7	bis-(3-phthalyl anhydride) ketone	2421-28-5	25.00	1.5452	2
29562	C16H24ClNO2	piperocaine hydrochloride	533-28-8	25.00	1.0806	2	29843	C17H9BrO	3-bromo-7H-benz[de]anthracen-7-one	81-96-9	25.00	1.4848	2
29567	C16H24N2O	oxymethazoline	1491-59-4	25.00	1.0129	2	29844	C17H9F23O2	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,1*	74256-14-7	25.00	1.6193	2
29569	C16H24N2O2	N,N,N',N'-tetraethyl-1,2-benzenedicarboxamide	83-81-8	25.00	1.0522	2	29847	C17H9NO4	5,6-dihydroxynaphtho[2,3-f]quinoline-7,12-di*	568-02-5	25.00	1.3905	2
29570	C16H24N2O2	N,N,N',N'-tetraethyl-1,3-benzenedicarboxamide	13698-87-8	25.00	1.0522	2	29848	C17H10ClF3N2O3	ethyl 1-(2,4-difluorophenyl)-7-Cl-6-F-4-O-hy*	100491-29-0	25.00	1.4752	2
29574	C16H24N2O5	tricetamide	363-20-2	25.00	1.1605	2	29852	C17H10N2O3	N-[4-(2-benzoxazolyl)phenyl]maleimide	16707-41-8	25.00	1.3654	2
29575	C16H24O	decanophenone	6048-82-4	25.00	0.9348	2	29853	C17H10O	benzanthrone	82-05-3	25.00	1.1939	2
29579	C16H24O3	4-nonyloxybenzoic acid	15872-43-2	25.00	1.0176	2	29854	C17H10O	1-pyrenecarboxaldehyde	3029-19-4	25.00	1.1939	2
29581	C16H24O6	benzo-18-crown-6	14098-24-9	25.00	1.1291	2	29855	C17H10O2	1-pyrenecarboxylic acid	19694-02-1	25.00	1.2407	2
29594	C16H25N7O8	aspiculamycin	2096-42-6	25.00	1.3766	2	29856	C17H10O4	fluorescamine	38183-12-9	25.00	1.3268	2
29595	C16H26	decylbenzene	104-72-3	-14.38	1.0286	2	29858	C17H11N	benz[c]acridine	225-51-4	25.00	1.1697	2
29596	C16H26	pentaethylbenzene	605-01-6	-68.15	1.1181	2	29859	C17H11N	naphtho(2,3-f)quinoline	224-98-6	25.00	1.1697	2
29608	C16H26O	2,6-di-tert-butyl-4-ethylphenol	4130-42-1	25.00	0.9260	2	29861	C17H11NO7	aristolochine	313-67-7	25.00	1.4503	2
29613	C16H26O2	2,5-bis(1,1-dimethylpropyl)-1,4-benzenediol	79-74-3	25.00	0.9513	2	29862	C17H12	11H-benzo[a]fluorene	238-84-6	25.00	1.1020	2
29617	C16H26O3	(2-dodecen-1-yl)succinic anhydride	19780-11-1	25.00	0.9910	2	29863	C17H12	11H-benzo[b]fluorene	243-17-4	25.00	1.1020	2
29624	C16H27NO5	heliotrine	303-33-3	25.00	1.0852	2	29864	C17H12	benzo[a]fluorene	30777-18-5	25.00	1.1020	2
29629	C16H28O2	2-cyclopentene-1-undecanoic acid, (R)	459-67-6	25.00	0.9272	2	29865	C17H12	1-methylpyrene	2381-21-7	25.00	1.1020	2
29639	C16H29N3O8	diethylcarbamazine citrate	1642-54-2	25.00	1.2113	2	29866	C17H12	2-methylpyrene	3442-78-2	25.00	1.1020	2
29642	C16H30	3-hexadecyne	61886-62-2	22.67	0.8429	2	29872	C17H12Br2O3	3,5-dibromo-4-hydroxyphenyl-2-ethyl-3-benzof*	3562-84-3	25.00	1.6775	2
29653	C16H30N2O8	N,N'-dicarboxymethyldiaza-18-crown-6	72912-01-7	25.00	1.1701	2	29873	C17H12ClFN2O	nuarimol	63284-71-9	25.00	1.3255	2
29657	C16H30O	2-dodecylcyclobutanone	35493-46-0	16.50	0.9217	2	29874	C17H12ClNO2S	4-(p-chlorophenyl)-2-phenyl-5-thiazoleacetic*	18046-21-4	25.00	1.3489	2
29660	C16H30O2	7-hexadecenoic acid	1191-75-9	25.00	0.8690	2	29876	C17H12Cl2N2O	fenarimol	60168-88-9	25.00	1.3531	2
29664	C16H30O2	oxacycloheptadecan-2-one	109-29-5	25.00	0.8690	2	29878	C17H12Cl2N4	triazolam	28911-01-5	25.00	1.3859	2
29675	C16H30O4	hexadecanedioic acid	505-54-4	25.00	0.9397	2	29889	C17H12O	2-naphthyl phenyl ketone	644-13-3	25.00	1.1506	2
29684	C16H31Br	cis-1-bromo-1-hexadecene	66271-67-8	25.00	1.0305	2	29891	C17H12O2	2-naphthyl benzoate	93-44-7	25.00	1.1965	2
29685	C16H31Br	trans-1-bromo-1-hexadecene	66271-68-9	25.00	1.0305	2	29892	C17H12O2	benzoic acid, 1-naphthyl ester	607-55-6	25.00	1.1965	2
29686	C16H31BrO2	2-bromohexadecanoic acid	18263-25-7	25.00	1.0974	2	29895	C17H12O3	1-naphthyl 2-hydroxybenzoate	550-97-0	25.00	1.2401	2
29688	C16H31Br3	1,1,1-tribromohexadecane	62127-72-4	25.00	1.3865	2	29896	C17H12O3	2-naphthyl salicylate	613-78-5	116.00	1.1100	1
29692	C16H31Cl3	1,1,1-trichlorohexadecane	62108-60-5	25.00	1.0114	2	29897	C17H12O3	phenyl 1-hydroxy-2-naphthoate	132-54-7	25.00	1.2401	2
29695	C16H31F3	1,1,1-trifluorohexadecane	62127-01-9	25.00	0.9220	2	29898	C17H12O3	phenyl 3-hydroxy-2-naphthoate	7260-11-9	25.00	1.2401	2
29696	C16H31I	cis-1-iodo-1-hexadecene	66271-73-6	25.00	1.1560	2	29899	C17H12O5	aristolic acid	35142-05-3	25.00	1.3206	2
29697	C16H31I	trans-1-iodo-1-hexadecene	66271-74-7	25.00	1.1560	2	29900	C17H12O6	aflatoxin B1	1162-65-8	25.00	1.3579	2
29698	C16H31I3	1,1,1-triiodohexadecane	---	25.00	1.6775	2	29901	C17H12O7	aflatoxin G1	1165-39-5	25.00	1.3935	2
29699	C16H31N	hexadecanenitrile	629-79-8	20.00	0.8303	1	29902	C17H12O7	aflatoxin M1	6795-23-9	25.00	1.3935	2
29705	C16H32	decylcyclohexane	1795-16-0	-1.72	1.0580	2	29903	C17H13ClN4	xanax	28981-97-7	25.00	1.3141	2
29706	C16H32	cyclohexadecane	295-65-8	24.00	0.7954	2	29905	C17H13N	2,6-diphenylpyridine	3558-69-8	25.00	1.1281	2
29707	C16H32	1-hexadecene	629-73-2	4.36	0.9253	2	29906	C17H13N	N-benzylidene-1-napthylamine	890-51-7	25.00	1.1281	2
29710	C16H32Br2	1,16-dibromohexadecane	45223-18-5	25.00	1.2057	2	29909	C17H13NO2	naphthol AS	92-77-3	25.00	1.2175	2
29711	C16H32Br2	1,1-dibromohexadecane	62168-33-6	25.00	1.2057	2	29914	C17H13N3O5S2	phthalylsulphathiazole	85-73-4	25.00	1.4793	2
29712	C16H32Cl2	1,1-dichlorohexadecane	62017-19-0	25.00	0.9424	2	29915	C17H14	1-benzylnaphthalene	611-45-0	17.00	1.1660	1
29713	C16H32F2	1,1-difluorohexadecane	62127-05-3	25.00	0.8784	2	29916	C17H14	2-benzylnaphthalene	613-59-2	12.00	1.1760	1
29714	C16H32I2	1,1-diiodohexadecane	66271-75-8	25.00	1.4229	2	29917	C17H14	16,17-dihydro-15H-cyclopenta[a]phenanthrene	482-66-6	14.50	1.1710	2
29717	C16H32O	hexadecanal	629-80-1	25.00	0.8448	2	29918	C17H14	9-(1-methylvinyl)phenanthrene	58873-44-2	14.50	1.1710	2
29718	C16H32O	2-hexadecanone	18787-63-8	25.00	0.8448	2	29920	C17H14BrFN2O2	haloxazolam	59128-97-1	25.00	1.4808	2
29719	C16H32O	3-hexadecanone	18787-64-9	25.00	0.8448	2	29921	C17H14ClF7O2	force	79538-32-2	25.00	1.3825	2
29721	C16H32O2	hexadecanoic acid	57-10-3	62.51	0.9840	1	29922	C17H14ClFN2O3	1,3-dihydro-7-chloro-5-(o-fluorophenyl)-3-hy*	40762-15-0	25.00	1.3534	2
29722	C16H32O2	2-hexyldecanoic acid	25354-97-6	28.56	0.8573	2	29923	C17H14Cl2N2O2	cloxazolazepam	24166-13-0	25.00	1.3463	2
29737	C16H32O5	aleuritic acid	533-87-9	25.00	0.9914	2	29924	C17H14Cl2O4	bisphenol A bis(chloroformate)	2024-88-6	25.00	1.3474	2
29738	C16H32S	thiacycloheptadecane	296-00-4	25.00	0.8708	2	29925	C17H14F6	4,4'-(hexafluoroisopropylidene)ditoluene	1095-77-8	25.00	1.2559	2
29741	C16H33ClO2S	1-hexadecanesulfonyl chloride	38775-38-1	25.00	0.9923	2	29927	C17H14N2	elliptisine	519-23-3	25.00	1.1522	2
29748	C16H33NO	hexadecanamide	629-54-9	20.00	1.0000	1	29931	C17H14N2O	1-(o-tolylazo)-2-naphthol	2646-17-5	25.00	1.1956	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
29932	C17H14N2O2	4-benzoyl-3-methyl-1-phenyl-2-pyrazolin-5-one	4551-69-3	25.00	1.2369	2	30128	C17H20N2O	N,N,N',N'-tetramethyl-4,4'-diaminobenzopheno*	90-94-8	25.00	1.0890	2
29937	C17H14O	1-benzyl-2-naphthalenol	36441-31-3	25.00	1.1109	2	30131	C17H20N2O3	fast blue BB	120-00-3	25.00	1.1657	2
29938	C17H14O	2-benzyl-1-naphthalenol	36441-32-4	25.00	1.1109	2	30133	C17H20N2O4	N-boc-L-1,2,3,4-tetrahydro-b-carboline-3-car*	---	25.00	1.2016	2
29939	C17H14O	alpha-phenyl-1-naphthalenemethanol	642-28-4	25.00	1.1109	2	30134	C17H20N2O5S	bumetanide	28395-03-1	25.00	1.2811	2
29940	C17H14O	1,5-diphenyl-1,4-pentadien-3-one	538-58-9	25.00	1.1109	2	30135	C17H20N2S	promethazine	60-87-7	25.00	1.1094	2
29941	C17H14O	dibenzylideneacetone	35225-79-7	25.00	1.1109	2	30140	C17H20N4O6	riboflavin	83-88-5	25.00	1.3299	2
29947	C17H14O3	methyl 4-(3-oxo-3-phenyl-1-propenyl) benzoate	98258-72-1	25.00	1.1988	2	30142	C17H20O2	2,2-bis(4-hydroxy-3-methylphenyl)propane	79-97-0	25.00	1.0525	2
29948	C17H14O3	benzarone	1477-19-6	25.00	1.1988	2	30143	C17H20O2	bisphenol A dimethylether	1568-83-8	25.00	1.0525	2
29950	C17H14O5	3-(a-acetonylfurfuryl)-4-hydroxycoumarin	117-52-2	25.00	1.2783	2	30145	C17H20O6	mycophenolic acid	24280-93-1	25.00	1.2042	2
29951	C17H14O5	1,3-dihydroxy-2-ethoxymethylanthraquinone	17526-17-9	25.00	1.2783	2	30146	C17H20O6	PR toxin	56299-00-4	25.00	1.2042	2
29952	C17H14O6	aflatoxin B2	7220-81-7	25.00	1.3152	2	30147	C17H20O6S2	(S)-(-)-1,2-propanediol di-p-tosylate	60434-71-1	25.00	1.2939	2
29953	C17H14O6	aflatoxin Ro	29611-03-8	25.00	1.3152	2	30148	C17H20O10	tetramethyl 2,6-dihydroxybicyclo[3.3.1]nona-*	6966-22-9	25.00	1.3323	2
29954	C17H14O7	aflatoxin G2	7241-98-7	25.00	1.3504	2	30153	C17H21N	N,N-diethyl-alpha-phenylbenzenemethanamine	519-72-2	25.00	0.9929	2
29955	C17H15ClF3NO4	haloxyfop-(2-ethoxyethyl)	87237-48-7	25.00	1.3400	1	30155	C17H21NO	(S)-(+)-2-(dibenzylamino)-1-propanol	60479-65-4	25.00	1.0351	2
29957	C17H15ClN4S	etizolam	40054-69-1	25.00	1.3210	2	30156	C17H21NO2	apoatropine	500-55-0	25.00	1.0755	2
29958	C17H15ClO7	malvidin chloride	643-84-5	25.00	1.3773	2	30157	C17H21NO2	napropamide	15299-99-7	25.00	1.0755	2
29963	C17H15FO3	2,4-dimethoxy-4'-fluorochalcone	336101-27-0	25.00	1.2105	2	30160	C17H21NO2	dihydrodeoxymorphine	427-00-9	25.00	1.0755	2
29964	C17H15FO3	3,4-dimethoxy-4'-fluorochalcone	28081-14-3	25.00	1.2105	2	30162	C17H21NO3	galanthamine	357-70-0	25.00	1.1141	2
29965	C17H15N	N-benzyl-2-naphthalenamine	13672-18-9	25.00	1.0901	2	30163	C17H21NO4	cocaine	50-36-2	25.00	1.1511	2
29966	C17H15N	N-(2-methylphenyl)-1-naphthalenamine	634-41-3	25.00	1.0901	2	30166	C17H21N3	4,4'-dimethylaminobenzophenonimide	492-80-8	25.00	1.0713	2
29967	C17H15N	N-(2-methylphenyl)-2-naphthalenamine	644-15-5	25.00	1.0901	2	30179	C17H22ClNO	diphenhydramine hydrochloride	147-24-0	25.00	1.0873	2
29968	C17H15N	N-(4-methylphenyl)-1-naphthalenamine	634-43-5	25.00	1.0901	2	30180	C17H22ClN3O	metconazole	125116-23-6	25.00	1.1551	2
29976	C17H15NO3	indoprofen	31842-01-0	25.00	1.2184	2	30182	C17H22N2	bis[4-(dimethylamino)phenyl]methane	101-61-1	25.00	1.0182	2
29977	C17H15NO4	fmoc-glycine	29022-11-5	25.00	1.2571	2	30186	C17H22N2O	4,4'-bis(dimethylamino)benzhydrol	119-58-4	25.00	1.0584	2
29978	C17H15NO5	salipran	5003-48-5	25.00	1.2941	2	30192	C17H22O2	cicutoxin	505-75-9	25.00	1.0229	2
29986	C17H16	2,9,10-trimethylanthracene	63018-94-0	25.00	1.0281	2	30196	C17H22O3	carbestrol	1755-52-8	25.00	1.0627	2
29987	C17H16BrO3	bromopropylate	18181-80-1	20.00	1.5900	1	30197	C17H22O5	tenulin	19202-92-7	25.00	1.1371	2
29989	C17H16ClN3O	amoxapine	14028-44-5	25.00	1.2559	2	30198	C17H22O7	3-acetyldeoxynivalenol	50722-38-8	25.00	1.2056	2
29991	C17H16Cl2O3	chloropropylate	5836-10-2	25.00	1.2775	2	30199	C17H22O8	fusarenon X	23255-69-8	25.00	1.2379	2
29999	C17H16N2OS	bentazepam	29462-18-8	25.00	1.2149	2	30200	C17H23ClO3	zopiclone	43200-80-2	25.00	1.1105	2
30018	C17H16O2	ethyl 2,3-diphenylacrylate	24446-63-7	18.00	1.0971	1	30203	C17H23NO	dextrorphan	125-73-5	25.00	1.0065	2
30019	C17H16O2	1,5-diphenyl-1,5-pentanedione	6263-83-8	25.00	1.1188	2	30205	C17H23NO	N-methyl-3-hydroxymorphinan	297-90-5	25.00	1.0065	2
30022	C17H16O4	diphenyl glutarate	47172-89-4	25.00	1.1485	2	30206	C17H23NO2	8-hydroxy-1,1,7,7-tetramethyljulolidine-9-ca*	115662-09-4	25.00	1.0461	2
30028	C17H17ClO6	griseofulvin, (+)-	126-07-8	25.00	1.3081	2	30209	C17H23NO3	atropine	51-55-8	25.00	1.0841	2
30030	C17H17Cl2NO3	N-(2,6-dichloro-m-tolyl)anthranilic acid eth*	29098-15-5	25.00	1.2915	2	30210	C17H23NO3	hyoscyamine	101-31-5	25.00	1.0841	2
30034	C17H17NO2	apomorphine	58-00-4	25.00	1.1411	2	30215	C17H23NO6	4-acryloylamidobenzo-15-crown-5	68865-30-5	25.00	1.1888	2
30035	C17H17NO2	ethyl N-(diphenylmethylene)glycinate	69555-14-2	25.00	1.1411	2	30216	C17H23NO6	boc-L-glutamic acid 5-benzylester	13574-13-5	25.00	1.1888	2
30036	C17H17NO2	4-morpholinobenzophenone	24758-49-4	25.00	1.1411	2	30217	C17H23NO7	4'-isocyanatobenzo-18-crown-6	83935-63-1	25.00	1.2211	2
30037	C17H17NO2	1-phenyl-6,7-dimethoxy-3,4-dihydroisoquinoli*	10172-39-1	25.00	1.1411	2	30222	C17H24N2O	dimethisoquin	86-80-6	25.00	1.0300	2
30040	C17H17NO3	coumarin 334	55804-67-6	25.00	1.1810	2	30225	C17H24O3	cyclandelate	456-59-7	25.00	1.0344	2
30041	C17H17NO3S	protizinic acid	54323-85-2	25.00	1.2346	2	30227	C17H24O8	4-carboxybenzo-18-crown-6	60835-75-8	25.00	1.2069	2
30042	C17H17NO4	DL-N-benzoyl-2-benzylserine	52421-48-4	25.00	1.2192	2	30228	C17H24O9	syringin	118-34-3	25.00	1.2376	2
30043	C17H17NO4	N-carbobenzyloxy-L-phenylalanine	1161-13-3	25.00	1.2192	2	30229	C17H25ClN2O	dimethisoquin hydrochloride	2773-92-4	25.00	1.0793	2
30044	C17H17NO4	N-carbobenzyloxy-D-phenylalanine	28709-70-8	25.00	1.2192	2	30231	C17H25N	1-(1-phenylcyclohexyl)piperidine	77-10-1	25.00	0.9394	2
30049	C17H17N3O3	imazaquin	81335-37-7	25.00	1.2534	2	30237	C17H25NO6	acetoxycycloheximide	2885-39-4	25.00	1.1591	2
30051	C17H17N3O6S2	cephapirin	21593-23-7	25.00	1.4289	2	30241	C17H26	1-heptyl-[1,2,3,4-tetrahydronaphthalene]	66563-99-3	25.00	0.8883	2
30054	C17H17N5O6S	S-(4-nitrobenzyl)-6-thioinosine	38048-32-7	25.00	1.4498	2	30242	C17H26	2-heptyl-[1,2,3,4-tetrahydronaphthalene]	26438-24-4	25.00	0.8883	2
30057	C17H18ClNO3S	L-1-4'-tosylamino-2-phenylethyl chloromethyl*	402-71-1	25.00	1.2695	2	30247	C17H26N4O3S2	fursultiamin	804-30-8	25.00	1.2289	2
30059	C17H18F2N2	1-[bis(4-fluorophenyl)methyl]piperazine	27469-60-9	25.00	1.1462	2	30248	C17H26N8O5	blasticidin S	2079-00-7	25.00	1.3143	2
30065	C17H18N2O4	1,3-propanediol bis(4-aminobenzoate)	57609-64-0	25.00	1.1400	1	30249	C17H26O	2',4',6'-triisopropylacetophenone	2234-14-2	25.00	0.9299	2
30068	C17H18N2O5S	4-phenoxy-3-(pyrrolidinyl)-5-sulfamoylbenzoi*	55837-27-9	25.00	1.3157	2	30250	C17H26O	undecanophenone	4433-30-1	25.00	0.9299	2
30069	C17H18N2O6	adalat	21829-25-4	25.00	1.3045	2	30253	C17H26O3	11-phenoxyundecanoic acid	7170-44-7	25.00	1.0079	2
30070	C17H18N6O6S	S-(4-nitrobenzyl)-6-thioguanosine	13153-27-0	25.00	1.4576	2	30254	C17H26O4	embelin	550-24-3	25.00	1.0446	2
30074	C17H18O2	tert-butyl 4-phenoxyphenyl ketone	55814-54-5	25.00	1.0844	2	30260	C17H27NO3	(1S,2S,3R,6S)-3-acetoxy-3-methyl-6-(1-methyl*	131447-90-0	25.00	1.0296	2
30077	C17H18O3	2,4-dihydroxy-5-tert-butylbenzophenone	4211-67-0	25.00	1.1256	2	30262	C17H27NO4	corgard	42200-33-9	25.00	1.0648	2
30079	C17H18O4	diethyl (1-naphthyl)malonate	6341-60-2	25.00	1.1650	2	30264	C17H28	undecylbenzene	6742-54-7	-5.15	1.0203	2
30080	C17H18O4	diphenolic acid	126-00-1	25.00	1.1650	2	30265	C17H28N2O2	dibutamide	519-88-0	25.00	1.0150	2
30081	C17H18O4	1,3-diphenoxy-2-propanol acetate	71159-31-4	25.00	1.1650	2	30267	C17H28O	2,6-di-tert-pentyl-4-methylphenol	56103-67-4	25.00	0.9310	1
30082	C17H18O5	2,3,3',4'-tetramethoxybenzophenone	50625-53-1	25.00	1.2026	2	30275	C17H29N	2,4,6-tri-tert-butylpyridine	20336-15-6	25.00	0.8928	2
30084	C17H19ClN2	1-(4-chlorobenzhydryl)piperazine	303-26-4	25.00	1.1314	2	30276	C17H29NO	2,6-di-tert-butyl-4-(dimethylaminomethyl)phe*	88-27-7	25.00	0.9440	2
30090	C17H19NO	(S)-(-)-a,a-diphenyl-2-pyrrolidinemethanol	112068-01-6	25.00	1.0659	2	30280	C17H30N2O5	(2S-(2a,3b(R*)))-3-(((3-methyl-1-(((3-methyl*	88321-09-9	25.00	1.0907	2
30091	C17H19NO	(R)-(+)-a,a-diphenyl-2-pyrrolidinemethanol	22348-32-9	25.00	1.0659	2	30281	C17H30O	9-cycloheptadecene-1-one	74244-64-7	33.00	0.9170	1
30096	C17H19NO3	coclaurine	486-39-5	25.00	1.1464	2	30282	C17H30O	cis-9-cycloheptadecen-1-one	542-46-1	25.00	0.8849	2
30097	C17H19NO3	morphine	57-27-2	25.00	1.1464	2	30285	C17H32	2-heptadecyne	61847-96-9	23.20	0.8527	2
30098	C17H19NO3	piperine	94-62-2	25.00	1.1464	2	30286	C17H32	3-heptadecyne	61886-63-3	23.20	0.8527	2
30099	C17H19NO3	(R)-(+)-carbobenzyloxyamino-3-phenyl-1-propa*	58917-85-4	25.00	1.1464	2	30294	C17H33Br	cis-1-bromo-1-heptadecene	66563-89-1	25.00	1.0212	2
30100	C17H19NO3	(S)-(-)-2-(carbobenzyloxyamino)-3-phenyl-1-p*	6372-14-1	25.00	1.1464	2	30295	C17H33Br	trans-1-bromo-1-heptadecene	66563-90-4	25.00	1.0212	2
30101	C17H19NO3	dihydromorphinone	466-99-9	25.00	1.1464	2	30296	C17H33Br3	1,1,1-tribromoheptadecane	62127-73-5	25.00	1.3616	2
30102	C17H19NO3S2	3-ethyl-2-methylbenzothiazolium p-toluenesul*	14933-76-7	25.00	1.2480	2	30297	C17H33Cl	cis-1-chloro-1-heptadecene	66563-91-5	25.00	0.8858	2
30103	C17H19NO4	fenoxycarb	79127-80-3	25.00	1.1839	2	30298	C17H33Cl	trans-1-chloro-1-heptadecene	66563-92-6	25.00	0.8858	2
30104	C17H19NO4	morphine N-oxide	639-46-3	25.00	1.1839	2	30300	C17H33Cl3	1,1,1-trichloroheptadecane	62108-61-6	25.00	1.0039	2
30109	C17H19N3	3,6-bis(dimethylamino)acridine	494-38-2	25.00	1.1031	2	30301	C17H33F	cis-1-fluoro-1-heptadecene	66577-63-7	25.00	0.8526	2
30110	C17H19N3	phenazoline	91-75-8	25.00	1.1031	2	30302	C17H33F	trans-1-fluoro-1-heptadecene	66577-51-3	25.00	0.8526	2
30112	C17H19N3O	phentalamine	50-60-2	25.00	1.1429	2	30303	C17H33F3	1,1,1-trifluoroheptadecane	62126-84-5	25.00	0.9185	2
30113	C17H19N3O2	ethyl red	76058-33-8	25.00	1.1810	2	30304	C17H33I	cis-1-iodo-1-heptadecene	66577-52-4	25.00	1.1406	2
30115	C17H19N5O4	6-benzylaminopurine riboside	4294-16-0	25.00	1.3162	2	30305	C17H33I	trans-1-iodo-1-heptadecene	66577-53-5	25.00	1.1406	2
30116	C17H19N5O6S	5'-tosyladenosine	5135-30-8	25.00	1.4127	2	30306	C17H33I3	1,1,1-triiocloheptadecane	---	25.00	1.6417	2
30124	C17H20Cl2N2S	chlorpromazine hydrochloride	69-09-0	25.00	1.2221	2	30307	C17H33N	heptadecanenitrile	5399-02-0	20.00	0.8315	1
30126	C17H20N2	1-(diphenylmethyl)piperazine	841-77-0	25.00	1.0479	2	30312	C17H34	cycloheptadecane	295-97-6	25.00	0.7988	2
30127	C17H20N2O	N,N'-diethylcarbanilide	85-98-3	25.00	1.0890	2	30313	C17H34	1-heptadecene	6765-39-5	11.25	0.9252	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
30315	C17H34Br2	1,1-dibromoheptadecane	62168-34-7	25.00	1.1885	2	30475	C18H14Cl4N2O	miconazole	22916-47-8	25.00	1.4079	2
30316	C17H34Br2	1,17-dibromoheptadecane	81726-82-1	25.00	1.1885	2	30484	C18H14N4O5S	sulfasalazine	599-79-1	25.00	1.4577	2
30317	C17H34Cl2	1,1-dichloroheptadecane	62046-36-0	25.00	0.9380	2	30485	C18H14N6O2	1-(4-nitrophenyl)-3-(4-phenylazophenyl)triaz*	5392-67-6	25.00	1.3887	2
30318	C17H34F2	1,1-difluoroheptadecane	62127-06-4	25.00	0.8771	2	30486	C18H14O	(2-methylphenyl)-1-naphthylmethanone	68723-25-1	25.00	1.1283	2
30319	C17H34I2	1,1-diiodoheptadecane	66577-55-7	25.00	1.3965	2	30487	C18H14O	1-(1-naphthyl)-2-phenylethanone	605-85-6	25.00	1.1283	2
30320	C17H34N2O2	4,4'-trimethylenebis(1-piperidineethanol)	18073-84-2	25.00	0.9471	2	30488	C18H14O	2,6-diphenylphenol	2432-11-3	25.00	1.1283	2
30321	C17H34N4O10	xylostatin	25546-65-0	25.00	1.2331	2	30498	C18H14O2	1,4-dipenoxybenzene	3061-36-7	25.00	1.1715	2
30322	C17H34O	9-heptadecanone	540-08-9	48.00	0.8140	1	30499	C18H14O2	1,3-diphenoxybenzene	3379-38-2	25.00	1.1715	2
30323	C17H34O	2-heptadecanone	2922-51-2	48.00	0.8049	1	30509	C18H14O3	3-phenyl-2-propenoic anhydride	538-56-7	25.00	1.2125	2
30324	C17H34O	heptadecanal	629-90-3	48.00	0.8095	2	30527	C18H14O5	methyl aristolate	35142-06-4	25.00	1.2889	2
30325	C17H34O2	heptadecanoic acid	506-12-7	20.00	1.0200	1	30528	C18H14O8	(+)-dibenzoyl-D-tartaric acid	17026-42-5	25.00	1.3909	2
30326	C17H34O2	hexadecyl formate	4113-08-0	43.75	0.8461	2	30529	C18H14O8	hydrindantin dihydrate	5950-69-6	25.00	1.3909	2
30328	C17H34O2	tetradecyl propanoate	6221-95-0	43.75	0.8461	2	30530	C18H14O8	dibenzoyltartaric acid	2743-38-6	25.00	1.3909	2
30329	C17H34O2	tridecyl butanoate	56164-20-6	43.75	0.8461	2	30532	C18H15As	triphenylarsine	603-32-7	18.00	1.2634	1
30330	C17H34O2	isopropyl tetradecanoate	110-27-0	-5.00	1.0169	2	30535	C18H15Bi	triphenylbismuthine	603-33-8	75.00	1.7150	1
30331	C17H34O2	propyl tetradecanoate	14303-70-9	20.00	0.8532	1	30541	C18H15ClN4	phenosafranin	81-93-6	25.00	1.2841	2
30332	C17H34O2	methyl palmitate	112-39-0	75.00	0.8247	1	30548	C18H15N	triphenylamine	603-34-9	25.00	0.7740	1
30336	C17H34S	thiacyclooctadecane	296-21-9	25.00	0.8699	2	30549	C18H15N	diphenyl-2-pyridylmethane	3678-70-4	25.00	1.1079	2
30337	C17H35Br	1-bromoheptadecane	3508-00-7	20.00	0.9916	1	30550	C18H15NO2	ethyl 2-cyano-3,3-diphenylacrylate	5232-99-5	25.00	1.1919	2
30338	C17H35Cl	1-chloroheptadecane	62016-75-5	25.00	0.8669	2	30555	C18H15NO3	oxaprozin	21256-18-8	25.00	1.2310	2
30339	C17H35F	1-fluoroheptadecane	1545-17-1	25.00	0.8343	2	30558	C18H15N3	4-phenylazodiphenylamine	101-75-7	25.00	1.1888	2
30340	C17H35I	1-iodoheptadecane	26825-83-2	25.00	1.1154	2	30562	C18H15OP	triphenylphosphine oxide	791-28-6	22.60	1.2124	1
30343	C17H35NO2	1-nitroheptadecane	39220-66-1	25.00	0.9051	2	30566	C18H15O4P	triphenyl phosphate	115-86-6	25.00	1.3020	2
30344	C17H35N5O5	sporaricin A	68743-79-3	25.00	1.1153	2	30567	C18H15P	triphenylphosphine	603-35-0	20.00	1.1940	1
30346	C17H36	heptadecane	629-78-7	21.98	0.9066	2	30572	C18H15Sb	triphenylstibine	603-36-1	25.00	1.4343	1
30352	C17H36O	1-heptadecanol	1454-85-9	53.90	0.9592	2	30574	C18H16	1,6-diphenyl-1,3,5-hexatriene	1720-32-7	25.00	1.0479	2
30353	C17H36O	2-heptadecanol	16813-18-6	25.00	0.8272	2	30576	C18H16	11-methyl-15,16-dihydro-17H-cyclopenta(a)phe*	24684-41-1	25.00	1.0479	2
30354	C17H36O	9-heptadecanol	624-08-8	25.00	0.8272	2	30577	C18H16BrN5S	thiazolyl blue	298-93-1	25.00	1.4886	2
30355	C17H36O	heptadecanol (mixed primary isomers)	52783-44-5	25.00	0.8272	2	30583	C18H16ClNO5	fenoxaprop-ethyl	66441-23-4	25.00	1.3339	2
30356	C17H36O2	1,2-heptadecanediol	34719-63-6	25.00	0.8632	2	30584	C18H16Cl2N2O2	mexazolam	31868-18-5	25.00	1.3170	2
30357	C17H36O2	1,3-heptadecanediol	---	25.00	0.8632	2	30588	C18H16N2	N,N'-diphenyl-p-phenylenediamine	74-31-7	25.00	1.3004	2
30358	C17H36O2	1,4-heptadecanediol	---	25.00	0.8632	2	30589	C18H16N2	triphenylhydrazine	606-88-2	70.00	0.8690	1
30359	C17H36O2	1,17-heptadecanediol	66577-59-1	25.00	0.8632	2	30590	C18H16N2O	1-[(2,4-dimethylphenyl)azo]-2-naphthalenol	3118-97-6	25.00	1.1719	2
30362	C17H36S	1-heptadecanethiol	53193-22-9	25.00	0.8432	2	30591	C18H16N2O	1-[(2,5-dimethylphenyl)azo]-2-naphthalenol	85-82-5	25.00	1.1719	2
30369	C17H37N	heptadecylamine	4200-95-7	20.00	0.8510	1	30592	C18H16N2O	methoxyellipticine	10371-86-5	25.00	1.1719	2
30370	C17H37N	methylhexadecylamine	13417-08-8	25.00	0.8158	2	30594	C18H16N2O3	1-((2,5-dimethoxyphenyl)azo)-2-naphthol	6358-53-8	25.00	1.2481	2
30371	C17H37N	ethylpentadecylamine	56392-13-3	25.00	0.8158	2	30596	C18H16OSi	triphenylsilanol	791-31-1	20.00	1.1777	1
30375	C17H38BrN	myristyltrimethylammonium bromide	1119-97-7	25.00	0.9966	2	30597	C18H16OSn	triphenyltin hydroxide	76-87-9	20.00	1.5400	1
30379	C18H6Cl12O3	tetrachlorophenol	25167-83-3	25.00	1.6500	1	30601	C18H17ClN2O2	oxazolazepam	24143-17-7	25.00	1.2496	2
30381	C18H10	cyclopenta(cd)pyrene	27208-37-3	25.00	1.1624	2	30605	C18H17FN2O	tormosyl	40507-23-1	25.00	1.1845	2
30383	C18H10N2	acenaphtho[1,2-b]quinoxaline	207-11-4	25.00	1.2517	2	30609	C18H17NO2	(3R-cis)-3,7a-diphenyltetrahydropyrrolo-[2,1*	132959-39-8	25.00	1.1558	2
30388	C18H10O2	5,6-chrysenedione	2051-10-7	25.00	1.2544	2	30610	C18H17NO2	(3S-cis)-(+)-3,7a-diphenyltetrahydropyrrolo-*	161970-71-4	25.00	1.1558	2
30389	C18H10O2	1,2-naphthacenedione	29276-40-2	25.00	1.2544	2	30615	C18H17NO3S	7-diethylamino-3-thenoylcoumarin	77820-11-2	25.00	1.2455	2
30390	C18H10O2	benz[a]anthracene-7,12-dione	2498-66-0	25.00	1.2544	2	30616	C18H17NO4	DL-5-benzoylamino-5-benzyl-4-oxo-1,3-dioxane	51127-28-7	25.00	1.2310	2
30391	C18H10O2	5,12-naphthacenedione	1090-13-7	25.00	1.2544	2	30617	C18H17NO4	(3S)-2-[benzyloxycarbonyl]-1,2,3,4-tetrahydr*	79261-58-8	25.00	1.2310	2
30396	C18H10O3	2-(3-oxo-1-indanylidene)-1,3-indandione	1707-95-5	25.00	1.2968	2	30618	C18H17NO4	fmoc-L-a-alanine	35661-39-3	25.00	1.2310	2
30397	C18H10O6	hydrindantin	5103-42-4	25.00	1.4113	2	30619	C18H17NO4	fmoc-b-alanine	35737-10-1	25.00	1.2310	2
30398	C18H10O6	6-deoxyversicolorin A	30517-65-8	25.00	1.4113	2	30620	C18H17NO5	rizaben	53902-12-8	25.00	1.2662	2
30399	C18H10O7	Z-(-)-4,6,8-trihydroxy-3a,12a-dihydroanthra(*	6807-96-1	25.00	1.4458	2	30624	C18H17N3O	2-(3-ethoxyphenyl)-5,6-dihydro-S-triazolo(5,*	55308-64-0	25.00	1.1913	2
30401	C18H11Cl	10-chloro-1,2-benzanthracene	20268-52-4	25.00	1.2144	2	30627	C18H16O2	cinnamyl cinnamate	122-69-0	4.00	1.1565	1
30404	C18H11NO2	6-nitrochrysene	7496-02-8	25.00	1.2732	2	30628	C18H16O2	1-methyl-7-isopropyl-9,10-phenanthrenedione	5398-75-4	25.00	1.1348	2
30406	C18H12	chrysene	218-01-9	116.20	1.2870	1	30629	C18H16O2	2-tert-butylanthraquinone	84-47-9	25.00	1.1348	2
30407	C18H12	benz[a]anthracene	56-55-3	160.40	1.4885	2	30635	C18H16O3	ipriflavone	35212-22-7	25.00	1.1752	2
30408	C18H12	benzo[c]phenanthrene	195-19-7	25.00	1.1209	2	30636	C18H16O4	benzyl fumarate	538-64-7	25.00	1.2137	2
30409	C18H12	naphthacene	92-24-0	25.00	1.3300	1	30639	C18H16O7	usnic acid	7562-61-0	25.00	1.3192	2
30410	C18H12	triphenylene	217-59-4	25.00	1.1209	2	30640	C18H18	1-methyl-7-isopropylphenanthrene	483-65-8	25.00	1.0350	1
30417	C18H12Cl12	dechlorane plus	13560-89-9	25.00	1.5946	2	30641	C18H18	2-(tert-butyl)anthracene	18801-00-8	25.00	1.0157	2
30423	C18H12NNaO3	naptalam	132-67-2	25.00	1.4000	1	30642	C18H18	2,3,9,10-tetramethylanthracene	66552-77-0	25.00	1.0157	2
30424	C18H12N2	2,2'-biquinoline	119-91-5	25.00	1.2081	2	30643	C18H18	1:2:3:4-tetramethylphenanthrene	4466-77-7	25.00	1.0157	2
30425	C18H12N2	2,3'-biquinoline	612-81-7	25.00	1.2081	2	30645	C18H18ClNO3	N-carbobenzyloxy-L-phenylalanyl chloromethyl*	26049-94-5	25.00	1.2335	2
30429	C18H12N6	2,4,6-tri-2-pyridinyl-1,3,5-triazine	3682-35-7	25.00	1.3630	2	30648	C18H18ClNOS	zotepine	26615-21-4	25.00	1.2142	2
30430	C18H12O	benz(a)anthracen-5-ol	960-92-9	25.00	1.1673	2	30649	C18H18ClNS	tarasan	113-59-7	25.00	1.1799	2
30436	C18H12O2	benz(a)anthracene-3,9-diol	56614-97-2	25.00	1.2112	2	30651	C18H18ClN3O	dibenzacepin	1977-10-2	25.00	1.2312	2
30439	C18H12O7	versicolorin B	4331-22-0	25.00	1.4005	2	30652	C18H18ClN3S	2-chloro-11-(4-methylpiperazino)dibenzo(b,f)*	2058-52-8	25.00	1.2450	2
30441	C18H13ClFN3	midazolam	59467-70-8	25.00	1.3136	2	30657	C18H18F6N2	(1R,2R)-(+)-N,N'-dimethyl-1,2-bis[3-(trifluo*	137944-39-9	25.00	1.2608	2
30443	C18H13ClN2O	pinazepam	52463-83-9	25.00	1.2893	2	30658	C18H18F6N2	(1S,2S)-(-)-N,N'-dimethyl-1,2-bis[3-(trifluo*	205873-26-3	25.00	1.2608	2
30445	C18H13N	6-chrysenamine	2642-98-0	25.00	1.1454	2	30659	C18H18N2O2	proquazone	22760-18-5	25.00	1.1754	2
30446	C18H13N	benz(a)anthracen-7-amine	2381-18-2	25.00	1.1454	2	30670	C18H18N4O4S2	(2-mercaptocarbamoyl)di-acetanilide	5428-95-5	25.00	1.3890	2
30448	C18H13N	7-methylbenz(c)acridine	3340-94-1	25.00	1.1454	2	30673	C18H18O2	dienestrol	84-17-3	25.00	1.1009	2
30449	C18H13N	12-methylbenz(a)acridine	3340-93-0	25.00	1.1454	2	30674	C18H18O2	3-hydroxyestra-1,3,5,7,9-pentaen-17-one	517-09-9	25.00	1.1009	2
30452	C18H13NO2	4-nitro-4-terphenyl	10355-53-0	25.00	1.2309	2	30675	C18H18O2	9,10-diethoxyanthracene	68818-86-0	25.00	1.1009	2
30454	C18H13NO3	2-[(1-naphthylamino)carbonyl]benzoic acid	132-66-1	20.00	1.4000	1	30676	C18H18O2	(E,E)-dienestrol	13029-44-2	25.00	1.1009	2
30456	C18H13N3O	rutecarpine	84-26-4	25.00	1.2683	2	30680	C18H18O4	dibenzyl succinate	103-43-5	25.00	1.2560	1
30456.1	C18H13N3O4	4,4'-dinitrotriphenylamine	1100-1-3	206.50	1.3753	2	30681	C18H18O5	diethylene glycol dibenzoate	120-55-8	15.00	1.1690	1
30457	C18H14	m-terphenyl	92-06-8	86.85	1.1493	1	30682	C18H18O6	dibenzyl tartrate	622-00-4	72.00	1.2036	1
30458	C18H14	o-terphenyl	84-15-1	56.20	1.1533	1	30683	C18H18O6	triallyl 1,3,5-benzenetricarboxylate	17832-16-5	48.50	1.1823	2
30459	C18H14	p-terphenyl	92-94-4	211.85	1.1527	1	30686	C18H18O12	benzenehexacarboxylic acid, hexamethyl ester	6237-59-8	25.00	1.4302	2
30460	C18H14	(2,4-cyclopentadien-1-ylidenephenylmethyl)be*	2175-90-8	25.00	1.0829	2	30687	C18H19ClN4	clozapine	5786-21-0	25.00	1.2132	2
30472	C18H14ClFN2O3	ethyl fluclozepate	29177-84-2	25.00	1.3609	2	30689	C18H19F2NO5	ryodipine	71653-63-9	25.00	1.2786	2
30473	C18H14Cl2O4	indacrinone	57296-63-6	25.00	1.3550	2	30693	C18H19NO2	apocodeine	641-36-1	25.00	1.1223	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
30696	C18H19NO3	tsuduranine	517-97-5	25.00	1.1601	2	30876	C18H25NO7	retrorsine-N-oxide	15503-86-3	25.00	1.2014	2
30697	C18H19NO4	hydroxycodeinone	508-54-3	25.00	1.1964	2	30877	C18H25N3	N-benzyl-4-cyano-4-(1-piperidino)-piperidine	84254-97-7	25.00	1.0306	2
30698	C18H19NO4	N-benzoyl-L-tyrosine ethylester	3483-82-7	25.00	1.1964	2	30878	C18H26	1,4-dicyclohexylbenzene	1087-02-1	25.00	0.9087	2
30699	C18H19NO4	coumarin 314	55804-66-5	25.00	1.1964	2	30883	C18H26N2O4	binoside	6620-60-6	25.00	1.1233	2
30700	C18H19NO4	laurolitsine	5890-18-6	25.00	1.1964	2	30884	C18H26N2O4S	glutril	26944-48-9	25.00	1.1698	2
30705	C18H19N3O2	N-acetyl-N-(2-methyl-4-((2-methylphenyl)azo)*	83-63-6	25.00	1.1936	2	30887	C18H26N4O4	N,N-dimethyl-p-phenylenediamine oxalate	62778-12-5	25.00	1.1836	2
30710	C18H19N3O6S	cefaloglycin	3577-01-3	25.00	1.3641	2	30889	C18H26O	acetyl ethyl tetramethyl tetralin	88-29-9	25.00	0.9487	2
30712	C18H19O2	a-estra-1,3,5,7,9-pentane-3,17-diol	6639-99-2	25.00	1.0848	2	30895	C18H26O2	nortestonate	434-22-0	25.00	0.9871	2
30713	C18H20	2,3-dihydro-1,1,3-trimethyl-3-phenyl-1H-inde*	3910-35-8	20.00	1.0009	1	30900	C18H26O5	zeranol	26538-44-3	25.00	1.0935	2
30715	C18H20	2,4-diphenyl-4-methyl-1-pentene	6362-80-7	-12.14	1.1558	2	30901	C18H26O6	2,3:5,6-di-O-cyclohexylidene-D-mannolactone	40656-50-6	25.00	1.1263	2
30716	C18H20BrNO	dihydro-N,N-dimethyl-3,3-diphenyl-2(3H)-fura*	37743-18-3	25.00	1.2852	2	30903	C18H26O6	4-vinylbenzo-18-crown-6	39557-71-6	25.00	1.1263	2
30719	C18H20FN3O4	ofloxacin	82419-36-1	25.00	1.2688	2	30904	C18H26O7	anguidin	2270-40-8	25.00	1.1579	2
30722	C18H20Cl2	perthane	72-56-0	25.00	1.1210	2	30905	C18H26O8	neosolaniol	36519-25-2	25.00	1.1884	2
30724	C18H20N2O2	4,4'-bis(dimethylamino)benzil	17078-27-2	25.00	1.1423	2	30908	C18H27NO3	capsaicin	404-86-4	25.00	1.0447	2
30725	C18H20N2O2	ethyl 4-[[(ethylphenylamino)methylene]amino]*	65816-20-8	25.00	1.1423	2	30913	C18H28	1-octyl-[1,2,3,4-tetrahydronaphthalene]	29138-91-8	25.00	0.8863	2
30728	C18H20N2O6	syringaldazine	14414-32-5	25.00	1.2783	2	30914	C18H28	2-octyl-[1,2,3,4-tetrahydronaphthalene]	66553-10-4	25.00	0.8863	2
30730	C18H20N2O6	ethyl methyl 1,4-dihydro-2,6-dimethyl-4-(m-n*	39562-70-4	25.00	1.2783	2	30921	C18H28N2O4	acebutolol	37517-30-9	25.00	1.0968	2
30736	C18H20N4O2	1-nitro-9-(3'-dimethylaminopropylamino)-acri*	4533-39-5	25.00	1.2106	2	30922	C18H28N2O4S	dextroamphetamine sulfate	51-63-8	25.00	1.1500	1
30738	C18H20O2	diethylstilbestrol	56-53-1	25.00	1.0155	2	30924	C18H28O	1-phenyl-1-dodecanone	1674-38-0	18.00	0.8794	1
30739	C18H20O2	3-hydroxyestra-1,3,5(10),7-tetraen-17-one	474-86-2	25.00	1.0155	2	30926	C18H28O2	4'-decyloxyacetophenone	18099-59-7	25.00	0.9631	2
30741	C18H20O2	bisphenol Z	843-55-0	25.00	1.0155	2	30936	C18H28O6	1,2:5,6-di-O-cyclohexylidene-a-D-glucofurano*	23397-76-4	25.00	1.1000	2
30746	C18H20O5	dibenzo-15-crown-5	14262-60-3	25.00	1.1813	2	30937	C18H28O6	2,3:5,6-di-O-cyclohexylidene-a-D-mannofurano*	61489-23-4	25.00	1.1000	2
30747	C18H20O7	4,4'(5')-dihydroxydibenzo-15-crown-5	---	25.00	1.2484	2	30943	C18H29NO	2,4,6-tri-tert-butylnitrosobenzene	24973-59-9	25.00	0.9493	2
30750	C18H21ClN4O9	rfcnu	55102-44-8	25.00	1.4374	2	30944	C18H29NO2	2,4,6-tri-tert-butylnitrobenzene	4074-25-3	25.00	0.9854	2
30754	C18H21NO	a,a-diphenyl-4-piperidinomethanol	115-46-8	25.00	1.0523	2	30945	C18H29NO2	penbutolol	38363-40-5	25.00	0.9854	2
30756	C18H21NO	N-pivaloyl-o-benzylaniline	85864-33-1	25.00	1.0523	2	30947	C18H30	dodecylbenzene	123-01-3	2.78	1.0153	2
30758	C18H21NO3	codeine	76-57-3	25.00	1.3200	1	30948	C18H30	hexaethylbenzene	604-88-6	0.00	1.0392	1
30759	C18H21NO3	hydrocodone	125-29-1	52.50	1.3050	2	30949	C18H30	1,2,4,5-tetraisopropylbenzene	635-11-0	150.00	0.7580	1
30760	C18H21NO3	6-isocodeine	509-64-8	52.50	1.3050	2	30951	C18H30	octadecahydrochrysene	2090-14-4	81.00	0.8196	2
30761	C18H21NO3	neopine	467-14-1	52.50	1.3050	2	30952	C18H30	1,3,5-tri-tert-butylbenzene	1460-02-2	81.00	0.8196	2
30762	C18H21NO3	pseudocodeine	466-96-6	80.00	1.2900	1	30953	C18H30	1,2,4-tri-tert-butylbenzene	1459-11-6	81.00	0.8196	2
30763	C18H21NO3	thebainone	467-98-1	52.50	1.3050	2	30960	C18H30O	2,4,6-tri-tert-butylphenol	732-26-3	27.00	0.8640	1
30765	C18H21NO4	(S)-N-boc-2-naphthylalanine	58438-04-3	25.00	1.1640	2	30962	C18H30O	4-dodecylphenol	104-43-8	25.00	0.9500	1
30766	C18H21NO4	(R)-N-boc-1-naphthylalanine	76932-48-4	25.00	1.1640	2	30963	C18H30O	dodecylphenols	27193-86-8	25.00	0.9300	1
30767	C18H21NO4	(R)-N-boc-2-naphthylalanine	76985-10-9	25.00	1.1640	2	30964	C18H30O2	linolenic acid	463-40-1	-11.10	1.0970	2
30768	C18H21NO4	percodan	76-42-6	25.00	1.1640	2	30965	C18H30O2	cis,cis,cis-9,11,13-octadecanetrienoic acid	3884-88-6	42.50	0.9015	2
30770	C18H21NO8	4-methylumbelliferyl-N-acetyl-b-D-glucosamin*	37067-30-4	25.00	1.2930	2	30966	C18H30O2	cis,cis,trans-9,11,13-octadecatrienoic acid	544-72-9	20.00	0.9027	1
30772	C18H21N3O	dibenzepin	4498-32-2	25.00	1.1249	2	30967	C18H30O2	trans,cis,trans-9,11,13-octadecatrienoic acid	506-23-0	50.00	0.9028	1
30776	C18H21N3O4	ethodin	1837-57-6	25.00	1.2289	2	30968	C18H30O2	trans,trans,trans-9,11,13-octadecatrienoic a*	544-73-0	80.00	0.8839	1
30777	C18H22	2,2',4,4',6,6'-hexamethyl-1,1'-biphenyl	4482-03-5	50.00	1.0230	1	30969	C18H30O2	4-dodecylresorcinol	24305-56-4	42.50	0.9015	2
30779	C18H22	2,3-dimethyl-2,3-diphenylbutane	1889-67-4	119.00	1.1942	2	30974	C18H30O4	auxin b	53109-18-5	20.00	1.2690	1
30782	C18H22	4-hexylbiphenyl	59662-31-6	33.33	0.9859	2	30975	C18H30O4	dicyclohexyl adipate	849-99-0	25.00	1.0104	2
30783	C18H22ClNO	N-phenoxyisopropyl-N-benzyl-b-chloroethylami*	59-96-1	25.00	1.1017	2	30980	C18H31N	4-dodecylaniline	104-42-7	25.00	0.8907	2
30786	C18H22ClO3	benzacine hydrochloride	71-79-4	25.00	1.1381	2	30987	C18H32I2O2	6,7-diiodo-6-octadecenoic acid	533-86-8	25.00	1.4754	2
30790	C18H22I3N3O8	metrizamide	31112-62-6	25.00	2.0128	2	30989	C18H32N2O5S	panthesin	135-44-4	25.00	1.1231	2
30793	C18H22N2	emoquil	82-92-8	25.00	1.0356	2	30991	C18H32O2	linoleic acid	60-33-3	-5.00	1.0741	2
30796	C18H22N2O	(3,5-di-tert-butyl-4-hydroxybenzylidene)malo*	10537-47-0	25.00	1.0743	2	30992	C18H32O2	2-cyclopentene-1-tridecanoic acid, (S)	29106-32-9	47.50	0.8853	2
30797	C18H22N2OS	2-methoxypromazine	61-01-8	25.00	1.1295	2	30993	C18H32O2	trans,trans-10,12-octadecadienoic acid	1072-36-2	70.00	0.8686	1
30798	C18H22N2O2	N,N'-bis(p-ethoxyphenyl)acetamidine	101-93-9	25.00	1.1115	2	30994	C18H32O2	9-octadecynoic acid	506-24-1	47.50	0.8853	2
30799	C18H22N2O2S	alimemazine-S,S-dioxide	3689-50-7	25.00	1.1635	2	30997	C18H32O4Sn	dibutyltin bis(acetylacetonate)	22673-19-4	25.00	1.2200	1
30803	C18H22N2S	alimemazine	84-96-8	25.00	1.0941	2	30998	C18H32O5	5-c-[3,5-di-sec-butyl-1-cyclopenten-1-yl]-4-*	491-14-5	14.00	1.2920	1
30806	C18H22O2	dicumyl peroxide	80-43-3	25.00	1.0200	1	31001	C18H32O16	melezitose	597-12-6	25.00	1.5565	1
30807	C18H22O2	estrone	53-16-7	25.00	1.2360	1	31002	C18H32O16	raffinose	512-69-6	25.00	1.4650	1
30808	C18H22O2	hexestrol	84-16-2	25.00	1.0400	2	31003	C18H32O16	maltotriose	1109-28-0	25.00	1.5108	2
30809	C18H22O2	8-isoestrone	517-06-6	25.00	1.0400	2	31014	C18H34	1-octadecyne	629-89-0	20.00	0.8025	1
30813	C18H22O4	nordihydroguaiaretic acid	500-38-9	25.00	1.1150	2	31015	C18H34	2-octadecyne	61847-97-0	30.00	0.8016	1
30815	C18H22O5	zearalenone	17924-92-4	25.00	1.1501	2	31024	C18H34Cl2O2	2,2-dichlorooctadecanoic acid	56279-50-6	25.00	1.0142	2
30817	C18H23ClN2	cyclizine hydrochloride	303-25-3	25.00	1.0858	2	31030	C18H34O2	oleic acid	112-80-1	13.38	1.0423	2
30818	C18H23ClN2O2	N,N'-bis(4-ethoxyphenyl)ethanimidamide monoh*	620-99-5	25.00	1.1540	2	31031	C18H34O2	elaidic acid	112-79-8	45.00	0.8734	1
30820	C18H23FO2	4-fluoroestradiol	1881-37-4	25.00	1.0584	2	31032	C18H34O2	trans-2-octadecenoic acid	2825-79-8	90.00	0.8484	1
30825	C18H23NO3	dihydrocodeine	125-28-0	25.00	1.0986	2	31033	C18H34O2	trans-11-octadecenoic acid	693-72-1	53.33	0.8699	2
30826	C18H23NO3	vasodilian	395-28-8	25.00	1.0986	2	31034	C18H34O2	petroselinic acid	593-39-5	53.33	0.8699	2
30827	C18H23NO4	denopamine	71771-90-9	25.00	1.1337	2	31039	C18H34O3	4-ketostearic acid	16694-30-7	23.67	0.9343	2
30828	C18H23NO5	seneciphylline	480-81-9	25.00	1.1675	2	31041	C18H34O4	dibutyl sebacate	109-43-3	-9.20	1.1226	2
30829	C18H23NO6	riddelline	23246-96-0	25.00	1.1999	2	31042	C18H34O4	dihexyl adipate	110-33-8	-13.80	1.1258	2
30838	C18H24	2,6-bis(1,1-dimethylethyl)-naphthalene	3905-64-4	25.00	0.9356	2	31044	C18H34O4	diethyl tetradecanedioate	19812-63-6	25.00	0.9327	2
30839	C18H24	dodecahydrotriphenylene	1610-39-5	25.00	0.9356	2	31046	C18H34O6	9,10-dihydroxyoctadecanedioic acid, (R*,R*)-*	23843-52-9	25.00	1.0296	2
30843	C18H24N2	santoflex 13	793-24-8	25.00	1.0081	2	31052	C18H34O7	1-oxododecyl-D-glucopyranoside	60415-67-0	25.00	1.0595	2
30850	C18H24O2	estra-1,3,5(10)-triene-3,17-diol (17beta)-	50-28-2	25.00	1.0127	2	31053	C18H34O7	1-oxododecyl-b-D-glucopyranoside	64395-92-2	25.00	1.0595	2
30851	C18H24O2	estra-1,3,5(10)-triene-3,17-diol, (17alpha)	57-91-0	25.00	1.0127	2	31054	C18H35Br	cis-1-bromo-1-octadecene	66292-44-2	25.00	1.0129	2
30852	C18H24O2	estra-1,3,5(10)-triene-3,17-diol, (8alpha,17*	517-04-4	25.00	1.0127	2	31055	C18H35Br	trans-1-bromo-1-octadecene	66292-45-3	25.00	1.0129	2
30853	C18H24O2	estra-5,7,9-triene-3,17-diol, (3beta,17beta)	517-07-7	25.00	1.0127	2	31056	C18H35BrO2	18-bromooctadecanoic acid	2536-38-1	25.00	1.0738	2
30856	C18H24O3	estra-1,3,5(10)-triene-3,16,17-triol, (16alp*	50-27-1	25.00	1.2700	1	31057	C18H35Br3	1,1,1-tribromooctadecane	62127-74-6	25.00	1.3389	2
30857	C18H24O3	estra-1,3,5(10)-triene-3,16,17-triol, (16bet*	547-81-9	25.00	1.0502	2	31058	C18H35Cl	cis-1-chloro-1-octadecene	66292-46-4	25.00	0.8842	2
30860	C18H24O3	4-hydroxyestradiol	5976-61-4	25.00	1.0502	2	31059	C18H35Cl	trans-1-chloro-1-octadecene	66292-47-5	25.00	0.8842	2
30866	C18H25NO	cyclazocine	3572-80-3	25.00	0.9974	2	31061	C18H35Cl3	1,1,1-trichlorooctadecane	62108-62-7	25.00	0.9971	2
30872	C18H25NO5	aureine	130-01-8	25.00	1.1386	2	31062	C18H35F	cis-1-fluoro-1-octadecene	66292-48-6	25.00	0.8527	2
30873	C18H25NO5	integerrimine	480-79-5	25.00	1.1386	2	31063	C18H35F	trans-1-fluoro-1-octadecene	66292-49-7	25.00	0.8527	2
30874	C18H25NO6	jacobine	6870-67-3	25.00	1.1706	2	31064	C18H35F3	1,1,1-trifluorooctadecane	1511-82-6	25.00	0.9154	2
30875	C18H25NO6	retrorsine	480-54-6	25.00	1.1706	2	31065	C18H35I	cis-1-iodo-1-octadecene	66292-50-0	25.00	1.1266	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
31066	C18H35I	trans-1-iodo-1-octadecene	66292-51-1	25.00	1.1266	2	31269	C19H14	7-methyl-3,4-benzphenanthrene	2381-19-3	25.00	1.1011	2
31067	C18H35I3	1,1,1-triiodooctadecane	---	25.00	1.6088	2	31270	C19H14	8-methyl-3:4-benzphenanthrene	4076-40-8	25.00	1.1011	2
31069	C18H35N	octadecanenitrile	638-65-3	20.00	0.8325	1	31271	C19H14	2-methylchrysene	3351-32-4	25.00	1.1011	2
31071	C18H36	1-octadecene	112-88-9	17.61	0.9216	2	31272	C19H14	3-methylchrysene	3351-31-3	25.00	1.1011	2
31076	C18H36	cyclooctadecane	296-18-4	24.00	0.7995	2	31273	C19H14	4-methylchrysene	3351-30-2	25.00	1.1011	2
31079	C18H36Br2	1,1-dibromooctadecane	62168-35-8	25.00	1.1729	2	31274	C19H14	6-methylchrysene	1705-85-7	25.00	1.1011	2
31080	C18H36Cl2	1,1-dichlorooctadecane	62017-20-3	25.00	0.9341	2	31279	C19H14F3NO	fluridone	59756-60-4	25.00	1.2686	2
31083	C18H36F2	1,1-difluorooctadecane	62127-07-5	25.00	0.8760	2	31281	C19H14O	4-benzoylbiphenyl	2128-93-0	25.00	1.1445	2
31084	C18H36I2	1,1-diiodooctadecane	66292-27-1	25.00	1.3724	2	31282	C19H14O	9-phenyl-9-fluorenol	25603-67-2	25.00	1.1445	2
31086	C18H36N2O6	kryptofix(r) 222	23978-09-8	25.00	1.0635	2	31287	C19H14O	5-methoxychrysene	61413-39-6	25.00	1.1445	2
31088	C18H36N2S4Zn	zinc dibutyldithiocarbamate	136-23-2	25.00	1.2400	1	31289	C19H14O2	9-phenylxanthen-9-ol	596-38-3	25.00	1.1859	2
31090	C18H36O	octadecanal	638-66-4	29.00	0.8346	2	31290	C19H14O3	aurin	603-45-2	25.00	1.2253	2
31091	C18H36O	2-octadecanone	7373-13-9	29.00	0.8346	2	31292	C19H14O5	tetrangomycin	7351-08-8	25.00	1.2988	2
31092	C18H36O	3-octadecanone	18261-92-2	29.00	0.8346	2	31293	C19H14O5S	phenol red	143-74-8	25.00	1.3438	2
31095	C18H36O	trans-9-octadecen-1-ol	506-42-3	40.00	0.8338	1	31295	C19H15Br	bromotriphenylmethane	596-43-0	20.00	1.5500	1
31096	C18H36O	1,2-epoxyoctadecane	7390-81-0	29.00	0.8346	2	31297	C19H15Cl	chlorotriphenylmethane	76-83-5	25.00	1.1530	2
31097	C18H36O2	octadecanoic acid	57-11-4	69.60	1.0044	2	31301	C19H15ClN4	triphenyltetrazolium chloride	298-96-4	25.00	1.2938	2
31098	C18H36O2	2-octyldecanoic acid	619-39-6	70.00	0.8447	1	31302	C19H15ClO4	DL-3-(a-acetonyl-4'-chlorobenzyl)-4-hydroxyc*	81-82-3	25.00	1.2972	2
31099	C18H36O2	heptadecyl formate	66292-28-2	35.00	0.8751	2	31306	C19H15N	9-benzyl-9H-carbazole	19402-87-0	25.00	1.1245	2
31101	C18H36O2	pentadecyl propanoate	66292-29-3	35.00	0.8751	2	31307	C19H15N	7,9-dimethylbenz(c)acridine	963-89-3	25.00	1.1245	2
31102	C18H36O2	tetradecyl butanoate	6221-98-3	35.00	0.8751	2	31318	C19H15NO2	allyl 2-phenylcinchoninate	524-34-5	25.00	1.2052	2
31104	C18H36O2	methyl heptadecanoate	1731-92-6	35.00	0.8751	2	31321	C19H15NO5	N-(9H-fluoren-2-ylmethoxycarbonyloxy)succini*	82911-69-1	25.00	1.3130	2
31107	C18H36O3	ethylene glycol monopalmitate	4219-49-2	60.00	0.8768	1	31322	C19H15NO5	atheriline	5140-35-2	25.00	1.3130	2
31109	C18H36O4	9,10-dihydroxyoctadecanoic acid	120-87-6	25.00	0.9467	2	31326	C19H16	2-benzyl-1,1'-biphenyl	606-97-3	62.00	1.0925	2
31111	C18H36O5	9,10,18-trihydroxyoctadecanoic acid, (R*,R*)	583-86-8	25.00	0.9782	2	31327	C19H16	4-benzyl-1,1'-biphenyl	613-42-3	25.00	1.1710	1
31113	C18H36S	thiacyclononadecane	296-47-9	25.00	0.8692	2	31328	C19H16	triphenylmethane	519-73-3	0.00	1.1480	1
31115	C18H37Br	1-bromooctadecane	112-89-0	20.00	0.9848	1	31332	C19H16ClFN2O	flutoprazepam	25967-29-7	25.00	1.2683	2
31116	C18H37Cl	1-chlorooctadecane	3386-33-2	20.00	0.8616	1	31337	C19H16N2	1-[(2-methylphenyl)methyl]-9H-pyrido[3,4-b]i*	525-15-5	25.00	1.1463	2
31118	C18H37F	1-fluorooctadecane	1649-73-6	25.00	0.8353	2	31341	C19H16N2O4	benzoylphenobarbital	744-80-9	25.00	1.2934	2
31119	C18H37I	1-iodooctadecane	629-93-6	20.00	1.0994	1	31344	C19H16O	triphenylmethanol	76-84-6	25.00	1.1990	1
31121	C18H37NO	octadecanamide	124-26-5	25.00	0.8691	2	31359	C19H16O3	triphenoxymethane	16737-44-3	25.00	1.1886	2
31124	C18H37NO2	1-nitrooctadecane	66292-30-6	25.00	0.9026	2	31366	C19H16O4	warfarin	81-81-2	25.00	1.2257	2
31125	C18H37NO2	ammonium oleate	544-60-5	25.00	0.9026	2	31367	C19H16O5	efloxate	119-41-5	25.00	1.2612	2
31126	C18H37NO2	D-erythro-spinghosine, synthetical	123-78-4	25.00	0.9026	2	31369	C19H16S	triphenylmethyl mercaptan	3695-77-0	25.00	1.1298	2
31130	C18H37N5O10	bekanamycin	4696-76-8	25.00	1.2281	2	31372	C19H17Cl2N3O3	difenoconazole	119446-68-3	25.00	1.3653	2
31131	C18H38	octadecane	593-45-3	26.80	0.9050	1	31374	C19H17ClN2O	demetrin	2955-38-6	25.00	1.2261	2
31140	C18H38O	1-octadecanol	112-92-5	57.90	0.9495	2	31375	C19H17ClN2O4	quizalofop-ethyl	76578-14-8	25.00	1.3232	2
31141	C18H38O	2-octadecanol	593-32-8	54.67	0.8021	2	31376	C19H17ClN2O4	oxamethacin	27035-30-9	25.00	1.3232	2
31142	C18H38O	3-octadecanol, (±)	111897-18-8	80.00	0.7858	1	31377	C19H17N	4-(diphenylmethyl)aniline	603-38-3	25.00	1.0904	2
31143	C18H38O	dinonyl ether	2456-27-1	-0.15	0.9657	2	31378	C19H17N	triphenylmethylamine	5824-40-8	25.00	1.0904	2
31144	C18H38O2	1,2-octadecanediol	20294-76-2	25.00	0.8628	2	31380	C19H17NOS	tinactin	2398-96-1	25.00	1.1868	2
31145	C18H38O2	1,3-octadecanediol	---	25.00	0.8628	2	31382	C19H17NO3	cusparine	529-92-0	25.00	1.2067	2
31146	C18H38O2	1,4-octadecanediol	---	25.00	0.8628	2	31383	C19H17NO4	(R)-N-fmoc-azetidine-2-carboxylic acid	374791-02-3	25.00	1.2422	2
31147	C18H38O2	1,18-octadecanediol	3155-43-9	25.00	0.8628	2	31384	C19H17NO4	(S)-N-fmoc-azetidine-2-carboxylic acid	136552-06-2	25.00	1.2422	2
31149	C18H38S	1-octadecanethiol	2885-00-9	20.00	0.8475	1	31385	C19H17N3	N,N',N''-triphenylguanidine	101-01-9	20.00	1.1630	1
31150	C18H38S	2-octadecanethiol	62155-06-0	22.50	0.8458	2	31386	C19H17N3O	evodiamine	518-17-2	25.00	1.2040	2
31152	C18H38S	dinonyl sulfide	929-98-6	22.50	0.8458	2	31398	C19H18ClFN2O3	flutazolam	27060-91-9	25.00	1.2970	2
31153	C18H38S	methyl heptadecyl sulfide	---	22.50	0.8458	2	31406	C19H18N2O3	2-benzoyl-1-cyano-6,7-dimethoxy-1,2,3,4-tetr*	10174-83-1	25.00	1.2236	2
31154	C18H38S	ethyl hexadecyl sulfide	66292-31-7	22.50	0.8458	2	31407	C19H18N2O3	1',3',3'-trimethylspiro-8-nitro(2H-1-benzopy*	5150-50-5	25.00	1.2236	2
31155	C18H38S	propyl pentadecyl sulfide	66292-32-8	22.50	0.8458	2	31410	C19H18N2O4	Na-carbobenzyloxy-L-tryptophan	7432-21-5	25.00	1.2576	2
31156	C18H38S	butyl tetradecyl sulfide	66292-33-9	22.50	0.8458	2	31412	C19H18N2O5	Na-fmoc-L-asparagine	71989-16-7	25.00	1.2901	2
31162	C18H39N	octadecylamine	124-30-1	20.00	0.8618	1	31419	C19H18O3	trans,trans-1,3-bis(4-methoxybenzylidene)ace*	2051-07-2	25.00	1.1545	2
31175	C18H40Si	octadecylsilane	18623-11-5	25.00	0.7950	1	31422	C19H18O5	2-(1,3-benzodioxol-5-yl)-7-methoxy-5-benzofu*	530-22-3	25.00	1.2260	2
31183	C18H54O7Si8	octadecamethyloctasiloxane	556-69-4	-63.00	1.1539	2	31423	C19H18Si	methyltriphenylsilane	791-29-7	20.00	1.0880	1
31185	C19H10Br4O5S	bromophenol blue	115-39-9	25.00	2.0609	2	31428	C19H19NO3	laureline	81-38-9	25.00	1.1731	2
31199	C19H11N	phenaleno(1,9-gh)quinoline	189-92-4	25.00	1.2016	2	31429	C19H19NO4	bulbocapnine	298-45-3	25.00	1.2081	2
31207	C19H12	4H-cyclopenta(def)chrysene	202-98-2	25.00	1.1385	2	31433	C19H19NS	9-(1-methyl-4-piperidylidene)thioxanthene	314-03-4	25.00	1.1182	2
31223	C19H12N2	13H-benzo(g)pyrido(3,2-a)carbazole	207-85-2	25.00	1.2221	2	31434	C19H19N3	triaminotriphenylmethane	548-61-8	25.00	1.1332	2
31227	C19H12O2	a-naphthoflavone	604-59-1	25.00	1.2249	2	31435	C19H19N3O	pararosaniline base	25620-78-4	25.00	1.1702	2
31228	C19H12O2	b-naphthoflavone	6051-87-2	25.00	1.2249	2	31436	C19H19N3O6	nilvadipine	75530-68-6	25.00	1.3333	2
31230	C19H12O6	dicumarol	66-76-2	25.00	1.3740	2	31437	C19H19N7O6	folic acid	59-30-3	25.00	1.4423	2
31231	C19H12O8S	pyrogallol red	32638-88-3	25.00	1.4743	2	31438	C19H20Br4O4	4,4'-isopropylidenebis[2-(2,6-dibromophenoxy*	4162-45-2	25.00	1.8110	2
31247	C19H13N	9-phenylacridine	602-56-2	25.00	1.1615	2	31443	C19H20N2	mebhydroline	524-81-2	25.00	1.0812	2
31252	C19H14	3-methylbenz[a]anthracene	2498-75-1	25.00	1.1011	2	31445	C19H20N2	mebhydrolin napadisylate	6153-33-9	25.00	1.0812	2
31253	C19H14	8-methylbenz[a]anthracene	2381-31-9	25.00	1.2310	1	31446	C19H20N2O	sarpagan-17-al	6874-98-2	25.00	1.1192	2
31254	C19H14	9-methylbenz[a]anthracene	2381-16-0	25.00	1.1011	2	31448	C19H20N2O2	phenylbutazone	50-33-9	25.00	1.1557	2
31255	C19H14	10-methylbenz[a]anthracene	2381-15-9	25.00	1.1011	2	31453	C19H20O4	bisphenol A diacetate	10192-62-8	25.00	1.1587	2
31256	C19H14	11-methylbenz[a]anthracene	6111-78-0	25.00	1.1011	2	31458	C19H21ClN4O5	1-(theophyllin-7-yl)ethyl-2-(2-(p-chlorophen*	54504-70-0	25.00	1.3408	2
31257	C19H14	1-methylchrysene	3351-28-8	25.00	1.1011	2	31463	C19H21NO2	1-nuciferine	475-83-2	25.00	1.1059	2
31258	C19H14	5-methylchrysene	3697-24-3	25.00	1.1011	2	31464	C19H21NO3	isothebaine	568-21-8	25.00	1.1418	2
31259	C19H14	6-methyl-3:4-benzphenanthrene	2606-85-1	25.00	1.1011	2	31465	C19H21NO3	thebaine	115-37-7	20.00	1.3050	1
31260	C19H14	1-methylbenz(a)anthracene	2498-77-3	25.00	1.1011	2	31466	C19H21NO3	allorphine	62-67-9	25.00	1.1418	2
31261	C19H14	2-methylbenz(a)anthracene	2498-76-2	25.00	1.1011	2	31467	C19H21NO4	boldine	476-70-0	25.00	1.1762	2
31262	C19H14	4-methylbenz(a)anthracene	316-49-4	25.00	1.1011	2	31469	C19H21NO4	laurotetanin	128-76-7	25.00	1.1762	2
31263	C19H14	5-methylbenz(a)anthracene	2319-96-2	25.00	1.1011	2	31470	C19H21NO4	L-naloxone	465-65-6	25.00	1.1762	2
31264	C19H14	6-methylbenz(a)anthracene	316-14-3	25.00	1.1011	2	31471	C19H21NO5	trimethylcolchicinic acid	3482-37-9	25.00	1.2093	2
31265	C19H14	10-methyl-1,2-benzanthracene	2541-69-7	25.00	1.1011	2	31472	C19H21NS	dosulepin	113-53-1	25.00	1.0885	2
31266	C19H14	12-methylbenz(a)anthracene	2422-79-9	25.00	1.1011	2	31473	C19H21N3	hypnodin	1977-11-3	25.00	1.1022	2
31267	C19H14	5-methylbenzo(c)phenanthrene	652-04-0	25.00	1.1011	2	31475	C19H21N3S	metiapine	5800-19-1	25.00	1.1555	2
31268	C19H14	6-methylbenzo(c)phenanthrene	2381-34-2	25.00	1.1011	2	31476	C19H21N5O4	1-(4-amino-6,7-dimethoxy-2-quinazolinyl-4-(2*	19216-56-9	25.00	1.2983	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
31478	C19H22ClN5O	trazodone	19794-93-5	25.00	1.2388	2	31648	C19H32	androstane	24887-75-0	22.50	0.8519	2
31480	C19H22FNO4S	4-(4-fluorobenzoyl)piperidine p-toluenesulfo*	132442-43-4	25.00	1.2308	2	31657	C19H34	tricyclohexylmethane	1610-24-8	50.00	0.9273	1
31481	C19H22FN3O	4'-fluoro-4-(4-(2-pyridyl)-1-piperazinyl)but*	1649-18-9	25.00	1.1513	2	31658	C19H34Br4O2	methyl 9,10,12,13-tetrabromooctadecanoate	62080-86-8	25.00	1.5321	2
31484	C19H22N2O	cinchonidine	485-71-2	25.00	1.0894	2	31659	C19H34BrN	benzyltributylammonium bromide	25316-59-0	25.00	1.0661	2
31485	C19H22N2O	cinchonine	118-10-5	25.00	1.0894	2	31660	C19H34ClN	benzyltributylammonium chloride	23616-79-7	25.00	0.9406	2
31486	C19H22N2O	cinchotoxine	69-24-9	25.00	1.0894	2	31663	C19H34O	tricyclohexylmethanol	17687-74-0	25.00	0.8818	2
31487	C19H22N2O	(-)-eburnamonine	4880-88-0	25.00	1.0894	2	31670	C19H36	1-nonadecyne	26186-01-6	20.00	0.8054	1
31494	C19H22N2O2	cupreine	524-63-0	25.00	1.1252	2	31671	C19H36	2-nonadecyne	61847-98-1	22.50	0.8174	2
31495	C19H22N2O2	sarpagan-10,17-diol	482-68-8	25.00	1.1252	2	31672	C19H36	3-nonadecyne	61886-65-5	22.50	0.8174	2
31498	C19H22O2	4-[1-ethyl-2-(4-methoxyphenyl)-1-butenyl]phe*	7773-60-6	25.00	1.0562	2	31673	C19H36	1,1-dicyclohexylheptane	2090-15-5	22.50	0.8174	2
31499	C19H22O2	trans-4-[1-ethyl-2-(4-methoxyphenyl)-1-buten*	18839-90-2	25.00	1.0562	2	31675	C19H36O2	methyl oleate	112-62-9	19.90	1.0229	2
31503	C19H22O6	gibberellic acid	77-06-5	25.00	1.1951	2	31677	C19H36O3	methyl 12-oxooctadecanoate	2380-27-0	25.00	0.9299	2
31506	C19H23ClN2	chlorimipramine	303-49-1	25.00	1.0997	2	31678	C19H37Br	cis-1-bromo-1-nonadecene	66359-51-1	25.00	1.0053	2
31511	C19H23ClN2O2S	pyridate	55512-33-9	25.00	1.2102	2	31679	C19H37Br	trans-1-bromo-1-nonadecene	66359-52-2	25.00	1.0053	2
31514	C19H23NO	cinnamedrine	90-86-8	25.00	1.0403	2	31680	C19H37Br3	1,1,1-tribromononadecane	62127-75-7	25.00	1.3182	2
31515	C19H23NO	N-p-ethoxybenzylidene-p'-butylaniline	29743-08-6	25.00	1.0403	2	31681	C19H37Cl	cis-1-chloro-1-nonadecene	66359-53-3	25.00	0.8828	2
31518	C19H23NO3	dihydrothebaine	561-25-1	25.00	1.1124	2	31682	C19H37Cl	trans-1-chloro-1-nonadecene	66359-54-4	25.00	0.8828	2
31519	C19H23NO3	ethylmorphine	76-58-4	25.00	1.1124	2	31683	C19H37Cl3	1,1,1-trichlorononadecane	62108-63-8	25.00	0.9908	2
31520	C19H23NO4	sinomenine	115-53-7	25.00	1.1463	2	31684	C19H37F	cis-1-fluoro-1-nonadecene	66359-55-5	25.00	0.8528	2
31521	C19H23NS	hydrothiadene	1886-45-9	25.00	1.0607	2	31685	C19H37F	trans-1-fluoro-1-nonadecene	66359-56-6	25.00	0.8528	2
31523	C19H23N3	amitraz	33089-61-1	20.00	1.1280	1	31686	C19H37F3	1,1,1-trifluorononadecane	62126-85-6	25.00	0.9126	2
31526	C19H23N3O2	ergometrinine	479-00-5	25.00	1.1433	2	31687	C19H37I	cis-1-iodo-1-nonadecene	66359-57-7	25.00	1.1139	2
31537	C19H24ClNO3	ethylmorphine hydrochloride	125-30-4	25.00	1.1530	2	31688	C19H37I	trans-1-iodo-1-nonadecene	66359-58-8	25.00	1.1139	2
31538	C19H24N2	1-methyl-N-phenyl-N-benzyl-4-piperidinamine	4945-47-5	25.00	1.0248	2	31689	C19H37I3	1,1,1-triiododononadecane	---	25.00	1.5786	2
31539	C19H24N2	imipramine	50-49-7	25.00	1.0248	2	31690	C19H37N	nonadecanenitrile	28623-46-3	25.00	0.8522	2
31540	C19H24N2O	cinchonamine	482-28-0	25.00	1.0614	2	31692	C19H37NS	octadecyl isothiocyanate	2877-26-1	25.00	0.9070	2
31541	C19H24N2O	hydrocinchonidine	485-64-3	25.00	1.0614	2	31694	C19H37N5O7	sisomicin	32385-11-8	25.00	1.1646	2
31542	C19H24N2O	hydrocinchonine	485-65-4	25.00	1.0614	2	31698	C19H38	1-nonadecene	18435-45-5	23.40	0.9248	2
31545	C19H24N2O	impiramine-N-oxide	2207-85-4	25.00	1.0614	2	31700	C19H38Br2	1,1-dibromononadecane	62168-36-9	25.00	1.1587	2
31546	C19H24N2OS	phencarbamide	3735-90-8	25.00	1.1142	2	31701	C19H38Cl2	1,1-dichlorononadecane	62017-21-4	25.00	0.9305	2
31549	C19H24N2S	10-(2-diethylaminopropyl)phenothiazine	522-00-9	25.00	1.0805	2	31702	C19H38F2	1,1-difluorononadecane	62127-08-6	25.00	0.8750	2
31550	C19H24N4O2	4,4'-diamidinodiphenoxypentane	100-33-4	25.00	1.1604	2	31703	C19H38I2	1,1-diiodononadecane	66359-60-2	25.00	1.3503	2
31551	C19H24N2O2	conquinamine	464-86-8	25.00	1.0967	2	31704	C19H38O	nonadecanal	17352-32-8	25.00	0.8462	2
31552	C19H24N2O2	quinamine	464-85-7	25.00	1.0967	2	31705	C19H38O	2-nonadecanone	629-66-3	56.00	0.8108	1
31553	C19H24N2O2	biltricide	55268-74-1	25.00	1.0967	2	31706	C19H38O	10-nonadecanone	504-57-4	25.00	0.8462	2
31554	C19H24N2O2	o-(diethylaminoethoxy)benzanilide	6376-26-7	25.00	1.0967	2	31708	C19H38O2	nonadecanoic acid	646-30-0	68.08	1.0200	1
31556	C19H24O3	androst-4-ene-3,11,17-trione	382-45-6	25.00	1.0653	2	31709	C19H38O2	14-methyloctadecanoic acid	94434-64-7	20.00	0.9400	1
31559	C19H24O5	crotocin	21284-11-7	25.00	1.1336	2	31710	C19H38O2	17-methyloctadecanoic acid	2724-59-6	70.00	0.8420	1
31560	C19H24O5	trichothecin	6379-69-7	25.00	1.1336	2	31711	C19H38O2	9-methyloctadecanoic acid	86073-38-3	20.00	0.9980	1
31564	C19H25NO	N-allyl-3-hydroxymorphinan	152-02-3	25.00	1.0140	2	31712	C19H38O2	octadecyl formate	5451-75-2	40.13	0.8768	2
31566	C19H25NO4	tetramethrin	7696-12-0	25.00	1.1183	2	31713	C19H38O2	heptadecyl acetate	822-20-8	40.13	0.8768	2
31568	C19H26	1-nonylnaphthalene	26438-26-6	11.00	1.1042	2	31714	C19H38O2	hexadecyl propanoate	6221-96-1	40.13	0.8768	2
31572	C19H26N2O	curan-17-ol, (16alpha)	18397-07-4	25.00	1.0352	2	31715	C19H38O2	pentadecyl butanoate	125164-51-4	40.13	0.8768	2
31576	C19H26O2	androst-4-ene-3,17-dione	63-05-8	25.00	1.0036	2	31716	C19H38O2	ethyl heptadecanoate	14010-23-2	30.00	0.8517	1
31577	C19H26O2	boldenone	846-48-0	25.00	1.0036	2	31719	C19H38O2	methyl stearate	112-61-8	40.00	0.8498	1
31585	C19H26O3	4-hydroxy-4-androstene-3,17-dione	566-48-3	25.00	1.0392	2	31722	C19H38O3	hexadecyl 2-hydroxypropanoate	35274-05-6	25.00	0.9114	2
31588	C19H27ClO2	4-chloro-17-hydroxyandrost-4-en-3-one, (17be*	1093-58-9	25.00	1.0514	2	31723	C19H38O3	methyl 12-hydroxystearate	141-23-1	25.00	0.9114	2
31589	C19H27FN2O3	1-(3-(4-fluorobenzoyl)propyl)-4-piperidyl-N-*	20977-50-8	25.00	1.1164	2	31726	C19H38S	thiacycloeicosane	66359-61-3	25.00	0.8685	2
31591	C19H27NO3	tetrabenazine	58-46-8	25.00	1.0589	2	31727	C19H39Br	1-bromononadecane	4434-66-6	25.00	0.9854	2
31592	C19H27NO4	oxymethebanol	3176-03-2	25.00	1.0919	2	31728	C19H39Cl	1-chlorononadecane	62016-76-6	25.00	0.8658	2
31593	C19H27NO6	1,2:5,6-di-O-cyclohexylidene-3-cyano-a-D-all*	62293-19-0	25.00	1.1542	2	31729	C19H39F	1-fluorononadecane	1480-63-3	25.00	0.8362	2
31594	C19H27NO7	4-acrylamidobenzo-18-crown-6	68865-32-7	25.00	1.1837	2	31730	C19H39I	1-iodononadecane	62127-51-9	25.00	1.0917	2
31596	C19H27NO7	petasitenine	60102-37-6	25.00	1.1837	2	31732	C19H39NO2	1-nitrononadecane	66359-36-2	25.00	0.9004	2
31598	C19H28BrNO3	glycopyrrolate	596-51-0	25.00	1.2290	2	31735	C19H40	nonadecane	629-92-5	31.89	0.9103	2
31599	C19H28ClNO5	ethyl morphine hydrochloride dihydrate	6746-59-4	25.00	1.1599	2	31738	C19H40	2,2-dimethylheptadecane	53594-82-4	23.57	0.7853	2
31600	C19H28NO6	2,12-dihydroxy-4-methyl-11,16-dioxoseneciona*	2318-18-5	25.00	1.1411	2	31742	C19H40O	1-nonadecanol	1454-84-8	61.70	0.9532	2
31602	C19H28N2O	2-methyl-2-nonyl-4-phenyl-2H-imidazole-1-oxi*	---	25.00	1.0106	2	31743	C19H40O	2-nonadecanol	26533-36-8	25.00	0.8299	2
31605	C19H28O2	17-hydroxyandrost-4-en-3-one, (17beta)	58-22-0	25.00	0.9797	2	31744	C19H40O2	1,2-nonadecanediol	39516-65-9	25.00	0.8624	2
31606	C19H28O2	(+)-dehydroisoandrosterone	53-43-0	25.00	0.9797	2	31745	C19H40O2	1,3-nonadecanediol	66359-38-4	25.00	0.8624	2
31607	C19H28O2	metalutin	514-61-4	25.00	0.9797	2	31746	C19H40O2	1,4-nonadecanediol	---	25.00	0.8624	2
31608	C19H28O2	17a-methyl-B-nortestosterone	3570-10-3	25.00	0.9797	2	31747	C19H40O2	1,19-nonanecanediol	---	25.00	0.8624	2
31611	C19H28O8	artesunic acid	88495-63-0	25.00	1.1717	2	31748	C19H40O3	3-(hexadecyloxy)-1,2-propanediol	53584-29-5	25.00	0.8939	2
31612	C19H29BrO3	BOMT	24543-59-7	25.00	1.1880	2	31749	C19H40O3	3-(hexadecyloxy)-1,2-propanediol, (S)	506-03-6	25.00	0.8939	2
31615	C19H29NO6S	(2R)-2-boc-amino-3-phenylsulfonyl-1-(2-tetra*	116611-45-1	25.00	1.1710	2	31750	C19H40S	1-nonadecanethiol	62155-07-1	25.00	0.8520	2
31616	C19H29NO6S	(2S)-2-boc-amino-3-phenylsulfonyl-1-(2-tetra*	116696-85-6	25.00	1.1710	2	31751	C19H40S	2-nonadecanethiol	---	25.00	0.8520	2
31621	C19H30	1-nonyl-[1,2,3,4-tetrahydronaphthalene]	33425-49-9	25.00	0.8845	2	31752	C19H40S	methyl octadecyl sulfide	40289-98-3	25.00	0.8520	2
31622	C19H30	2-nonyl-[1,2,3,4-tetrahydronaphthalene]	26437-45-6	25.00	0.8845	2	31753	C19H40S	ethyl heptadecyl sulfide	66359-40-8	25.00	0.8520	2
31626	C19H30N2O3	feldene	4551-59-1	25.00	1.0533	2	31754	C19H40S	propyl hexadecyl sulfide	66359-41-9	25.00	0.8520	2
31628	C19H30OS	2a,3a-epithio-5a-androstan-17b-ol	2363-58-8	25.00	0.9781	2	31755	C19H40S	butyl pentadecyl sulfide	66359-42-0	25.00	0.8520	2
31630	C19H30O2	17-hydroxyandrostan-3-one, (5alpha,17beta)	521-18-6	25.00	0.9573	2	31756	C19H41N	nonadecylamine	14130-05-3	25.00	0.8195	2
31631	C19H30O2	3-hydroxyandrostan-17-one, (3alpha,5alpha)	53-41-8	25.00	0.9573	2	31757	C19H41N	methyloctadecylamine	2439-55-6	25.00	0.8195	2
31632	C19H30O2	3-hydroxyandrostan-17-one, (3beta,5alpha)	481-29-8	25.00	0.9573	2	31758	C19H41N	ethylheptadecylamine	66359-43-1	25.00	0.8195	2
31633	C19H30O2	4-dodecyloxybenzaldehyde	24083-19-0	25.00	0.9573	2	31761	C19H42BrN	cetyltrimethylammonium bromide	57-09-0	25.00	0.9841	2
31634	C19H30O2	17b-hydroxy-5b-androstan-3-one	571-22-2	25.00	0.9573	2	31762	C19H42ClN	hexadecyltrimethylammonium chloride	112-02-7	25.00	0.8703	2
31635	C19H30O3	4-dodecyloxybenzoic acid	2312-15-4	25.00	0.9916	2	31770	C20H8Cl12	naphthalene-bis(hexachlorocyclopentadiene)ad*	5696-92-4	25.00	1.6564	2
31636	C19H30O3	anavar	53-39-4	25.00	0.9916	2	31772	C20H8I4O5	erythrosin B, spirit soluble	15905-32-5	25.00	2.4391	2
31638	C19H30O5	lauryl gallate	1166-52-5	25.00	1.0568	2	31775	C20H10Br2O5	4',5'-dibromofluorescein	596-03-2	25.00	1.7679	2
31639	C19H30O6	1,2:5,6-di-O-cyclohexylidene-3-O-methyl-a-D-*	13440-19-2	25.00	1.0877	2	31776	C20H10Br4O4	3',3'',5',5''-tetrabromophenolphthalein	76-62-0	25.00	2.0363	2
31645	C19H31NO4	4-n-decyloxy-3,5-dimethoxybenzoic acid amide	14817-09-5	25.00	1.0435	2	31780	C20H10I4O4	3',3'',5',5''-tetraiodophenolphthalein	386-17-4	22.00	2.0201	1
31646	C19H32	tridecylbenzene	123-02-4	10.00	1.0080	2	31783	C20H10O2	peri-xanthenoxanthene	191-28-6	25.00	1.2792	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
31784	C20H10O2	benzo(a)pyrene-1,6-dione	3067-13-8	25.00	1.2792	2	31969	C20H15NO2	N-fluoren-2-yl benzohydroxamic acid	3671-71-4	25.00	1.2177	2
31785	C20H10O2	benzo(a)pyrene-3,6-dione	3067-14-9	25.00	1.2792	2	31971	C20H15NO5	sanguinarine	2447-54-3	25.00	1.3217	2
31786	C20H10O2	benzo(a)pyrene-6,12-dione	3067-12-7	25.00	1.2792	2	31973	C20H15N3	1,3,4-triphenyl-4,5-dihydro-1H-1,2,4-triazol*	166773-08-6	25.00	1.2151	2
31787	C20H11Br	6-bromobenzo(a)pyrene	21248-00-0	25.00	1.4166	2	31976	C20H16	triphenylethylene	58-72-0	69.00	1.2176	2
31788	C20H11Cl	6-chlorobenzeno(a)pyrene	21248-01-1	25.00	1.2406	2	31977	C20H16	7,12-dimethylbenz[a]anthracene	57-97-6	25.00	1.0840	2
31794	C20H11NO2	N-(1-pyrenyl)maleimide	42189-56-0	25.00	1.2958	2	31978	C20H16	5,6-dimethylchrysene	3697-27-6	25.00	1.0840	2
31795	C20H11NO2	1-nitrobenzo(a)pyrene	70021-99-7	25.00	1.2958	2	31979	C20H16	1,12-dimethylbenz[a]anthracene	313-74-6	25.00	1.0840	2
31796	C20H11NO2	3-nitrobenz(a)pyrene	70021-98-6	25.00	1.2958	2	31983	C20H16	4,5-dimethylbenz(a)anthracene	18429-70-4	25.00	1.0840	2
31797	C20H11NO2	6-nitrobenz(a)pyrene	63041-90-7	25.00	1.2958	2	31984	C20H16	6,7-dimethylbenz(a)anthracene	20627-28-5	25.00	1.0840	2
31800	C20H12	perylene	198-55-0	25.00	1.3500	1	31985	C20H16	6,8-dimethylbenz(a)anthracene	317-64-6	25.00	1.0840	2
31801	C20H12	benzo[j]fluoranthene	205-82-3	25.00	1.1549	2	31986	C20H16	6,12-dimethylbenz(a)anthracene	568-81-0	25.00	1.0840	2
31802	C20H12	benzo[k]fluoranthene	207-08-9	25.00	1.1549	2	31987	C20H16	7,11-dimethylbenz(a)anthracene	35187-28-1	25.00	1.0840	2
31803	C20H12	benzo[b]fluoranthene	205-99-2	25.00	1.1549	2	31988	C20H16	5,6-dimethyl-1,2-benzanthracene	58430-00-5	25.00	1.0840	2
31804	C20H12	benzo[a]pyrene	50-32-8	25.00	1.1549	2	31989	C20H16	5,9-dimethyl-1,2-benzanthracene	20627-31-0	25.00	1.0840	2
31805	C20H12	benzo[e]pyrene	192-97-2	25.00	1.1549	2	31990	C20H16	5,10-dimethyl-1,2-benzanthracene	604-81-9	25.00	1.0840	2
31806	C20H12	azuleno(5,6,7-cd)phenalene	6580-41-2	25.00	1.1549	2	31991	C20H16	6,7-dimethyl-1,2-benzanthracene	58429-99-5	25.00	1.0840	2
31807	C20H12	benz(1)aceanthrylene	211-91-6	25.00	1.1549	2	31992	C20H16	1,2-dimethylchrysene	15914-23-5	25.00	1.0840	2
31811	C20H12Br2O2	6,6'-dibromo-1,1'-bi-2-naphthol	13185-00-7	25.00	1.6486	2	31993	C20H16	1,11-dimethylchrysene	52171-92-3	25.00	1.0840	2
31812	C20H12Br2O2	(R)-(-)-6,6'-dibromo-1,1'-bi-2-naphthol	65283-60-5	25.00	1.6486	2	31994	C20H16	4,5-dimethylchrysene	63019-23-8	25.00	1.0840	2
31813	C20H12Br2O2	(S)-(+)-6,6'-dibromo-1,1'-bi-2-naphthol	80655-81-8	25.00	1.6486	2	31995	C20H16	5,11-dimethylchrysene	14207-78-4	25.00	1.0840	2
31815	C20H12N2	dibenzo(a,c)phenazine	215-64-5	25.00	1.2351	2	31996	C20H16	5-ethyl-1,2-benzanthracene	56961-62-7	25.00	1.0840	2
31816	C20H12N2	dibenzo(a,h)phenazine	226-47-1	25.00	1.2351	2	31997	C20H16	10-ethyl-1,2-benzanthracene	3697-30-1	25.00	1.0840	2
31826	C20H12O	benzo(a)pyren-2-ol	56892-30-9	25.00	1.1974	2	31998	C20H16	12-ethylbenz(a)anthracene	18868-66-1	25.00	1.0840	2
31827	C20H12O	benzo(a)pyren-3-ol	13345-21-6	25.00	1.1974	2	32007	C20H16N2	(S)-(-)-2,2'-diamino-1,1-binaphthalene	18531-95-8	25.00	1.1607	2
31828	C20H12O	benzo(a)pyren-5-ol	24027-84-7	25.00	1.1974	2	32008	C20H16N2	(R)-(+)-2,2'-diamino-1,1-binaphthalene	18741-85-0	25.00	1.1607	2
31829	C20H12O	benzo(a)pyren-6-ol	33953-73-0	25.00	1.1974	2	32009	C20H16N2	(1,1'-binaphthalene)-2,2'-diamine	4488-22-6	25.00	1.1607	2
31830	C20H12O	benzo(a)pyren-7-ol	37994-82-4	25.00	1.1974	2	32011	C20H16N2O4	(+)-camptothecin	7689-03-4	25.00	1.3025	2
31831	C20H12O	benzo(a)pyren-9-ol	17573-21-6	25.00	1.1974	2	32013	C20H16N4	nitron	2218-94-2	25.00	1.2323	2
31832	C20H12O	benzo(a)pyren-10-ol	56892-31-0	25.00	1.1974	2	32025	C20H16O2	naphthol	1321-67-1	25.00	1.2170	1
31833	C20H12O	benzo(a)pyren-11-ol	56892-32-1	25.00	1.1974	2	32026	C20H16O2	1-pyrenebutyric acid	3443-45-6	25.00	1.1640	2
31842	C20H12O5	fluorescein	2321-07-5	25.00	1.3479	2	32027	C20H16O2	triphenylacetic acid	595-91-5	25.00	1.1640	2
31843	C20H12O5	gallein	2103-64-2	25.00	1.3479	2	32032	C20H16O4	phenolphthalin	81-90-3	25.00	1.2371	2
31845	C20H13Cl	9-[(2-chlorophenyl)methylene]-9H-fluorene	1643-49-8	25.00	1.2024	2	32035	C20H16O6	1,8,9-anthracenetriol triacetate	16203-97-7	25.00	1.3041	2
31847	C20H13N	13H-dibenzo[a,i]carbazole	239-64-5	25.00	1.1765	2	32038	C20H17ClO	p-anisylchlorodiphenylmethane	14470-28-1	25.00	1.1706	2
31851	C20H13N	7H-dibenzo(c,g)carbazole	194-59-2	25.00	1.1765	2	32039	C20H17FO3S	sulindac	38194-50-2	25.00	1.2581	2
31853	C20H13NO2	phenyl acridine-9-carboxylate	109392-90-7	25.00	1.2553	2	32051	C20H17NO4	(S)-N-fmoc-propargylglycine	---	25.00	1.2527	2
31855	C20H13NO5	fluoresceinamine isomer I	3326-34-9	25.00	1.3605	2	32052	C20H17NO4	(R)-N-fmoc-properylglycine	---	25.00	1.2527	2
31856	C20H13NO5	fluoresceinamine isomer Ii	51649-83-3	25.00	1.3605	2	32053	C20H17NO6	(+)-bicuculline	485-49-4	25.00	1.3170	2
31859	C20H14	1,1'-binaphthalene	604-53-5	20.00	1.3000	1	32058	C20H18	1,4-dibenzylbenzene	793-23-7	25.00	1.0524	2
31860	C20H14	2,2'-binaphthalene	612-78-2	25.00	1.1180	2	32059	C20H18	diphenyl-m-tolylmethane	603-26-9	16.00	1.0700	1
31861	C20H14	1,2-dihydrobenz[j]aceanthrylene	479-23-2	25.00	1.1180	2	32060	C20H18	1,1,1-triphenylethane	5271-39-6	25.00	1.0524	2
31863	C20H14	9-phenylanthracene	602-55-1	25.00	1.1180	2	32061	C20H18	1,1',1"-(1-ethanyl-2-ylidene)trisbenzene	1520-42-9	54.60	1.3099	2
31866	C20H14	benz(1)aceanthrene	7093-10-9	25.00	1.1180	2	32066	C20H18BrNO4	(S)-N-fmoc-(2-bromoallyl)glycine	220497-60-9	25.00	1.4253	2
31867	C20H14	7,8-dihydrobenzo(a)pyrene	17573-23-8	25.00	1.1180	2	32067	C20H18BrNO4	(R)-N-fmoc-(2-bromoallyl)glycine	220497-92-7	25.00	1.4253	2
31874	C20H14I6N2O6	iodipamide	606-17-7	25.00	2.5848	2	32071	C20H18N2O2	nile red	7385-67-3	25.00	1.2004	2
31876	C20H14N2	2,2'-azonaphthalene	582-08-1	25.00	1.1965	2	32072	C20H18N2O2S	coumarin 6	38215-36-0	25.00	1.2480	2
31877	C20H14N2	di-1-naphthyldiazene	487-10-5	25.00	1.1965	2	32073	C20H18N4O2	3,3'-dimethyl-1,1'-diphenyl[4,4'-bi-2-pyrazo*	7477-67-0	25.00	1.2655	2
31878	C20H14N2	2,3-diphenylquinoxaline	1684-14-6	25.00	1.1965	2	32078	C20H18O	2,6-dibenzylidenecyclohexanone	897-78-9	25.00	1.0926	2
31879	C20H14N2O	2-phenyl-5-(4-phenylphenyl)-1,3,4-oxadiazole	852-38-0	25.00	1.2349	2	32079	C20H18O	alpha,alpha-diphenylbenzeneethanol	4428-13-1	25.00	1.0926	2
31881	C20H14N2O2	N-(1-anilinonaphthyl-4)-maleimide	50539-45-2	25.00	1.2716	2	32086	C20H18O3	phenolphthalol	81-92-5	25.00	1.1677	2
31883	C20H14N4	21H,23H-porphine	101-60-0	25.00	1.3360	1	32091	C20H18O8	(-)-di-p-toluoyl-L-tartaric acid	32634-66-5	25.00	1.3303	2
31884	C20H14N4	3-(2-pyridyl)-5,6-diphenyl-1,2,4-triazine	1046-56-6	25.00	1.2695	2	32092	C20H18O8	(+)-di-1,4-toluoyl-D-tartaric acid	32634-68-7	25.00	1.3303	2
31885	C20H14O	bis(1-naphthyl) ether	607-52-3	25.00	1.1597	2	32095	C20H19ClN4	fenbuconazole	114369-43-6	25.00	1.2345	2
31886	C20H14O	di-2-naphthyl ether	613-80-9	25.00	1.1597	2	32098	C20H19N	N-phenyl-N-benzylbenzenemethanamine	91-73-6	80.00	1.0444	1
31887	C20H14O	1-(2-naphthyloxy)naphthalene	611-49-4	25.00	1.1597	2	32101	C20H19NO3	acronycine	7008-42-6	25.00	1.1854	2
31888	C20H14O	9,10-dihydrobenzo[a]pyren-7(8H)-one	3331-46-2	25.00	1.1597	2	32102	C20H19NO4	(S)-N-fmoc-allylglycine	146549-21-5	25.00	1.2192	2
31889	C20H14O	1,3-diphenylisobenzofuran	5471-63-6	25.00	1.1597	2	32103	C20H19NO4	(R)-N-fmoc-allylglycine	170642-28-1	25.00	1.2192	2
31898	C20H14O2	[1,1'-binaphthalene]-4,4'-diol	1446-34-0	25.00	1.1995	2	32104	C20H19NO4	fmoc-L-proline	71989-31-6	25.00	1.2192	2
31899	C20H14O2	3,3-diphenyl-1(3H)-isobenzofuranone	596-29-2	25.00	1.1995	2	32105	C20H19NO5	berberine	2086-83-1	25.00	1.2516	2
31900	C20H14O2	1,2-dibenzoylbenzene	1159-86-0	25.00	1.1995	2	32106	C20H19NO5	chelidonine	476-32-4	25.00	1.2516	2
31901	C20H14O2	(R)-(+)-1,1'-bi-2-naphthol	18531-94-7	25.00	1.1995	2	32107	C20H19NO5	papaveraldine	522-57-6	25.00	1.2516	2
31902	C20H14O2	(S)-(-)-1,1'-bi-2-naphthol	18531-99-2	25.00	1.1995	2	32108	C20H19NO5	protopine	130-86-9	25.00	1.2516	2
31903	C20H14O2	1,1'-bi-2-naphthol	602-09-5	25.00	1.1995	2	32118	C20H20ClN3	magenta	632-99-5	25.00	1.1877	2
31918	C20H14O3	(+)-BP-7b,8a-diol-9a,10a-epoxide 2	63323-31-9	25.00	1.2374	2	32126	C20H20I2N2O5	N-acetyl-L-phenylalanyl-3,5-diiodo-L-tyrosine	3786-08-1	25.00	1.7870	2
31923	C20H14O3	(-)-cis-7,b,8,a-dihydroxy-9,b,10,b-epoxy-7,8*	63357-09-5	25.00	1.2374	2	32129	C20H20N2O3	cyclopiazonic acid	18172-33-3	25.00	1.2020	2
31930	C20H14O4	diphenyl phthalate	84-62-8	25.00	1.2736	2	32131	C20H20N2O5	Na-fmoc-L-glutamine	71989-20-3	25.00	1.2655	2
31931	C20H14O4	phenolphthalein	77-09-8	32.00	1.2770	1	32132	C20H20O	1,2,3,6,7,8,11,12-octahydrobenzo[e]pyren-9(1*	68151-08-6	25.00	1.0624	2
31932	C20H14O4	1,3-bis(benzoyloxy)benzene	94-01-9	25.00	1.2736	2	32134	C20H20O3	2-trans-benzoyl-5-trans-phenyl-1-cyclohexane*	---	25.00	1.1364	2
31933	C20H14O4	diphenyl isophthalate	744-45-6	25.00	1.2736	2	32135	C20H20O4	3-(4-carboxyphenyl)-2,3-dihydro-1,1,3-trimet*	3569-18-4	25.00	1.1711	2
31934	C20H14O5	2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoic acid	518-44-5	25.00	1.3082	2	32137	C20H20O6	cubebin	18423-69-3	25.00	1.2365	2
31939	C20H14O8	lycopersin	33390-21-5	25.00	1.4035	2	32143	C20H21NOS	N-methyl-N-(m-tolyl)carbamothioic acid (1,2,*	50838-36-3	25.00	1.1371	2
31941	C20H14S	di-1-naphthyl sulfide	607-53-4	25.00	1.1784	2	32145	C20H21NO3	dimefline	1165-48-6	25.00	1.1545	2
31942	C20H14S	di-2-naphthyl sulfide	613-81-0	25.00	1.1784	2	32146	C20H21NO3	galipine	525-68-8	25.00	1.1545	2
31943	C20H14S	1,3-diphenylbenzo[c]thiophene	16587-39-6	25.00	1.1784	2	32148	C20H21NO4	papaverine	58-74-2	20.00	1.3370	1
31944	C20H14S2	di-1-naphthyl disulfide	39178-11-5	20.00	1.1440	1	32149	C20H21NO4	fmoc-L-valine	68858-20-8	25.00	1.1878	2
31945	C20H14S2	di-2-naphthyl disulfide	5586-15-2	145.00	1.1440	1	32150	C20H21NO4	tetrahydroberberine	5096-57-1	25.00	1.1878	2
31948	C20H15Br	bromotriphenylethylene	1607-57-4	25.00	1.3312	2	32151	C20H21NO4S	fmoc-L-methionine	71989-28-1	25.00	1.2329	2
31962	C20H15N	N-1-naphthyl-1-naphthalenamine	737-89-3	25.00	1.1402	2	32152	C20H21NO5	isoamyl 5,6-dihydro-7,8-dimethyl-4,5-dioxo-4*	73080-51-0	25.00	1.2198	2
31963	C20H15N	N-2-naphthyl-2-naphthalenamine	532-18-3	25.00	1.1402	2	32154	C20H21N3O3	moquizone	19395-58-5	25.00	1.2176	2
31968	C20H15NO2	N-fluoren-1-yl benzohydroxamic acid	29968-64-7	25.00	1.2177	2	32158	C20H22Br2O6	4,4'(5')-dibromodibenzo-18-crown-6	87016-67-9	25.00	1.5381	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
32167	C20H22N2O2	gelsemine	509-15-9	25.00	1.1382	2	32332	C20H29N3O2	dibucaine	85-79-0	25.00	1.0765	2
32168	C20H22N2O2	quininone	84-31-1	25.00	1.1382	2	32333	C20H29N5O3	urapidil	34661-75-1	25.00	1.1631	2
32169	C20H22N2S	mequitazine	29216-28-2	25.00	1.1213	2	32334	C20H30ClN3O2	dibucaine hydrochloride	61-12-1	25.00	1.1150	2
32171	C20H22N4O6S	N-(2-(2,3-bis-(methoxycarbonyl)-guanidino)-5*	58306-30-2	25.00	1.3539	2	32339	C20H30N2O2	androfurazanol	1239-29-8	25.00	1.0350	2
32172	C20H22N8O5	D(-)-amethopterin	51865-79-3	25.00	1.3958	2	32341	C20H30N2O4	calpeptin	117591-20-5	25.00	1.0966	2
32177	C20H22O2	norgestrienone	848-21-5	25.00	1.0714	2	32345	C20H30O	retinol	68-26-8	25.00	0.9386	2
32178	C20H22O3	ethyl 2,2-dibenzyl-3-oxobutanoate	42597-26-2	25.00	1.1071	2	32346	C20H30O2	abietic acid	514-10-3	173.50	1.0900	2
32185	C20H22O8	populin	99-17-2	25.00	1.2656	2	32347	C20H30O2	17-hydroxy-17-methylandrost-4-en-3-one, (17b*	58-18-4	25.00	0.9731	2
32187	C20H23ClN2O4	chlorpheniramine maleate	113-92-8	25.00	1.2362	2	32348	C20H30O2	levopimaric acid	79-54-9	25.00	0.9731	2
32188	C20H23ClO2	21-chloro-17-hydroxy-19-nor-17a-pregna-4,9-d*	3124-93-4	25.00	1.1160	2	32349	C20H30O2	palustric acid	1945-53-5	168.50	1.0358	2
32191	C20H23N	ludiomil	10262-69-8	25.00	1.0188	2	32350	C20H30O2	pimaric acid	127-27-5	218.50	0.8292	2
32192	C20H23NO	amitriptyline-N-oxide	4317-14-0	25.00	1.0558	2	32354	C20H30O2	16-ethyl-17-hydroxyester-4-en-3-one	33765-68-3	25.00	0.9731	2
32193	C20H23NO2	amolanone	76-65-3	25.00	1.0913	2	32355	C20H30O2	17-ethyl-19-nortestosterone	52-78-8	25.00	0.9731	2
32195	C20H23NO3	benalaxyl	71626-11-4	25.00	1.2700	1	32356	C20H30O2	17b-hydroxy-7a-methylandrost-5-ene-3-one	50880-57-4	25.00	0.9731	2
32197	C20H23NO4	corydine	476-69-7	25.00	1.1583	2	32358	C20H30O2	neoabietic acid	471-77-2	173.25	1.0798	2
32198	C20H23NO4	isocorydine	475-67-2	25.00	1.1583	2	32358.1	C20H30O2	isopimaric acid	5835-26-7	162.50	1.0946	2
32199	C20H23NO4	coumarin 338	62669-75-4	25.00	1.1583	2	32359	C20H30O4	dihexyl phthalate	84-75-3	-40.00	1.2241	2
32203	C20H23NO4	1,2,10-trimethoxy-6a-a-aporphin-9-ol	2169-44-0	25.00	1.1583	2	32367	C20H31N	dehydroabietylamine	1446-61-3	25.00	1.0010	1
32207	C20H23NO8	4-nitrodibenzo-18-crown-6	118060-27-8	25.00	1.2780	2	32376	C20H32	1-decyl-[1,2,3,4-tetrahydronaphthalene]	55255-57-7	25.00	0.8830	2
32213	C20H23N7O7	folinic acid	58-05-9	25.00	1.4046	2	32377	C20H32	2-decyl-[1,2,3,4-tetrahydronaphthalene]	66455-67-2	25.00	0.8830	2
32220	C20H24ClN3S	prochlorperazine	58-38-8	25.00	1.1758	2	32378	C20H32	cembrene	1898-13-1	25.00	0.8830	2
32221	C20H24N2O2	epiquinidine	572-59-8	25.00	1.1100	2	32379	C20H32ClNO	trihexyphenidyl hydrochloride	52-49-3	25.00	1.0068	2
32222	C20H24N2O2	quinidine	56-54-2	25.00	1.1100	2	32381	C20H32N6O12S2	L(-)-glutathione, oxidized	27025-41-8	25.00	1.4162	2
32223	C20H24N2O2	quinine	130-95-0	25.00	1.1100	2	32383	C20H32O	tetradecanophenone	4497-05-6	25.00	0.9181	2
32224	C20H24N2O2	viquidil	84-55-9	25.00	1.1100	2	32384	C20H32O	ethylestrenol	965-90-2	25.00	0.9181	2
32225	C20H24N2O2S	lucanthone metabolite	3105-97-3	25.00	1.1581	2	32386	C20H32O2	androstane-17-carboxylic acid, (5beta,17beta)	438-08-4	20.00	0.9151	2
32226	C20H24N2O4	pheniramine maleate	132-20-7	25.00	1.1744	2	32389	C20H32O2	17-hydroxy-17-methylandrostan-3-one, (5alpha*	521-11-9	20.00	0.9151	2
32229	C20H24N2OS	1-(2'-diethylamino)ethylamino-4-methylthioxa*	479-50-5	25.00	1.1266	2	32390	C20H32O2	4'-dodecyloxyacetophenone	2175-80-6	20.00	0.9151	2
32234	C20H24O4	8,8'-diapo-psi,psi-carotenedioic acid	27876-94-4	25.00	1.1132	2	32391	C20H32O2	androstestone-M	521-10-8	20.00	0.9151	2
32236	C20H24O6	dibenzo-18-crown-6	14187-32-7	25.00	1.1769	2	32391.1	C20H32O2	isoagatholal	17990-11-3	51.85	1.0931	2
32237	C20H24O6	[2,4]-dibenzo-18-crown-6	14262-61-4	25.00	1.1769	2	32392	C20H32O4	prostaglandin A1	14152-28-4	25.00	1.0164	2
32238	C20H24O6	triptolide	38748-32-2	25.00	1.1769	2	32393	C20H32O5	prostaglandin E2	363-24-6	25.00	1.0469	2
32240	C20H25ClN2O2	6'methoxycinchonan-9-ol monohydrochloride, (*	130-89-2	25.00	1.1494	2	32394	C20H32O5	prostaglandin D2	41598-07-6	25.00	1.0469	2
32241	C20H25N	1-(3,3-diphenylpropyl)piperidine	3540-95-2	25.00	0.9933	2	32397	C20H33NO	myristanilide	622-56-0	25.00	0.9397	2
32243	C20H25NO	2-(diphenylmethyl)-1-piperidineethanol	13862-07-2	25.00	1.0297	2	32399	C20H34	1-phenyltetradecane	1459-10-5	16.00	1.0046	2
32244	C20H25NO2	4-(3-(p-phenoxymethylphenyl)propyl)morpholine	17692-39-6	25.00	1.0646	2	32407.1	C20H34O2	agathadiol	1857-24-5	106.40	1.0941	2
32246	C20H25NO2	STS 557	65928-58-7	25.00	1.0646	2	32409	C20H34O4	di(tert-butylperoxyisopropyl)benzene	2212-81-9	25.00	0.9953	2
32247	C20H25NO3	diethylaminoethyl benzilate	302-40-9	25.00	1.0982	2	32412	C20H34O5	prostaglandin E1	745-65-3	25.00	1.0255	2
32248	C20H25NO4	codamine	21040-59-5	25.00	1.1306	2	32414	C20H34O5	prostaglandin F2-a	551-11-1	25.00	1.0255	2
32249	C20H25NO4	laudanidine	301-21-3	25.00	1.1306	2	32417	C20H35NOS	suloctidyl	54767-75-8	25.00	0.9713	2
32250	C20H25NO4	laudanine	85-64-3	20.00	1.2600	1	32429	C20H36O5	prostaglandin F1-a	745-62-0	25.00	1.0051	2
32256	C20H25N3O2	partergin	113-42-8	25.00	1.1276	2	32430	C20H36O6	dicyclohexano-18-crown-6	16069-36-6	25.00	1.0338	2
32258	C20H25N3S	pernazine	84-97-9	25.00	1.1118	2	32433	C20H37N3O13	antihelmycin	31282-04-9	25.00	1.2654	2
32260	C20H26	2,5-dimethyl-2,5-diphenylhexane	17648-05-4	25.00	0.9463	2	32434	C20H37N3O13	destomycin A	14918-35-5	25.00	1.2654	2
32261	C20H26	4,4'-di-tert-butyl-biphenyl	1625-91-8	25.00	0.9463	2	32435	C20H37NaO7S	dioctyl sulfosuccinate sodium salt	577-11-7	25.00	1.1000	1
32262	C20H26	3,4-dimethyl-3,4-diphenylhexane	10192-93-5	25.00	0.9463	2	32436	C20H38	1-eicosyne	765-27-5	20.00	0.8073	1
32263	C20H26BrClN2O7	5-bromo-4-chloro-3-indolyl-b-d-glucuronide m*	114162-64-0	25.00	1.4241	2	32437	C20H38	2-eicosyne	61847-99-2	22.50	0.8189	2
32266	C20H26ClNO2	adiphenine hydrochloride	50-42-0	25.00	1.1071	2	32438	C20H38	3-eicosyne	61886-66-6	22.50	0.8189	2
32270	C20H26N2O	12-methoxyibogamine	83-74-9	25.00	1.0500	2	32439	C20H38	1,1-dicyclohexyloctane	62016-87-9	22.50	0.8189	2
32271	C20H26N2O2	ajmalan-17,21-diol, (17R,21alpha)-	4360-12-7	25.00	1.0835	2	32441	C20H38N4O4	dimorpholamine	119-48-2	25.00	1.0625	2
32272	C20H26N2O2	hydroquinidine	1435-55-8	25.00	1.0835	2	32450.1	C20H38O2	cetyl methacrylate	2495-27-4	15.00	1.0247	2
32273	C20H26N2O2	hydroquinine	522-66-7	25.00	1.0835	2	32453	C20H38O3	ethyl 12-oxooctadecanoate	88472-61-1	22.50	0.9023	2
32274	C20H26N4O5S	diabenor	24477-37-0	25.00	1.2698	2	32454	C20H38O4	eicosanedioic acid	2424-92-2	25.00	0.9565	2
32275	C20H26O2	benzestrol	85-95-0	25.00	1.0193	2	32457	C20H39Br	cis-1-bromo-1-eicosene	66455-60-5	25.00	0.9985	2
32276	C20H26O2	methestrol	130-73-4	25.00	1.0193	2	32458	C20H39Br	trans-1-bromo-1-eicosene	66455-61-6	25.00	0.9985	2
32280	C20H26O2	17a-ethinyl-5,10-estrenolone	68-23-5	25.00	1.0193	2	32459	C20H39Br3	1,1,1-tribromoeicosane	62127-76-8	25.00	1.2991	2
32282	C20H26O2	19-norethisterone	68-22-4	25.00	1.0193	2	32460	C20H39Cl	cis-1-chloro-1-eicosene	66455-62-7	25.00	0.8815	2
32283	C20H26O4	dicyclohexyl phthalate	84-61-7	20.00	1.3830	1	32461	C20H39Cl	trans-1-chloro-1-eicosene	66455-41-2	25.00	0.8815	2
32287	C20H26O8S2	triethylene glycol di-p-tosylate	19249-03-7	25.00	1.2823	2	32462	C20H39Cl3	1,1,1-trichloroeicosane	62108-64-9	25.00	0.9851	2
32291	C20H27NO2	(-)-17-cyclopropylmethylmorphinan-3,4-diol	42281-59-4	25.00	1.0395	2	32463	C20H39F	cis-1-fluoro-1-eicosene	66455-42-3	25.00	0.8529	2
32292	C20H27NO3	4a-5-epoxy-17b-hydroxy-3-oxo-5a-androstane-2*	13647-35-3	25.00	1.0725	2	32464	C20H39F	trans-1-fluoro-1-eicosene	66455-43-4	25.00	0.8529	2
32294	C20H27NO11	amygdalin	29883-15-6	25.00	1.2992	2	32465	C20H39F3	1,1,1-trifluoroeicosane	62126-86-7	25.00	0.9100	2
32296	C20H27N3O3	calpurnine	6874-80-2	25.00	1.1324	2	32466	C20H39I	cis-1-iodo-1-eicosene	66455-45-6	25.00	1.1024	2
32297	C20H27N5O2	cilostazol	73963-72-1	25.00	1.1599	2	32467	C20H39I	trans-1-iodo-1-eicosene	66455-44-5	25.00	1.1024	2
32298	C20H27N5O5S	N-[2-[4-(azepan-1-ylcarbamoylsulfamoyl)pheny*	25046-79-1	25.00	1.2809	2	32468	C20H39I3	1,1,1-triiodoeicosane	---	25.00	1.5507	2
32302	C20H28	1-decylnaphthalene	26438-27-7	15.00	1.0952	2	32469	C20H39N	eicosanenitrile	4616-73-3	25.00	0.8523	2
32307	C20H28N3O3S	3-[5-(dimethylamino)-1-naphthalenesulfonamid*	76841-99-1	25.00	1.1632	2	32476	C20H40	1-eicosene	3452-07-1	28.61	0.9230	2
32308	C20H28I3N3O13	ioglucomide	63941-74-2	25.00	1.9464	2	32476.1	C20H40	trans-2-eicosene	42448-85-1	11.85	1.1287	1
32309	C20H28N4O	9,10a-dihydrolisuride	37686-84-3	25.00	1.0872	2	32479	C20H40Br2	1,1-dibromoeicosane	62168-37-0	25.00	1.1457	2
32311	C20H28O	13-cis-retinal	472-86-6	25.00	0.9604	2	32480	C20H40Cl2	1,1-dichloroeicosane	62017-22-5	25.00	0.9272	2
32312	C20H28O	19-nor-17a-pregn-4-en-20-yn-17-ol	52-76-6	25.00	0.9604	2	32481	C20H40F2	1,1-difluoroeicosane	62127-09-7	25.00	0.8741	2
32315	C20H28O2	methandrostenolone	72-63-9	25.00	0.9955	2	32482	C20H40I2	1,1-diiodoeicosane	66455-47-8	25.00	1.3301	2
32316	C20H28O2	all-trans-retinoic acid	302-79-4	25.00	0.9955	2	32485	C20H40N4S8Te	ethyl tellurac	20941-65-5	25.00	1.4400	1
32317	C20H28O2	13-cis-retinoic acid	4759-48-2	25.00	0.9955	2	32486	C20H40O	eicosanal	2400-66-0	28.33	0.8386	2
32319	C20H28O2	ethynodiol	1231-93-2	25.00	0.9955	2	32487	C20H40O	2-eicosanone	29703-52-4	28.33	0.8386	2
32320	C20H28O2	neoprogestin	6795-60-4	25.00	0.9955	2	32488	C20H40O	octadecyl vinyl ether	930-02-9	40.00	0.8138	1
32321	C20H28O2	19-norpregn-4-ene-3,20-dione	472-54-8	25.00	0.9955	2	32491	C20H40O2	eicosanoic acid	506-30-9	20.00	1.0225	1
32322	C20H28O2	19-nor-17a-pregn-5(10)-en-20-yne-3a,17-diol	21466-08-0	25.00	0.9955	2	32493	C20H40O2	nonadecyl formate	66455-49-0	42.50	0.8977	2
32323	C20H28O2	19-nor-17a-pregn-5(10)-en-20-yne-3b, 17-diol	2307-97-3	25.00	0.9955	2	32494	C20H40O2	octadecyl acetate	822-23-1	30.00	0.8510	1
32329	C20H29FO3	fluoxymesterone	76-43-7	25.00	1.0455	2	32495	C20H40O2	heptadecyl propanoate	---	42.50	0.8977	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
32496	C20H40O2	hexadecyl butanoate	6221-99-4	42.50	0.8977	2	32705	C21H18O6	hexaphenol	1506-76-9	25.00	1.2783	2
32499	C20H40O2	ethyl stearate	111-61-5	20.00	1.0570	1	32707	C21H19ClO2	3,4-dibenzyloxybenzyl chloride	1699-59-8	25.00	1.1854	2
32500	C20H40O2	methyl nonadecanoate	1731-94-8	42.50	0.8977	2	32708	C21H19ClO2	4,4'-dimethoxytrityl chloride	40615-36-9	25.00	1.1854	2
32501	C20H40O3	ethylene glycol monostearate	111-60-4	60.00	0.8780	1	32710	C21H19NO4	(1S,4R)-N-fmoc-1-aminocyclopent-2-ene-4-carb*	220497-64-3	25.00	1.2297	2
32504	C20H40S	thiacycloheneicosane	42425-07-0	25.00	0.8678	2	32711	C21H19NO4	(1R,4S)-N-fmoc-1-aminocyclopent-2-ene-4-carb*	220497-65-4	25.00	1.2297	2
32505	C20H41Br	1-bromoeicosane	4276-49-7	25.00	0.9795	2	32712	C21H19NO4	cindomet	20168-99-4	25.00	1.2297	2
32506	C20H41Cl	1-chloroeicosane	42217-02-7	25.00	0.8653	2	32731	C21H20	phenyldi(p-tolyl)methane	603-39-4	25.00	1.0400	2
32507	C20H41F	1-fluoroeicosane	676-44-8	25.00	0.8371	2	32732	C21H20BrN3	ethidium bromide	1239-45-8	25.00	1.3389	2
32508	C20H41I	1-iodoeicosane	34994-81-5	25.00	1.0814	2	32738	C21H20Cl2O3	permethrin	52645-53-1	20.00	1.2300	1
32509	C20H41NO	nonadecanoic acid N-methylamide	6212-93-7	25.00	0.8678	2	32748	C21H20N2O	tomoxiprole	76145-76-1	25.00	1.1463	2
32511	C20H41NO2	1-nitroeicosane	66455-50-3	25.00	0.8983	2	32749	C21H20N2O3	serpentine alkaloid	18786-24-8	25.00	1.2129	2
32514	C20H41N5O7	micromycin	52093-21-7	25.00	1.1315	2	32750	C21H20N2O3	N-(2-acetamidophenethyl)-1-hydroxy-2-naphtha*	5254-41-1	25.00	1.2129	2
32515	C20H42	eicosane	112-95-8	32.00	0.9048	1	32753	C21H20O3	3,5-dibenzyloxybenzyl alcohol	24131-31-5	25.00	1.1493	2
32518	C20H42	2,2-dimethyloctadecane	61869-06-5	24.00	0.7893	2	32754	C21H20O5	(-)-corey lactone 4-phenylbenzoate alcohol	31752-99-5	25.00	1.2151	2
32522	C20H42O	1-eicosanol	629-96-9	65.40	0.9494	2	32755	C21H20O6	curcumin	458-37-7	25.00	1.2462	2
32523	C20H42O	2-eicosanol	4340-76-5	20.00	0.8378	1	32756	C21H20O10	sophoricoside	152-95-4	25.00	1.3594	2
32526	C20H42O2	1,2-eicosanediol	39825-93-9	25.00	0.8620	2	32757	C21H20O11	quercitrin	522-12-3	25.00	1.3852	2
32527	C20H42O2	1,3-eicosanediol	---	25.00	0.8620	2	32764	C21H21ClN2O6	methylchlortetracycline	127-33-3	25.00	1.3793	2
32528	C20H42O2	1,4-eicosanediol	---	25.00	0.8620	2	32767	C21H21N	tribenzylamine	620-40-6	95.00	0.9912	1
32529	C20H42O2	1,20-eicosanediol	---	25.00	0.8620	2	32769	C21H21N	periactinol	129-03-3	25.00	1.0618	2
32537	C20H42S	1-eicosanethiol	13373-97-2	25.00	0.8521	2	32770	C21H21NO3S2	1-ethyl-2-methylnaphtho[1,2-d]thiazolium p-t*	42952-29-4	25.00	1.2539	2
32538	C20H42S	2-eicosanethiol	62155-08-2	25.00	0.8521	2	32771	C21H21NO4	(1R,3S)-N-fmoc-1-aminocyclopentane-3-carboxy*	220497-66-5	25.00	1.1988	2
32539	C20H42S	didecyl sulfide	693-83-4	25.00	0.8521	2	32772	C21H21NO4	(1S,3R)-N-fmoc-1-aminocyclopentane-3-carboxy*	220497-67-6	25.00	1.1988	2
32540	C20H42S	methyl nonadecyl sulfide	62155-12-8	25.00	0.8521	2	32774	C21H21NO5	corycavamine	521-85-7	25.00	1.2298	2
32541	C20H42S	ethyl octadecyl sulfide	41947-84-6	25.00	0.8521	2	32775	C21H21NO6	hydrastine	118-08-1	25.00	1.2597	2
32542	C20H42S	propyl heptadecyl sulfide	66455-35-4	25.00	0.8521	2	32776	C21H21NO6	rheadine	2718-25-4	25.00	1.2597	2
32543	C20H42S	butyl hexadecyl sulfide	18437-89-3	25.00	0.8521	2	32780	C21H21N3	hexahydro-1,3,5-triphenyl-1,3,5-triazine	91-78-1	25.00	1.1299	2
32546	C20H43N	eicosylamine	10525-37-8	25.00	0.8039	2	32782	C21H21N3O2	pararosaniline acetate	6035-94-5	25.00	1.1964	2
32547	C20H43N	methylnonadecylamine	66455-36-5	25.00	0.8039	2	32783	C21H21N3O7	cacotheline	561-20-6	25.00	1.3421	2
32548	C20H43N	ethyloctadecylamine	7317-85-3	25.00	0.8039	2	32785	C21H21O3P	tri(p-tolyl) phosphite	620-42-8	25.00	1.1280	1
32549	C20H43N	didecylamine	1120-49-6	25.00	0.8039	2	32786	C21H21O3P	tris(4-methoxyphenyl)phosphine	855-38-9	22.50	1.1352	2
32552	C20H44BrN	cetyldimethylethylammonium bromide	124-03-8	25.00	0.9786	2	32788	C21H21O4P	tri-m-cresyl phosphate	563-04-2	25.00	1.1500	1
32553	C20H44BrN	tetrapentylammonium bromide	866-97-7	25.00	0.9786	2	32789	C21H21O4P	tri-p-cresyl phosphate	78-32-0	25.00	1.2470	1
32561	C21H10Cl12	2-methylnaphthalene-bis(hexachlorocyclopenta*	4605-91-8	25.00	1.6253	2	32797	C21H21Sb	tris(3-methylphenyl)stibine	35569-54-1	16.00	1.3957	1
32567	C21H11F5O3	9-fluorenylmethyl pentafluorophenyl carbonate	88744-04-1	25.00	1.4126	2	32798	C21H21Sb	tris(4-methylphenyl)stibine	5395-43-7	16.00	1.3595	1
32568	C21H11NO5S	5-fluorescein isothiocyanate, isomer I	3326-32-7	25.00	1.4462	2	32801	C21H22ClN3O5	5,9-bis(ethylamino)-10-methylbenzo[a]phenoxa*	62669-60-7	25.00	1.3129	2
32572	C21H12N4	tricycloquinazoline	195-84-6	25.00	1.3191	2	32805	C21H22N2O2	strychnine	57-24-9	20.00	1.3600	1
32573	C21H12O	13H-dibenzo[a,h]fluoren-13-one	4599-94-4	25.00	1.2110	2	32806	C21H22N2O2	(S)-(-)-2,2'-isopropylidenebis(4-phenyl-2-ox*	131457-46-0	25.00	1.0000	1
32575	C21H12O7	4(5)-carboxyfluorescein	72088-94-9	25.00	1.4191	2	32807	C21H22N2O2S	(1R,2R)-(-)-N-(4-toluenesulfonyl)-1,2-diphen*	144222-34-4	25.00	1.1968	2
32578	C21H13N	dibenz[a,j]acridine	224-42-0	25.00	1.1906	2	32809	C21H22N6O5	N-(4-(((2,4-diamino-5-methyl-6-quinazolinyl)*	18921-70-5	25.00	1.3512	2
32579	C21H13N	benzo(h)naphtho(1,2-f,s-3)quinoline	196-79-2	25.00	1.1906	2	32811	C21H22O9	barbaloin	1415-73-2	25.00	1.3015	2
32580	C21H13N	dibenz(a,h)acridine	226-36-8	25.00	1.1906	2	32812	C21H23BrFNO2	bromoperidol	10457-90-6	25.00	1.3109	2
32581	C21H13N	dibenz(c,h)acridine	224-53-3	25.00	1.1906	2	32813	C21H23ClFNO2	haloperidol	52-86-8	25.00	1.1820	2
32582	C21H14	13H-dibenzo[a,g]fluorene	207-83-0	25.00	1.1340	2	32814	C21H23ClFN3O	flurazepam	17617-23-1	25.00	1.2089	2
32585	C21H14	13H-dibenzo(a,i)fluorene	239-60-1	25.00	1.1340	2	32817	C21H23NO2	4-cyanophenyl 4-heptylbenzoate	38690-76-5	25.00	1.1049	2
32592	C21H14	1-methylbenzo(a)pyrene	40568-90-9	25.00	1.1340	2	32818	C21H23NO3	3-quinuclidinol benzilate	6581-06-2	25.00	1.1379	2
32593	C21H14	2-methylbenzo(a)pyrene	16757-82-7	25.00	1.1340	2	32819	C21H23NO4	fmoc-L-isoleucine	71989-23-6	25.00	1.1697	2
32594	C21H14	4-methylbenzo(a)pyrene	16757-83-8	25.00	1.1340	2	32820	C21H23NO4	fmoc-L-leucine	35661-60-0	25.00	1.1697	2
32595	C21H14	4'-methylbenzo(a)pyrene	63041-77-0	25.00	1.1340	2	32821	C21H23NO5	cryptopine	482-74-6	20.00	1.3150	1
32596	C21H14	5-methylbenzo(a)pyrene	31647-36-6	25.00	1.1340	2	32822	C21H23NO5	diacetylmorphine	561-27-3	25.00	1.5600	1
32597	C21H14	10-methylbenzo(a)pyrene	63104-32-5	25.00	1.1340	2	32823	C21H23NO6	colchiceine	477-27-0	25.00	1.2400	1
32598	C21H14	11-methylbenzo(a)pyrene	16757-80-5	25.00	1.1340	2	32824	C21H23N3O5	strychnidin-10-one mononitrate	66-32-0	25.00	1.6270	1
32599	C21H14	12-methylbenzo(a)pyrene	4514-19-6	25.00	1.1340	2	32825	C21H23N3OS	piperocyanomazine	2622-26-6	25.00	1.1815	2
32600	C21H14	5-methyl-3,4-benzpyrene	2381-39-7	25.00	1.1340	2	32826	C21H23N7O4	7-(2-((3-pyridylmethyl)amino)ethyl)theophyll*	10058-07-8	25.00	1.3352	2
32601	C21H14	8-methyl-3,4-benzpyrene	16757-81-6	25.00	1.1340	2	32828	C21H24ClN3OS	1-(3-(3-chlorophenothiazin-10-yl)propyl)-iso*	84-04-8	25.00	1.2142	2
32602	C21H14Br4O5S	bromocresol green	76-60-8	25.00	1.9503	2	32833	C21H24NO6	2-demethylcolchicine	7336-36-9	25.00	1.2156	2
32603	C21H14N2O4	1,1'-(methylenedi-4,1-phenylene)bismaleimide	13676-54-5	25.00	1.3480	2	32838	C21H24N2O3	raubasine	483-04-5	25.00	1.1544	2
32604	C21H14O	1-naphthyl-2-naphthylmethanone	605-79-8	25.00	1.1740	2	32841	C21H24OSi2	1,1,1-trimethyl-3,3,3-triphenyldisiloxane	799-53-1	25.00	1.0320	1
32605	C21H14O	2,3-diphenyl-1-indenone	1801-42-9	25.00	1.1740	2	32842	C21H24O2	ethylnorgestrienone	16320-04-0	25.00	1.0592	2
32607	C21H14O	benzo(a)pyrene-6-methanol	21247-98-3	25.00	1.1740	2	32843	C21H24O3Si3	2,4,6-trimethyl-2,4,6-triphenylcyclotrisilox*	546-45-2	20.00	1.1062	1
32614	C21H14O7	3,3'-carbonylbis(7-methoxycoumarin)	64267-17-0	25.00	1.3798	2	32845	C21H24O4	diphenylol propane dicylcidyl ether	1675-54-3	25.00	1.1600	1
32629	C21H15N3	2,4,6-triphenyl-s-triazine	493-77-6	25.00	1.2270	2	32846	C21H24O7	visnadine	477-32-7	25.00	1.2166	2
32630	C21H15N3O3	2,4,6-triphenoxy-s-triazine	1919-48-8	25.00	1.3286	2	32847	C21H24O9	rhapontin	155-58-8	25.00	1.2721	2
32632	C21H16	1,2-dihydro-3-methylbenz[j]aceanthrylene	56-49-5	20.00	1.2800	1	32849	C21H25FN2O2	haloanisone	1480-19-9	25.00	1.1349	2
32633	C21H16	di-1-naphthylmethane	607-50-1	25.00	1.1003	2	32852	C21H25NO4	corybulbine	518-77-4	25.00	1.1423	2
32634	C21H16	1,3-diphenyl-1H-indene	4467-88-3	25.00	1.1003	2	32853	C21H25NO4	D-glaucine	475-81-0	25.00	1.1423	2
32635	C21H16	2,3-diphenyl-1H-indene	5324-00-5	25.00	1.1003	2	32854	C21H25NO4	isocorybulbine	22672-74-8	20.00	1.0450	1
32639	C21H16	5-methylcholanthrene	63041-78-1	25.00	1.1003	2	32855	C21H25NO5	N-methyl-N-desacetylcolchicine	477-30-5	25.00	1.1725	2
32640	C21H16	22-methylcholanthrene	17012-89-4	25.00	1.1003	2	32856	C21H25NO5	DL-2,3,9,10-tetramethoxyberbin-1-ol	478-15-9	25.00	1.1725	2
32643	C21H16Br2O5S	bromocresol purple	115-40-2	25.00	1.6509	2	32859	C21H25N5O2	N-((antipyrinylisopropylamino)methyl)nicotin*	15387-10-7	25.00	1.1974	2
32644	C21H16N2	2,4,5-triphenyl-1H-imidazole	484-47-9	25.00	1.1743	2	32861	C21H26BrNO3	methantheline bromide	53-46-3	25.00	1.2742	2
32645	C21H16N2O	N,N'-di-1-naphthylurea	607-56-7	25.00	1.2107	2	32862	C21H26ClNO	clemastine fumarate	14976-57-9	25.00	1.0882	2
32654	C21H16O2	1,1-methylene-di-2-naphthol	1096-84-0	25.00	1.1773	2	32864	C21H26ClN3OS	perphenazine	58-39-9	25.00	1.1879	2
32683	C21H18ClNO6	acemetacin	53164-05-9	25.00	1.3499	2	32866	C21H26N2O3	vincamine	1617-90-9	25.00	1.1278	2
32685	C21H18N2	cis-4,5-dihydro-2,4,5-triphenyl-1H-imidazole	573-33-1	25.00	1.1415	2	32867	C21H26N2O3	yohimbine	146-48-5	25.00	1.1278	2
32686	C21H18N2O4S	(S)-N-fmoc-4-thiazoylalanine	205528-32-1	25.00	1.3174	2	32868	C21H26N2O4	quinine formate	130-90-5	25.00	1.1580	2
32687	C21H18N2O4S	(R)-N-fmoc-4-thiazoylalanine	205528-33-2	25.00	1.3174	2	32874	C21H26N2S2	thioridazine	50-52-2	25.00	1.1278	2
32689	C21H18O	1,9-diphenyl-1,3,6,8-nonatetraen-5-one	622-21-9	25.00	1.1077	2	32875	C21H26O2	cannabinol	521-35-7	25.00	1.0341	2
32700	C21H18O3	benzyl 4-benzyloxybenzoate	56442-22-9	25.00	1.1802	2	32876	C21H26O2	ethynylestradiol 3-methyl ether	72-33-3	25.00	1.0341	2
32704	C21H18O5S	cresol red	1733-12-6	25.00	1.2896	2	32877	C21H26O2	altrenogest	850-52-2	25.00	1.0341	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
32880	C21H26O3	[2-hydroxy-4-(octyloxy)phenyl]phenylmethanone	1843-05-6	25.00	1.0675	2	33049	C21H42O2	methyl eicosanoate	1120-28-1	38.00	0.8428	2
32883	C21H26O3	moxestrol	34816-55-2	25.00	1.0675	2	33050	C21H42O2	heneicosanoic acid	2363-71-5	38.00	0.8428	2
32886	C21H26O5	17,21-dihydroxypregna-1,4-diene-3,11,20-trio*	53-03-2	25.00	1.1306	2	33051	C21H42O2	isopropyl isostearate	68171-33-5	38.00	0.8428	2
32887	C21H26O8S2	trans-(-)-1,4-di-O-tosyl-2,3-O-isopropyliden*	37002-45-2	25.00	1.2892	2	33053	C21H42O4	glycerol 1-stearate, (±)	22610-63-5	20.00	0.9841	1
32888	C21H26O8S2	(2R,3R)-1,4-di-O-tosyl-2,3-O-isopropylidene-*	51064-65-4	25.00	1.2892	2	33054	C21H42O4	glyceryl monostearate	31566-31-1	25.00	0.9700	1
32894	C21H27ClO3	chlormadinon	1961-77-9	25.00	1.1081	2	33055	C21H43Br	1-bromoheneicosane	4276-50-0	25.00	0.9742	2
32896	C21H27FO6	aristocort	124-94-7	25.00	1.1703	2	33056	C21H43Cl	1-chloroheneicosane	66326-16-7	25.00	0.8648	2
32897	C21H27N	budipine	57982-78-2	25.00	0.9857	2	33057	C21H43F	1-fluoroheneicosane	62126-78-7	25.00	0.8379	2
32900	C21H27NO	dextromethadone	5653-80-5	25.00	1.0202	2	33058	C21H43I	1-iodoheneicosane	62127-52-0	25.00	1.0720	2
32901	C21H27NO	a,a-diphenyl-1-piperidinebutanol	972-02-1	25.00	1.0202	2	33059	C21H44	heneicosane	629-94-7	40.20	0.9105	2
32903	C21H27NO	DL-methadone	297-88-1	25.00	1.0202	2	33062	C21H44O	henicosanol	15594-90-8	25.00	0.8320	2
32904	C21H27NO	L-methadone	125-58-6	25.00	1.0202	2	33064	C21H44O3	3-(octadecyloxy)-1,2-propanediol	544-62-7	25.00	0.8906	2
32906	C21H27NO2	ifenprodil	23210-56-2	25.00	1.0534	2	33065	C21H45N	heneicosylamine	14130-15-5	25.00	0.8225	2
32908	C21H27NO4	laudanosine	2688-77-9	25.00	1.1164	2	33066	C21H45N	methyleicosylamine	66326-20-3	25.00	0.8225	2
32909	C21H27NO4	DL-laudanosine	1699-51-0	25.00	1.1164	2	33067	C21H45N	ethylnonadecylamine	66326-79-0	25.00	0.8225	2
32910	C21H27N3O2	1-methyllysergic acid butanolamide	361-37-5	25.00	1.1135	2	33068	C21H45N	isopropyloctadecylamine	13329-71-0	25.00	0.8225	2
32915	C21H28ClNO	methadone hydrochloride	1095-90-5	25.00	1.0643	2	33069	C21H45N	dimethylnonadecylamine	49859-87-2	25.00	0.8225	2
32916	C21H28NO7	clivorine	33979-15-6	25.00	1.1901	2	33070	C21H45N	diethylheptadecylamine	66326-18-9	25.00	0.8225	2
32919	C21H28N2O2	hydrocupreine ethyl ether	522-60-1	25.00	1.0717	2	33071	C21H45N	triheptylamine	2411-36-1	25.00	0.8225	2
32920	C21H28N2O8	deisovaleryl blastmycin	60504-95-2	25.00	1.2421	2	33081	C22H12	indeno[1,2,3-cd]pyrene	193-39-5	25.00	1.1847	2
32923	C21H28O2	ethisterone	434-03-7	25.00	1.0105	2	33082	C22H12	dibenzo[def,mno]chrysene	191-26-4	25.00	1.1847	2
32924	C21H28O2	dydrogesterone	152-62-5	25.00	1.0105	2	33085	C22H12F6O6S2	(R)-(-)-1,1'-binaphthol-2,2'-bis(trifluorome*	126613-06-7	25.00	1.5402	2
32927	C21H28O2	norgestrel	6533-00-2	25.00	1.0105	2	33086	C22H12F6O6S2	(S)-(+)-1,1'-binaphthol-2,2'-bis(trifluorome*	128544-05-8	25.00	1.5402	2
32928	C21H28O2	d(-)-norgestrel	797-63-7	25.00	1.0105	2	33088	C22H12N2	dibenz(c,f)indeno(1,2,3-ij)(2,7)naphthyridine	193-40-8	25.00	1.2589	2
32929	C21H28O2	L-norgestrel	797-64-8	25.00	1.0105	2	33093	C22H12O	indeno(1,2,3-cd)pyren-8-ol	99520-58-8	25.00	1.2238	2
32931	C21H28O4	21-hydroxypregn-4-ene-3,11,20-trione	72-23-1	25.00	1.0750	2	33097	C22H14	benzo[b]triphenylene	215-58-7	25.00	1.1489	2
32932	C21H28O4	formyldienolone	2454-11-7	25.00	1.0750	2	33098	C22H14	dibenz[a,h]anthracene	53-70-3	25.00	1.1489	2
32933	C21H28O5	aldosterone	52-39-1	25.00	1.1055	2	33099	C22H14	dibenz[a,j]anthracene	224-41-9	25.00	1.1489	2
32934	C21H28O5	17,21-dihydroxypregn-4-ene-3,11,20-trione	53-06-5	25.00	1.1055	2	33100	C22H14	pentacene	135-48-8	25.00	1.1489	2
32935	C21H28O5	prednisolone	50-24-8	25.00	1.1055	2	33101	C22H14	pentaphene	222-93-5	25.00	1.1489	2
32938	C21H29FO5	fluorocortisone	127-31-1	25.00	1.1176	2	33102	C22H14	picene	213-46-7	25.00	1.1489	2
32950	C21H30O2	cannabidiol	13956-29-1	40.00	1.0400	1	33103	C22H14	benzo[a]naphthacene	226-88-0	25.00	1.1489	2
32951	C21H30O2	progesterone	57-83-0	25.00	1.1660	1	33104	C22H14	benzo[b]chrysene	214-17-5	25.00	1.1489	2
32953	C21H30O2	dehydroabietic acid	1740-19-8	172.50	1.1447	2	33105	C22H14	1,2:5,6-dibenzophenanthrene	194-69-4	25.00	1.1489	2
32956	C21H30O2	pentylcannabichromene	20675-51-8	32.50	1.1030	2	33106	C22H14	1,2:3,4-dibenzophenanthrene	196-78-1	25.00	1.1489	2
32960	C21H30O3	21-hydroxypregn-4-ene-3,20-dione	64-85-7	25.00	1.0205	2	33107	C22H14Br4O4	tetrabromophenolphthalein ethyl ester	1176-74-5	25.00	1.9236	2
32961	C21H30O3	11a-hydroxyprogesterone	80-75-1	25.00	1.0205	2	33109	C22H14Cl2I2N2O2	N-(5-chloro-4-((4-chlorophenyl)cyanomethyl)-*	57808-65-8	25.00	1.8759	2
32963	C21H30O4	corticosterone	50-22-6	25.00	1.0517	2	33115	C22H14O	dibenz(a,h)anthracen-5-ol	4002-76-0	25.00	1.1874	2
32964	C21H30O4	17,21-dihydroxypregn-4-ene-3,20-dione	152-58-9	25.00	1.0517	2	33119	C22H14O4	di-(1-naphthoyl)peroxide	29903-04-6	25.00	1.2932	2
32965	C21H30O5	humulon	26472-41-3	25.00	1.0818	2	33120	C22H14O9	aurintricarboxylic acid	4431-00-9	25.00	1.4424	2
32966	C21H30O5	hydrocortisone	50-23-7	25.00	1.0818	2	33128	C22H16	5,6-dihydrodibenz(a,h)anthracene	153-34-4	25.00	1.1157	2
32969	C21H31NO4	furethidine	2385-81-1	25.00	1.0689	2	33129	C22H16	5,6-dihydrodibenz(a,j)anthracene	16361-01-6	25.00	1.1157	2
32973	C21H32O	allylestrenol	432-60-0	25.00	0.9343	2	33142	C22H16N4O	1-[[4-(phenylazo)phenyl]azo]-2-naphthalenol	85-86-9	25.00	1.2866	2
32975	C21H32O2	pregnane-3,20-dione, (5beta)	128-23-4	25.00	0.9672	2	33147	C22H16O5	5,7-dimethoxy-3-(1-naphthoyl)coumarin	86548-40-5	25.00	1.2899	2
32976	C21H32O2	pregnenolone	145-13-1	25.00	0.9672	2	33149	C22H16O8	bis(4-hydroxy-3-coumarin) acetic acid ethyl *	548-00-5	25.00	1.3786	2
32978	C21H32O3	alfaxalone	23930-19-0	25.00	0.9989	2	33151	C22H17ClN2	mycosporin	23593-75-1	25.00	1.2251	2
32979	C21H32O3	pavisoid	434-07-1	25.00	0.9989	2	33155	C22H17N	N,N-diphenyl-1-naphthalenamine	61231-45-6	25.00	1.1359	2
32980	C21H32O5	tetrahydrocortisone	53-05-4	25.00	1.0593	2	33166	C22H18BrNO4S	(S)-N-fmoc-2-(5-bromothienyl)alanine	220497-50-7	25.00	1.4650	2
32981	C21H32O5	11,17,20,21-tetrahydroxypregn-4-en-3-one, (1*	116-58-5	25.00	1.0593	2	33167	C22H18BrNO4S	(R)-N-fmoc-2-(5-bromothienyl)alanine	220497-83-6	25.00	1.4650	2
32984	C21H33NO7	lasiocarpine	303-34-4	25.00	1.1303	2	33168	C22H18Cl2FNO3	cyfluthrin	68359-37-5	25.00	1.3336	2
32987	C21H33N3O4S	1-cyclohexyl-3-(2-morpholinoethyl)-carbodiim*	2491-17-0	25.00	1.1409	2	33172	C22H18O2	2,2'-dimethoxy-1,1'-binaphthyl	2960-93-2	25.00	1.1578	2
32990	C21H34BrNO3	oxyphenonium bromide	50-10-2	25.00	1.1707	2	33175	C22H18O4	o-cresolphthalein	596-27-0	25.00	1.2250	2
32993	C21H34O2	pregnan-3alpha-ol-20-one	128-20-1	25.00	0.9472	2	33176	C22H18O4	dibenzyl phthalate	523-31-9	25.00	1.2250	2
32998	C21H36	pentadecylbenzene	2131-18-2	22.00	0.9983	2	33177	C22H18O4	dibenzyl terephthalate	19851-61-7	25.00	1.2250	2
32999	C21H36	pregnane, (5alpha)	641-85-0	20.00	0.9415	2	33179	C22H19Br2NO3	deltamethrin	52918-63-5	25.00	1.5516	2
33000	C21H36	pregnane, (5beta)	481-26-5	15.00	1.0320	1	33182	C22H19Cl2NO3	cypermethrin	52315-07-8	20.00	1.2500	1
33001	C21H36N2	irehdiamine A	3614-57-1	25.00	0.9241	2	33183	C22H19Cl2NO3	a-cypermethrin	67375-30-8	25.00	1.2998	2
33003	C21H36N2O5S	hexocyclium	6004-98-4	25.00	1.1099	2	33186	C22H19NO4	bisacodyl	603-50-9	25.00	1.2397	2
33005	C21H36O	3-pentadecylphenol	501-24-6	25.00	0.8966	2	33187	C22H19NO4S	(S)-N-fmoc-2-thienylalanine	130309-35-2	25.00	1.2813	2
33007	C21H36O2	3-pentadecyl-1,2-benzenediol	492-89-7	25.00	0.9284	2	33188	C22H19NO4S	(S)-N-fmoc-3-thienylalanine	186320-06-9	25.00	1.2813	2
33008	C21H36O2	pregnane-3,20-diol, (3alpha,5beta,20S)	80-92-2	25.00	1.1500	1	33189	C22H19NO4S	(R)-N-fmoc-2-thienylalanine	201532-42-5	25.00	1.2813	2
33013	C21H38ClN	1-hexadecylpyridinium, chloride	123-03-5	25.00	0.9328	2	33190	C22H19NO4S	(R)-N-fmoc-3-thienylalanine	220497-90-5	25.00	1.2813	2
33021	C21H40	1,1-dicyclohexylnonane	62155-19-5	25.00	0.8310	2	33191	C22H19NO5	(S)-N-fmoc-(2-furyl)alanine	159611-02-6	25.00	1.2701	2
33022	C21H40	1-hexadecylcyclopentene	62184-81-0	25.00	0.8310	2	33192	C22H19NO5	(R)-N-fmoc-(2-furyl)alanine	220497-85-8	25.00	1.2701	2
33023	C21H40	1-heneicosyne	61847-81-2	25.00	0.8310	2	33209	C22H20O3	3,5-dibenzyloxyacetophenone	28924-21-2	25.00	1.1616	2
33025	C21H40O2	octadecyl acrylate	4813-57-4	25.00	0.8000	1	33210	C22H20O3	(R)-(+)-2-hydroxy-1,2,2-triphenylethyl aceta*	95061-47-5	25.00	1.1616	2
33029	C21H40O4	glycerol 1-monooleate	111-03-5	36.00	1.1017	2	33211	C22H20O3	(S)-(-)-2-hydroxy-1,2,2-triphenylethyl aceta*	95061-51-1	25.00	1.1616	2
33032	C21H41N	heneicosanenitrile	66326-13-4	25.00	0.8525	2	33212	C22H20O4	methyl 3,5-dibenzyloxybenzoate	58605-10-0	25.00	1.1941	2
33037	C21H42	pentadecylcyclohexane	6006-95-7	20.00	0.8267	1	33213	C22H20O10	granaticin	19879-06-2	25.00	1.3654	2
33038	C21H42	1-heneicosene	1599-68-4	22.50	0.8229	2	33214	C22H20O13	carminic acid	1260-17-9	25.00	1.4384	2
33039	C21H42Br2	1,1-dibromoheneicosane	62168-38-1	25.00	1.1338	2	33216	C22H21NO2	benzylimidobis(p-methoxyphenyl)methane	524-96-9	25.00	1.1456	2
33040	C21H42Cl2	1,1-dichloroheneicosane	62017-23-6	25.00	0.9242	2	33217	C22H21NO2S	S-trityl-L-cysteine	2799-07-7	25.00	1.1923	2
33041	C21H42F2	1,1-difluoroheneicosane	62127-10-0	25.00	0.8733	2	33228	C22H22FN3O2	droperidol	548-73-2	25.00	1.2154	2
33042	C21H42I2	1,1-diiodoheneicosane	66326-14-5	25.00	1.3114	2	33229	C22H22N2O2S	1,3-diphenylacetone p-tosylhydrazone	19816-88-7	25.00	1.2069	2
33043	C21H42O2	eicosyl formate	66326-15-6	38.00	0.8428	2	33232	C22H22O4	dienestrol diacetate	84-19-5	25.00	1.1650	2
33044	C21H42O2	nonadecyl acetate	53939-51-8	38.00	0.8428	2	33233	C22H22O8	picropodophyllin	477-47-4	25.00	1.2820	2
33045	C21H42O2	octadecyl propanoate	52663-48-6	38.00	0.8428	2	33234	C22H22O8	podophyllotoxin	518-28-5	25.00	1.2820	2
33046	C21H42O2	heptadecyl butanoate	84869-41-0	38.00	0.8428	2	33235	C22H22O8	austocystin D	55256-53-6	25.00	1.2820	2
33047	C21H42O2	isopropyl stearate	112-10-7	38.00	0.8403	1	33236	C22H22O8	epipodophyllotoxin	4375-07-9	25.00	1.2820	2
33048	C21H42O2	propyl stearate	3634-92-2	38.00	0.8452	1	33238	C22H23ClN2O8	chlortetracycline	57-62-5	25.00	1.3549	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
33240	C22H23NO2	1,1-diphenyl-2-propynyl-N-cyclohexylcarbamate	10087-89-5	25.00	1.1177	2	33400	C22H37NO	N-phenylhexadecanamide	6832-98-0	25.00	0.9319	2
33241	C22H23NO3	fenpropathrin	64257-84-7	25.00	1.1500	1	33401	C22H38	1-phenylhexadecane	1459-09-2	27.00	0.9954	2
33243	C22H23NO6	aureothin	2825-00-5	25.00	1.2390	2	33406	C22H38O	(hexadecyloxy)benzene	35021-70-6	82.00	0.8434	1
33244	C22H23NO7	noscapine	128-62-1	25.00	1.2667	2	33413	C22H38O5	15-methyl-PGF2a-methyl ester	35700-21-1	25.00	1.0107	2
33245	C22H23NO7	narcotine	6035-40-1	25.00	1.2667	2	33414	C22H39N	4-hexadecylaniline	79098-13-8	25.00	0.8841	2
33246	C22H23N3	3-(1,3-dimethyl-(4S,5S)-diphenylimidazolidin*	---	25.00	1.1146	2	33415	C22H39NO2S	4-hexadecylsulfonylaniline	6052-20-6	25.00	0.9887	2
33247	C22H23N3O9	aluminon	569-58-4	25.00	1.3679	2	33419	C22H40BrNO	domiphen bromide	538-71-6	25.00	1.0651	2
33252	C22H24ClN5O2	domperidone	57808-66-9	25.00	1.2638	2	33422	C22H40O12	sucrose monocaprate	31835-06-0	25.00	1.1633	2
33254	C22H24FN3OS	timiperone	57648-21-2	25.00	1.2004	2	33423	C22H40O7	2-hydroxy-1,2,3-nonadecanetricarboxylic acid	666-99-9	25.00	1.0446	2
33255	C22H24FN3O2	1-(1-(4-(4-fluorophenyl)-4-oxobutyl)-4-piper*	2062-84-2	25.00	1.1876	2	33425	C22H42	1,1-dicyclohexyldecane	62155-20-8	25.00	0.8321	2
33259	C22H24N2O4	alstonidine	25394-75-6	25.00	1.1952	2	33426	C22H42	1-docosyne	61847-82-3	25.00	0.8321	2
33260	C22H24N2O4	4,4'-bis(acetoacetamido)-3,3'-dimethyl-1,1'-*	91-96-3	25.00	1.1952	2	33431	C22H42O2	cis-13-docosenoic acid	112-86-7	55.00	0.8600	1
33261	C22H24N2O4	vomicine	125-15-5	25.00	1.1952	2	33432	C22H42O2	trans-13-docosenoic acid	506-33-2	57.00	0.8585	1
33262	C22H24N2O8	tetracycline	60-54-8	25.00	1.3043	2	33433	C22H42O2	13-docosenoic acid	1072-39-5	20.00	0.8532	1
33264	C22H24N2O9	oxytetracycline	79-57-2	20.00	1.6340	1	33437	C22H42O4	bis(2-ethylhexyl) adipate	103-23-1	-111.65	1.1747	2
33265	C22H24N2O9	4-epioxytetracycline, 'can be used as second*	35259-39-3	25.00	1.3293	2	33438	C22H42O4	diethyl octadecanedioate	1472-90-8	25.00	0.9480	2
33266	C22H24N2O10	1,2-bis(2-aminophenoxy)-ethane-N,N,N'N'-tetr*	85233-19-8	25.00	1.3536	2	33439	C22H42O4	docosanedioic acid	505-56-6	25.00	0.9480	2
33267	C22H24O2	4,4'-(octahydro-4,7-methano-5H-inden-5-ylide*	1943-97-1	25.00	1.0732	2	33440	C22H42O4	di-n-octyl adipate	123-79-5	7.50	1.0858	2
33271	C22H25NO2	lobelanine	579-21-5	25.00	1.0915	2	33450	C22H43NO	erucylamide	112-84-5	25.00	0.8818	2
33275	C22H25NO5	fmoc-O-t-butyl-L-serine	71989-33-8	25.00	1.1828	2	33453	C22H43N5O13	antibiotic BB-K 8	37517-28-5	25.00	1.2534	2
33276	C22H25NO6	colchicine	64-86-8	25.00	1.2112	2	33454	C22H44	heptadecylcyclopentane	62016-52-8	22.50	0.8110	2
33277	C22H25N3O	benzpiperylon	53-89-4	25.00	1.1201	2	33455	C22H44	hexadecylcyclohexane	6812-38-0	20.00	0.8279	1
33278	C22H25N3O4	3,4-dihydro-6-(4-(3,4-dimethoxybenzoyl)-1-pi*	81840-15-5	25.00	1.2092	2	33456	C22H44	1-docosene	1599-67-3	25.00	0.7940	1
33283	C22H26N2O2	ethyl apovincaminate	42971-09-5	25.00	1.1088	2	33457	C22H44Br2	1,1-dibromodocosane	62168-39-2	25.00	1.1228	2
33286	C22H26N2O3	corynantheine	18904-54-6	25.00	1.1392	2	33458	C22H44Cl2	1,1-dichlorodocosane	62017-24-7	25.00	0.9214	2
33287	C22H26N2O4	grandaxin	22345-47-7	25.00	1.1685	2	33459	C22H44F2	1,1-difluorodocosane	62127-11-1	25.00	0.8725	2
33292	C22H26O3	cis-resmethrin, (-)	10453-86-8	25.00	1.0806	2	33460	C22H44I2	1,1-diiododocosane	66326-05-4	25.00	1.2942	2
33293	C22H26O3	bioresmethrin	28434-01-7	25.00	1.0806	2	33461	C22H44N2O2	glyodin	556-22-9	25.00	1.0350	1
33298	C22H27NO2	lobeline	90-69-7	25.00	1.0668	2	33462	C22H44O	cis-13-docosen-1-ol	629-98-1	33.00	0.8416	1
33299	C22H27NO2	danocrine	17230-88-5	25.00	1.0668	2	33463	C22H44O2	eicosyl acetate	822-24-2	45.00	0.8420	2
33302	C22H27NO4	corydaline	518-69-4	25.00	1.1279	2	33464	C22H44O2	nonadecyl propanoate	66326-06-5	45.00	0.8420	2
33303	C22H27NO4	coumarin 314t	113869-06-0	25.00	1.1279	2	33465	C22H44O2	octadecyl butanoate	13373-83-6	45.00	0.8420	2
33307	C22H27N3O3S2	metopimazine	14008-44-7	25.00	1.2324	2	33466	C22H44O2	butyl stearate	123-95-5	26.30	1.0013	2
33309	C22H27N3O7S	griseoviridin	53216-90-3	25.00	1.2960	2	33467	C22H44O2	isobutyl stearate	646-13-9	20.00	0.8498	1
33311	C22H27N9O4	stallimycin	636-47-5	25.00	1.3318	2	33468	C22H44O2	docosanoic acid	112-85-6	90.00	0.8223	1
33316	C22H28N2O	fentanyl	437-38-7	25.00	1.0532	2	33469	C22H44O2	ethyl eicosanoate	18281-05-5	45.00	0.8420	2
33317	C22H28N2O2	N-b-(p-aminophenyl)ethylnormeperidine	144-14-9	25.00	1.0842	2	33470	C22H44O2	methyl heneicosanoate	6064-90-0	45.00	0.8420	2
33319	C22H28N2O5	reserpic acid	83-60-3	25.00	1.1712	2	33473	C22H45Br	1-bromodocosane	6938-66-5	25.00	0.9693	2
33322	C22H28N4O6	mitoxantrone	65271-80-9	25.00	1.2484	2	33474	C22H45Cl	1-chlorodocosane	42217-03-8	25.00	0.8644	2
33324	C22H28O3	canrenone	976-71-6	25.00	1.0566	2	33475	C22H45F	1-fluorodocosane	62126-79-8	25.00	0.8386	2
33325	C22H28O3	17-acetoxy-19-nor-17a-pregn-4-en-20-yn-3-one	51-98-9	25.00	1.0566	2	33476	C22H45I	1-iododocosane	62127-53-1	25.00	1.0633	2
33327	C22H28O7	[2,5]-dibenzo-21-crown-7	133560-78-8	25.00	1.1735	2	33477	C22H46	docosane	629-97-0	44.00	0.9101	2
33328	C22H28O7	[3,4]-dibenzo-21-crown-7	14098-41-0	25.00	1.1735	2	33478	C22H46N2O	2-heptadecyl-2-imidazoline-1-ethanol	95-19-2	25.00	0.8852	2
33330	C22H29FO4	desoxymetasone	382-67-2	25.00	1.1001	2	33479	C22H46O	1-docosanol	661-19-8	25.00	0.8330	2
33331	C22H29FO4	flucortolone	152-97-6	25.00	1.1001	2	33483	C22H47N	docosylamine	14130-06-4	25.00	0.8239	2
33332	C22H29FO5	dexamethasone	50-02-2	25.00	1.1283	2	33484	C22H47N	methylheneicosylamine	66326-08-7	25.00	0.8239	2
33335	C22H29NO2	lobelanidine	552-72-7	25.00	1.0434	2	33485	C22H47N	ethyleicosylamine	66326-07-6	25.00	0.8239	2
33337	C22H29NO2	darvon	469-62-5	25.00	1.0434	2	33486	C22H47N	diundecylamine	16165-33-6	25.00	0.8239	2
33338	C22H29NO2	propoxyphene	77-50-9	25.00	1.0434	2	33487	C22H47N	dimethyleicosylamine	45275-74-9	25.00	0.8239	2
33339	C22H29NO5	trimebutine	39133-31-8	25.00	1.1323	2	33488	C22H47N	diethyloctadecylamine	30427-51-1	25.00	0.8239	2
33340	C22H29N3S2	ethylthioperazine	1420-55-9	25.00	1.1297	2	33490	C22H48O7	milbemycin D	77855-81-3	25.00	0.9766	2
33341	C22H29N7O5	adenosine-3'-(a-amino-p-methoxyhydrocinnamam*	53-79-2	25.00	1.2824	2	33492	C23H14	13H-dibenz(bc,j)aceanthrylene	201-42-3	25.00	1.1630	2
33344	C22H30Cl2N10	1,6-bis(5-(p-chlorophenyl)biguanidino)hexane	55-56-1	25.00	1.2919	2	33496	C23H14F5NO4	N-(9-fluorenylmethoxycarbonyl)glycine pentaf*	86060-85-7	25.00	1.4222	2
33346	C22H30N2O2	1-acetyl-17-methoxyaspidospermidine	466-49-9	25.00	1.0610	2	33509	C23H16O3	2-(diphenylacetyl)-1H-indene-1,3(2H)-dione	82-66-6	25.00	1.2353	2
33349	C22H30N2O5	echitamine	6871-44-9	25.00	1.1469	2	33510	C23H16O6	pamoic acid	130-85-8	25.00	1.3283	2
33350	C22H30N4O2S2	thioperazine	316-81-4	25.00	1.1951	2	33511	C23H17ClN4	tetrazolium violet	1719-71-7	25.00	1.2942	2
33353	C22H30O	desogestrel	54024-22-5	25.00	0.9703	2	33519	C23H18FNO4	(S)-N-fmoc-4-fluorophenylglycine	---	25.00	1.2862	2
33356	C22H30O2S	4,4'-thiobis(6-tert-butyl-m-cresol)	96-69-5	25.00	1.0509	2	33520	C23H18N2O2	2-diphenylacetyl-1,3-indandione-1-hydrazone	5102-79-4	25.00	1.2330	2
33357	C22H30O2S	4,4'-thiobis(6-tert-butyl-o-cresol)	96-66-2	25.00	1.1000	1	33521	C23H18O	alpha,alpha-diphenyl-1-naphthalenemethanol	630-95-5	25.00	1.1357	2
33358	C22H30O5	methylprednisolone	83-43-2	25.00	1.0935	2	33523	C23H19ClF3NO3	cyhalothrin	91465-08-6	25.00	1.3225	2
33359	C22H31NO3	epostane	80471-63-2	25.00	1.0515	2	33529	C23H20N2O2S	1,2-diphenyl-4-phenylthioethyl-3,5-pyrazolid*	3736-92-3	25.00	1.2451	2
33361	C22H32	1-dodecylnaphthalene	26438-28-8	20.00	0.9240	1	33531	C23H20N2O4	(R)-N-fmoc-(3-pyridyl)alanine	142994-45-4	25.00	1.2625	2
33362	C22H32	2-dodecylnaphthalene	60899-39-0	20.00	0.9177	1	33532	C23H20N2O4	(S)-N-fmoc-(3-pyridyl)alanine	175453-07-3	25.00	1.2625	2
33363	C22H32N2O5	benzoguanamine	23844-24-8	25.00	1.1237	2	33533	C23H20N2O4	(R)-N-fmoc-(2-pyridyl)alanine	185379-39-9	25.00	1.2625	2
33364	C22H32N4O	N,N-diethyl-N'-((8a)-6-propylergolin-8-yl)ur*	77650-95-4	25.00	1.0651	2	33534	C23H20N2O4	(S)-N-fmoc-(2-pyridyl)alanine	185379-40-2	25.00	1.2625	2
33366	C22H32O2	20-(hydroxymethyl)pregna-1,4-dien-3-one	35525-27-0	25.00	0.9817	2	33535	C23H20N2O5	chymex	37106-97-1	25.00	1.2909	2
33367	C22H32O2	retinol, acetate	127-47-9	25.00	0.9817	2	33536	C23H21ClO3	tris(4-methoxyphenyl)chloroethene	569-57-3	25.00	1.2081	2
33371	C22H32O3	medroxyprogesterone	520-85-4	25.00	1.0125	2	33541	C23H22ClF3O2	bifenthrin	82657-04-3	125.00	1.2000	1
33372	C22H32O3	17-(1-oxopropoxy)-androst-4-en-3-one, (17bet*	57-85-2	25.00	1.0125	2	33542	C23H22N2O3	5-(N,N-dibenzylglycyl)salicylamide	30566-92-8	25.00	1.2037	2
33375	C22H32O3	primobolan	434-05-9	25.00	1.0125	2	33546	C23H22O6	rotenone	83-79-4	25.00	1.2348	2
33376	C22H32O10	1,2-O-cyclohexylidene-a-D-xylopentodialdo-1,*	22250-05-1	25.00	1.2027	2	33547	C23H22O7	tephrosin	76-80-2	25.00	1.2627	2
33379	C22H33NO2	atisine	466-43-3	25.00	1.0004	2	33550	C23H23IN2	1,1'-diethyl-2,2'-cyanine iodide	977-96-8	25.00	1.3883	2
33380	C22H33NO2	denudatine	26166-37-0	25.00	1.0004	2	33554	C23H24N4O2	diantipyrylmethane	1251-85-0	25.00	1.2028	2
33384	C22H34O4	diheptyl phthalate	3648-21-3	-33.15	1.2035	2	33555	C23H24N4O9	antibiotic FR 1923	39391-39-4	25.00	1.3815	2
33389	C22H34O7	forskolin	66575-29-9	25.00	1.1044	2	33558	C23H24O4	bisphenol A dimethacrylate	3253-39-2	25.00	1.1489	2
33390	C22H34O7	lyoniatoxin	31136-61-5	25.00	1.1044	2	33559	C23H24O4	fertodur	2624-43-3	25.00	1.1489	2
33392	C22H35NO2	(+)-himbacine	6879-74-9	25.00	0.9805	2	33560	C23H24O8	wortmannin	19545-26-7	25.00	1.2614	2
33394	C22H35NO3	luciculine	5008-52-6	25.00	1.0098	2	33565	C23H25N3	4-(diethylamino)benzaldehyde-1,1-diphenyl-hy*	68189-23-1	25.00	1.1009	2
33397	C22H36O	1-phenyl-1-hexadecanone	6697-12-7	76.00	0.8692	1	33571	C23H26Cl2O6	sinifibrate	14929-11-4	25.00	1.2623	2
33398	C22H36O7	andromedotoxin	4720-09-6	25.00	1.0835	2	33572	C23H26FN3O2	spiroperidol	749-02-0	25.00	1.1714	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
33575	C23H26N2O4	brucine	357-57-3	25.00	1.1785	2	33723	C24H14	dibenzo[b,def]chrysene	189-64-0	25.00	1.1762	2
33576	C23H26N2O5	fmoc-L-aspartic acid b -t-butyl ester	71989-14-5	25.00	1.2061	2	33724	C24H14	1,2:9,1o-dibenzopyrene	191-30-0	25.00	1.1762	2
33578	C23H27ClN2O9	N'-methylol-o-chlortetracycline	1181-54-0	25.00	1.3289	2	33725	C24H14	dibenz(a,e)aceanthrylene	5385-75-1	25.00	1.1762	2
33580	C23H27NO5	fmoc-O-t-butyl-L-threonine	71989-35-0	25.00	1.1670	2	33726	C24H14	dibenz(a,j)aceanthrylene	203-20-3	25.00	1.1762	2
33581	C23H27NO8	narceine	131-28-2	25.00	1.2463	2	33727	C24H16	tetraphenylene	212-74-8	25.00	1.1440	2
33584	C23H28ClN3O	prenoxdiazine hydrochloride	982-43-4	25.00	1.1425	2	33736	C24H16N2	4,7-diphenyl-1,10-phenanthroline	1662-01-7	25.00	1.2106	2
33586	C23H28ClN3O5S	1-((p-(2-(chloro-o-anisamido)ethyl)phenyl)su*	10238-21-8	25.00	1.2787	2	33744	C24H16O7	fluorescein diacetate	596-09-8	25.00	1.3634	2
33593	C23H28O7	schisandrol B	58546-54-6	25.00	1.1829	2	33748	C24H18	5'-phenyl-1,1':3',1''-terphenyl	612-71-5	30.00	1.1990	1
33594	C23H28O8	pseudolaric acid B	82508-31-4	25.00	1.2091	2	33749	C24H18	1,1':2',1'':2'',1'''-quaterphenyl	641-96-3	25.00	1.1138	2
33597	C23H29ClO4	CAP	302-22-7	25.00	1.1345	2	33750	C24H18	1,1':4',1'':4'',1'''-quaterphenyl	135-70-6	25.00	1.1138	2
33599	C23H29NO	2-phenyl-6-piperidinohexynophenone	38940-46-4	25.00	1.0255	2	33752	C24H18	9,10-dimethyl-1,2,5,6-dibenzanthracene	35335-07-0	25.00	1.1138	2
33600	C23H29NO3	benzethidine	3691-78-9	25.00	1.0861	2	33757	C24H18O4	DL-1,1'-Bi(2-naphthyl diacetate)	100569-82-2	25.00	1.2448	2
33604	C23H29N3O2S	10-(2-(dimethylamino)propyl)phenothiazin-2-y*	13082-24-1	25.00	1.1535	2	33761	C24H20BrNO4	(S)-N-fmoc-3-amino-3-(4-bromophenyl)propanoi*	220497-68-7	25.00	1.4103	2
33608	C23H30BrNO3	propantheline bromide	50-34-0	25.00	1.2362	2	33762	C24H20BrNO4	(R)-N-fmoc-3-amino-3-(4-bromophenyl)propanoi*	220498-04-4	25.00	1.4103	2
33609	C23H30ClN3O	atabrine	83-89-6	25.00	1.1193	2	33764	C24H20BrNO4	(S)-N-fmoc-4-bromophenylalanine	198561-04-5	25.00	1.4103	2
33611	C23H30N2O4	tetrahydro-1,4-oxazinylmethylcodeine	509-67-1	25.00	1.1297	2	33765	C24H20BrNO4	(S)-N-fmoc-2-bromophenylalanine	220497-47-2	25.00	1.4103	2
33612	C23H30N2O5	methyl reserpate	2901-66-8	25.00	1.1567	2	33766	C24H20BrNO4	(S)-N-fmoc-3-bromophenylalanine	220497-48-3	25.00	1.4103	2
33615	C23H30N6O4	teoprolol	65184-10-3	25.00	1.2294	2	33767	C24H20BrNO4	(R)-N-fmoc-2-bromophenylalanine	220497-79-0	25.00	1.4103	2
33617	C23H30O3	ethyl all-trans-9-(4-methoxy-2,3,6-trimethyl*	54350-48-0	25.00	1.0469	2	33768	C24H20BrNO4	(R)-N-fmoc-3-bromophenylalanine	220497-81-4	25.00	1.4103	2
33620	C23H30O6	citreoviridin	25425-12-1	25.00	1.1323	2	33770	C24H20ClNO4	(R)-N-fmoc-4-chlorophenylalanine	142994-19-2	25.00	1.2862	2
33621	C23H30O6	cortisone-21-acetate	50-04-4	25.00	1.1323	2	33771	C24H20ClNO4	(S)-N-fmoc-4-chlorophenylalanine	175453-08-4	25.00	1.2862	2
33632	C23H31NO7S	sulprostone	60325-46-4	25.00	1.2080	2	33773	C24H20Cl2OSi2	1,3-dichlorotetraphenyldisiloxane	7756-87-8	25.00	1.1940	1
33639	C23H32N2O2S	tiocarlide	910-86-1	25.00	1.0943	2	33774	C24H20FNO4	(S)-N-fmoc-4-fluorophenylalanine	169243-86-1	25.00	1.2642	2
33641	C23H32O2	antioxidant 2246	119-47-1	25.00	0.9956	2	33776	C24H20FNO4	(R)-N-fmoc-2-fluorophenylalanine	198545-46-9	25.00	1.2642	2
33642	C23H32O2	6a,21-dimethylethisterone	79-64-1	25.00	0.9956	2	33777	C24H20FNO4	(R)-N-fmoc-3-fluorophenylalanine	198545-72-1	25.00	1.2642	2
33644	C23H32O2	medrogestone	977-79-7	25.00	0.9956	2	33778	C24H20FNO4	(S)-N-fmoc-3-fluorophenylalanine	198560-68-8	25.00	1.2642	2
33647	C23H32O4	11-deoxycorticosterone acetate	56-47-3	25.00	1.0545	2	33779	C24H20FNO4	(S)-N-fmoc-2-fluorophenylalanine	205526-26-7	25.00	1.2642	2
33649	C23H32O5	corticosterone acetate	1173-26-8	25.00	1.0826	2	33783	C24H20I6N4O8	5,5'-(tetramethylenebis(carbonylimino))bis(N*	10397-75-8	25.00	2.4238	2
33650	C23H32O6	hydrocortisone 21-acetate	50-03-3	20.00	1.2890	1	33784	C24H20N2	N,N'-diphenyl-[1,1'-biphenyl]-4,4'-diamine	531-91-9	25.00	1.1498	2
33651	C23H32O6	strophanthidin	66-28-4	25.00	1.1098	2	33787	C24H20N2O4S	4,4'-bis(3-aminophenoxy)diphenyl sulfone	30203-11-3	25.00	1.3081	2
33653	C23H33IN2O	isopropamide iodide	71-81-8	25.00	1.2711	2	33789	C24H20N2O6	(S)-N-fmoc-3-amino-3-(3-nitrophenyl)propanoi*	206060-42-6	25.00	1.3253	2
33656	C23H33NO2	17b-hydroxy-4,4,17a-trimethyl-androst-5-ene(*	13074-00-5	25.00	1.0135	2	33790	C24H20N4O	scarlet red	85-83-6	25.00	1.2404	2
33658	C23H34O3	pregnenolone acetate	1778-02-5	25.00	1.0052	2	33796	C24H20O4Si	tetraphenoxysilane	1174-72-7	60.00	1.1412	1
33659	C23H34O4	digitoxigenin	143-62-4	25.00	1.0338	2	33797	C24H20O6	1,2,3-propanetriol tribenzoate	614-33-5	12.00	1.2280	1
33661	C23H34O5	digoxigenin	1672-46-4	25.00	1.0615	2	33799	C24H20Pb	tetraphenylplumbane	595-89-1	20.00	1.5298	1
33662	C23H34O5	gitoxigenin	545-26-6	25.00	1.0615	2	33801	C24H20Si	tetraphenylsilane	1048-08-4	20.00	1.0780	1
33663	C23H34O5	sarmentogenin	76-28-8	25.00	1.0615	2	33803	C24H21I6N5O8	ioxaglic acid	59017-64-0	25.00	2.4120	2
33664	C23H36N2S	2-amino-4-phenyl-5-n-tetradecylthiazole	64415-14-1	25.00	0.9993	2	33804	C24H21NO4	(S)-N-fmoc-3-amino-3-phenylpropanoic acid	209252-15-3	25.00	1.2287	2
33665	C23H36N4O5S3	gerostop	137-86-0	25.00	1.2365	2	33805	C24H21NO4	(R)-N-fmoc-3-amino-3-phenylpropanoic acid	220498-02-2	25.00	1.2287	2
33666	C23H36O3	dromostanolone propionate	521-12-0	25.00	0.9860	2	33806	C24H21NO4	fmoc-L-phenylalanine	35661-40-6	25.00	1.2287	2
33668	C23H38O2	benzyl palmitate	41755-60-6	35.00	0.9109	1	33808	C24H22	bis(msb), scintillation	13280-61-0	25.00	1.0591	2
33669	C23H38O2	24-norcholan-23-oic acid, (5beta)	511-18-2	25.00	0.9390	2	33812	C24H22O3	(S)-(+)-g-(trityloxymethyl)-g-butyrolactone	73968-62-4	25.00	1.1564	2
33670	C23H38O3	3',4'-(dioctyloxy)benzaldehyde	131525-50-3	25.00	0.9676	2	33821	C24H24N2O4	codeine nicotinate (ester)	3688-66-2	25.00	1.2143	2
33671	C23H38O3	4-hexadecyloxybenzoic acid	15872-48-7	25.00	0.9676	2	33827	C24H26BrN3O3	nicotergoline	27848-84-6	25.00	1.3433	2
33674	C23H40	heptadecylbenzene	14752-75-1	32.00	0.9909	2	33833	C24H26N2O6	suxibuzone	27470-51-5	25.00	1.2410	2
33675	C23H42N2O12	pentolinium tartrate	52-62-0	25.00	1.1923	2	33834	C24H26O	2,4-bis(a,a-dimethylbenzyl)phenol	2772-45-4	25.00	1.0433	2
33677	C23H44	1,1-dicyclohexylundecane	62155-21-9	25.00	0.8330	2	33837	C24H26O4	estrofurate	10322-73-3	25.00	1.1345	2
33678	C23H44	1-tricosyne	61847-83-4	25.00	0.8330	2	33844	C24H27NO6	mecinarone	26225-59-2	25.00	1.2033	2
33682	C23H45N5O13	3'-deoxyparomomycin I	37636-51-4	25.00	1.2399	2	33846	C24H27N3	1,3,5-tribenzylhexahydro-1,3,5-triazine	2547-66-2	25.00	1.0886	2
33684	C23H46	octadecylcyclopentane	62016-53-9	20.00	0.8254	1	33847	C24H27O4P	3,4-dimethylphenol phosphate (3:1)	3862-11-1	31.50	1.1695	2
33685	C23H46	heptadecylcyclohexane	19781-73-8	20.00	0.8290	1	33849	C24H27O4P	tris(2,5-dimethylphenyl) phosphate	19074-59-0	25.00	1.1970	1
33686	C23H46	1-tricosene	18835-32-0	21.67	0.8201	2	33850	C24H27O4P	tris(2,6-dimethylphenyl) phosphate	121-06-2	31.50	1.1695	2
33688	C23H46Br2	1,1-dibromotricosane	62168-40-5	25.00	1.1127	2	33861	C24H28O4	diethylstilbestrol dipropanoate	130-80-3	25.00	1.1105	2
33689	C23H46Cl2	1,1-dichlorotricosane	62017-25-8	25.00	0.9189	2	33862	C24H28O8	4',4pi(5pi)-diacetyldibenzo-18-crown-6	68817-65-2	25.00	1.2175	2
33690	C23H46F2	1,1-difluorotricosane	62127-12-2	25.00	0.8718	2	33863	C24H29ClO4	cyprosterone acetate	427-51-0	25.00	1.1444	2
33691	C23H46I2	1,1-diiodotricosane	66325-82-4	25.00	1.2782	2	33864	C24H29NO4	ethaverine	486-47-5	25.00	1.1256	2
33694	C23H46O	12-tricosanone	540-09-0	69.00	0.8086	1	33868	C24H30Cl2N5O7	cyclochlorotine	12663-46-6	25.00	1.3474	2
33695	C23H46O2	eicosyl propanoate	65591-14-2	25.00	0.8754	2	33869	C24H30F2O6	synsac	67-73-2	25.00	1.1826	2
33696	C23H46O2	nonadecyl butanoate	84869-42-1	25.00	0.8754	2	33872	C24H30N2O2S	piperacetazine	3819-00-9	25.00	1.1265	2
33697	C23H46O2	isopentyl stearate	627-88-3	20.00	0.8550	1	33874	C24H30O3Si3	2,4,6-triethyl-2,4,6-triphenylcyclotrisiloxa*	546-33-8	25.00	1.0952	1
33698	C23H46O2	pentyl stearate	6382-13-4	25.00	0.8754	2	33876	C24H30O8	flavaspidic acid	114-42-1	25.00	1.1935	2
33699	C23H46O2	methyl docosanoate	929-77-1	25.00	0.8754	2	33877	C24H31ClO	trans-4-octyl-a-chloro-4'-ethoxystilbene	33468-15-4	25.00	1.0406	2
33700	C23H46O2	tricosanoic acid	2433-96-7	25.00	0.8754	2	33881	C24H31FO6	parmathasone acetate	1597-82-6	25.00	1.1517	2
33701	C23H46O2	isostearyl neopentanoate	58958-60-4	25.00	0.8754	2	33883	C24H31N3O7	sibiromycin	12684-33-2	25.00	1.2276	2
33702	C23H47Br	1-bromotricosane	62108-44-5	25.00	0.9648	2	33888	C24H32ClFO5	halciderm	3093-35-4	25.00	1.1567	2
33703	C23H47Cl	1-chlorotricosane	62016-77-7	25.00	0.8640	2	33892	C24H32O3	estradiol-17-valerate	979-32-8	25.00	1.0380	2
33704	C23H47F	1-fluorotricosane	62126-80-1	25.00	0.8392	2	33893	C24H32O4	bufogenin	465-39-4	25.00	1.0662	2
33705	C23H47I	1-iodotricosane	62127-54-2	25.00	1.0553	2	33894	C24H32O4	estradiol dipropionate	113-38-2	25.00	1.0662	2
33706	C23H48	tricosane	638-67-5	47.50	0.9122	2	33895	C24H32O4	ethynodiol acetate	297-76-7	25.00	1.0662	2
33708	C23H48O	1-tricosanol	3133-01-5	25.00	0.8338	2	33896	C24H32O4	volidan	595-33-5	25.00	1.0662	2
33710	C23H49N	tricosylamine	14130-07-5	25.00	0.8251	2	33897	C24H32O4S	spironolactone	52-01-7	25.00	1.1073	2
33711	C23H49N	methyldocosylamine	66375-05-1	25.00	0.8251	2	33899	C24H32O7	schisandrin	7432-28-2	25.00	1.1457	2
33712	C23H49N	ethylheneicosylamine	66375-04-0	25.00	0.8251	2	33900	C24H32O8	[4,4]-dibenzo-24-crown-8	14174-09-5	25.00	1.1707	2
33713	C23H49N	dimethylheneicosylamine	66375-03-9	25.00	0.8251	2	33901	C24H32O8	[3,5]-dibenzo-24-crown-8	75832-82-5	25.00	1.1707	2
33714	C23H49N	diethylnonadecylamine	66375-02-8	25.00	0.8251	2	33908	C24H34N2O3	4,4'-bis(hexyloxy)azoxybenzene	2587-42-0	25.00	1.0698	2
33715	C24F45N3	2,4,6-tris(perfluoroheptyl)-1,3,5-triazine	21674-38-4	25.00	1.8192	2	33910	C24H34O4	medroxyprogesterone acetate	71-58-9	25.00	1.0456	2
33716	C24H8O6	3,4,9,10-perylenetetracarboxylic dianhydride	128-69-8	25.00	1.4876	2	33911	C24H34O4S2	thiomesterone	2205-73-4	25.00	1.1244	2
33717	C24H12	coronene	191-07-1	25.00	1.3710	1	33912	C24H34O5	3,7,12-trioxocholan-24-oic acid, (5beta)	81-23-2	25.00	1.0726	2
33721	C24H14	dibenzo[a,e]pyrene	192-65-4	25.00	1.1762	2	33913	C24H34O5	bufogenin B	465-19-0	25.00	1.0726	2
33722	C24H14	dibenzo[a,i]pyrene	189-55-9	25.00	1.1762	2	33915	C24H34O9	fusariotoxin T 2	21259-20-1	25.00	1.1729	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
33916	C24H35BrClNO2	5-bromo-4-chloro-3-indoxyl palmitate	341972-98-3	25.00	1.1996	2	34085	C25H22ClNO3	esfenvalerate	66230-04-4	25.00	1.2394	2
33917	C24H36N2O8S	terbutaline sulphate	23031-32-5	25.00	1.2056	2	34087	C25H22ClN3O3S	2-(2-tritylaminothiazole-4-yl)-2-methoxyimin*	123333-74-4	25.00	1.3228	2
33924	C24H38O4	diisooctyl phthalate	27554-26-3	-73.15	1.2068	2	34089	C25H22N4O8	streptonigran	3930-19-6	25.00	1.3974	2
33926	C24H38O4	bis(2-ethylhexyl) phthalate	117-81-7	-50.00	1.2225	2	34091	C25H22O3	equilenin benzoate	604-58-0	25.00	1.1672	2
33927	C24H38O4	dioctyl terephthalate	6422-86-2	25.00	0.9840	1	34095	C25H23NO	(S)-di-2-naphthylprolinol	127986-84-9	25.00	1.1225	2
33928	C24H38O4	apocholic acid	641-81-6	25.00	0.9820	2	34096	C25H23NO	(R)-di-2-naphthylprolinol	130798-48-0	25.00	1.1225	2
33930	C24H38O4	bis(2-ethylhexyl) terephthalate	4654-26-6	26.85	1.1209	2	34097	C25H23NO4	DL-N-fmoc-2'-methylphenylalanine	135944-06-8	25.00	1.2102	2
33931.1	C24H38O4	heptyl nonyl phthalate	19295-81-9	-33.15	1.1881	2	34100	C25H24F6N4	hydramethylnon	67485-29-4	25.00	1.2816	2
33932	C24H38O6	1,2:3,4:5,6-tri-O-cyclohexylidene-D-mannitol	70167-57-6	25.00	1.0593	2	34101	C25H24N2O2	(S)-2-[N'-(N-benzylprolyl)amino]benzophenone	96293-17-3	25.00	1.1677	2
33936	C24H39NO	cis-N-phenyl-9-octadecenamide	5429-85-6	25.00	0.9420	2	34105	C25H25ClN2	pinacyanol chloride	2768-90-3	25.00	1.1448	2
33937	C24H40N2	conessine	546-06-5	25.00	0.9317	2	34106	C25H25ClN2O4S2	3,3'-diethylthiatricarbocyanine perchlorate	22268-66-2	25.00	1.3146	2
33939	C24H40N8O4	dipyridamole	58-32-2	25.00	1.1717	2	34113	C25H27NO	(S)-2-piperidinyl-1,1,2-triphenylethanol	---	25.00	1.0738	2
33940	C24H40O	octadecanophenone	6786-36-3	25.00	0.9071	2	34114	C25H27NO	(R)-2-piperidinyl-1,1,2-triphenylethanol	213995-12-1	25.00	1.0738	2
33941	C24H40O2	cholan-24-oic acid	25312-65-6	25.00	0.9311	2	34120	C25H28O3	estra-1,3,5(10)-triene-3,17-diol 3-benzoate,*	50-50-0	25.00	1.0932	2
33942	C24H40O2	q-nonylbenzenenonanoic acid	1938-22-3	25.00	0.9312	1	34121	C25H28O3	etofenprox	80844-07-1	25.00	1.0932	2
33943	C24H40O2	i-octylbenzenedecanoic acid	1938-17-6	25.00	0.9310	1	34122	C25H29BrF2O7	halopredone acetate	57781-14-3	25.00	1.3611	2
33944	C24H40O2	phenyl stearate	637-55-8	25.00	0.9311	2	34124	C25H29N3O	2-(3,3-diphenyl-3-(5-methyl-1,3,4-oxadiazol-*	57726-65-5	25.00	1.1059	2
33945	C24H40O3	3-hydroxycholan-24-oic acid, (3alpha,5beta)	434-13-9	25.00	0.9629	2	34126	C25H30ClN3	crystal violet	548-62-9	25.00	1.1132	2
33946	C24H40O3	3',4'-(dioctyloxy)acetophenone	111195-33-6	25.00	0.9629	2	34127	C25H30N2	MTDQ	41208-07-5	25.00	1.0390	2
33947	C24H40O4	3,12-dihydroxycholan-24-oic acid, (3alpha,5b*	83-44-3	25.00	0.9896	2	34129	C25H30O4	bixin	6983-79-5	25.00	1.0988	2
33948	C24H40O4	3,6-dihydroxycholan-24-oic acid, (3alpha,5be*	83-49-8	25.00	0.9896	2	34130	C25H31NO4	(S)-N-fmoc-octylglycine	193885-59-5	25.00	1.1135	2
33949	C24H40O4	3,7-dihydroxycholan-24-oic acid, (3alpha,5be*	474-25-9	25.00	0.9896	2	34131	C25H31NO4	(R)-N-fmoc-octylglycine	220497-96-1	25.00	1.1135	2
33950	C24H40O4	3,7-dihydroxycholan-24-oic acid, (3alpha,5be*	128-13-2	25.00	0.9896	2	34132	C25H31FO8	aristocort diacetate	67-78-7	25.00	1.2087	2
33951	C24H40O4	(-)-di[(1R)-menthyl] fumarate	34675-24-6	25.00	0.9896	2	34133	C25H31N3	leuco crystal violet	603-48-5	25.00	1.0557	2
33952	C24H40O5	cholic acid	81-25-4	25.00	1.0156	2	34135	C25H32ClFO5	clobetasol propionate	25122-46-7	25.00	1.1653	2
33953	C24H40O7	hydrocortisone-17-butyrate-21-propionate	72590-77-3	25.00	1.0654	2	34136	C25H32O2	quinestrol	152-43-2	25.00	1.0216	2
33957	C24H41NO2	N-(4-hydroxyphenyl)octadecanamide	103-99-1	25.00	0.9527	2	34137	C25H32O4	melengestrol acetate	2919-66-6	25.00	1.0774	2
33958	C24H42	cholane	548-98-1	25.00	0.8626	2	34138	C25H32O8	prednisolone succinate	2920-86-7	25.00	1.1793	2
33959	C24H42	octadecylbenzene	4445-07-2	35.85	0.9918	2	34139	C25H33NO4	7a-etorphine	14521-96-1	25.00	1.0922	2
33960	C24H42O	dinonylphenol	1323-65-5	26.85	1.3205	2	34144	C25H34O6	budesonide	51333-22-3	25.00	1.1088	2
33962	C24H42O4	(-)-di[(1R)-menthyl] succinate	34212-59-4	25.00	0.9726	2	34150	C25H36	1,1-diphenyltridecane	62155-14-0	25.00	0.9256	2
33963	C24H42O4	(1S)-(+)-dimenthyl succinate	96149-05-2	25.00	0.9726	2	34153	C25H36O4	cochliobolin	4611-05-6	25.00	1.0375	2
33966	C24H44O12	1-oxododecyl-b-D-maltoside	---	25.00	1.1413	2	34155	C25H36O6	hydrocortisone-17-butyrate	13609-67-1	25.00	1.0887	2
33967	C24H46	1,1-dicyclohexyldodecane	18254-57-4	25.00	0.8339	2	34156	C25H36O10	glarubin	1448-23-3	25.00	1.1829	2
33968	C24H46	1-tetracosyne	61847-84-5	25.00	0.8339	2	34157	C25H37NO10	aureofuscin	58194-38-0	25.00	1.1938	2
33969	C24H46O2	cyclohexyl stearate	104-07-4	15.00	0.8890	1	34158	C25H38N2	4,4'-methylenebis(2,6-diisopropylaniline)	19900-69-7	25.00	0.9619	2
33970	C24H46O2	cis-15-tetracosenoic acid	506-37-6	25.00	0.8888	2	34159	C25H38O4	androstenediol dipropionate	2297-30-5	25.00	1.0189	2
33971	C24H46O2	trans-15-tetracosenoic acid	14490-79-0	25.00	0.8888	2	34162	C25H40O2S	mepitiostane	21362-69-6	25.00	0.9908	2
33972	C24H46O3	dodecanoic anhydride	645-66-9	70.00	0.8533	1	34165	C25H41NO9	aconine	509-20-6	25.00	1.1331	2
33973	C24H46O4	didodecanoyl peroxide	105-74-8	25.00	0.9407	2	34171	C25H44	nonadecylbenzene	29136-19-4	20.00	0.8545	1
33974	C24H46O4	diethyl eicosanedioate	42235-39-2	25.00	0.9407	2	34174	C25H44N14O8	capreomycin IA	37280-35-6	25.00	1.3267	2
33983	C24H48	nonadecylcyclopentane	62016-54-0	25.00	0.8205	2	34178	C25H48	1,1-dicyclohexyltridecane	62155-22-0	25.00	0.8347	2
33984	C24H48	octadecylcyclohexane	4445-06-1	20.00	0.8300	1	34179	C25H48	1-pentacosyne	61847-85-6	25.00	0.8347	2
33985	C24H48	1-tetracosene	10192-32-2	25.00	0.8205	2	34180	C25H48N6O8	deferoxamine	70-51-9	25.00	1.1487	2
33986	C24H48Br2	1,1-dibromotetracosane	62168-03-0	25.00	1.1033	2	34182	C25H50	eicosylcyclopentane	22331-38-0	20.00	0.8276	1
33987	C24H48Cl2	1,1-dichlorotetracosane	62017-26-9	25.00	0.9165	2	34183	C25H50	nonadecylcyclohexane	22349-03-7	20.00	0.8310	1
33988	C24H48F2	1,1-difluorotetracosane	62127-13-3	25.00	0.8711	2	34184	C26H52	heneicosylcyclopentane	6703-82-8	20.00	0.8286	1
33989	C24H48I2	1,1-diiodotetracosane	66374-96-7	25.00	1.2633	2	34185	C25H50	1-pentacosene	16980-85-1	25.00	0.8218	2
33990	C24H48O2	eicosyl butanoate	41927-66-6	25.00	0.8746	2	34187	C25H50Br2	1,1-dibromopentacosane	62168-04-1	25.00	1.0945	2
33991	C24H48O2	ethyl docosanoate	5908-87-2	25.00	0.8746	2	34188	C25H50Cl2	1,1-dichloropentacosane	62017-27-0	25.00	0.9143	2
33992	C24H48O2	tetracosanoic acid	557-59-5	100.00	0.8207	1	34189	C25H50F2	1,1-difluoropentacosane	62127-14-4	25.00	0.8705	2
33993	C24H48O2	hexadecyl 2-ethylhexanoate	59130-69-7	25.00	0.8746	2	34190	C25H50I2	1,1-diiodopentacosane	66359-84-0	25.00	1.2495	2
33994	C24H48O2	octyl palmitate	29806-73-3	25.00	0.8746	2	34192	C25H50O2	methyl tetracosanoate	2442-49-1	25.00	0.8738	2
33998	C24H49Br	1-bromotetracosane	6946-24-3	25.00	0.9607	2	34193	C25H51Br	1-bromopentacosane	62108-45-6	25.00	0.9568	2
33999	C24H49Cl	1-chlorotetracosane	6422-18-0	25.00	0.8637	2	34194	C25H51Cl	1-chloropentacosane	62016-78-8	25.00	0.8634	2
34000	C24H49F	1-fluorotetracosane	62126-81-2	25.00	0.8398	2	34195	C25H51F	1-fluoropentacosane	62126-82-3	25.00	0.8404	2
34001	C24H49I	1-iodotetracosane	62127-55-3	25.00	1.0478	2	34196	C25H51I	1-iodopentacosane	62127-56-4	25.00	1.0410	2
34002	C24H50	tetracosane	646-31-1	0.00	0.9160	2	34197	C25H52	pentacosane	629-99-2	53.50	0.9099	2
34003	C24H50	2-methyltricosane	1928-30-9	90.00	0.7539	1	34199	C25H53N	pentacosylamine	14130-09-7	25.00	0.8273	2
34005	C24H50O	tetracosanol	506-51-4	25.00	0.8347	2	34200	C25H53N	methyltetracosylamine	66359-78-2	25.00	0.8273	2
34008	C24H50S	dodecyl sulfide	2469-45-6	25.00	0.8525	2	34201	C25H53N	ethyltricosylamine	66359-77-1	25.00	0.8273	2
34012	C24H51N	tetracosylamine	14130-08-6	25.00	0.8262	2	34202	C25H53N	dimethyltricosylamine	66359-76-0	25.00	0.8273	2
34013	C24H51N	methyltricosylamine	66374-99-0	25.00	0.8262	2	34203	C25H53N	diethylheneicosylamine	66359-75-9	25.00	0.8273	2
34014	C24H51N	ethyldocosylamine	66374-98-9	25.00	0.8262	2	34207	C26H14	dibenzo(cd,lm)perylene	188-96-5	25.00	1.2006	2
34015	C24H51N	didodecylamine	3007-31-6	25.00	0.8262	2	34209	C26H16	hexacene	258-31-1	25.00	1.1692	2
34016	C24H51N	dimethyldocosylamine	21542-96-1	25.00	0.8262	2	34210	C26H16	dibenzo[g,p]chrysene	191-68-4	25.00	1.1692	2
34018	C24H51N	trioctylamine	1116-76-3	-34.60	0.9903	2	34217	C26H18	9,10-diphenylanthracene	1499-10-1	25.00	1.1398	2
34026	C24H52BrN	tetrahexylammonium bromide	4328-13-6	25.00	0.9606	2	34218	C26H18	9,9'-bi-9H-fluorene	1530-12-7	25.00	1.1398	2
34027	C24H52ClN	tetrahexylammonium chloride	5922-92-9	25.00	0.8674	2	34221	C26H20	tetraphenylethylene	632-51-9	0.00	1.1550	1
34028	C24H52IN	tetrahexylammonium iodide	2138-24-1	25.00	1.0444	2	34222	C26H20F5NO4	N-(9-fluorenylmethoxycarbonyl)-L-valine pent*	86060-87-9	25.00	1.3477	2
34058	C25H17NO	2-(4-biphenylyl)-6-phenylbenzoxazole	17064-47-0	25.00	1.2069	2	34223	C26H20N2	2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline	4733-39-5	25.00	1.1726	2
34060	C25H19NO3	fendosal	53597-27-6	25.00	1.2380	2	34225	C26H20N2O2	dimethyl popop, scintillation	3073-87-8	25.00	1.2317	2
34061	C25H20	tetraphenylmethane	630-76-2	288.00	1.2157	2	34227	C26H20O	2,2,2-triphenylacetophenone	466-37-5	25.00	1.1442	2
34063	C25H20N2O	tetraphenylurea	632-89-3	25.00	1.2220	1	34230	C26H21NO6	1-acetyl-3,3-bis(p-hydroxyphenyl)oxindole di*	18869-73-3	25.00	1.2991	2
34064	C25H20N2O4	(S)-N-fmoc-4-cyanophenylalanine	173963-93-4	25.00	1.2790	2	34233	C26H22	1,1,1,2-tetraphenylethane	2294-94-2	25.00	1.0862	2
34065	C25H20N2O4	(R)-N-fmoc-4-cyanophenylalanine	205526-34-7	25.00	1.2790	2	34234	C26H22	1,1,2,2-tetraphenylethane	632-50-8	0.00	1.1700	1
34066	C25H20N2O4	(S)-N-fmoc-3-cyanophenylalanine	205526-36-9	25.00	1.2790	2	34237	C26H22N2O4	Na-fmoc-L-tryptophan	35737-15-6	25.00	1.2585	2
34068	C25H20O	4-tritylphenol	978-86-9	25.00	1.1323	2	34238	C26H22O2	1,1,2,2-tetraphenyl-1,2-ethanediol	464-72-2	25.00	1.1482	2
34076	C25H21NO4	N-fmoc-2-aminoindane-2-carboxylic acid	135944-07-9	25.00	1.2377	2	34243	C26H23NO4	(S)-N-fmoc-styrylalanine	159610-82-9	25.00	1.2192	2
34078	C25H21NO4	N-fmoc-L-1,2,3,4-tetrahydroisoquinoline-3-ca*	---	25.00	1.2377	2	34244	C26H23NO4	(R)-N-fmoc-styrylalanine	215190-23-1	25.00	1.2192	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
34262	C26H27ClN2O7	rhodamine 19 perchlorate	62669-66-3	25.00	1.3022	2	34428	C27H30O16	rutin	153-18-4	25.00	1.3837	2
34268	C26H28ClNO	clomiphene	911-45-5	25.00	1.1214	2	34432	C27H32ClNO2	triparanol	78-41-1	25.00	1.1144	2
34272	C26H29F2N7	1-(4,6-bisallylamino-S-triazinyl)-4-(p,p'-di*	27469-53-0	25.00	1.2278	2	34433	C27H32N2O6	quinine salicylate	750-90-3	25.00	1.1937	2
34273	C26H29NO	novadex	10540-29-1	25.00	1.0635	2	34436	C27H32N4O8	pyridomycin	18791-21-4	25.00	1.2801	2
34276	C26H29N3O2	crystal violet lactone	1552-42-7	25.00	1.1433	2	34441	C27H33NO10S	10-thiocolchicoside	602-41-5	25.00	1.2785	2
34280	C26H30O11	rubratoxin B	21794-01-4	25.00	1.2779	2	34442	C27H33NO11	3-demethylcolchicine glucoside	477-29-2	25.00	1.2707	2
34282	C26H32ClFO5	clobetasone butyrate	25122-57-0	25.00	1.1736	2	34443	C27H33N3O8	N-(1-pyrrolidinylmethyl)-tetracycline	751-97-3	25.00	1.2485	2
34283	C26H32Cl2O4	ketoconazole	65277-42-1	25.00	1.1698	2	34449	C27H34F2O7	difluprednate	23674-86-4	25.00	1.1869	2
34284	C26H32F2O7	diflorasone diacetate	33564-31-7	25.00	1.2001	2	34452	C27H34N4O	pirinitramide	302-41-0	25.00	1.0984	2
34285	C26H32F2O7	fluocinolide	356-12-7	25.00	1.2001	2	34456	C27H36F2O5	diflucortolone valerate	59198-70-8	25.00	1.1227	2
34286	C26H32N2O2	alcoid	357-56-2	25.00	1.0854	2	34457	C27H36O3	quingestanol acetate	3000-39-3	25.00	1.0337	2
34287	C26H32N2O6	Na-fmoc-Ne-boc-L-lysine	71989-26-9	25.00	1.1857	2	34462	C27H37FO6	valisone	2152-44-5	25.00	1.1174	2
34291	C26H34O7	fumidil	23110-15-8	25.00	1.1426	2	34467	C27H38O3	norethisterone enanthate	3836-23-5	25.00	1.0156	2
34294	C26H35N3O17	hepta-O-acetyl-cellobiosyl-b-azide	33012-50-9	25.00	1.3936	2	34473	C27H39NO2	veratramine	60-70-8	25.00	1.0054	2
34298	C26H36N2O9	blastomycin	522-70-3	25.00	1.2105	2	34474	C27H39NO3	jervine	469-59-0	25.00	1.0305	2
34299	C26H36O3	depofemin	313-06-4	25.00	1.0225	2	34475	C27H40	1,1-diphenylpentadecane	62155-15-1	25.00	0.9197	2
34300	C26H36O6	bufotalin	471-95-4	25.00	1.0985	2	34476	C27H40O3	hexadecyl 3-hydroxy-2-naphthalenecarboxylate	531-84-0	25.00	0.9984	2
34304	C26H38N2O3	4,4'-bis(heptyloxy)azoxybenzene	2635-26-9	25.00	1.0524	2	34477	C27H40O3	testosterone cyclopentylpropionate	58-20-8	25.00	0.9984	2
34308	C26H38O4	lupulon	468-28-0	25.00	1.0301	2	34478	C27H40O4	hydroxyprogesterone caproate	630-56-8	25.00	1.0232	2
34309	C26H38O4	4-methylumbelliferyl palmitate	17695-48-6	25.00	1.0301	2	34479	C27H41NO	funicolosin	11055-06-4	25.00	0.9631	2
34310	C26H38O4	gestronol caproate	1253-28-7	25.00	1.0301	2	34480	C27H41NO2	cyclopamine	4449-51-8	25.00	0.9885	2
34315	C26H40O3	testosterone heptanoate	315-37-7	25.00	0.9870	2	34483	C27H42ClNO2	benzethonium chloride	121-54-0	25.00	1.0228	2
34316	C26H42O4	diisononyl phthalate	28553-12-0	46.85	1.3773	2	34484	C27H42Cl2N2O6	chloramphenicol palmitate	530-43-8	25.00	1.1650	2
34317	C26H42O4	dinonyl phthalate	84-76-4	-33.15	1.1805	2	34485	C27H42O3	spirost-5-en-3-ol, (3beta,25R)	512-04-9	25.00	0.9818	2
34318	C26H42O4	isodecyl octyl phthalate	1330-96-7	25.00	0.9750	2	34486	C27H42O4	3-hydroxyspirostan-12-one, (3beta,5alpha,25R)	467-55-0	25.00	1.0063	2
34319.1	C26H42O4	heptyl undecyl phthalate	65185-88-8	-33.15	1.1652	2	34489	C27H43NO2	rubijervine	79-58-3	25.00	0.9723	2
34322	C26H43NO6	glycocholic acid	475-31-0	25.00	1.0571	2	34490	C27H43NO2	solanid-5-ene-3,18-diol, (3beta)	468-45-1	25.00	0.9723	2
34325	C26H45NO7S	taurocholic acid	81-24-3	25.00	1.0957	2	34491	C27H43NO2	spirosol-5-en-3-ol, (3beta,22alpha,25R)	126-17-0	25.00	0.9723	2
34326	C26H46	eicosylbenzene	2398-68-7	20.00	0.8545	1	34492	C27H43NO8	germine	508-65-6	25.00	1.1100	2
34327	C26H46	(1-butylhexadecyl)benzene	2400-04-6	20.00	0.8549	1	34493	C27H43NO8	4,9-epoxycevane-3a,4b,12,14,16b,17,20-heptol	124-98-1	25.00	1.1100	2
34328	C26H46	(1-ethyloctadecyl)benzene	2400-02-4	20.00	0.8546	1	34494	C27H43NO9	protoverine	76-45-9	25.00	1.1310	2
34329	C26H46	(1-methylnonadecyl)benzene	2398-66-5	20.00	0.8547	1	34495	C27H44	cholesta-3,5-diene	747-90-0	100.00	0.9250	1
34331	C26H46	(1-propylheptadecyl)benzene	2400-03-5	20.00	0.8546	1	34498	C27H44O	cholesta-5,7-dien-3-ol, (3beta)	434-16-2	25.00	0.9157	2
34334	C26H46O2	1,2-(didecyloxy)benzene	25934-47-8	25.00	0.9142	2	34499	C27H44O	cholesta-8,24-dien-3-ol, (3beta,5alpha)	128-33-6	25.00	0.9157	2
34338	C26H50	1,1-dicyclohexyltetradecane	55334-08-2	20.00	0.8735	1	34500	C27H44O	vitamin D3	67-97-0	25.00	0.9157	2
34339	C26H50	1-hexacosyne	61847-86-7	25.00	0.8355	2	34501	C27H44O	4-cholesten-3-one	601-57-0	25.00	0.9157	2
34344	C26H50O4	ethylene glycol didodecanoate	624-04-4	25.00	0.9097	2	34502	C27H44O	cholest-5-en-3-one	601-54-7	25.00	0.9157	2
34348	C26H52	eicosylcyclohexane	4443-55-4	20.00	0.8318	1	34504	C27H44O2	1-hydroxycholecalciferol	57651-82-8	25.00	0.9412	2
34349	C26H52	1-hexacosene	18835-33-1	25.00	0.8230	2	34506	C27H44O2	7-oxocholesterol	566-28-9	25.00	0.9412	2
34351	C26H52	9-cyclohexyleicosane	4443-61-2	25.00	0.8230	2	34507	C27H44O3	spirostan-3-ol, (3beta,5alpha,25R)	77-60-1	25.00	0.9660	2
34352	C26H52Br2	1,1-dibromohexacosane	62168-05-2	25.00	1.0864	2	34508	C27H44O3	spirostan-3-ol, (3beta,5beta,25R)	126-18-1	25.00	0.9660	2
34353	C26H52Cl2	1,1-dichlorohexacosane	62017-28-1	25.00	0.9123	2	34509	C27H44O3	spirostan-3-ol, (3beta,5beta,25S)	126-19-2	25.00	0.9660	2
34354	C26H52F2	1,1-difluorohexacosane	62127-15-5	25.00	0.8700	2	34510	C27H44O3	1a,25-dihydroxycholecalciferol	32222-06-3	25.00	0.9660	2
34355	C26H52I2	1,1-diiodohexacosane	66291-94-9	25.00	1.2365	2	34513	C27H44O4	spirostan-2,3-diol, (2alpha,3beta,5alpha,25R)	511-96-6	25.00	0.9902	2
34356	C26H52O2	hexacosanoic acid	506-46-7	100.00	0.8198	1	34514	C27H44O5	spirostan-2,3,15-triol, (2alpha,3beta,5alpha*	511-34-2	25.00	1.0138	2
34357	C26H52O2	hexadecyl neodecanoate	67749-11-5	25.00	0.8731	2	34516	C27H44O7	20-hydroxyecdysone	5289-74-7	25.00	1.0592	2
34358	C26H52O2	octyl stearate	22047-49-0	25.00	0.8731	2	34517	C27H44O7	inokosterone	15130-85-5	25.00	1.0592	2
34359	C26H52O6	tetraethylene glycol monostearate	106-07-0	15.00	1.1285	1	34518	C27H45Cl	cholesteryl chloride	910-31-6	25.00	0.9288	2
34360	C26H53Br	1-bromohexacosane	4276-51-1	25.00	0.9532	2	34519	C27H45NO2	spirosolan-3-ol, (3beta,5alpha,22beta,25S)	77-59-8	25.00	0.9568	2
34361	C26H53Cl	1-chlorohexacosane	56134-53-3	25.00	0.8631	2	34520	C27H46	11-phenyl-10-heneicosene	6703-78-2	20.00	0.8638	1
34362	C26H53F	1-fluorohexacosane	62126-83-4	25.00	0.8409	2	34521	C27H46	cholest-2-ene	15910-23-3	25.00	0.8753	2
34363	C26H53I	1-iodohexacosane	52644-81-2	25.00	1.0345	2	34522	C27H46	cholest-5-ene	570-74-1	25.00	0.8753	2
34364	C26H54	hexacosane	630-01-3	40.00	0.9270	1	34526	C27H46O	cholest-4-en-3-ol, (3beta)	517-10-2	25.00	0.9011	2
34365	C26H54	5-butyldocosane	55282-16-1	20.00	0.8058	1	34527	C27H46O	cholest-5-en-3-ol, (3alpha)	474-77-1	25.00	0.9011	2
34368	C26H54	11-butyldocosane	13475-76-8	20.00	0.8041	1	34528	C27H46O	cholesterol	57-88-5	20.00	1.0670	1
34372	C26H54	3-ethyltetracosane	55282-17-2	40.00	0.7949	1	34529	C27H46O	5a-cholestan-3-one	15600-08-5	25.00	0.9011	2
34373	C26H54O	1-hexacosanol	506-52-5	25.00	0.8361	2	34530	C27H46O	5a-cholest-7-en-3b-ol	80-99-9	25.00	0.9011	2
34377	C26H55N	hexacosylamine	14130-10-0	25.00	0.8283	2	34532	C27H46O2	6-ketocholestanol	1175-06-0	25.00	0.9263	2
34378	C26H55N	methylpentacosylamine	66291-92-7	25.00	0.8283	2	34534	C27H46O3	3',4'-(didecyloxy)benzaldehyde	118468-34-1	25.00	0.9508	2
34379	C26H55N	ethyltetracosylamine	66291-91-6	25.00	0.8283	2	34536	C27H48	heneicosylbenzene	40775-09-5	20.00	0.8545	1
34380	C26H55N	ditridecylamine	5910-75-8	25.00	0.8283	2	34538	C27H48	cholestane, (5alpha)	481-21-0	88.00	0.9090	1
34381	C26H55N	dimethyltetracosylamine	66291-90-5	25.00	0.8283	2	34539	C27H48	cholestane, (5beta)	481-20-9	87.00	0.9119	1
34382	C26H55N	diethyldocosylamine	66291-89-2	25.00	0.8283	2	34540	C27H48O	cholestan-3-ol, (3alpha,5alpha)	516-95-0	25.00	0.8872	2
34383	C26H56BrN	didodecyldimethylammonium bromide	3282-73-3	25.00	0.9534	2	34541	C27H48O	cholestan-3-ol, (3beta,5beta)	360-68-9	25.00	0.8872	2
34388	C27H18O	9-benzhydrylidene-10-anthrone	667-91-4	25.00	1.1833	2	34542	C27H48O	cholestanol	80-97-7	25.00	0.8872	2
34389	C27H18O2	p-naphtholbenzein	145-50-6	25.00	1.2136	2	34547	C27H52	1,1-dicyclohexylpentadecane	62155-23-1	25.00	0.8362	2
34390	C27H18O3	1,3,5-tribenzoylbenzene	25871-69-6	25.00	1.2429	2	34548	C27H52	1-heptacosyne	61847-87-8	25.00	0.8362	2
34391	C27H20F6N2O2	2,2-bis[4-(4-aminophenoxy)phenyl]-hexafluoro*	69563-88-8	25.00	1.3455	2	34549	C27H54	docosylcyclopentane	62016-55-1	20.00	0.8295	1
34392	C27H20O12	collinomycin	27267-69-2	25.00	1.4355	2	34550	C27H54	heneicosylcyclohexane	26718-82-1	25.00	0.8242	2
34394	C27H20O3	bis-(4-hydroxy-1-naphtyl)phenylmethanol	6948-88-5	25.00	1.2144	2	34552	C27H54	1-heptacosene	15306-27-1	25.00	0.8242	2
34403	C27H24O3	1,3,5-tris(4-methoxyphenyl)benzene	7509-20-8	25.00	1.1621	2	34553	C27H54Br2	1,1-dibromoheptacosane	62168-06-3	25.00	1.0787	2
34408	C27H26O9	gilvocarcin V	77879-90-4	25.00	1.2881	2	34554	C27H54Cl2	1,1-dichloroheptacosane	62017-29-2	25.00	0.9104	2
34413	C27H28Br2O5S	bromothymol blue	76-59-5	25.00	1.4668	2	34555	C27H54F2	1,1-difluoroheptacosane	62127-16-6	25.00	0.8695	2
34414	C27H28N2O5	3,3'-carbonylbis(7-diethylaminocoumarin)	63226-13-1	25.00	1.2153	2	34556	C27H54I2	1,1-diiodoheptacosane	66291-84-7	25.00	1.2244	2
34415	C27H28O4	1,5-anhydro-3,4,6-tri-O-benzyl-2-deoxy-D-ara*	55628-54-1	25.00	1.1417	2	34557	C27H54O	14-heptacosanone	542-50-7	81.00	0.7986	1
34419	C27H29NO10	daunomycin	20830-81-3	25.00	1.2953	2	34558	C27H54O2	methyl hexacosanoate	5802-82-4	25.00	0.8725	2
34424	C27H30O5S	thymol blue	76-61-9	25.00	1.1812	2	34559	C27H55Br	1-bromoheptacosane	62108-46-7	25.00	0.9499	2
34425	C27H30O6	cyclotriveratrylene	1180-60-5	25.00	1.1700	2	34560	C27H55Cl	1-chloroheptacosane	62016-79-9	25.00	0.8628	2
34426	C27H30O6	isoprenyl chalcone	64506-49-6	25.00	1.1700	2	34561	C27H55F	1-fluoroheptacosane	62108-81-0	25.00	0.8414	2
34427	C27H30O8	daphnetoxin	28164-88-7	25.00	1.2176	2	34562	C27H55I	1-iodoheptacosane	62127-57-5	25.00	1.0285	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
34563	C27H56	heptacosane	593-49-7	59.00	0.9138	2	34714	C28H54O3	tetradecanoic anhydride	626-29-9	70.00	0.8502	1
34566	C27H57N	heptacosylamine	14130-11-1	25.00	0.8292	2	34716	C28H56	tricosylcyclopentane	62016-56-2	25.00	0.8252	2
34567	C27H57N	methylhexacosylamine	66291-81-4	25.00	0.8292	2	34717	C28H56	docosylcyclohexane	61828-07-7	20.00	0.8334	1
34568	C27H57N	ethylpentacosylamine	66291-80-3	25.00	0.8292	2	34718	C28H56	1-octacosene	18835-34-2	25.00	0.8252	2
34569	C27H57N	dimethylpentacosylamine	66291-79-0	25.00	0.8292	2	34719	C28H56Br2	1,1-dibromooctacosane	62168-07-4	25.00	1.0716	2
34570	C27H57N	diethyltricosylamine	66291-86-9	25.00	0.8292	2	34720	C28H56Cl2	1,1-dichlorooctacosane	62017-30-5	25.00	0.9086	2
34571	C27H57N	trinonylamine	2044-22-6	25.00	0.8292	2	34721	C28H56F2	1,1-difluorooctacosane	62127-17-7	25.00	0.8690	2
34572	C27H58BrN	trioctylpropylammonium bromide	24298-17-7	25.00	0.9502	2	34722	C28H56I2	1,1-diiodooctacosane	66291-74-5	25.00	1.2130	2
34579	C28H14N2O4	6,15-dihydro-5,9,14,18-anthrazinetetrone	81-77-6	25.00	1.3929	2	34723	C28H56O2	octacosanoic acid	506-48-9	100.00	0.8191	1
34581	C28H16	dibenzo(h,rst)pentaphene	192-47-2	25.00	1.1919	2	34728	C28H57Br	1-bromooctacosane	16331-21-8	25.00	0.9468	2
34582	C28H16	benzo(a)naphtho(8,1,2-cde)naphthacene	192-70-1	25.00	1.1919	2	34729	C28H57Cl	1-chlorooctacosane	62016-60-2	25.00	0.8625	2
34583	C28H16O2	bianthrone	434-85-5	25.00	1.2526	2	34730	C28H57F	1-fluorooctacosane	62108-82-1	25.00	0.8418	2
34587	C28H18	9,9'-bianthracene	1055-23-8	25.00	1.1633	2	34731	C28H57I	1-iodooctacosane	62154-80-7	25.00	1.0229	2
34594	C28H20O	tetraphenylfuran	1056-77-5	25.00	1.1664	2	34732	C28H58	octacosane	630-02-4	61.20	0.9119	2
34595	C28H22	9,10-dibenzylanthracene	3613-42-1	16.00	1.1787	1	34733	C28H58	2,2,4,10,12,12-hexamethyl-7-(3,5,5-trimethyl*	3035-75-4	20.00	0.8043	1
34596	C28H22	1,1,4,4-tetraphenyl-1,3-butadiene	1450-63-1	25.00	1.1108	2	34737	C28H58O	1-octacosanol	557-61-9	25.00	0.8373	2
34598	C28H22O3	alpha-phenylbenzeneacetic anhydride	1760-46-9	25.00	1.1971	2	34738	C28H59N	octacosylamine	14130-12-2	25.00	0.8300	2
34599	C28H23NO4	(S)-N-fmoc-2-naphthylalanine	112883-43-9	25.00	1.2361	2	34739	C28H59N	methylheptacosylamine	66291-78-9	25.00	0.8300	2
34600	C28H23NO4	(R)-N-fmoc-2-naphthylalanine	138774-94-4	25.00	1.2361	2	34740	C28H59N	ethylhexacosylamine	66291-77-8	25.00	0.8300	2
34603	C28H24O4	calix[4]arene	74568-07-3	25.00	1.1985	2	34741	C28H59N	ditetradecylamine	17361-44-3	25.00	0.8300	2
34605	C28H27ClF5NO	penfluridol	26864-56-2	25.00	1.2425	2	34742	C28H59N	dimethylhexacosylamine	66291-76-7	25.00	0.8300	2
34608	C28H28I6N4O8	5,5'-(octamethylenebis(carbonylimino)bis(N-m*	5591-33-3	25.00	2.2471	2	34743	C28H59N	diethyltetracosylamine	66291-75-6	25.00	0.8300	2
34609	C28H28N2O4S2	(1R,2R)-N,N'-di-p-toluenesulfonyl-1,2-diphen*	121758-19-8	25.00	1.2643	2	34744	C28H60BrN	tetraheptylammonium bromide	4368-51-8	25.00	0.9472	2
34610	C28H28N2O4S2	(1S,2S)-N,N'-di-p-toluenesulfonyl-1,2-diphen*	170709-41-8	25.00	1.2643	2	34745	C28H60ClN	tetraheptylammonium chloride	10247-90-2	25.00	0.8658	2
34612	C28H28O11	cleistanthin A	25047-48-7	25.00	1.3134	2	34746	C28H60IN	tetraheptylammonium iodide	3535-83-9	25.00	1.0208	2
34617	C28H29F2N3O	pimozide	2062-78-4	25.00	1.1763	2	34749	C29H20O	tetraphenylcyclopentadienone	479-33-4	25.00	1.1768	2
34622	C28H30N2O3S2	Styryl 7	114720-33-1	25.00	1.2202	2	34750	C29H22	1,2,3,4-tetraphenyl-1,3-cyclopentadiene	15570-45-3	25.00	1.1223	2
34623	C28H30O4	thymolphthalein	125-20-2	25.00	1.1293	2	34752	C29H24N4O8	niceritrol	5868-05-3	25.00	1.3877	2
34624	C28H31ClN2O7	rhodamine 6G perchlorate	13161-28-9	25.00	1.2679	2	34755	C29H30N2O6	Ne-fmoc-Na-cbz-L-lysine	105751-18-6	25.00	1.2307	2
34625	C28H31FN4O	astemizole	68844-77-9	25.00	1.1587	2	34758	C29H31F2N3O	1-phenyl-4-oxo-8-(4,4-bis(4-fluorophenyl)but*	1841-19-6	25.00	1.1634	2
34626	C28H31NO10	menogarol	71628-96-1	25.00	1.2782	2	34764	C29H32O13	EPE	33419-42-0	25.00	1.3132	2
34628	C28H32ClN2O3	rhodamine b	81-88-9	25.00	1.1699	2	34766	C29H33N4O10	mucomycin	992-21-2	25.00	1.3197	2
34632	C28H32FNO6	dexamethasone isonicotinate	2265-64-7	25.00	1.1972	2	34769	C29H35ClN2O4	1,1',3,3,3',3'-hexamethylindotricarbocyanine*	16595-48-5	25.00	1.1699	2
34633	C28H32NO7	cytochalasin E	36011-19-5	25.00	1.2023	2	34776	C29H36O4	deladroxone	24356-94-3	25.00	1.0792	2
34634	C28H32N2	N,N'-terephthalylidene-bis(4-butylaniline)	29743-21-3	25.00	1.0539	2	34777	C29H36O6	clinofibrate	30299-08-2	25.00	1.1258	2
34635	C28H32O4Si4	2,4,6,8-tetramethyl-2,4,6,8-tetraphenylcyclo*	77-63-4	20.00	1.1183	1	34778	C29H37IN2O2	3,3'-dihexyloxacarbocyanine iodide	53213-82-4	25.00	1.2837	2
34640	C28H34N2O3	bitrex	3734-33-6	25.00	1.1105	2	34779	C29H37NO5	cytochalasin B	14930-96-2	25.00	1.1153	2
34641	C28H34O5	prostaglandin vii	---	25.00	1.1129	2	34780	C29H38ClFO8	fluderma	2825-60-7	25.00	1.2000	2
34643	C28H34O15	hesperidin	520-26-3	25.00	1.3244	2	34781	C29H38F3N3O2S	prolixin enanthate	2746-81-8	25.00	1.1661	2
34645	C28H36O3	tingenone	50802-21-6	25.00	1.0445	2	34786	C29H39NO9	homoharringtonine	26833-87-4	25.00	1.1823	2
34647	C28H36O11	bruceantin	41451-75-6	25.00	1.2257	2	34787	C29H40NO4	jervine-3-acetate	14788-78-4	25.00	1.0655	2
34648	C28H37ClO7	alclometasone dipropionate	66734-13-2	25.00	1.1661	2	34788	C29H40N2O4	6',7',10,11-tetramethoxyemetan	483-18-1	25.00	1.0870	2
34649	C28H37ClO7	aldecin	5534-09-8	25.00	1.1661	2	34789	C29H40N2O9	geldanamycin	30562-34-6	25.00	1.1922	2
34651	C28H37FO7	betamethasone dipropionate	5593-20-4	25.00	1.1481	2	34790	C29H41NO4	temgesic	52485-79-7	25.00	1.0570	2
34653	C28H37NO9	isoharringtonine	26833-86-3	25.00	1.1943	2	34791	C29H41O2	galvinoxyl free radical	2370-18-5	25.00	0.9875	2
34654	C28H38O4	andordrin dipropionate	56470-64-5	25.00	1.0511	2	34792	C29H42N6O9	amicetin	17650-86-1	25.00	1.2467	2
34657	C28H38O19	sucrose octaacetate	126-14-7	16.00	1.2700	1	34793	C29H42O9	helveticoside	630-64-8	25.00	1.1356	2
34658	C28H38O19	a-D-cellobiose octaacetate	5346-90-7	25.00	1.3531	2	34794	C29H42O10	convallatoxin	508-75-8	25.00	1.1558	2
34659	C28H38N2O4	7',10,11-trimethoxyemetan-6'-ol	483-17-0	25.00	1.0959	2	34795	C29H42O11	a-antiarbin	23605-05-2	25.00	1.1756	2
34666	C28H40N2O9	dimidin	642-15-9	25.00	1.1853	2	34797	C29H44O2	4,4'-methylenebis(2,6-di-tert-butylphenol)	118-82-1	25.00	0.9641	2
34668	C28H40O6	4',4pi(5pi)-di-tert-butyldibenzo-18-crown-6	29471-17-8	25.00	1.0802	2	34798	C29H44O10	convallatoxol	3253-62-1	25.00	1.1385	2
34671	C28H40O10	dibenzo-30-crown-10	17455-25-3	25.00	1.1666	2	34799	C29H44O10	3b(a-L-rhamnopyranoside)-5,11a,14b-trihydrox*	6869-51-8	25.00	1.1385	2
34674	C28H41N3O2	telocidin B	11032-05-6	25.00	1.0447	2	34800	C29H44O12	ouabain	630-60-4	25.00	1.1772	2
34675	C28H41N3O3	2-di(N-methyl-N-phenyl-tert-butyl-carbamoylm*	126-27-2	25.00	1.0679	2	34801	C29H46O2	7-dehydrocholesterol acetate	1059-86-5	25.00	0.9492	2
34676	C28H41N3O3	tiropramide	55837-29-1	25.00	1.0679	2	34802	C29H48NO3	muldamine	36069-45-1	25.00	0.9793	2
34677	C28H42	1,1-diphenylhexadecane	13456-23-0	25.00	0.9171	2	34803	C29H47NO8	sabadine	124-80-1	25.00	1.0930	2
34678	C28H42O	ergosta-5,7,9(11),22-tetraen-3-ol, (3beta,22*	516-85-8	25.00	0.9431	2	34805	C29H48O	stigmasta-5,22-dien-3-ol, (3beta,22E)	83-48-7	25.00	0.9112	2
34681	C28H43NO6	borrelidin	7184-60-3	25.00	1.0755	2	34806	C29H48O	stigmasta-5,7-dien-3-ol, (3beta)	521-04-0	25.00	0.9112	2
34682	C28H44O	ergosta-5,7,22-trien-3-ol, (3beta,10alpha,22*	128-27-8	25.00	0.9279	2	34807	C29H48O2	cholesteryl acetate	604-35-3	25.00	0.9350	2
34683	C28H44O	ergosta-5,7,22-trien-3-ol, (3beta,22E)	57-87-4	25.00	0.9279	2	34808	C29H50O	stigmast-5-en-3-ol, (3beta)	83-46-5	140.00	1.2773	2
34684	C28H44O	ergosta-5,7,22-trien-3-ol, (3beta,9beta,10al*	474-69-1	25.00	0.9279	2	34812	C29H52	tricosylbenzene	61828-04-4	20.00	0.8544	1
34686	C28H44O	vitamin D2	50-14-6	25.00	0.9279	2	34813	C29H52O	stigmastan-3-ol, (3beta,5alpha)	83-45-4	25.00	0.8849	2
34687	C28H44O3	norandrostenolone decanoate	360-70-3	25.00	0.9771	2	34814	C29H56	1-nonacosyne	61847-89-0	25.00	0.8374	2
34689	C28H45ClO2	cholesteryl chloroformate	7144-08-3	25.00	0.9875	2	34815	C29H58	tetracosylcyclopentane	62016-57-3	25.00	0.8262	2
34690	C28H46O	dihydrotachysterol	67-96-9	25.00	0.9134	2	34816	C29H58	tricosylcyclohexane	61828-08-8	20.00	0.8341	1
34691	C28H46O4	diisodecyl phthalate	26761-40-0	-45.56	1.1792	2	34817	C29H58	1-nonacosene	18835-35-3	25.00	0.8262	2
34692	C28H46O4	didecyl phthalate	84-77-5	-53.00	1.1479	2	34818	C29H58Br2	1,1-dibrononanocosane	62168-08-5	25.00	1.0649	2
34694	C28H47NO4S	thiamutilin	55297-95-5	25.00	1.0337	2	34819	C29H58Cl2	1,1-dichlorononanocosane	62017-31-6	25.00	0.9069	2
34695	C28H48O	calusterone	17021-26-0	25.00	0.8994	2	34820	C29H58F2	1,1-difluorononanocosane	62127-18-8	25.00	0.8685	2
34696	C28H48O	ergost-5-en-3-ol, (3beta,24R)	474-62-4	25.00	0.8994	2	34821	C29H58I2	1,1-diiodononanocosane	66213-91-0	25.00	1.2023	2
34697	C28H48O	ergost-7-en-3-ol, (3beta,5alpha)	516-78-9	25.00	0.8994	2	34823	C29H59Br	1-bromononacosane	62108-47-8	25.00	0.9439	2
34698	C28H48O	ergost-8(14)-en-3-ol, (3beta,5alpha)	632-32-6	25.00	0.8994	2	34824	C29H59Cl	1-chlorononacosane	62016-81-3	25.00	0.8623	2
34703	C28H48O3	3',4'-(didecyloxy)acetophenone	118468-33-0	25.00	0.9474	2	34825	C29H59F	1-fluorononacosane	62108-83-2	25.00	0.8422	2
34704	C28H50	docosylbenzene	5634-22-0	20.00	0.8544	1	34826	C29H59I	1-iodononacosane	62154-81-8	25.00	1.0177	2
34705	C28H50	ergostane, (5alpha)	511-20-6	25.00	0.8615	2	34827	C29H60	nonacosane	630-03-5	63.70	0.9116	2
34706	C28H50	ergostane, (5beta)	511-21-7	25.00	0.8615	2	34828	C29H60O	1-nonacosanol	6624-76-6	25.00	0.8379	2
34707	C28H50N2O4	carpaine	3463-92-1	25.00	0.9976	2	34829	C29H61N	nonacosylamine	66213-93-2	25.00	0.8308	2
34708	C28H50O	ergostan-3-ol, (3beta,5alpha)	6538-02-9	25.00	0.8860	2	34830	C29H61N	methyloctacosylamine	66213-97-6	25.00	0.8308	2
34712	C28H54	1,1-dicyclohexylhexadecane	13287-09-7	25.00	0.8368	2	34831	C29H61N	ethylheptacosylamine	66213-96-5	25.00	0.8308	2
34713	C28H54	1-octacosyne	61847-88-9	25.00	0.8368	2	34832	C29H61N	dimethylheptacosylamine	66213-95-4	25.00	0.8308	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
34833	C29H61N	diethylpentacosylamine	66213-94-3	25.00	0.8308	2	34982	C31H30O4	(-)-taddol	93379-48-7	25.00	1.1565	2
34838	C30H16Cl2	1,8-dichloro-9,10-bis(phenylethynyl) anthrac*	51749-83-8	25.00	1.2972	2	34985	C31H32N4O2	benzitramide	15301-48-1	25.00	1.1780	2
34839	C30H17Cl	1-chloro-9,10-bis(phenylethynyl)anthracene	41105-35-5	25.00	1.2431	2	34989	C31H33N3O12	carzinophilin A	1403-29-8	25.00	1.3476	2
34840	C30H17Cl	2-chloro-9,10-bis(phenylethynyl)anthracene	41105-36-6	25.00	1.2431	2	34991	C31H35N3O4S	penicillin G benethamine	751-84-8	25.00	1.2013	2
34842	C30H18	9,10-bis(phenylethynyl)anthracene	10075-85-1	25.00	1.1846	2	34992	C31H36N2O8	raunescine	117-73-7	25.00	1.2237	2
34844	C30H20Cl2O2	(+)-1,6-bis(2-chlorophenyl)-1,6-diphenyl-2,4*	86436-19-3	25.00	1.2921	2	34993	C31H36N2O11	streptonivicin	303-81-1	25.00	1.3450	1
34845	C30H20Cl2O2	(-)-1,6-bis(2-chlorophenyl)-1,6-diphenyl-2,4*	86436-20-6	25.00	1.2921	2	34995	C31H37IN2O2	dicyanine A	20591-23-5	25.00	1.2946	2
34848	C30H22	p-quinquephenyl	3073-05-0	25.00	1.1333	2	34998	C31H38O11	baccatine iii	27548-93-2	25.00	1.2252	2
34849	C30H22O12	luteoskyrin	21884-44-6	25.00	1.4188	2	34999	C31H39N5O5	ergocornine	564-36-3	25.00	1.1929	2
34859	C30H26N2O13	fluorexon	1461-15-0	25.00	1.4244	2	35000	C31H39N5O5	ergocorninine	564-37-4	25.00	1.1929	2
34861	C30H26O6	viriditoxin	35483-50-2	25.00	1.2397	2	35006	C31H42O10	3'-o-acetylcalotropin	36573-63-4	25.00	1.1699	2
34869	C30H28O4	25-ethoxycalix[4]arene	138240-24-1	25.00	1.1693	2	35007	C31H44O8	meproscillarin	33396-37-1	25.00	1.1139	2
34876	C30H30O8	gossypol	303-45-7	25.00	1.2391	2	35009	C31H46O10	verodoxin	6875-10-1	25.00	1.1364	2
34877	C30H30O8	(+)-gossypol	20300-26-9	25.00	1.2391	2	35012	C31H48O6	fusidine	6990-06-3	25.00	1.0422	2
34878	C30H30O8	racemic-gossypol	40112-23-0	25.00	1.2391	2	35013	C31H51NO9	rosamicin	35834-26-5	25.00	1.0968	2
34879	C30H31NO10	viridicatumtoxin	39277-41-3	25.00	1.2899	2	35017	C31H54O3	3',4'-(didodecyloxy)benzaldehyde	117241-25-5	25.00	0.9383	2
34881	C30H33ClO4	4-pentylphenyl 2-chloro-4-(4-pentylbenzoyloxy*	41161-53-9	25.00	1.1554	2	35018	C31H55N3O6	enocitabine	55726-47-1	25.00	1.0476	2
34884	C30H34O13	picrotoxin	124-87-8	25.00	1.2970	2	35019	C31H56	pentacosylbenzene	61828-06-6	20.00	0.8544	1
34885	C30H35F2N3O	lidoflazine	3416-26-0	25.00	1.1322	2	35020	C31H56	13-phenylpentacosane	6006-90-2	20.00	0.8537	1
34891	C30H37NO6	zygosporin A	22144-77-0	25.00	1.1457	2	35023	C31H60	1-hentriacontyne	61847-91-4	25.00	0.8385	2
34893	C30H37N5O5	ergosine	561-94-4	25.00	1.2052	2	35025	C31H62	hexacosylcyclopentane	62016-58-4	20.00	0.8326	1
34896	C30H39NO5	paspalin	53760-19-3	25.00	1.1057	2	35026	C31H62	pentacosylcyclohexane	61828-10-2	20.00	0.8353	1
34898	C30H40O2	beta-citraurin	650-69-1	25.00	1.0065	2	35027	C31H62	1-hentriacontene	18435-54-6	20.00	0.8340	2
34899	C30H40O4	pristimerin	1258-84-0	25.00	1.0534	2	35029	C31H62Br2	1,1-dibromohentriacontane	62168-10-9	25.00	1.0527	2
34900	C30H40O8	4',4pi(5pi)-divaleryldibenzo-18-crown-6	74966-25-9	25.00	1.1404	2	35030	C31H62Cl2	1,1-dichlorohentriacontane	62017-33-8	25.00	0.9038	2
34901	C30H40O10	altoside	73309-75-8	25.00	1.1808	2	35031	C31H62F2	1,1-difluorohentriacontane	62127-20-2	25.00	0.8677	2
34902	C30H41FO7	aristospan	5611-51-8	25.00	1.1277	2	35032	C31H62I2	1,1-diiodohentriacontane	66214-07-1	25.00	1.1827	2
34904	C30H42N6O4S	physostigmine sulfate	64-47-1	25.00	1.1865	2	35033	C31H62O	16-hentriacontanone	502-73-8	91.00	0.7947	1
34906	C30H42O7	stigmatellin	91682-96-1	25.00	1.1022	2	35034	C31H63Br	1-bromohentriacontane	62108-48-9	25.00	0.9385	2
34907	C30H42O8	proscillaridin	466-06-8	25.00	1.1229	2	35035	C31H63Cl	1-chlorohentriacontane	62016-83-5	25.00	0.8618	2
34909	C30H44O7	elatericin A	3877-86-9	25.00	1.0855	2	35036	C31H63F	1-fluorohentriacontane	62108-85-4	25.00	0.8430	2
34910	C30H44O9	cymarin	508-77-0	25.00	1.1262	2	35037	C31H63I	1-iodohentriacontane	57094-91-4	25.00	1.0081	2
34911	C30H44O9	encordin	1182-87-2	25.00	1.1262	2	35039	C31H64	hentriacontane	630-04-6	68.00	0.7810	1
34912	C30H45ClO6	senegenin	2469-34-3	25.00	1.0916	2	35041	C31H65N	hentriacontylamine	66214-08-2	25.00	0.8323	2
34914	C30H46O4	18-b-glycyrrhetinic acid	471-53-4	25.00	1.0055	2	35042	C31H65N	methyltriacontylamine	66214-12-8	25.00	0.8323	2
34915	C30H46O4	b-glycyrrhetinic acid	1449-05-4	25.00	1.0055	2	35043	C31H65N	ethylnonacosylamine	66214-11-7	25.00	0.8323	2
34916	C30H46O4	gypsogenin	639-14-5	25.00	1.0055	2	35044	C31H65N	dimethylnonacosylamine	66214-10-6	25.00	0.8323	2
34917	C30H46O5	quillaic acid	631-01-6	25.00	1.0273	2	35045	C31H65N	diethylheptacosylamine	66214-09-3	25.00	0.8323	2
34918	C30H46O5	quinovic acid	465-74-7	25.00	1.0273	2	35060	C32H20O3	tetraphenylphthalic anhydride	4741-53-1	25.00	1.2564	2
34919	C30H46O9	strospeside	595-21-1	25.00	1.1098	2	35066	C32H26	pentaphenylethane	19112-42-6	25.00	1.1086	2
34920	C30H48O3	oleanolic acid	508-02-1	25.00	0.9686	2	35068	C32H30N2O3	rhodamine 101 inner salt	41175-43-3	25.00	1.1859	2
34921	C30H48O3	ursolic acid	77-52-1	25.00	0.9686	2	35069	C32H30N2O4	cochliodinol	11051-88-0	25.00	1.2081	2
34922	C30H48O4	hederagenin	465-99-6	25.00	0.9907	2	35070	C32H30O14	ergochrome AA (2,2')-5b,6a,10b-5',6'a,10'b	35287-69-5	25.00	1.3675	2
34922.1	C30H48O6	tri-n-heptyl trimellitate	1528-48-9	65.85	1.7160	2	35071	C32H32O8	tetramethylcalix[4]resorcinolarene	74708-10-4	25.00	1.2313	2
34925	C30H50O	lanosta-8,24-dien-3-ol, (3beta)	79-63-0	25.00	0.9093	2	35072	C32H32O13S	ETP	29767-20-2	25.00	1.3513	2
34926	C30H50O	lup-20(29)-en-3-ol, (3beta)	545-47-1	218.00	0.9457	1	35073	C32H32O14	chartreusin	6377-18-0	25.00	1.3458	2
34927	C30H50O	olean-12-en-3-ol, (3beta)	559-70-6	25.00	0.9093	2	35075	C32H36N2O5	chaetoglobosin A	50335-03-0	25.00	1.1696	2
34928	C30H50O	urs-12-en-3-ol, (3beta)	638-95-9	25.00	0.9093	2	35076	C32H38N2O8	deserpidine	131-01-1	25.00	1.2110	2
34929	C30H50O	alpha1-sitosterol	474-40-8	25.00	0.9093	2	35078	C32H40BrN5O5	bromocriptine	25614-03-3	25.00	1.3025	2
34930	C30H50O2	lup-20(29)-ene-3,28-diol, (3beta)	473-98-3	25.00	0.9322	2	35079	C32H40O4Si4	2,4,6,8-tetraethyl-2,4,6,8-tetraphenylcyclot*	18758-34-4	20.00	1.1000	1
34931	C30H50O2	cholesteryl propionate	633-31-8	25.00	0.9322	2	35080	C32H41N5O5	ergocryptine	511-09-1	25.00	1.1815	2
34932	C30H50O4	diundecyl phthalate	3648-20-2	2.00	1.1298	2	35081	C32H41NO2	terfenadine	50679-08-8	25.00	1.0403	2
34934	C30H51N7O7	septacidin	62362-59-8	25.00	1.1573	2	35083	C32H44N2O8	lappaconitine	32854-75-4	25.00	1.1581	2
34936	C30H54	tetracosylbenzene	61828-05-5	20.00	0.8544	1	35084	C32H44O12	scilliroside	507-60-8	25.00	1.1963	2
34937	C30H54O2	1,2-(didodecyloxy)benzene	42244-53-1	25.00	0.9063	2	35087	C32H45NO10	picraconitine	466-24-0	25.00	1.1692	2
34940	C30H58	1-triacontyne	61847-90-3	25.00	0.8380	2	35094	C32H48O9	oleandrin	465-16-7	25.00	1.1090	2
34942	C30H58O4	ethylene glycol ditetradecanoate	627-84-9	80.00	0.8600	1	35095	C32H49NO9	cevadine	62-59-9	25.00	1.1191	2
34944	C30H58O4S	didodecyl 3,3'-thiodipropionate	123-28-4	25.00	0.9150	1	35101	C32H56O3	3',4'-(didodecyloxy)acetophenone	---	25.00	0.9357	2
34946	C30H60	pentacosylcyclopentane	62016-74-4	25.00	0.8271	2	35105	C32H58	hexacosylbenzene	13024-80-1	20.00	0.8543	1
34947	C30H60	tetracosylcyclohexane	61828-09-9	20.00	0.8347	1	35107	C32H58N2O8S	chapso	82473-24-3	25.00	1.0812	2
34948	C30H60	1-triacontene	18435-53-5	62.40	0.9230	2	35108	C32H62	1-dotriacontyne	61847-92-5	25.00	0.8390	2
34949	C30H60Br2	1,1-dibromotriacontane	62168-09-6	25.00	1.0586	2	35109	C32H62O3	hexadecanoic anhydride	623-65-4	83.00	0.8388	1
34950	C30H60Cl2	1,1-dichlorotriacontane	62017-32-7	25.00	0.9053	2	35111	C32H64	heptacosylcyclopentane	61827-90-5	25.00	0.8288	2
34951	C30H60F2	1,1-difluorotriacontane	62127-19-9	25.00	0.8681	2	35112	C32H64	hexacosylcyclohexane	61828-11-3	20.00	0.8359	1
34952	C30H60I2	1,1-diiodotriacontane	66213-98-7	25.00	1.1922	2	35113	C32H64	1-dotriacontene	18435-55-7	25.00	0.8288	2
34953	C30H60I3N3O3	gallamine triethiodide	65-29-2	25.00	1.4288	2	35114	C32H64Br2	1,1-dibromodotriacontane	62168-11-0	25.00	1.0471	2
34954	C30H60O2	triacontanoic acid	506-50-3	25.00	0.8708	2	35115	C32H64Cl2	1,1-dichlorodotriacontane	62017-34-9	25.00	0.9024	2
34957	C30H61Br	1-bromotriacontane	4209-22-7	25.00	0.9411	2	35116	C32H64F2	1,1-difluorodotriacontane	62127-21-3	25.00	0.8673	2
34958	C30H61Cl	1-chlorotriacontane	62016-82-4	25.00	0.8620	2	35117	C32H64I2	1,1-diiododotriacontane	66214-13-9	25.00	1.1737	2
34959	C30H61F	1-fluorotriacontane	62108-84-3	25.00	0.8426	2	35118	C32H64O2	hexadecyl hexadecanoate	540-10-3	20.00	0.9890	1
34961	C30H62	triacontane	638-68-6	65.50	0.9133	2	35119	C32H64O2	tetradecyl stearate	17661-50-6	25.00	0.8698	2
34962	C30H62	2,6,10,15,19,23-hexamethyltetracosane	111-01-3	-38.00	0.9852	2	35122	C32H65Br	1-bromodotriacontane	7596-92-1	25.00	0.9361	2
34964	C30H62O	1-triacontanol	593-50-0	95.00	0.7770	1	35123	C32H65Cl	1-chlorodotriacontane	62016-84-6	25.00	0.8616	2
34965	C30H63N	triacontylamine	66214-00-4	25.00	0.8316	2	35124	C32H65F	1-fluorodotriacontane	62108-86-5	25.00	0.8433	2
34966	C30H63N	methylnonacosylamine	66214-04-8	25.00	0.8316	2	35125	C32H65I	1-iododotriacontane	62154-83-0	25.00	1.0037	2
34967	C30H63N	ethyloctacosylamine	66214-03-7	25.00	0.8316	2	35126	C32H66	dotriacontane	544-85-4	69.20	0.9153	2
34968	C30H63N	dipentadecylamine	35551-81-6	25.00	0.8316	2	35127	C32H66	3-methylhentriacontane	4981-99-1	20.00	0.8124	2
34969	C30H63N	dimethyloctacosylamine	66214-02-6	25.00	0.8316	2	35128	C32H66O	dihexadecyl ether	4113-12-6	19.00	0.9780	1
34970	C30H63N	diethylhexacosylamine	66214-01-5	25.00	0.8316	2	35129	C32H67N	dotriacontylamine	66214-14-0	25.00	0.8329	2
34975	C31H23BrO3	talon rodenticide	56073-10-0	25.00	1.3556	2	35130	C32H67N	methylhentriacontylamine	66214-18-4	25.00	0.8329	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
35131	C32H67N	ethyltriacontylamine	66214-17-3	25.00	0.8329	2	35282	C34H71N	ethyldotriacontylamine	66214-32-2	25.00	0.8341	2
35132	C32H67N	dihexadecylamine	16724-63-3	25.00	0.8329	2	35283	C34H71N	diheptadecylamine	16130-73-7	25.00	0.8341	2
35133	C32H67N	dimethyltriacontylamine	66214-16-2	25.00	0.8329	2	35284	C34H71N	dimethyldotriacontylamine	66214-31-1	25.00	0.8341	2
35134	C32H67N	diethyloctacosylamine	66214-15-1	25.00	0.8329	2	35285	C34H71N	diethyltriacontylamine	66214-30-0	25.00	0.8341	2
35135	C32H68BrN	tetra-n-octylammonium bromide	14866-33-2	25.00	0.9368	2	35287	C35H26	1,2,3,4,5-pentaphenyl-1,3-cyclopentadiene	2519-10-0	25.00	1.1377	2
35142	C33H25N3O3	norbormide	991-42-4	25.00	1.2700	2	35288	C35H30O5	calix[5]arene	83933-03-3	25.00	1.2097	2
35145	C33H34N4O6	biliverdine	114-25-0	25.00	1.2544	2	35292	C35H39N5O5	ergocristine	511-08-0	25.00	1.2184	2
35148	C33H35N5O5	ergotaminine	639-81-6	25.00	1.2439	2	35293	C35H39N5O5	ergocristinine	511-07-9	25.00	1.2184	2
35150	C33H37N5O5	dihydroergotamine	511-12-6	25.00	1.2246	2	35296	C35H42N2O11	raunova	84-36-6	25.00	1.2464	2
35152	C33H38O8	a-2-guttiferin	11048-92-3	25.00	1.1802	2	35297	C35H42N2O9	rescinnamine	24815-24-5	25.00	1.2121	2
35153	C33H40N2O9	reserpine	50-55-5	25.00	1.2177	2	35298	C35H43ClO4	4-octylphenyl 2-chloro-4-(4-heptylbenzoyloxy*	41161-57-3	25.00	1.1069	2
35154	C33H40N2O9	10-methoxy-11-desmethoxyreserpine	865-04-3	25.00	1.2177	2	35302	C35H48N8O11S	phalloidin	17466-45-4	25.00	1.3083	2
35155	C33H41N5O5	ergocryptinine	511-10-4	25.00	1.1882	2	35307	C35H54O14	uzarin	20231-81-6	25.00	1.1699	2
35157	C33H44O8	helvolic acid	29400-42-8	25.00	1.1289	2	35311	C35H60O2	cholesteryl caprylate	1182-42-9	25.00	0.9208	2
35158	C33H45N2O9Cl	ansamitocin P-4	66547-10-2	25.00	1.2031	2	35312	C35H64	nonacosylbenzene	61828-27-1	25.00	0.8601	2
35159	C33H45NO9	delphinine	561-07-9	25.00	1.1574	2	35313	C35H68	1-pentatriacontyne	61847-94-7	25.00	0.8404	2
35160	C33H47NO13	pimaricin	7681-93-8	25.00	1.2113	2	35314	C35H70	triacontylcyclopentane	61827-93-8	20.00	0.8350	1
35161	C33H48N2O9	streptolydigin	7229-50-7	25.00	1.1508	2	35315	C35H70	nonacosylcyclohexane	61828-14-6	25.00	0.8310	2
35163	C33H49NO8	pseudojervine	36069-05-3	25.00	1.1078	2	35316	C35H70	1-pentatriacontene	61868-13-1	25.00	0.8310	2
35168	C33H55N5O5	ergotamine	113-15-5	25.00	1.0791	2	35317	C35H70Br2	1,1-dibromopentatriacontane	---	25.00	1.0321	2
35178	C33H60	heptacosylbenzene	61828-25-9	20.00	0.8543	1	35318	C35H70Cl2	1,1-dichloropentatriacontane	62017-37-2	25.00	0.8987	2
35179	C33H64	1-tritriacontyne	61847-93-6	25.00	0.8395	2	35319	C35H70F2	1,1-difluoropentatriacontane	62127-24-6	25.00	0.8663	2
35180	C33H66	octacosylcyclopentane	61827-91-6	25.00	0.8296	2	35320	C35H70I2	1,1-diiodopentatriacontane	66576-85-0	25.00	1.1495	2
35181	C33H66	heptacosylcyclohexane	61828-12-4	25.00	0.8296	2	35321	C35H70O	18-pentatriacontanone	504-53-0	95.00	0.7930	1
35182	C33H66	1-tritriacontene	61868-11-9	25.00	0.8296	2	35322	C35H71Br	1-bromopentatriacontane	62108-51-4	25.00	0.9296	2
35183	C33H66Br2	1,1-dibromotritriacontane	62168-12-1	25.00	1.0418	2	35323	C35H71Cl	1-chloropentatriacontane	---	25.00	0.8610	2
35184	C33H66Cl2	1,1-dichlorotritriacontane	62017-35-0	25.00	0.9011	2	35324	C35H71F	1-fluoropentatriacontane	62108-89-8	25.00	0.8443	2
35185	C33H66F2	1,1-difluorotritriacontane	62127-22-4	25.00	0.8669	2	35325	C35H71I	1-iodopentatriacontane	62154-86-3	25.00	0.9920	2
35186	C33H66I2	1,1-diiodotritriacontane	66214-19-5	25.00	1.1652	2	35326	C35H72	pentatriacontane	630-07-9	20.00	0.8157	1
35187	C33H67Br	1-bromotritriacontane	62108-49-0	25.00	0.9338	2	35327	C35H73N	pentatriacontylamine	66576-87-2	25.00	0.8347	2
35188	C33H67Cl	1-chlorotritriacontane	62016-85-7	25.00	0.8614	2	35328	C35H73N	methyltetratriacontylamine	66576-91-8	25.00	0.8347	2
35189	C33H67F	1-fluorotritriacontane	62108-87-6	25.00	0.8437	2	35329	C35H73N	ethyltritriacontylamine	66576-90-7	25.00	0.8347	2
35190	C33H67I	1-iodotritriacontane	62154-84-1	25.00	0.9996	2	35330	C35H73N	dimethyltritriacontylamine	66576-89-4	25.00	0.8347	2
35191	C33H68	tritriacontane	630-05-7	25.00	0.8199	2	35331	C35H73N	diethylhentriacontylamine	66576-88-3	25.00	0.8347	2
35192	C33H69N	tritriacontylamine	---	25.00	0.8335	2	35352	C36H38N2O6	bebeerine	477-60-1	25.00	1.1985	2
35193	C33H69N	methyldotriacontylamine	66214-25-3	25.00	0.8335	2	35353	C36H38N2O6	curine	436-05-5	25.00	1.1985	2
35194	C33H69N	ethylhentriacontylamine	66214-24-2	25.00	0.8335	2	35354	C36H42Br2N2	hexafluorenium bromide	317-52-2	25.00	1.2736	2
35195	C33H69N	dimethylhentriacontylamine	66214-23-1	25.00	0.8335	2	35361	C36H45NO14	antibiotic MA 144S2	63710-09-8	25.00	1.2592	2
35196	C33H69N	diethylnonacosylamine	66214-22-0	25.00	0.8335	2	35363	C36H46N4	octaethylporphine	2683-82-1	25.00	1.0547	2
35197	C33H69N	triundecylamine	42910-16-7	25.00	0.8335	2	35367	C36H51NO11	bikhaconitine	6078-26-8	25.00	1.1645	2
35209	C34H26O6S2	(S)-(+)-1,1'-bi-2-naphthyl di-p-toluenesulfo*	128544-06-9	25.00	1.3217	2	35368	C36H51NO11	veratridine	71-62-5	25.00	1.1645	2
35210	C34H26O6S2	(R)-(-)-1,1'-bi-2-naphthyl di-p-toluenesulfo*	137568-37-7	25.00	1.3217	2	35369	C36H51NO12	pseudoaconitine	127-29-7	25.00	1.1807	2
35211	C34H26O6S2	1,1'-bi-2-naphthyl di-p-toluenesulphonate	128575-35-9	25.00	1.3217	2	35374	C36H52O13	glucoproscillaridin A	124-99-2	25.00	1.1740	2
35218	C34H32N4O9	cholexamin	27959-26-8	25.00	1.3355	2	35375	C36H52O15	hellegrigenin glucorhamnoside	13289-18-4	25.00	1.2053	2
35221	C34H34Br2O4	5,11-dibromo-25,27-dipropoxycalix[4]arene	176098-88-7	25.00	1.3788	2	35377	C36H54N2O2	(S,S)-(+)-N,N'-bis(3,5-di-tert-butylsalicyli*	135616-36-3	25.00	1.0018	2
35223	C34H35NO6	benzyl 2-acetamido-2-deoxy-6-O-triphenyl-met*	33493-71-9	25.00	1.1942	2	35378	C36H54N2O2	(R,R)-(-)-N,N'-bis(3,5-di-tert-butylsalicyli*	135616-40-9	25.00	1.0018	2
35226	C34H36N2O6	pseudomorphine	125-24-6	25.00	1.2038	2	35382	C36H54O14	strophanthin K	560-53-2	25.00	1.1754	2
35227	C34H36O4	25,27-dipropoxycalix[4]arene	162301-48-6	25.00	1.1237	2	35391	C36H60O2	vitamin A palmitate	79-81-2	25.00	0.9300	2
35228	C34H36O6	2,3,4,6-tetra-O-benzyl-D-galactopyranose	53081-25-7	25.00	1.1655	2	35392	C36H61NO12	mycinamicin 1	73665-15-3	25.00	1.1122	2
35231	C34H38N4O6	hematoporphyrin	14459-29-1	25.00	1.2221	2	35393	C36H61NO13	mycinamicins II	73684-69-2	25.00	1.1275	2
35232	C34H43NO13	baumycin A1	64314-28-9	25.00	1.2499	2	35395	C36H62O2	cholesteryl pelargonate	1182-66-7	25.00	0.9189	2
35233	C34H43NO13	baumycin A2	64253-71-0	25.00	1.2499	2	35396	C36H62O11	monensic acid	17090-79-8	25.00	1.0752	2
35234	C34H46ClN2O10	maytansine	35846-53-8	25.00	1.2174	2	35400	C36H66	triacontylbenzene	50715-02-1	25.00	0.8599	2
35235	C34H47NO10	indaconitine	4491-19-4	25.00	1.1658	2	35408	C36H70	1-hexatriacontyne	61847-95-8	25.00	0.8408	2
35236	C34H47NO11	aconitine	302-27-2	25.00	1.1831	2	35409	C36H70BaO4	barium stearate	6865-35-6	25.00	1.1450	1
35238	C34H48N2O10S	atropine sulfate	55-48-1	25.00	1.1990	2	35412	C36H70MgO4	magnesium stearate	557-04-0	25.00	1.0280	1
35239	C34H50O2	cholesteryl benzoate	604-32-0	25.00	0.9727	2	35413	C36H70O3	octadecanoic anhydride	638-08-4	82.00	0.8365	1
35241	C34H50O7	biogastrone	5697-56-3	25.00	1.0717	2	35414	C36H70O4Pb	lead(ii) stearate	7428-48-0	25.00	1.4000	1
35249	C34H54O8	isolasalocid A	54156-67-1	25.00	1.0621	2	35415	C36H70O4Zn	zinc stearate	557-05-1	25.00	1.0950	1
35257	C34H62	octacosylbenzene	61828-26-0	20.00	0.8543	1	35417	C36H71NO3	N-stearoyl-D-erythro-spinghosine, synthetical	2304-81-6	25.00	0.9073	2
35259	C34H63N5O9	pepstatin A	26305-03-3	25.00	1.0998	2	35418	C36H72	hentriacontylcyclopentane	61827-94-9	25.00	0.8316	2
35260	C34H66	1-tetratriacontyne	26185-83-1	25.00	0.8399	2	35419	C36H72	triacontylcyclohexane	61828-15-7	20.00	0.8379	1
35261	C34H66O4	ethylene glycol dipalmitate	624-03-3	78.00	0.8594	1	35420	C36H72	1-hexatriacontene	61868-14-2	25.00	0.8316	2
35263	C34H67I	1-iodotetratriacontane	62154-85-2	25.00	1.0073	2	35421	C36H72Br2	1,1-dibromohexatriacontane	62168-15-4	25.00	1.0276	2
35264	C34H67NO3	N-palmitoyl-D-erythro-sphingosine, synthetic*	24696-26-2	25.00	0.9102	2	35422	C36H72Cl2	1,1-dichlorohexatriacontane	62017-38-3	25.00	0.8975	2
35265	C34H68	nonacosylcyclopentane	61827-92-7	25.00	0.8303	2	35424	C36H72F2	1,1-difluorohexatriacontane	62127-25-7	25.00	0.8660	2
35266	C34H68	octacosylcyclohexane	61828-13-5	20.00	0.8370	1	35425	C36H72I2	1,1-diiodohexatriacontane	66576-72-5	25.00	1.1422	2
35267	C34H68	1-tetratriacontene	61868-12-0	25.00	0.8303	2	35430	C36H73Br	1-bromohexatriacontane	7461-19-0	25.00	0.9276	2
35268	C34H68Br2	1,1-dibromotetratriacontane	62168-13-2	25.00	1.0368	2	35431	C36H73Cl	1-chlorohexatriacontane	62016-88-0	25.00	0.8609	2
35269	C34H68Cl2	1,1-dichlorotetratriacontane	62017-36-1	25.00	0.8998	2	35432	C36H73F	1-fluorohexatriacontane	62108-90-1	25.00	0.8445	2
35270	C34H68F2	1,1-difluorotetratriacontane	62127-23-5	25.00	0.8666	2	35433	C36H73I	1-iodohexatriacontane	62154-87-4	25.00	0.9884	2
35271	C34H68I2	1,1-diiodotetratriacontane	66214-26-4	25.00	1.1571	2	35434	C36H74	hexatriacontane	630-06-8	25.00	0.9610	2
35272	C34H68O2	hexadecyl stearate	1190-63-2	25.00	0.8690	2	35437	C36H75N	hexatriacontylamine	45313-33-5	25.00	0.8352	2
35273	C34H68O2	isocetyl stearate	25339-09-7	25.00	0.8690	2	35438	C36H75N	methylpentatriacontylamine	66577-27-3	25.00	0.8352	2
35274	C34H69Br	1-bromotetratriacontane	62108-50-3	25.00	0.9316	2	35439	C36H75N	ethyltetratriacontylamine	66577-26-2	25.00	0.8352	2
35275	C34H69Cl	1-chlorotetratriacontane	62016-86-8	25.00	0.8612	2	35440	C36H75N	dioctadecylamine	112-99-2	25.00	0.8352	2
35276	C34H69F	1-fluorotetratriacontane	62108-88-7	25.00	0.8440	2	35441	C36H75N	dimethyltetratriacontylamine	66577-25-1	25.00	0.8352	2
35277	C34H70	tetratriacontane	14167-59-0	90.00	0.7728	1	35442	C36H75N	diethyldotriacontylamine	66577-24-0	25.00	0.8352	2
35280	C34H71N	tetratriacontylamine	66214-29-7	25.00	0.8341	2	35452	C37H38N2O6	cepharanthine	481-49-2	25.00	1.2048	2
35281	C34H71N	methyltritriacontylamine	66214-33-3	25.00	0.8341	2	35455	C37H40N2O6	6,6',7-trimethoxy-2,2'-dimethylberbaman-12-ol	478-61-5	25.00	1.1875	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
35456	C37H40N2O6	6,6',7-trimethoxy-2,2'-dimethyloxyacanthan-1*	548-40-3	25.00	1.1875	2	35570	C39H81N	ethylheptatriacontylamine	66576-45-2	25.00	0.8366	2
35457	C37H42Cl2N2O6	tubocurarine chloride	6989-98-6	25.00	1.2260	2	35571	C39H81N	dimethylheptatriacontylamine	66576-44-1	25.00	0.8366	2
35458	C37H42N2O7	bendacort	53716-43-1	25.00	1.1887	2	35572	C39H81N	diethylpentatriacontylamine	66576-43-0	25.00	0.8366	2
35460	C37H44ClNO6	penitrem A	12627-35-9	25.00	1.1667	2	35573	C39H81N	tritridecylamine	5910-77-0	25.00	0.8366	2
35462	C37H47NO12	rifamycin SV	6998-60-3	25.00	1.2165	2	35575	C40H30Cl2N10O6	nitro blue tetrazolium	298-83-9	25.00	1.4650	2
35463	C37H47NO14	nogamycin	64267-46-5	25.00	1.2478	2	35578	C40H32N8O2Cl2	tetrazolium blue (chloride)	1871-22-3	25.00	1.3571	2
35466	C37H51NO10	taxine	12607-93-1	25.00	1.1541	2	35580	C40H44Br4O4	5,11,17,23-tetrabromo-25,26,27,28-tetrapropo*	---	25.00	1.4831	2
35474	C37H62O12	16-deethyl-3-o-demethyl-16-methyl-3-o-(1-oxo*	56283-74-0	25.00	1.0972	2	35581	C40H46O8	1,3-dimethoxycalix[4]arenecrown-6	161282-95-7	25.00	1.1598	2
35475	C37H67NO13	erythromycin	114-07-8	25.00	1.0965	2	35582	C40H47BrO4	5-bromo-25,26,27,28-tetrapropoxycalix[4]arene	214399-70-9	25.00	1.1858	2
35476	C37H68	hentriacontylbenzene	61828-28-2	25.00	0.8598	2	35584	C40H48N4O3	geissospermine	427-01-0	25.00	1.1250	2
35477	C37H72	1-heptatriacontyne	---	25.00	0.8411	2	35587	C40H48O4	25,26,27,28-tetrapropoxycalix[4]arene	147782-22-7	25.00	1.0756	2
35478	C37H74	dotriacontylcyclopentane	---	25.00	0.8322	2	35588	C40H50N4O8S	quinine sulfate	804-63-7	25.00	1.2142	2
35479	C37H74	hentriacontylcyclohexane	61828-16-8	25.00	0.8322	2	35589	C40H51NO14	streptovaricin C	23344-17-4	25.00	1.2316	2
35480	C37H74	1-heptatriacontene	61868-15-3	25.00	0.8322	2	35590	C40H52N4O4	5,11,17,23-tetrakis-dimethylaminomethylcalix*	---	25.00	1.1138	2
35481	C37H74Br2	1,1-dibromoheptatriacontane	62168-16-5	25.00	1.0233	2	35591	C40H52O2	3',4'-didehydro-beta,psi-caroten-16'-oic acid	514-92-1	25.00	1.0124	2
35482	C37H74Cl2	1,1-dichloroheptatriacontane	62017-39-4	25.00	0.8965	2	35594	C40H56	alpha-carotene	7488-99-5	20.00	1.0000	1
35483	C37H74F2	1,1-difluoroheptatriacontane	62127-26-8	25.00	0.8657	2	35595	C40H56	beta-carotene	7235-40-7	20.00	1.0000	1
35484	C37H74I2	1,1-diiodoheptatriacontane	66577-05-7	25.00	1.1353	2	35596	C40H56	beta,psi-carotene	472-93-5	20.00	1.0000	2
35486	C37H75Br	1-bromoheptatriacontane	62108-52-5	25.00	0.9258	2	35597	C40H56	psi,psi-carotene	502-65-8	20.00	1.0000	2
35487	C37H75Cl	1-chloroheptatriacontane	62016-89-1	25.00	0.8607	2	35598	C40H56O	beta,beta-caroten-3-ol, (3R)	472-70-8	25.00	0.9694	2
35488	C37H75F	1-fluoroheptatriacontane	62108-91-2	25.00	0.8448	2	35599	C40H56O	beta,psi-caroten-3-ol, (3R)	3763-55-1	25.00	0.9694	2
35489	C37H75I	1-iodoheptatriacontane	62154-88-5	25.00	0.9851	2	35600	C40H56O	psi,psi-caroten-16-ol	19891-74-8	25.00	0.9694	2
35490	C37H76	heptatriacontane	7194-84-5	25.00	0.8235	2	35601	C40H56O2	beta,beta-carotene-3,3'-diol, (3R,3'R)	144-68-3	25.00	0.9877	2
35491	C37H77N	heptatriacontylamine	66577-08-0	25.00	0.8357	2	35602	C40H56O2	beta,epsilon-carotene-3,3'-diol, (3R,3'R,6'R)	127-40-2	25.00	0.9877	2
35492	C37H77N	methylhexatriacontylamine	66577-12-6	25.00	0.8357	2	35603	C40H56O3	capsanthin	465-42-9	25.00	1.0057	2
35493	C37H77N	ethylpentatriacontylamine	66577-11-5	25.00	0.8357	2	35604	C40H56O4	violaxanthin	126-29-4	25.00	1.0233	2
35494	C37H77N	dimethylpentatriacontylamine	66577-10-4	25.00	0.8357	2	35606	C40H60O6	fucoxanthin	3351-86-8	25.00	1.0332	2
35495	C37H77N	diethyltritriacontylamine	66577-09-1	25.00	0.8357	2	35609	C40H65NO15	leucomycin A6	18361-48-3	25.00	1.1531	2
35496	C37H77N	N-methyldioctadecylamine	4088-22-6	25.00	0.8357	2	35615	C40H74	tetratriacontylbenzene	61828-31-7	25.00	0.8594	2
35499	C38H28Cl2N8	3,3'-(4,4'-biphenylene)bis(2,5-diphenyl-2H-t*	298-95-3	25.00	1.3566	2	35616	C40H78	1-tetracontyne	---	25.00	0.8421	2
35504	C38H32O2	2,5-dimethyl-3,4-diphenylcyclopentadienonedi*	38883-84-0	25.00	1.1494	2	35617	C40H80	pentatriacontylcyclopentane	61827-98-3	20.00	0.8374	1
35507	C38H38O10	meserein	34807-41-5	25.00	1.2472	2	35618	C40H80	tetratriacontylcyclohexane	61828-19-1	20.00	0.8395	1
35508	C38H42N2O6	tetrandrine	518-34-3	25.00	1.1772	2	35619	C40H80	1-tetracontene	61868-18-6	20.00	0.8385	2
35511	C38H44O8	cambogic acid	2752-65-0	25.00	1.1627	2	35620	C40H80Br2	1,1-dibromotetracontane	62168-19-8	25.00	1.0117	2
35512	C38H59FO6	dexamethasone palmitate	14899-36-6	25.00	1.0393	2	35621	C40H80Cl2	1,1-dichlorotetracontane	62017-42-9	25.00	0.8936	2
35513	C38H70	dotriacontylbenzene	61828-29-3	25.00	0.8596	2	35622	C40H80F2	1,1-difluorotetracontane	62126-89-0	25.00	0.8649	2
35514	C38H74	1-octatriacontyne	---	25.00	0.8415	2	35623	C40H80I2	1,1-diiodotetracontane	66576-47-4	25.00	1.1163	2
35515	C38H74O4	ethylene glycol distearate	627-83-8	78.00	0.8581	1	35626	C40H81Br	1-bromotetracontane	62108-55-8	25.00	0.9208	2
35518	C38H76	tritriacontylcyclopentane	---	25.00	0.8328	2	35627	C40H81Cl	1-chlorotetracontane	62016-92-6	25.00	0.8603	2
35519	C38H76	dotriacontylcyclohexane	61828-17-9	20.00	0.8388	1	35628	C40H81F	1-fluorotetracontane	62108-94-5	25.00	0.8455	2
35520	C38H76	1-octatriacontene	61868-16-4	25.00	0.8328	2	35629	C40H81I	1-iodotetracontane	62154-91-0	25.00	0.9760	2
35521	C38H76Br2	1,1-dibromooctatriacontane	62168-17-6	25.00	1.0192	2	35630	C40H82	tetracontane	4181-95-7	25.00	0.8258	2
35522	C38H76Cl2	1,1-dichlorooctatriacontane	62017-40-7	25.00	0.8955	2	35631	C40H83N	tetracontylamine	66576-50-9	25.00	0.8371	2
35523	C38H76F2	1,1-difluorooctatriacontane	62126-87-8	25.00	0.8654	2	35632	C40H83N	methylnonatriacontylamine	66576-36-1	25.00	0.8371	2
35524	C38H76I2	1,1-diiodooctatriacontane	66577-13-7	25.00	1.1286	2	35633	C40H83N	ethyloctatriacontylamine	66576-53-2	25.00	0.8371	2
35525	C38H76N2O2	N,N'-ethylene bis(stearamide)	110-30-5	25.00	0.8988	2	35634	C40H83N	dieicosylamine	3071-00-9	25.00	0.8371	2
35526	C38H77Br	1-bromooctatriacontane	62108-53-6	25.00	0.9240	2	35635	C40H83N	dimethyloctatriacontylamine	66576-52-1	25.00	0.8371	2
35527	C38H77Cl	1-chlorooctatriacontane	62016-90-4	25.00	0.8606	2	35636	C40H83N	diethylhexatriacontylamine	66576-51-0	25.00	0.8371	2
35528	C38H77F	1-fluorooctatriacontane	62108-92-3	25.00	0.8450	2	35639	C41H46N4O5	quinine carbonate	146-06-5	25.00	1.1795	2
35529	C38H77I	1-iodooctatriacontane	62154-89-6	25.00	0.9819	2	35641	C41H48N2O8	thalicarpine	5373-42-2	25.00	1.1821	2
35530	C38H78	octatriacontane	7194-85-6	25.00	0.8243	2	35642	C41H49NO15	auramycin B	78173-91-8	25.00	1.2651	2
35532	C38H79N	octatriacontylamine	66576-94-1	25.00	0.8362	2	35645	C41H51NO15	auramycin A	78173-92-9	25.00	1.2504	2
35533	C38H79N	methylheptatriacontylamine	66576-99-6	25.00	0.8362	2	35648	C41H63NO15	neoprotoveratrine	124-97-0	25.00	1.1702	2
35534	C38H79N	ethylhexatriacontylamine	66576-98-5	25.00	0.8362	2	35649	C41H64O13	digitoxin	71-63-6	25.00	1.1230	2
35535	C38H79N	dinonadecylamine	66576-97-4	25.00	0.8362	2	35650	C41H64O14	digoxin	20830-75-5	25.00	1.1371	2
35536	C38H79N	dimethylhexatriacontylamine	66576-96-3	25.00	0.8362	2	35651	C41H64O14	gitoxin	4562-36-1	25.00	1.1371	2
35537	C38H79N	diethyltetratriacontylamine	66576-95-2	25.00	0.8362	2	35654	C41H67NO15	medemycin	35457-80-8	25.00	1.1462	2
35538	C38H80BrN	dimethyldioctadecylammonium bromide	3700-67-2	25.00	0.9249	2	35656	C41H76	pentatriacontylbenzene	61828-32-8	25.00	0.8593	2
35540	C39H49NO14	rifamycin	13929-35-6	25.00	1.2418	2	35657	C41H76O13	bihoromycin (crystalline)	37247-90-8	25.00	1.0568	2
35541	C39H49NO14	rifamycin O	14487-05-9	25.00	1.2418	2	35658	C41H82	hexatriacontylcyclopentane	61827-99-4	25.00	0.8343	2
35542	C39H49O16	nogalamycin	1404-15-5	25.00	1.2569	2	35659	C41H82	pentatriacontylcyclohexane	61828-20-4	25.00	0.8343	2
35549	C39H54N10O14S	a-amanitine	23109-05-9	25.00	1.3416	2	35660	C41H84	n-hentetracontane	7194-87-8	25.00	0.8265	2
35551	C39H59Cl2NO2	fenesterin	3546-10-9	25.00	1.0388	2	35669	C42H28	rubrene	517-51-1	25.00	1.1750	2
35553	C39H72	tritriacontylbenzene	61828-30-6	25.00	0.8595	2	35670	C42H30N6O12	hexopal	6556-11-2	25.00	1.4602	2
35553.1	C39H72O5	glycerol dioleate	2465-32-9	21.50	1.0743	2	35671	C42H36O6	calix[6]arene	96107-95-8	25.00	1.2173	2
35555	C39H76	1-nonatriacontyne	---	25.00	0.8418	2	35676	C42H42O14	gossypol acetate	30719-67-6	25.00	1.2953	2
35556	C39H78	tetratriacontylcyclopentane	---	25.00	0.8333	2	35679	C42H46N4O8S	strychnidin-10-one sulfate (2:1)	60-41-3	25.00	1.2533	2
35557	C39H78	tritriacontylcyclohexane	55517-75-4	25.00	0.8333	2	35680	C42H50Cl4N2O4	estradiol mustard	22966-79-6	25.00	1.2093	2
35558	C39H78	1-nonatriacontene	61868-17-5	25.00	0.8333	2	35681	C42H51NO15	aclacinomycin Y	66789-14-8	25.00	1.2547	2
35559	C39H78Br2	1,1-dibromononatriacontane	62168-18-7	25.00	1.0154	2	35682	C42H51NO16	tauromycetin-III	35906-51-5	25.00	1.2684	2
35560	C39H78Cl2	1,1-dichlorononatriacontane	62017-41-8	25.00	0.8945	2	35683	C42H53NO15	antibiotic MA 144A1	57576-44-0	25.00	1.2405	2
35561	C39H78F2	1,1-difluorononatriacontane	62126-88-9	25.00	0.8652	2	35684	C42H53NO16	2-hydroxyaclacinomycin A	79127-36-9	25.00	1.2542	2
35562	C39H78I2	1,1-diiodononatriacontane	66576-58-7	25.00	1.1223	2	35685	C42H53NO16	tauromycetin-IV	34044-10-5	25.00	1.2542	2
35563	C39H79Br	1-bromononatriacontane	62108-54-7	25.00	0.9224	2	35686	C42H54O20	trioxacarcin C	81781-28-4	25.00	1.2871	2
35564	C39H79Cl	1-chlorononatriacontane	62016-91-5	25.00	0.8604	2	35687	C42H55NO15	MA144 M1	64431-68-1	25.00	1.2267	2
35565	C39H79F	1-fluorononatriacontane	62108-93-4	25.00	0.8453	2	35688	C42H55NO16	rhodirubin A	64253-73-2	25.00	1.2403	2
35566	C39H79I	1-iodononatriacontane	62154-90-9	25.00	0.9789	2	35689	C42H55NO17	marcellomycin	63710-10-1	25.00	1.2537	2
35567	C39H80	nonatriacontane	7194-86-7	25.00	0.8251	2	35690	C42H62O16	glycyrrhizic acid	1405-86-3	25.00	1.1817	2
35568	C39H81N	nonatriacontylamine	66576-42-9	25.00	0.8366	2	35691	C42H63N21O28	heptakis-6-azido-6-deoxy-b-cyclodextrin,1:1 *	53958-47-7	25.00	1.5278	2
35569	C39H81N	methyloctatriacontylamine	66576-46-3	25.00	0.8366	2	35692	C42H64O15	gitaloxin	3261-53-8	25.00	1.1560	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
35695	C42H66O14	b-methyldigoxin	30685-43-9	25.00	1.1305	2	35883	C56H48O8	calix[8]arene	82452-93-5	25.00	1.2269	2
35698	C42H67NO16	carbomycin	4564-87-8	25.00	1.1643	2	35884	C56H60O12	calix[4]-bis-1,2-benzo-crown-6	157769-17-0	25.00	1.2037	2
35699	C42H69NO15	josamycin	16846-24-5	25.00	1.1396	2	35886	C56H89NO14	rapamycin	53123-88-9	25.00	1.0936	2
35703	C42H78	hexatriacontylbenzene	61828-33-9	25.00	0.8592	2	35887	C56H92O29	digitonin	11024-24-1	25.00	1.2194	2
35705	C42H84	hexatriacontylcyclohexane	61828-21-5	20.00	0.8402	1	35890	C56H98O35	dimethyl-b-cyclodextrin, methylated b -cyclo*	51166-71-3	25.00	1.2455	2
35708	C42H86	n-dotetracontane	7098-20-6	25.00	0.8271	2	35891	C56H114	n-hexapentacontane	7719-82-6	25.00	0.8338	2
35709	C42H87N	tritetradecylamine	27911-72-4	25.00	0.8379	2	35892	C57H60O12	crypthophane E	102683-14-7	25.00	1.2077	2
35716	C43H51NO16	sulfurmycin B	78193-30-3	25.00	1.2724	2	35894	C57H82O26	chromomycin A3	7059-24-7	25.00	1.2407	2
35717	C43H53NO16	sulfurmycin A	78173-90-7	25.00	1.2583	2	35898	C57H104O6	glycerol trioleate	122-32-7	5.00	1.0802	2
35718	C43H54N2O14	tolylmycin Y	23412-26-2	25.00	1.2374	2	35900	C57H116	n-heptapentacontane	5856-67-7	25.00	0.8342	2
35719	C43H55NO15	rhodirubin B	64502-82-5	25.00	1.2311	2	35901	C57H117N	trinonadecylamine	66575-72-2	25.00	0.8421	2
35720	C43H58N2O13	rifamide	2750-76-7	25.00	1.1971	2	35904	C58H118	n-octapentacontane	7667-78-9	25.00	0.8345	2
35721	C43H58N4O12	rifamycin AMP	13292-46-1	25.00	1.2097	2	35905	C58H84O26	olivomycin A	6988-58-5	25.00	1.2342	2
35723	C43H66O14	acetyldigitoxin-a	1111-39-3	25.00	1.1356	2	35908	C59H120	n-nonapentacontane	7667-79-0	25.00	0.8349	2
35732	C43H76O2	cholesteryl palmitate	601-34-3	25.00	0.9082	2	35910	C59H90O4	ubiquinone 10	303-98-0	25.00	0.9800	2
35735	C43H88	tritetracontane	7098-21-7	90.00	0.7812	1	35912	C59H93N13O20	tsushimycin	11054-63-0	25.00	1.2548	2
35738	C44H30N4	meso-tetraphenylporphine	917-23-7	25.00	1.2441	2	35913	C60	carbon (fullerene-c60)	99685-96-8	25.00	1.5655	2
35748	C44H54O8	1,3-diisopropoxycalix[4]arenecrown-6	161282-96-8	25.00	1.1280	2	35914	C60F60	fullerene fluoride	134929-59-2	25.00	1.7663	2
35749	C44H56N2O8S	lobeline sulfate	134-64-5	25.00	1.1654	2	35918	C60H80O12	tetraester 4-tert-butylcalix[4]arene	97600-39-0	25.00	1.1183	2
35750	C44H56O4	4-tert-butylcalix[4]arene	60705-62-6	25.00	1.0521	2	35922	C60H122	n-hexacontane	7667-80-3	25.00	0.8352	2
35751	C44H56O4S4	5,11,17,23-tetrakis-mercaptomethyl-25,26,27,*	---	25.00	1.1446	2	35923	C60H123N	trieicosylamine	45324-58-1	25.00	0.8427	2
35753	C44H68O13	okadaic acid	78111-17-8	25.00	1.1159	2	35925	C61H124	n-henhexacontane	7667-81-4	25.00	0.8355	2
35757	C44H76O14	lonomycin	58785-63-0	25.00	1.0865	2	35927	C61H89N12O17	actinomycin X2	1402-61-5	25.00	1.2435	2
35758	C44H78O2	carcinolipin	19477-24-8	25.00	0.9069	2	35928	C61H96N2O24	lucknomycin	61912-76-3	25.00	1.1895	2
35759	C44H80N2O15	megalomicin A	28022-11-9	25.00	1.1030	2	35929	C62H86N12O16	actinomycin D	50-76-0	25.00	1.2511	2
35763	C44H90	n-tetratetracontane	7098-22-8	25.00	0.8283	2	35930	C62H111N11O12	cyclosporin A	59865-13-3	25.00	1.1039	2
35765	C45H54N8O10	virgimycin	3131-03-1	25.00	1.2697	2	35932	C62H126	n-dohexacontane	7719-83-7	25.00	0.8358	2
35769	C45H73NO15	solanine	20562-02-1	25.00	1.1321	2	35933	C63H70O7	p-ethylcalix[7]arene	122002-00-0	25.00	1.1218	2
35770	C45H77NO17	tylosin	1401-69-0	25.00	1.1357	2	35937	C62H89N11O17	actinomycin C	8052-16-2	25.00	1.2377	2
35771	C45H78O2	cholesteryl oleate	303-43-5	25.00	0.9144	2	35940	C63H128	n-trihexacontane	7719-84-8	25.00	0.8361	2
35772	C45H80O2	cholesteryl stearate	35602-69-8	25.00	0.9057	2	35941	C64H64O12	calix[4]-bis-2,3-naphtho-crown-6	162898-44-4	25.00	1.2122	2
35773	C45H86O6	glycerol tritetradecanoate	555-45-3	60.00	0.8848	1	35943	C64H130	n-tetrahexacontane	7719-87-1	25.00	0.8364	2
35774	C45H92	n-pentatetracontane	7098-23-9	25.00	0.8289	2	35944	C65H132	n-pentahexacontane	7719-88-2	25.00	0.8366	2
35775	C45H93N	tripentadecylamine	66576-66-7	25.00	0.8389	2	35946	C66H84O6	4-tert-butylcalix[6]arene	78092-53-2	25.00	1.0615	2
35778	C46H58N4O9	vincaleukoblastine	865-21-4	25.00	1.1828	2	35948	C66H103N17O16S	bacitracin	1405-87-4	25.00	1.2409	2
35785	C46H77NO17	angolamycin	1402-83-1	25.00	1.1402	2	35949	C66H134	n-hexahexacontane	7719-89-3	25.00	0.8369	2
35787	C46H83NO18	nystatin	1400-61-9	25.00	1.1220	2	35951	C66H99Cl2NO36	everninomycin-B	53296-30-3	25.00	1.3036	2
35788	C46H94	n-hexatetracontane	7098-24-0	25.00	0.8294	2	35952	C67H136	n-heptahexacontane	7719-90-6	25.00	0.8372	2
35789	C47H51NO14	paclitaxel	33069-62-4	25.00	1.2616	2	35954	C67H96N2O24	tetrocarcin A	73666-84-9	25.00	1.2072	2
35790	C47H65O14	flavensomycin	29382-82-9	25.00	1.1609	2	35956	C68H138	n-octahexacontane	7719-91-7	25.00	0.8374	2
35793	C47H73NO17	amphotericin b	1397-89-3	25.00	1.1656	2	35958	C69H140	n-nonahexacontane	7719-92-8	25.00	0.8377	2
35794	C47H74O19	deacetyllanatoside B	19855-39-1	25.00	1.1725	2	35959	C70	carbon (fullerene-c70)	115383-22-7	25.00	1.5735	2
35798	C47H96	n-heptatetracontane	7098-25-1	25.00	0.8300	2	35960	C70H142	n-heptacontane	7719-93-9	25.00	0.8379	2
35805	C48H60O12	calix[4]-bis-crown-6	157769-14-7	25.00	1.1687	2	35961	C71H144	n-henheptacontane	7667-82-5	25.00	0.8381	2
35806	C48H64O8	tetra-n-pentylcalix[4]resorcinolarene	118629-59-7	25.00	1.0910	2	35965	C72H85N19O18S5	thiostrepton	1393-48-2	25.00	1.3970	2
35807	C48H71NO14	virustomycin A	84777-85-5	25.00	1.1443	2	35967	C72H133NO22	takacidin	11006-31-8	25.00	1.0694	2
35808	C48H72O14	avermectin b1a	71751-41-2	25.00	1.1271	2	35968	C72H146	n-doheptacontane	7667-83-6	25.00	0.8384	2
35813	C48H83O16	septamycin	54927-63-8	25.00	1.0967	2	35970	C73H148	n-triheptacontane	7667-84-7	25.00	0.8386	2
35816	C48H98	n-octatetracontane	7098-26-2	25.00	0.8305	2	35972	C74H150	n-tetraheptacontane	7667-85-8	25.00	0.8388	2
35817	C48H99N	trihexadecylamine	28947-77-5	25.00	0.8399	2	35973	C75H70N6O6	pyrvinium pamoate	3546-41-6	25.00	1.2172	2
35818	C49H60Cl3NO6	25,27-dimethoxy-26-(N-trichloroacetyl)carbam*	---	25.00	1.1712	2	35974	C75H110O5	p-tert-octylcalix[5]arene	138452-84-3	25.00	0.9969	2
35819	C49H60F3NO6	25,27-dimethoxy-26-(N-trifluoroacetyl)carbam*	---	25.00	1.1382	2	35975	C75H152	n-pentaheptacontane	7667-86-9	25.00	0.8390	2
35823	C49H100	n-nonatetracontane	7098-27-3	25.00	0.8309	2	35976	C76H52O46	tannic acid	1401-55-4	25.00	1.5879	2
35826	C50H73N15O11	bradykinin	58-82-2	25.00	1.2610	2	35977	C76H154	n-hexaheptacontane	7667-87-0	25.00	0.8392	2
35828	C50H81N7O16	aculeacin A	58814-86-1	25.00	1.1898	2	35979	C77H156	n-heptaheptacontane	7719-94-0	25.00	0.8394	2
35829	C50H83NO21	tomatine	17406-45-0	25.00	1.1718	2	35980	C78H158	n-octaheptacontane	7719-85-9	25.00	0.8396	2
35831	C50H102	n-pentacontane	6596-40-3	25.00	0.8314	2	35982	C79H160	n-nonaheptacontane	7719-86-0	25.00	0.8398	2
35834	C51H64N12O12S2	echinomycin	512-64-1	25.00	1.3242	2	35984	C80H162	n-octacontane	7667-88-1	25.00	0.8400	2
35835	C51H74O19	gitoxin pentaacetate	7242-04-8	25.00	1.1885	2	35985	C81H164	n-henoctacontane	7667-89-2	25.00	0.8401	2
35837	C51H98O6	glycerol tripalmitate	555-44-2	70.00	0.8752	1	35986	C82H166	n-dooctacontane	7719-95-1	25.00	0.8403	2
35838	C51H104	n-henpentacontane	7667-76-7	25.00	0.8318	2	35987	C83H168	n-trioctacontane	7667-90-5	25.00	0.8405	2
35839	C51H105N	triheptadecylamine	66575-83-5	25.00	0.8407	2	35989	C84H90N8O12S4	5,10,15,20-tetrakis(4-(trimethylammonio)-phe*	69458-20-4	25.00	1.2691	2
35844	C52H76O24	mithramycin	18378-89-7	25.00	1.2354	2	35990	C84H170	n-tetraoctacontane	7667-91-6	25.00	0.8407	2
35847	C52H106	n-dopentacontane	7719-79-1	25.00	0.8323	2	35991	C85H172	n-pentaoctacontane	7719-96-2	25.00	0.8408	2
35849	C53H108	n-tripentacontane	7719-80-4	25.00	0.8327	2	35992	C86H174	n-hexaoctacontane	7667-92-7	25.00	0.8410	2
35850	C54H45ClP3Rh	tris(triphenylphosphine)rhodium(i) chloride	14694-95-2	25.00	1.3630	1	35993	C87H176	n-heptaoctacontane	7667-93-8	25.00	0.8411	2
35852	C54H65NO6	25,27-dimethoxy-26-(N-benzoyl)carbamoyloxy-p*	---	25.00	1.1035	2	35994	C88H80O24S8	3,5,10,12,17,19,24,26-octakis-tosyloxy-1,8,1*	---	25.00	1.3813	2
35854	C54H67NO7S	25,27-dimethoxy-26-(N-tosyl)carbamoyloxy-p-t*	---	25.00	1.1251	2	35995	C88H112O8	4-tert-butylcalix[8]arene	68971-82-4	25.00	1.0663	2
35855	C54H74O8	1,3-dioctyloxycalix[4]arenecrown-6	161282-97-9	25.00	1.0715	2	35998	C88H178	n-octaoctacontane	7667-94-9	25.00	0.8413	2
35857	C54H78O3	1,3,5-trimethyl-2,4,6-tris(3,5-di-tert-butyl*	1709-70-2	25.00	0.9884	2	36000	C89H180	n-nonaoctacontane	7719-76-8	25.00	0.8414	2
35860	C54H84O23	escin	6805-41-0	25.00	1.1923	2	36002	C90H182	n-nonacontane	7667-51-8	25.00	0.8416	2
35864	C54H90N6O18	valinomycin	2001-95-8	25.00	1.1722	2	36003	C91H184	n-hennonacontane	7719-97-3	25.00	0.8417	2
35865	C54H92O23	panax saponin E	41753-43-9	25.00	1.1559	2	36004	C92H186	n-dononacontane	7667-95-0	25.00	0.8419	2
35868	C54H105AlO6	aluminum stearate	637-12-7	25.00	1.0700	1	36005	C93H188	n-trinonacontane	7667-96-1	25.00	0.8420	2
35869	C54H110	n-tetrapentacontane	5856-66-6	25.00	0.8331	2	36006	C94H190	n-tetranonacontane	1574-32-9	25.00	0.8421	2
35871	C54H111N	trioctadecylamine	102-88-5	25.00	0.8415	2	36008	C95H192	n-pentanonacontane	7667-97-2	25.00	0.8423	2
35874	C55H59N5O20	coumermycin al	4434-05-3	25.00	1.3492	2	36010	C96H194	n-hexanonacontane	7763-13-5	25.00	0.8424	2
35875	C55H70O5	p-tert-butylcalix[5]arene	81475-22-1	25.00	1.0578	2	36011	C97H196	n-heptanonacontane	7670-25-9	25.00	0.8425	2
35879	C55H97NO22	copiamycin	11078-23-2	25.00	1.1377	2	36012	C98H198	n-octanonacontane	7670-26-0	25.00	0.8426	2
35880	C55H112	n-pentapentacontane	5846-40-2	25.00	0.8335	2	36013	C99H200	n-nonanonacontane	7670-27-1	25.00	0.8428	2

Table 5 Density of Solid - Organic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
36014	C100H202	n-hectane	6703-98-6	25.00	0.8429	2							
Code: 1 - data, 2 - estimate													
* Use ID or CAS No for complete name (See Chapther 1 of this book).													

Chapter 6

DENSITY OF SOLID – INORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 6. The tabulation is arranged by alphabetical order (Ag, Al, Ar, ……, Zr) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for representative temperature and density at the representative temperature are given in the adjacent columns. The next column provides the code for the tabulation.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-15). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (1-2); Daubert and Danner (3); Landolt and Bornstein (6); and Yaws (14-15) were used extensively for solid density. Many of the estimates are based on extending the liquid density to the triple point (3).

Example

In an engineering analysis, the solid density is needed for calcium chloride (CaCl2) at 25 C. Determine the solid density of calcium chloride at this temperature.

Inspection of the tabulation for solid density yields:

density = 2.1516 g/ml

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Table 6 Density of Solid - Inorganic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
1	Ac	actinium	7440-34-8	25.00	10.0000	1	195	AmI3	americium (iii) iodide	13813-47-3	25.00	6.9000	1
3	AcBr3	actinium bromide	33689-81-5	25.00	5.8500	1	197	AmO2	americium (iv) oxide	12005-67-3	25.00	11.6800	1
5	AcCl3	actinium chloride	22986-54-5	25.00	4.8100	1	198	Am2O3	americium (iii) oxide	12254-64-7	25.00	11.7700	1
7	AcF3	actinium fluoride	33689-80-4	25.00	7.8800	1	200	Ar	argon	7440-37-1	-189.35	1.6230	1
11	Ac2O3	actinium oxide	12002-61-8	25.00	9.1900	1	202	As	arsenic	7440-38-3	14.00	5.7487	1
13	Ag	silver	7440-22-4	25.00	10.4895	1	203	AsBr3	arsenic (iii) bromide	7784-33-0	25.00	3.4000	1
16	AgBr	silver bromide	7785-23-1	25.00	6.4700	1	228	AsCl3	arsenic trichloride	7784-34-1	-79.00	2.5650	1
17	AgBrO3	silver bromate	7783-89-3	25.00	5.2000	1	231	AsF5	arsenic pentafluoride	7784-36-3	-91.00	3.0200	1
19	AgCN	silver cyanide	506-64-9	25.00	3.9500	1	233	AsFeH4O6	arsenate, iron (iii) dihydrate	10102-49-5	25.00	3.1800	1
22	AgC2H3O2	silver (i) acetate	563-63-3	25.00	3.2600	1	234	AsH3	arsine	7784-42-1	-116.87	2.0889	1
35	AgCl	silver (i) chloride	7783-90-6	25.00	5.5600	1	236	AsH4O4.5	arsenic (v) acid hemihydrate	7774-41-6	25.00	2.2500	1
38	AgClO3	silver (i) chlorate	7783-92-8	25.00	4.4300	1	237	AsH6NO4	arsenate, ammonium dihydrogen	13462-93-6	25.00	2.3110	1
39	AgClO4	silver (i) perchlorate	7783-93-9	25.00	2.8060	1	238	AsI3	arsenic triiodide	7784-45-4	25.00	4.7300	1
40	AgF	silver (i) fluoride	7775-41-9	25.00	5.8520	1	245	As2O3	arsenic trioxide	1327-53-3	25.00	3.8739	1
41	AgF2	silver (ii) fluoride	7783-95-1	25.00	4.5800	1	246	As2O5	arsenic (v) oxide	1303-28-2	25.00	4.3200	1
45	AgI	silver (i) iodide	7783-96-2	25.00	5.6800	1	247	As2S2	arsenic (ii) sulfide	1303-32-8	19.00	3.5060	1
46	AgIO3	silver (i) iodate	7783-97-3	25.00	5.5300	1	248	As2S3	arsenic (iii) sulfide	1303-33-9	25.00	3.4600	1
47	AgMnO4	silver (i) permanganate	7783-98-4	25.00	4.4900	1	251	As2Se3	arsenic (iii) selenide	1303-36-2	25.00	4.7500	1
48	AgNO2	silver (i) nitrite	7783-99-5	25.00	4.9000	1	253	As2Te3	arsenic (iii) telluride	12044-54-1	25.00	6.5000	1
49	AgNO3	silver (i) nitrate	7761-88-8	25.00	4.4530	1	254	As4S4	arsenic sulfide	12279-90-2	25.00	3.5000	1
50	AgN3	silver azide	13863-88-2	25.00	4.3500	1	256	Au	gold	7440-57-5	25.00	19.3000	1
51	AgO	silver (ii) oxide	1301-96-8	25.00	7.5000	1	257	AuBr	gold (i) bromide	10294-27-6	25.00	8.2000	1
53	Ag2CO3	silver (i) carbonate	534-16-7	25.00	6.0770	1	261	AuCN	gold (i) cyanide	506-65-0	25.00	7.2000	1
55	Ag2C2O4	silver (i) oxalate	533-51-7	25.00	5.0300	1	267	AuCl	gold (i) chloride	10294-29-8	25.00	7.6000	1
57	Ag2CrO4	silver chromate	7784-01-2	25.00	5.6250	1	268	AuCl3	gold (iii) chloride	13453-07-1	25.00	4.6700	1
58	Ag2Cr2O7	silver dichromate	7784-02-3	25.00	4.7700	1	269	AuF3	gold (iii) fluoride	14720-21-9	25.00	6.7500	1
59	Ag2F	silver subfluoride	1302-01-8	25.00	8.6000	1	272	AuI	gold (i) iodide	10294-31-2	25.00	8.2500	1
60	Ag2HgI4	silver (i) tetraiodomercurate (ii)	7784-03-4	25.00	6.1000	1	279	Au2S	gold (i) sulfide	1303-60-2	25.00	11.0000	1
61	Ag2MoO4	silver (i) molybdate	13765-74-7	25.00	6.1800	1	280	Au2S3	gold (iii) sulfide	1303-61-3	25.00	8.7500	1
62	Ag2O	silver (i) oxide	20667-12-3	25.00	7.2000	1	281	Au2Se3	gold (iii) selenide	1303-62-4	25.00	4.6500	1
67	Ag2S	silver (i) sulfide	21548-73-2	25.00	7.2300	1	283	B	boron	7440-42-8	25.00	2.3400	1
68	Ag2SO4	silver (i) sulfate	10294-26-5	25.00	5.4500	1	284	BAs	boron arsenide	12005-69-5	25.00	5.2200	1
69	Ag2Se	silver (i) selenide	1302-09-6	25.00	8.2160	1	361	BCl3	boron trichloride	10294-34-5	-107.00	1.8630	1
70	Ag2SeO3	silver (i) selenite	7784-05-6	25.00	5.9300	1	363	BF3	boron trifluoride	7637-07-2	-127.10	1.8645	1
71	Ag2SeO4	silver (i) selenate	7784-07-8	25.00	5.7200	1	365	BHO2	metaboric acid (a form)	13460-50-9	25.00	1.7840	1
72	Ag2Te	silver (i) telluride	12002-99-2	25.00	8.4000	1	366	BHO2	metaboric acid (b form)	13460-50-9	25.00	2.0450	1
75	Ag3PO4	silver (i) phosphate	7784-09-0	25.00	6.3700	1	367	BHO2	metaboric acid (c form)	13460-50-9	25.00	2.4870	1
77	Al	aluminum	7429-90-5	20.00	2.7054	1	370	BH3O3	boric acid	10043-35-3	25.00	1.5430	1
78	AlAs	aluminum arsenide	22831-42-1	25.00	3.7600	1	372	BI3	boron triiodide	13517-10-7	25.00	3.9600	1
79	AlB2	aluminum diboride	12041-50-8	25.00	3.1900	1	373	BN	boron nitride	10043-11-5	25.00	2.1800	1
82	AlBr3	aluminum bromide	7727-15-3	25.00	3.2000	1	394	B2H6	diborane	19287-45-7	-183.00	0.5771	1
83	AlBr3H12O6	aluminum bromide hexahydrate	7784-11-4	25.00	2.5400	1	395	B2O3	boron oxide	1303-86-2	25.00	2.5500	1
86	AlC2H6Cl	aluminum, dimethyl chloride	1184-58-3	-21.00	1.2210	2	396	B2S3	boron sulfide	12007-33-9	25.00	1.5500	1
88	AlC3H9	aluminum, trimethyl	75-24-1	-10.00	0.8770	1	402	B4C	boron carbide	12069-32-8	25.00	2.5000	1
96	AlC6H15	aluminum, triethyl	97-93-8	-52.50	1.0343	2	413	B10H14	decaborane	---	25.00	0.9400	1
97	AlC6H15O3	aluminum ethoxide	555-75-9	20.00	1.1420	1	416	Ba	barium	7440-39-3	25.00	3.6200	1
122	AlC54H105O6	aluminum stearate	637-12-7	25.00	1.0700	1	419	BaB2H2O5	barium metaborate monohydrate	26124-86-7	25.00	3.3000	1
123	AlC54H99O6	aluminum oleate	688-37-9	25.00	1.0100	1	421	BaB6	barium hexaboride	12046-08-1	25.00	4.3600	1
127	AlCl3	aluminum chloride	7446-70-0	192.55	2.4453	1	423	BaBr2	barium bromide	10553-31-8	25.00	4.7810	1
129	AlCl3H12O6	aluminum chloride hexahydrate	7784-13-6	25.00	2.3980	1	424	BaBr2H2O7	barium bromate monohydrate	10326-26-8	25.00	3.9900	1
131	AlCl3H18O21	aluminum perchlorate nonahydrate	81029-06-3	25.00	2.0000	1	425	BaBr2H4O2	barium bromide dihydrate	7791-28-8	25.00	3.7000	1
134	AlF3	aluminum fluoride	7784-18-1	25.00	3.1000	1	427	BaC2	barium carbide	50813-65-5	25.00	3.7400	1
135	AlF3H2O	aluminum fluoride monohydrate	32287-65-3	25.00	2.1700	1	429	BaC2H2O4	barium formate	541-43-5	25.00	3.2100	1
136	AlF3H6O3	aluminum fluoride trihydrate	15098-87-0	25.00	1.9140	1	430	BaC2H2O5	barium oxalate monohydrate	13463-22-4	25.00	2.6600	1
138	AlHO2	aluminum oxyhydroxide (beta})	14457-84-2	25.00	3.4400	1	432	BaC2H6N2O3S2	barium thiocyanate trihydrate	68016-36-4	25.00	2.2860	1
140	AlH3O3	aluminum hydroxide	21645-51-2	20.00	2.4200	1	435	BaC2O4	barium oxalate	516-02-9	25.00	2.6580	1
143	AlH12I3O6	aluminum iodide hexahydrate	10090-53-6	25.00	2.6300	1	437	BaC4H4O6	barium tartrate	5908-81-6	25.00	2.9800	1
144	AlH18N3O18	aluminum nitrate nonahydrate	7784-27-2	25.00	1.7200	1	438	BaC4H6O4	barium acetate	543-80-6	25.00	2.4700	1
145	AlH28NO20S2	aluminum ammonium sulfate dodecahydrate	7784-26-1	25.00	1.6500	1	439	BaC4H8N4O4Pt	barium tetracyanoplatinate (ii) tetrahydrate	13755-32-3	25.00	2.0760	1
146	AlI3	aluminum iodide	7784-23-8	25.00	3.9800	1	440	BaC4H8O5	barium acetate monohydrate	5908-64-5	25.00	2.1900	1
148	AlN	aluminum nitride	24304-00-5	25.00	3.2550	1	453	BaC36H70O4	barium stearate	6865-35-6	25.00	1.1450	1
150	AlO9P3	aluminum metaphosphate	32823-06-6	25.00	2.7800	1	454	BaCl2	barium chloride	10361-37-2	25.00	3.9000	1
151	AlP	aluminum phosphide	20859-73-8	25.00	2.4000	1	455	BaCl2H2O7	barium chlorate monohydrate	10294-38-9	25.00	3.1790	1
152	AlPO4	aluminum phosphate	7784-30-7	23.00	2.4981	1	456	BaCl2H4O2	barium chloride dihydrate	10326-27-9	25.00	3.0970	1
153	AlSb	aluminum antimonide	25152-52-7	25.00	4.2600	1	457	BaCl2H6O11	barium perchlorate trihydrate	10294-39-0	25.00	2.7400	1
160	Al2FeO4	aluminate, iron (ii)	12068-49-4	25.00	4.3000	1	459	BaCl2O8	barium perchlorate	13465-95-7	25.00	3.2000	1
163	Al2H4O9Si2	aluminum silicate dihydrate	1332-58-7	25.00	2.5900	1	460	BaCO3	barium carbonate	513-77-9	25.00	4.4300	1
164	Al2H36O30S3	aluminum sulfate octadecahydrate	7784-31-8	25.00	1.6900	1	461	BaCrO4	barium chromate (vi)	10294-40-3	25.00	4.5000	1
167	Al2O3	aluminum oxide	1344-28-1	25.00	3.9826	1	463	BaCr2K2O8	barium potassium chromate	27133-66-0	25.00	3.6300	1
174	Al2S3	aluminum sulfide	1302-81-4	25.00	2.0200	1	464	BaF2	barium fluoride	7787-32-8	25.00	4.8930	1
175	Al2S3O12	aluminum sulfate	10043-01-3	25.00	2.7101	2	466	BaHO4P	barium hydrogen phosphate	10048-98-3	25.00	4.1600	1
176	Al2Se3	aluminum selenide	1302-82-5	25.00	3.4370	1	467	BaH2	barium hydride	13477-09-3	25.00	4.1600	1
177	Al2SiO5	aluminum silicate	12183-80-1	25.00	3.1450	1	468	BaH2I2O7	barium iodate monohydrate	7787-34-0	25.00	5.0000	1
178	Al2Te3	aluminum telluride	12043-29-7	25.00	4.5000	1	469	BaH2N2O5	barium nitrite monohydrate	7787-38-4	25.00	3.1800	1
181	Al4C3	aluminum carbide	1299-86-1	25.00	2.3600	1	471	BaH2O4S2	barium thiosulfate monohydrate	7787-40-8	25.00	3.5000	1
183	Am	americium	7440-35-9	25.00	12.0000	1	473	BaH4I2O2	barium iodide dihydrate	7787-33-9	25.00	5.0000	1
185	AmBr3	americium (iii) bromide	14933-38-1	25.00	6.8500	1	474	BaH4O3	barium hydroxide monohydrate	22326-55-2	25.00	3.7430	1
188	AmCl3	americium (iii) chloride	13464-46-5	25.00	5.8700	1	475	BaH4O8S2	barium dithionate dihydrate	13845-17-5	25.00	4.5400	1
189	AmF3	americium (iii) fluoride	13708-80-0	25.00	9.5300	1	476	BaH6O5P2	barium hypophosphite monohydrate	14871-79-5	25.00	2.9000	1
190	AmF4	americium (iv) fluoride	15947-41-8	25.00	7.2300	1	479	BaH18O10	barium hydroxide octahydrate	12230-71-6	25.00	2.1800	1

Table 6 Density of Solid - Inorganic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
481	BaI2	barium iodide	13718-50-8	25.00	5.1500	1	646	CNBr	cyanogen bromide	506-68-3	25.00	2.0050	1
482	BaI2O6	barium iodate	10567-69-8	25.00	5.2300	1	649	CNI	cyanogen iodide	506-78-5	25.00	1.8400	1
483	BaMnO4	barium manganate (vi)	7787-35-1	25.00	4.8500	1	651	CN4O8	tetranitromethane	509-14-8	13.90	1.6000	2
484	BaMoO4	barium molybdate	7787-37-3	25.00	4.9750	1	652	CO	carbon monoxide	630-08-0	-205.00	0.9902	2
485	BaMn2O8	barium permanganate	7787-36-2	25.00	3.7700	1	653	COS	carbonyl sulfide	463-58-1	-138.85	1.5620	2
486	BaN2O4	barium nitrite	13465-94-6	25.00	3.2340	1	655	CO2	carbon dioxide	124-38-9	-56.57	1.5141	1
487	BaN2O6	barium nitrate	10022-31-8	25.00	3.2400	1	656	CS2	carbon disulfide	75-15-0	-115.70	1.5542	1
488	BaN6	barium azide	18810-58-7	25.00	2.9360	1	667	C4H9NO5	ammonium hydrogen malate	5972-71-4	25.00	1.1500	1
489	BaNb2O6	barium niobate	12009-14-2	25.00	5.4400	1	675	Ca	calcium	7440-70-2	25.00	1.5400	1
491	BaO	barium oxide	1304-28-5	25.00	5.7200	1	677	CaAl2O4	calcium aluminate	12042-68-1	25.00	2.9800	1
492	BaO2	barium peroxide	1304-29-6	25.00	4.9600	1	681	CaB6	calcium boride	12007-99-7	25.00	2.4900	1
494	BaO3S	barium sulfite	7787-39-5	25.00	4.4400	1	682	CaBr2	calcium bromide	7789-41-5	25.00	3.3800	1
497	BaO3Si	barium metasilicate	13255-26-0	25.00	4.4000	1	685	CaBr2H12O6	calcium bromide hexahydrate	13477-28-6	25.00	2.2900	1
498	BaO3Sn	barium stannate	12009-18-6	25.00	7.2400	1	687	CaCN2	calcium cyanamide	156-62-7	25.00	2.2900	1
499	BaO3Ti	barium titanate	12047-27-7	25.00	6.0200	1	688	CaCO3	calcium carbonate (calcite)	471-34-1	25.00	2.7100	1
500	BaO3Zr	barium zirconate	12009-21-1	25.00	5.5200	1	689	CaC2	calcium carbide	75-20-7	25.00	2.2200	1
501	BaO4S	barium sulfate	7727-43-7	25.00	4.4900	1	691	CaC2H2O4	calcium formate	544-17-2	25.00	2.0200	1
502	BaO4Se	barium selenate	7787-41-9	25.00	4.7500	1	692	CaC2H2O5	calcium oxalate monohydrate	5794-28-5	25.00	2.2000	1
503	BaO4W	barium tungstate	7787-42-0	25.00	5.0400	1	696	CaC2O4	calcium oxalate	563-72-4	25.00	2.2000	1
504	BaO5Si2	barium disilicate	12650-28-1	25.00	3.7000	1	701	CaC4H6O4	calcium acetate	62-54-4	25.00	1.5000	1
511	BaS	barium sulfide	21109-95-5	25.00	4.3000	1	713	CaCl2	calcium chloride	10043-52-4	25.00	2.1516	1
512	BaSe	barium selenide	1304-39-8	25.00	5.0200	1	714	CaCl2H2O	calcium chloride monohydrate	13477-29-7	25.00	2.2400	1
514	BaSiF6	barium hexafluorosilicate	17125-80-3	25.00	4.2900	1	715	CaCl2H4O2	calcium chloride dihydrate	10035-04-8	25.00	1.8500	1
515	BaTe	barium telluride	12009-36-8	25.00	5.1300	1	716	CaCl2H4O8	calcium chlorate dihydrate	10035-05-9	25.00	2.7110	1
516	Ba2C6H12FeN6O6	barium ferrocyanide hexahydrate	13821-06-2	25.00	2.6660	1	719	CaCl2H12O6	calcium chloride hexahydrate	7774-34-7	25.00	1.7100	1
518	Ba2NaNb5O15	barium sodium niobate	12323-03-4	25.00	5.4000	1	723	CaCl2O8	calcium perchlorate	13477-36-6	25.00	2.6500	1
521	Ba2O7P2	barium pyrophosphate	13466-21-2	25.00	3.9000	1	725	CaCrH4O6	calcium chromate dihydrate	13765-19-0	25.00	2.5000	1
525	Ba3Cr2O8	barium chromate (v)	12345-14-1	25.00	5.2500	1	726	CaCr2H6O10	calcium dichromate trihydrate	14307-33-6	25.00	2.3700	1
526	Ba3N2	barium nitride	12047-79-9	25.00	4.7800	1	728	CaF2	calcium fluoride	7789-75-5	25.00	3.1800	1
527	Ba3O8V2	barium orthovanadate	39416-30-3	25.00	5.1400	1	729	CaF6H4O2Si	calcium hexafluorosilicate dihydrate	16925-39-6	25.00	2.2500	1
530	Be	beryllium	7440-41-7	25.00	1.8480	1	730	CaHO4P	calcium hydrogen phosphate	7757-93-9	25.00	2.9200	1
531	BeAl2O4	beryllium aluminate	12004-06-7	25.00	3.6500	1	732	CaH2	calcium hydride	7789-78-8	25.00	1.7000	1
534	BeBr2	beryllium bromide	7787-46-4	25.00	3.4650	1	733	CaH2O2	calcium hydroxide	1305-62-0	20.00	2.3430	1
540	BeC10H14O4	beryllium acetylacetonate	10210-64-7	25.00	1.1680	1	738	CaH4O6S	calcium sulfate dihydrate	10101-41-4	25.00	2.3200	1
541	BeCl2	beryllium chloride	7787-47-5	25.00	1.9000	1	739	CaH4O6Se	calcium selenate dihydrate	7790-74-1	25.00	2.7500	1
543	BeF2	beryllium fluoride	7787-49-7	25.00	2.1000	1	740	CaH5O6P	calcium hydrogen phosphate dihydrate	7789-77-7	25.00	2.3100	1
544	BeH2	beryllium hydride	7787-52-2	25.00	0.6500	1	742	CaH6O9P2	calcium dihydrogen phosphate monohydrate	10031-30-8	25.00	2.2200	1
545	BeH2O2	beryllium hydroxide	13327-32-7	25.00	1.9200	1	743	CaH8N2O10	calcium nitrate tetrahydrate	13477-34-4	25.00	1.8200	1
548	BeH8O8S	beryllium sulfate tetrahydrate	7787-56-6	25.00	1.7100	1	744	CaH12I2O6	calcium iodide hexahydrate	71626-98-7	25.00	2.5500	1
549	BeH8O8Se	beryllium selenate tetrahydrate	10039-31-3	25.00	2.0300	1	745	CaH12O9S2	calcium thiosulfate hexahydrate	10124-41-1	25.00	1.8700	1
550	BeI2	beryllium iodide	7787-53-3	25.00	4.3200	1	746	CaI2	calcium iodide	10102-68-8	25.00	3.9600	1
551	BeO	beryllium oxide	1304-56-9	25.00	3.0100	1	747	CaI2O6	calcium iodate	7789-80-2	25.00	4.5200	1
552	BeO4S	beryllium sulfate	13510-49-1	25.00	2.5000	1	748	CaMn2O8	calcium permanganate	10118-76-0	25.00	2.4000	1
553	BeS	beryllium sulfide	13598-22-6	25.00	2.3600	1	749	CaMoO4	calcium molybdate	7789-82-4	25.00	4.3500	1
556	Be2C	beryllium carbide	506-66-1	25.00	1.9000	1	750	CaN2O4	calcium nitrite	13780-06-8	25.00	2.2300	1
557	Be3Al2O18Si6	beryllium aluminum metasilicate	1302-52-9	25.00	2.6400	1	751	CaN2O6	calcium nitrate	10124-37-5	25.00	2.5000	1
558	Be3N2	beryllium nitride	1304-54-7	25.00	2.7100	1	752	CaO	calcium oxide	1305-78-8	25.00	3.3400	1
560	Be4C12H18O13	beryllium basic acetate	1332-52-1	25.00	1.2500	1	753	CaO2	calcium peroxide	1305-79-9	25.00	2.9000	1
562	Bi	bismuth	7440-69-9	25.00	9.8160	1	754	CaO3Si	calcium metasilicate	1344-95-2	25.00	2.9200	1
563	BiBrO	bismuth oxybromide	7787-57-7	25.00	8.0800	1	755	CaO3Ti	calcium titanate	12049-50-2	25.00	3.9800	1
564	BiBr3	bismuth tribromide	7787-58-8	25.00	5.7200	1	757	CaO4S	calcium sulfate	7778-18-9	25.00	2.9605	1
566	BiC6H5O7	bismuth citrate	813-93-4	25.00	3.4580	1	758	CaO4W	calcium tungstate	7790-75-2	25.00	6.0600	1
575	BiClO	bismuth oxychloride	7787-59-9	25.00	7.7200	1	760	CaS	calcium sulfide	20548-54-3	25.00	2.5900	1
576	BiCl3	bismuth trichloride	7787-60-2	25.00	4.7500	1	761	CaSe	calcium selenide	1305-84-6	25.00	3.8000	1
578	BiF3	bismuth fluoride	7787-61-3	25.00	8.3000	1	762	CaSi	calcium silicide	12013-55-7	25.00	2.3900	1
579	BiF5	bismuth pentafluoride	7787-62-4	25.00	5.5500	1	763	CaSi2	calcium silicide	12013-56-8	25.00	2.5000	1
581	BiH3O3	bismuth hydroxide	10361-43-0	25.00	4.9620	1	764	CaTe	calcium telluride	12013-57-9	25.00	4.8700	1
582	BiH10N3O14	bismuth nitrate pentahydrate	10035-06-0	25.00	2.8300	1	767	Ca2O7P2	calcium pyrophosphate	7790-76-3	25.00	3.0900	1
583	BiIO	bismuth oxyiodide	7787-63-5	25.00	7.9200	1	768	Ca3Al2O6	calcium aluminate (b form)	12042-78-3	25.00	3.0400	1
584	BiI3	bismuth triiodide	7787-64-6	25.00	5.7780	1	769	Ca3As2O8	calcium arsenate	7778-44-1	25.00	3.6000	1
585	BiNO4	bismuth oxynitrate	10361-46-3	25.00	4.9300	1	771	Ca3N2	calcium nitride	12013-82-0	25.00	2.6700	1
588	BiO4P	bismuth phosphate	10049-01-1	25.00	6.3200	1	772	Ca3O8P2	calcium phosphate	7758-87-4	25.00	3.1400	1
589	BiO4V	bismuth orthovanadate	14059-33-7	25.00	6.2500	1	773	Ca3P2	calcium phosphide	1305-99-3	25.00	2.5100	1
591	Bi2CO5	bismuth basic carbonate	5892-10-4	25.00	6.8600	1	776	Cd	cadmium	7440-43-9	25.00	8.6900	1
596	Bi2Mo3O12	bismuth molybdate	51898-99-8	25.00	5.9500	1	777	CdBr2	cadmium bromide	7789-42-6	25.00	5.1900	1
597	Bi2O12S3	bismuth sulfate	7787-68-0	25.00	5.0800	1	779	CdCO3	cadmium carbonate	513-78-0	25.00	4.2580	1
599	Bi2O3	bismuth oxide	1304-76-3	25.00	8.9000	1	782	CdC2N2	cadmium cyanide	542-83-6	25.00	2.2300	1
600	Bi2O4	bismuth tetroxide	12048-50-9	25.00	5.6000	1	783	CdC2O4	cadmium oxalate	814-88-0	25.00	3.3200	1
602	Bi2S3	bismuth sulfide	1345-07-9	25.00	6.7800	1	785	CdC4H6O4	cadmium acetate	543-90-8	25.00	2.3400	1
603	Bi2Se3	bismuth selenide	12068-69-8	25.00	7.5000	1	786	CdC4H10O6	cadmium acetate dihydrate	5743-04-4	25.00	2.0100	1
604	Bi2Te3	bismuth telluride	1304-82-1	25.00	7.7400	1	791	CdCl2	cadmium chloride	10108-64-2	25.00	4.0800	1
607	Bi4O12Ti3	bismuth titanate	12048-51-0	25.00	7.8500	1	792	CdCl2H5O2.5	cadmium chloride hemipentahydrate	7790-78-5	25.00	3.3270	1
611	Bk	berkelium (a form)	7440-40-6	25.00	14.7800	1	793	CdCl2H12O14	cadmium perchlorate hexahydrate	10326-28-0	25.00	2.3700	1
612	Bk	berkelium (b form)	7440-40-6	25.00	13.2500	1	796	CdCrO4	cadmium chromate	14312-00-6	25.00	4.5000	1
628	BrF5	bromine pentafluoride	7789-30-2	-61.30	3.0900	1	798	CdF2	cadmium fluoride	7790-79-6	25.00	6.3300	1
633	Br2	bromine	7726-95-6	-194.00	4.1071	1	800	CdH2O2	cadmium hydroxide	21041-95-2	25.00	4.7900	1
638	C	diamond	7782-40-3	25.00	3.5130	1	801	CdH2O5S	cadmium sulfate monohydrate	7790-84-3	25.00	3.7900	1
639	C	graphite	7782-42-5	20.00	2.2500	1	802	CdH4O6Se	cadmium selenate dihydrate	10060-09-0	25.00	3.6200	1
644	CH4N2O	urea	57-13-6	20.00	1.3350	1	803	CdH8N2O10	cadmium nitrate tetrahydrate	10022-68-1	25.00	2.4500	1
645	CH4N2S	thiourea	62-56-6	25.00	1.4050	1	804	CdI2	cadmium iodide	7790-80-9	25.00	5.6400	1

Table 6 Density of Solid - Inorganic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
805	CdI2O6	cadmium iodate	7790-81-0	25.00	6.4800	1	1012	CoS	cobalt (ii) sulfide	1317-42-6	25.00	5.4500	1
806	CdMoO4	cadmium molybdate	13972-68-4	25.00	5.4000	1	1013	CoS2	cobalt disulfide	12013-10-4	25.00	4.3000	1
807	CdN2O6	cadmium nitrate	10325-94-7	25.00	3.6000	1	1014	CoSb	cobalt antimonide	12052-42-5	25.00	8.8000	1
808	CdN6	cadmium azide	14215-29-3	25.00	3.2400	1	1015	CoSe	cobalt (ii) selenide	1307-99-9	25.00	7.6500	1
809	CdO	cadmium oxide	1306-19-0	25.00	8.1500	1	1016	CoSi2	cobalt silicide	12017-12-8	25.00	4.9000	1
812	CdO3Si	cadmium metasilicate	13477-19-5	25.00	5.1000	1	1017	CoTe	cobalt (ii) telluride	12017-13-9	25.00	8.8000	1
814	CdO3Ti	cadmium titanate	12014-14-1	25.00	6.5000	1	1018	Co2C8O8	cobalt carbonyl	10210-68-1	25.00	1.7800	1
816	CdO4S	cadmium sulfate	10124-36-4	25.00	4.6900	1	1021	Co2O3	cobalt (iii) oxide	1308-04-9	25.00	5.1800	1
817	CdO4W	cadmium tungstate	7790-85-4	25.00	8.0000	1	1022	Co2O4Si	cobalt (ii) orthosilicate	12017-08-2	25.00	4.6300	1
820	CdS	cadmium sulfide	1306-23-6	25.00	4.8300	1	1023	Co2O4Sn	cobalt (ii) stannate	12139-93-4	25.00	6.3000	1
821	CdSb	cadmium antimonide	12014-29-8	25.00	6.9200	1	1024	Co2O4Ti	cobalt (iii) titanate	12017-38-8	25.00	5.1000	1
822	CdSe	cadmium selenide	1306-24-7	25.00	5.8100	1	1025	Co2P	cobalt phosphide	12134-02-0	25.00	6.4000	1
823	CdTe	cadmium telluride	1306-25-8	25.00	6.2000	1	1026	Co2S3	cobalt (iii) sulfide	1332-71-4	25.00	4.8000	1
824	Cd2Nb2O7	cadmium niobate	12187-14-3	25.00	6.2800	1	1027	Co3As2H16O16	cobalt (ii) arsenate octahydrate	24719-19-5	25.00	3.0000	1
826	Cd3As2	cadmium arsenide	12006-15-4	25.00	6.2500	1	1030	Co3H16O16P2	cobalt (ii) phosphate octahydrate	10294-50-5	25.00	2.7700	1
827	Cd3H16O20S3	cadmium sulfate octahydrate	7790-84-3	25.00	3.0800	1	1031	Co3O4	cobalt tetroxide	1308-06-1	25.00	6.1100	1
829	Cd3P2	cadmium phosphide	12014-28-7	25.00	5.9600	1	1033	Co4C12O12	cobalt dodecacarbonyl	17786-31-1	25.00	2.0900	1
830	Ce	cerium	7440-45-1	25.00	6.7700	1	1035	Cr	chromium	7440-47-3	25.00	7.1500	1
831	CeB6	cerium boride	12008-02-5	25.00	4.8700	1	1036	CrB	chromium boride	12006-79-0	25.00	6.1000	1
834	CeC2	cerium carbide	12012-32-7	25.00	5.4700	1	1037	CrB2	chromium diboride	12007-16-8	25.00	5.2200	1
842	CeCl3	cerium (iii) chloride	7790-86-5	25.00	3.9700	1	1038	CrBr2	chromium (ii) bromide	10049-25-9	25.00	4.2360	1
844	CeCl3H14O7	cerium (iii) chloride heptahydrate	18618-55-8	25.00	3.9200	1	1039	CrBr3	chromium (iii) bromide	10031-25-1	25.00	4.6800	1
846	CeF3	cerium (iii) fluoride	7758-88-5	25.00	6.1570	1	1040	CrBr3H12O6	chromium (iii) bromide hexahydrate	13478-06-3	25.00	5.4000	1
847	CeF4	cerium (iv) fluoride	10060-10-3	25.00	4.7700	1	1042	CrC2H2O5	chromium (ii) oxalate monohydrate	---	25.00	2.4680	1
851	CeH2	cerium (ii) hydride	13569-50-1	25.00	5.4500	1	1045	CrC4H8O5	chromium (ii) acetate monohydrate	---	25.00	1.7900	1
855	CeH8O12S2	cerium (iv) sulfate tetrahydrate	10294-42-5	25.00	3.9100	1	1049	CrC6O6	chromium carbonyl	13007-92-6	25.00	1.7700	1
858	CeN	cerium nitride	25764-08-3	25.00	7.8900	1	1066	CrC15H21O6	chromium acetylacetonate	21679-31-2	25.00	1.3400	1
859	CeO2	cerium (iv) oxide	1306-38-3	20.00	7.3000	1	1071	CrCl2	chromium (ii) chloride	10049-05-5	25.00	2.8800	1
864	CeS	cerium (ii) sulfide	12014-82-3	25.00	5.9000	1	1073	CrCl3	chromium (iii) chloride	10025-73-7	25.00	2.8700	1
865	CeSi2	cerium silicide	12014-85-6	25.00	5.3100	1	1077	CrF2	chromium (ii) fluoride	10049-10-2	25.00	3.7900	1
866	Ce2C3	cerium (iii) carbide	12115-63-8	25.00	6.9000	1	1078	CrF3	chromium (iii) fluoride	7788-97-8	25.00	3.8000	1
872	Ce2O3	cerium (iii) oxide	1345-13-7	25.00	6.2000	1	1079	CrF3H6O3	chromium (iii) fluoride trihydrate	16671-27-5	25.00	2.2000	1
873	Ce2O12S3	cerium (iii) sulfate	13454-94-9	25.00	3.9120	1	1081	CrF4	chromium (iv) fluoride	10049-11-3	25.00	2.8900	1
875	Ce2S3	cerium (iii) sulfide	12014-93-6	25.00	5.0200	1	1085	CrH2O4	chromic acid	7738-94-5	25.00	2.2900	1
877	Cf	californium	7440-71-3	25.00	15.1000	1	1086	CrH4KO8S2	chromium potassium sulfate	10141-00-1	25.00	1.8130	1
892	ClFO3	perchloryl fluoride	7616-94-6	-190.00	2.1900	1	1089	CrH12O10P	chromium (iii) phosphate hexahydrate	84359-31-9	25.00	2.1210	1
898	ClO2	chlorine dioxide	10049-04-4	-59.60	2.0843	2	1090	CrH18N3O18	chromium (iii) nitrate nonahydrate	7789-02-8	25.00	1.8000	1
899	Cl2	chlorine	7782-50-5	-160.00	2.0900	1	1091	CrH24KO20S2	chromium (iii) potassium sulfate dodecahydrate	7788-99-0	25.00	1.8300	1
906	Cm	curium	7440-51-9	25.00	13.5100	1	1092	CrH28NO20S2	chromic, ammonium sulfate dodecahydrate	10022-47-6	25.00	1.7200	1
916	Co	cobalt	7440-48-4	25.00	8.8600	1	1093	CrI2	chromium (ii) iodide	13478-28-9	25.00	5.1000	1
917	CoAl2O4	cobalt (ii) aluminate	13820-62-7	25.00	4.3700	1	1094	CrI3	chromium (iii) iodide	13569-75-0	25.00	5.3200	1
918	CoAs	cobalt arsenide	27016-73-5	25.00	8.2200	1	1096	CrN	chromium nitride	24094-93-7	25.00	5.9000	1
919	CoAs2	cobalt arsenide	12044-42-7	25.00	7.2000	1	1098	CrO2	chromium (iv) oxide	12018-01-8	25.00	4.8900	1
920	CoAs3	cobalt arsenide	12256-04-1	25.00	6.8400	1	1100	CrO3	chromium (vi) oxide	1333-82-0	23.00	2.8139	1
922	CoB	cobalt boride	12006-77-8	25.00	7.2500	1	1101	CrO4P	chromium (iii) phosphate	7789-04-0	25.00	4.6000	1
924	CoBr2	cobalt (ii) bromide	7789-43-7	25.00	4.9100	1	1102	CrP	chromium phosphide	26342-61-0	25.00	5.2500	1
925	CoBr2H12O12	cobalt (ii) bromate hexahydrate	13476-01-2	25.00	2.4620	1	1103	CrSb	chromium antimonide	12053-12-2	25.00	7.1100	1
926	CoBr2H12O6	cobalt (ii) bromide hexahydrate	13762-12-4	25.00	2.4600	1	1104	CrSe	chromium selenide	12053-13-3	25.00	6.1000	1
928	CoCO3	cobalt (ii) carbonate	513-79-1	25.00	4.2000	1	1105	CrSi2	chromium silicide	12018-09-6	25.00	4.9100	1
932	CoC2H6O6	cobalt (ii) formate dihydrate	6424-20-0	25.00	2.1300	1	1106	Cr2As	chromium arsenide	12254-85-2	25.00	7.0400	1
933	CoC2N2	cobalt (ii) cyanide	542-84-7	25.00	1.8720	1	1114	Cr2H8N2O7	dichromate, ammonium	7789-09-5	25.00	2.1550	1
936	CoC2O4	cobalt (ii) oxalate	814-89-1	25.00	3.0200	1	1115	Cr2N	chromium nitride	12053-27-9	25.00	6.8000	1
938	CoC4H14O8	cobalt (ii) acetate tetrahydrate	6147-53-1	25.00	1.7050	1	1116	Cr2O3	chromium (iii) oxide	1308-38-9	25.00	5.2200	1
968	CoCl2	cobalt chloride	7646-79-9	25.00	3.3600	1	1117	Cr2O12S3	chromium (iii) sulfate	10101-53-8	25.00	3.1000	1
969	CoCl2H4O2	cobalt (ii) chloride dihydrate	16544-92-6	25.00	2.4770	1	1118	Cr2S3	chromium (iii) sulfide	12018-22-3	25.00	3.8000	1
970	CoCl2H12O6	cobalt (ii) chloride hexahydrate	7791-13-1	25.00	1.9240	1	1119	Cr2Te3	chromium (iii) telluride	12053-39-3	25.00	7.0000	1
972	CoCl2O8	cobalt (ii) perchlorate	13455-31-7	25.00	3.3300	1	1120	Cr3C2	chromium carbide	12012-35-0	25.00	6.6800	1
975	CoCl3H18N6	cobalt (iii) hexammine chloride	10534-89-1	25.00	1.7100	1	1121	Cr3O4	chromium (ii,iii) oxide	12018-34-7	25.00	6.1000	1
976	CoCrO4	cobalt (ii) chromate	24613-38-5	25.00	4.0000	1	1122	Cr3Si	chromium silicide	12018-36-9	25.00	6.4000	1
977	CoCr2O4	cobalt (ii) chromite	---	25.00	5.1400	1	1123	Cr5B3	chromium boride	12007-38-4	25.00	6.1000	1
978	CoF2	cobalt (ii) fluoride	10026-17-2	25.00	4.4600	1	1124	Cs	cesium	7440-46-2	25.00	1.9300	1
979	CoF2H8O4	cobalt (ii) fluoride tetrahydrate	13817-37-3	25.00	2.2200	1	1129	CsBrO3	cesium bromate	13454-75-6	25.00	4.1100	1
980	CoF3	cobalt (iii) fluoride	10026-18-3	25.00	3.8800	1	1133	CsCN	cesium cyanide	21159-32-0	25.00	3.3400	1
982	CoF6H12O6Si	cobalt (ii) hexafluorosilicate hexahydrate	---	25.00	2.0870	1	1137	CsCl	cesium chloride	7647-17-8	25.00	3.9880	1
986	CoH2O2	cobalt (ii) hydroxide	21041-93-0	25.00	3.6000	1	1138	CsClO3	cesium chlorate	13763-67-2	25.00	3.5700	1
987	CoH2O5S	cobalt (ii) sulfate monohydrate	13455-34-0	25.00	3.0800	1	1139	CsClO4	cesium perchlorate	13454-84-7	25.00	3.3270	1
988	CoH3K3N6O13.5	cobalt (iii) potassium nitrite sesquihydrate	---	25.00	2.6000	1	1141	CsH	cesium hydride	58724-12-2	25.00	3.4200	1
994	CoH10N7O8	cobalt (iii) ammonium tetranitrodiammine	13600-89-0	25.00	1.9700	1	1142	CsHF2	cesium hydrogen fluoride	12280-52-3	25.00	3.8600	1
995	CoH10O9Se	cobalt (ii) selenate pentahydrate	14590-19-3	25.00	2.5100	1	1144	CsI	cesium iodide	7789-17-5	25.00	4.5100	1
996	CoH12I2O6	cobalt (ii) iodide hexahydrate	---	25.00	2.9000	1	1146	CsNH2	cesium amide	22205-57-8	25.00	3.7000	1
997	CoH12K2O14S2	cobalt (ii) potassium sulfate hexahydrate	10026-20-7	25.00	2.2200	1	1147	CsNO3	cesium nitrate	7789-18-6	25.00	3.6600	1
998	CoH12N2O12	cobalt (ii) nitrate hexahydrate	10026-22-9	25.00	1.8800	1	1150	CsOH	cesium hydroxide	21351-79-1	25.00	3.6800	1
999	CoH14O11S	cobalt (ii) sulfate heptahydrate	10026-24-1	25.00	2.0300	1	1151	CsO2	cesium superoxide	12018-61-0	25.00	3.7700	1
1000	CoI2	cobalt (ii) iodide	15238-00-3	25.00	5.6000	1	1154	Cs2CO3	cesium carbonate	534-17-8	25.00	4.2400	1
1001	CoI2O6	cobalt (ii) iodate	13455-28-2	25.00	5.0900	1	1157	Cs2O	cesium oxide	20281-00-9	25.00	4.6500	1
1004	CoN2O6	cobalt (ii) nitrate	10141-05-6	25.00	2.4900	1	1159	Cs2O3	cesium trioxide	12134-22-4	0.00	4.2500	1
1006	CoO	cobalt (ii) oxide	1307-96-6	25.00	6.4400	1	1165	Cs2SO4	cesium sulfate	10294-54-9	25.00	4.2400	1
1007	CoO3Ti	cobalt (ii) titanate	12017-01-5	25.00	5.0000	1	1169	Cu	copper	7440-50-8	25.00	8.9600	1
1009	CoO4Mo	cobalt (ii) molybdate	13762-14-6	25.00	4.7000	1	1172	CuB2O4	copper (ii) borate	39290-85-2	25.00	3.8590	1
1010	CoO4S	cobalt (ii) sulfate	10124-43-3	25.00	3.7100	1	1173	CuBr	cuprous bromide	7787-70-4	25.00	4.9800	1

Table 6 Density of Solid - Inorganic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
1174	CuBr2	copper (ii) bromide	7789-45-9	25.00	4.7100	1	1404	FHO3S	fluorosulfonic acid	7789-21-1	-88.98	2.2416	2
1175	CuCN	copper (i) cyanide	544-92-3	25.00	2.9000	1	1409	F2	fluorine	7782-41-4	-234.15	1.9300	1
1176	CuCNS	copper (i) thiocyanate	1111-67-7	25.00	2.8500	1	1420	Fe	iron	7439-89-6	25.00	7.8700	1
1182	CuC2H2O4	copper (ii) formate	544-19-4	25.00	1.8310	1	1421	FeAs	iron arsenide	12044-16-5	25.00	7.8500	1
1186	CuC2H10O8	copper (ii) formate tetrahydrate	5893-61-8	25.00	1.8100	1	1424	FeBr2	iron (ii) bromide	7789-46-0	25.00	4.6360	1
1190	CuC4H8O5	copper (ii) acetate monohydrate	6046-93-1	25.00	1.8800	1	1425	FeBr2H12O6	iron (ii) bromide hexahydrate	13463-12-2	25.00	4.6400	1
1222	CuC36H70O4	copper (ii) stearate	660-60-6	25.00	1.1000	1	1426	FeBr3	iron (iii) bromide	10031-26-2	25.00	4.5000	1
1229	CuCl	cuprous chloride	7758-89-6	25.00	4.1379	1	1427	FeCO3	iron (ii) carbonate	563-71-3	25.00	3.9000	1
1230	CuCl2	cupric chloride	7447-39-4	25.00	3.3870	1	1428	FeC2H4O6	iron (ii) oxalate dihydrate	6047-25-2	25.00	2.2800	1
1231	CuCl2H4O2	copper (ii) chloride dihydrate	10125-13-0	25.00	2.5100	1	1437	FeC6H18N3O15	ferric, ammonium oxalate trihydrate	13268-42-3	25.00	1.7800	1
1233	CuCl2H12O14	copper (ii) perchlorate hexahydrate	10294-46-9	25.00	2.2200	1	1475	FeC15H21O6	iron (iii) acetylacetonate	14024-18-1	25.00	5.2400	1
1235	CuCl4H12N2O2	copper (ii) chloride dihydrate, ammonium	10060-13-6	25.00	1.9900	1	1502	FeCl2	ferrous chloride	7758-94-3	25.00	2.9850	1
1237	CuCr2H4O9	copper (ii) dichromate dihydrate	13675-47-3	25.00	2.2860	1	1503	FeCl2H8O4	iron (ii) chloride tetrahydrate	13478-10-9	25.00	1.9300	1
1238	CuCr2O4	copper (ii) chromite	12018-10-9	25.00	5.4000	1	1505	FeCl3	ferric chloride	7705-08-0	25.00	2.8979	1
1239	CuF	copper (i) fluoride	13478-41-6	25.00	7.1000	1	1506	FeCl3H12O6	iron (iii) chloride hexahydrate	10025-77-1	25.00	1.8200	1
1240	CuF2	copper (ii) fluoride	7789-19-7	25.00	4.2300	1	1508	FeCr2O4	iron (ii) chromite	1308-31-2	25.00	5.0000	1
1241	CuF2H4O2	copper (ii) fluoride dihydrate	13454-88-1	25.00	2.9340	1	1509	FeF2	iron (ii) fluoride	7789-28-8	25.00	4.0900	1
1242	CuF6H8O4Si	copper (ii) hexafluorosilicate tetrahydrate	12062-24-7	25.00	2.5600	1	1510	FeF2H8O4	iron (ii) fluoride tetrahydrate	13940-89-1	25.00	2.2000	1
1243	CuFeS2	copper (ii) ferrous sulfide	1308-56-1	25.00	4.2000	1	1511	FeF3	iron (iii) fluoride	7783-50-8	25.00	3.8700	1
1246	CuH2O2	copper (ii) hydroxide	20427-59-2	20.00	3.3680	1	1512	FeF3H6O3	iron (iii) fluoride trihydrate	15469-38-2	25.00	2.3000	1
1247	CuH4O5Se	copper (ii) selenite dihydrate	15168-20-4	25.00	3.3100	1	1514	FeHO2	iron (iii) hydroxide oxide	20344-49-4	25.00	4.2600	1
1250	CuH6N2O9	copper (ii) nitrate trihydrate	10031-43-3	25.00	2.3200	1	1515	FeH2O2	iron (ii) hydroxide	18624-44-7	25.00	3.4000	1
1251	CuH10O9S	copper (ii) sulfate pentahydrate	7758-99-8	25.00	2.2860	1	1516	FeH2O5S	iron (ii) sulfate monohydrate	17375-41-6	25.00	3.0000	1
1252	CuH10O9Se	copper (ii) selenate pentahydrate	10031-45-5	25.00	2.5600	1	1517	FeH3O3	iron (iii) hydroxide	1309-33-7	25.00	3.1200	1
1253	CuH12N2O12	copper (ii) nitrate hexahydrate	13478-38-1	25.00	2.0700	1	1518	FeH4Cl2O2	iron (ii) chloride dihydrate	16399-77-2	25.00	2.3900	1
1255	CuI	copper iodide	7681-65-4	25.00	5.6700	1	1520	FeH4O6P	iron (iii) phosphate dihydrate	10045-86-0	25.00	2.8700	1
1256	CuMoO4	copper (ii) molybdate	13767-34-5	25.00	3.4000	1	1524	FeH14O11S	iron (ii) sulfate heptahydrate	7782-63-0	25.00	1.8950	1
1258	CuN3	copper (i) azide	14336-80-2	25.00	3.2600	1	1525	FeH18N3O18	iron (iii) nitrate nonahydrate	7782-61-8	25.00	1.6800	1
1260	CuO	copper (ii) oxide	1317-38-0	25.00	6.3100	1	1526	FeH28NO20S2	ferric, ammonium sulfate dodecahydrate	10138-04-2	25.00	1.7100	1
1265	CuO4S	copper (ii) sulfate	7758-98-7	15.00	3.6002	1	1527	FeI2	iron (ii) iodide	7783-86-0	25.00	5.3000	1
1266	CuO4W	copper (ii) tungstate	13587-35-4	25.00	7.5000	1	1529	FeMoO4	iron (ii) molybdate	13718-70-2	25.00	5.6000	1
1268	CuP2	copper phosphide	12019-11-3	25.00	4.2000	1	1531	FeN3O9	ferric nitrate	10421-48-4	25.00	1.6840	1
1269	CuS	copper (ii) sulfide	1317-40-4	25.00	4.7600	1	1532	FeO	iron (ii) oxide	1345-25-1	25.00	5.7450	1
1270	CuSe	copper (ii) selenide	1317-41-5	25.00	5.9900	1	1533	FeO3Ti	iron (ii) titanate	12168-52-4	25.00	4.7200	1
1271	CuTe	copper (ii) telluride	12019-23-7	25.00	7.0900	1	1534	FeO4S	iron (ii) sulfate	7720-78-7	25.00	3.6500	1
1272	Cu2CH2O5	copper (ii) carbonate hydroxide	12069-69-1	25.00	4.0000	1	1535	FeO4W	iron (ii) tungstate	13870-24-1	25.00	7.5100	1
1275	Cu2C6FeN6	copper (ii) ferrocyanide	13601-13-3	25.00	2.2000	1	1537	FeS	iron (ii) sulfide	1317-37-9	25.00	4.7000	1
1281	Cu2O	copper (i) oxide	1317-39-1	25.00	6.0000	1	1538	FeS2	iron disulfide	1317-66-4	25.00	5.0200	1
1282	Cu2S	copper (i) sulfide	22205-45-4	25.00	5.6000	1	1539	FeSe	iron (ii) selenide	1310-32-3	25.00	6.7000	1
1283	Cu2Se	copper (i) selenide	20405-64-5	25.00	6.8400	1	1540	FeSi	iron silicide	12022-95-6	25.00	6.1000	1
1284	Cu2Te	copper (i) telluride	12019-52-2	25.00	4.6000	1	1541	FeSi2	iron disilicide	12022-99-0	25.00	4.7400	1
1290	Cu3N	copper nitride	1308-80-1	25.00	5.8400	1	1542	FeTe	iron (ii) telluride	12125-63-2	25.00	6.8000	1
1302	D2	deuterium	7782-39-0	-254.42	0.1722	1	1543	Fe2B	iron boride	12006-86-9	25.00	7.3000	1
1303	D2O	deuterium oxide	7789-20-0	-193.15	1.0376	1	1545	Fe2C9O9	iron nonacarbonyl	15321-51-4	25.00	2.8500	1
1307	Dy	dysprosium	7429-91-6	25.00	8.5500	1	1556	Fe2H18O21S3	iron (iii) sulfate nonahydrate	13520-56-4	25.00	2.1000	1
1308	DyB4	dysprosium boride	12310-43-9	25.00	6.9800	1	1557	Fe2N	iron nitride	12023-20-0	25.00	6.3500	1
1316	DyCl3	dysprosium (iii) chloride	10025-74-8	25.00	3.6700	1	1558	Fe2O3	iron (iii) oxide	1309-37-1	20.00	5.1798	1
1319	DyH3	dysprosium (iii) hydride	13537-09-2	25.00	7.1000	1	1559	Fe2O4Si	iron (ii) orthosilicate	10179-73-4	25.00	4.3000	1
1324	DyN	dysprosium nitride	12019-88-4	25.00	9.9300	1	1561	Fe2O12S3	iron (iii) sulfate	10028-22-5	25.00	3.1000	1
1325	DySi2	dysprosium silicide	12133-07-2	25.00	5.2000	1	1562	Fe2P	iron phosphide	1310-43-6	25.00	6.8000	1
1329	Dy2O3	dysprosium (iii) oxide	1308-87-8	25.00	7.8100	1	1564	Fe3C12O12	iron dodecacarbonyl	12088-65-2	25.00	2.0000	1
1330	Dy2S3	dysprosium (iii) sulfide	12133-10-7	25.00	6.0800	1	1565	Fe3H16O16P2	iron (ii) phosphate octahydrate	14940-41-1	25.00	2.5800	1
1332	Er	erbium	7440-52-0	25.00	9.0700	1	1566	Fe3O4	iron (ii,iii) oxide	1317-61-9	25.00	5.1700	1
1333	ErB4	erbium boride	12310-44-0	25.00	7.0000	1	1570	Fe7C18N18	iron (iii) ferrocyanide	14038-43-8	25.00	1.8000	1
1342	ErCl3	erbium chloride	10138-41-7	25.00	4.1000	1	1574	Fr	francium	7440-73-5	25.00	1.8700	2
1344	ErF3	erbium fluoride	13760-83-3	25.00	7.8000	1	1575	Ga	gallium	7440-55-3	25.00	5.9100	1
1348	ErI3	erbium iodide	13813-42-8	25.00	5.5000	1	1576	GaAs	gallium arsenide	1303-00-0	25.00	5.3176	1
1349	ErN	erbium nitride	12020-21-2	25.00	10.6000	1	1577	GaBr3	gallium (iii) bromide	13450-88-9	25.00	3.6900	1
1350	ErS	erbium sulfide	---	25.00	6.0700	1	1580	GaC15H21O6	gallium (iii) acetylacetonate	14405-43-7	25.00	1.4200	1
1351	ErSi2	erbium silicide	12020-28-9	25.00	7.2600	1	1584	GaCl2	gallium (ii) chloride	24597-12-4	25.00	2.7400	1
1352	ErTe	erbium telluride	---	25.00	6.0700	1	1585	GaCl3	gallium trichloride	13450-90-3	25.00	2.4701	1
1354	Er2H16O20S3	erbium sulfate octahydrate	---	25.00	3.2000	1	1587	GaF3	gallium (iii) fluoride	7783-51-9	25.00	4.4700	1
1355	Er2O3	erbium oxide	12061-16-4	25.00	8.6400	1	1589	GaF6H12N3	gallate, ammonium hexafluoro	14639-94-2	25.00	2.1000	1
1356	Er2O12S3	erbium sulfate	13478-49-4	25.00	3.6800	1	1590	GaHO2	gallium (iii) oxide hydroxide	20665-52-5	25.00	5.2300	1
1357	Er2S3	dierbium trisulfide	12159-66-9	25.00	6.0700	1	1593	GaI3	gallium (iii) iodide	13450-91-4	25.00	4.5000	1
1359	Er2Te3	dierbium tritelluride	12020-66-5	25.00	7.1100	1	1594	GaN	gallium nitride	25617-97-4	25.00	6.1000	1
1360	Es	einsteinium	7429-92-7	25.00	8.8400	1	1597	GaO	gallium oxide	12024-08-7	25.00	4.7700	1
1369	Eu	europium	7440-53-1	25.00	5.2400	1	1598	GaP	gallium phosphide	12063-98-8	25.00	4.1380	1
1370	EuB6	europium boride	12008-05-8	25.00	4.9100	1	1599	GaS	gallium (ii) sulfide	12024-10-1	25.00	3.8600	1
1377	EuCl2	europium (ii) chloride	13769-20-5	25.00	4.9000	1	1600	GaSb	gallium antimonide	12064-03-8	25.00	5.6137	1
1378	EuCl3	europium (iii) chloride	10025-76-0	25.00	4.8900	1	1601	GaSe	gallium (ii) selenide	12024-11-2	25.00	5.0300	1
1380	EuCl3H12O6	europium (iii) chloride hexahydrate	13759-92-7	25.00	4.8900	1	1602	GaTe	gallium (ii) telluride	12024-14-5	25.00	5.4400	1
1382	EuF3	europium (iii) fluoride	13765-25-8	25.00	6.7000	1	1603	Ga2H36O30S3	gallium (iii) sulfate octadecahydrate	13780-42-2	25.00	3.8600	1
1388	EuN	europium nitride	12020-58-5	25.00	8.7000	1	1604	Ga2O	gallium suboxide	12024-20-3	25.00	4.7700	1
1391	EuS	europium (ii) sulfide	12020-65-4	25.00	5.7000	1	1607	Ga2S3	gallium (iii) sulfide	12024-22-5	25.00	3.7000	1
1392	EuSe	europium (ii) selenide	12020-69-8	25.00	6.4500	1	1608	Ga2Se3	gallium (iii) selenide	12024-24-7	25.00	4.9200	1
1393	EuSi2	europium silicide	12434-24-1	25.00	5.4600	1	1609	Ga2Te3	gallium (iii) telluride	12024-27-0	25.00	5.5700	1
1394	EuTe	europium (ii) telluride	12020-67-9	25.00	6.4800	1	1610	Gd	gadolinium	7440-54-2	25.00	7.9000	1
1397	Eu2O3	europium oxide	1308-96-9	25.00	7.4200	1	1611	GdB6	gadolinium boride	12008-06-9	25.00	5.3100	1
1398	Eu2O12S3	europium (iii) sulfate	13537-15-0	25.00	4.9900	1	1612	GdBr3	gadolinium (iii) bromide	13818-75-2	25.00	4.5600	1

Table 6 Density of Solid - Inorganic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
1619	GdCl3	gadolinium (iii) chloride	10138-52-0	25.00	4.5200	1	1821	HgSe	mercury (ii) selenide	20601-83-6	25.00	8.2100	1
1623	GdH10N3O14	gadolinium (iii) nitrate pentahydrate	52788-53-1	25.00	2.4100	1	1822	HgSO4	mercury (ii) sulfate	7783-35-9	25.00	6.4700	1
1624	GdH12N3O15	gadolinium (iii) nitrate hexahydrate	19598-90-4	25.00	2.3300	1	1823	HgTe	mercury (ii) telluride	12068-90-5	25.00	8.6300	1
1627	GdN	gadolinium nitride	25764-15-2	25.00	9.1000	1	1824	Hg2Br2	mercury (i) bromide	15385-58-7	25.00	7.3070	1
1628	GdSe	gadolinium (ii) selenide	12024-81-6	25.00	8.1000	1	1826	Hg2C2N2O	mercury (ii) oxycyanide	1335-31-5	25.00	4.4400	1
1629	GdSi2	gadolinium silicide	12134-75-7	25.00	5.9000	1	1829	Hg2Cl2	mercury (i) chloride	10112-91-1	25.00	7.1600	1
1631	Gd2H16O20S3	gadolinium (iii) sulfate octahydrate	13450-87-8	25.00	4.1400	1	1830	Hg2Cl2O6	mercury (i) chlorate	10294-44-7	25.00	6.4100	1
1632	Gd2O3	gadolinium (iii) oxide	12064-62-9	25.00	7.0700	1	1832	Hg2F2	mercury (i) fluoride	13967-25-4	25.00	8.7300	1
1634	Gd2S3	gadolinium (iii) sulfide	12134-77-9	25.00	6.1000	1	1833	Hg2H4N2O8	mercury (i) nitrate dihydrate	14836-60-3	25.00	4.8000	1
1635	Gd2Te3	gadolinium (iii) telluride	12160-99-5	25.00	7.7000	1	1834	Hg2I2	mercury (i) iodide	15385-57-6	25.00	7.7000	1
1637	Ge	germanium	7440-56-4	25.00	5.3212	1	1838	Hg2SO4	mercury (i) sulfate	7783-36-0	25.00	7.5600	1
1639	GeBr4	germanium bromide	13450-92-5	25.00	3.1320	1	1841	Ho	holmium	7440-60-0	25.00	8.8000	1
1661	GeCl4	germanium chloride	10038-98-9	-79.00	2.3500	1	1846	HoCl3	holmium chloride	10138-62-2	25.00	3.7000	1
1662	GeF2	germanium (ii) fluoride	13940-63-1	25.00	3.6400	1	1849	HoF3	holmium fluoride	13760-78-6	25.00	7.6640	1
1665	GeF4	germanium (iv) fluoride	7783-58-6	-36.50	2.4600	1	1852	HoI3	holmium iodide	13813-41-7	25.00	5.4000	1
1666	GeF6H8N2	germanate, ammonium hexafluoro	16962-47-3	25.00	2.5640	1	1853	HoN	holmium nitride	12029-81-1	25.00	10.6000	1
1675	GeH4	germane	7782-65-2	-142.00	1.5230	1	1854	Ho2O3	holmium oxide	12055-62-8	25.00	8.4100	1
1676	GeI2	germanium (ii) iodide	13573-08-5	25.00	5.4000	1	1855	Ho2S3	holmium sulfide	12162-59-3	25.00	5.9200	1
1677	GeI4	germanium (iv) iodide	13450-95-8	25.00	4.4000	1	1858	HoSi2	holmium silicide	12136-24-2	25.00	7.1000	1
1678	GeO	germanium (ii) oxide	20619-16-3	21.00	1.8250	1	1862	IBr	iodine bromide	7789-33-5	25.00	4.3000	1
1679	GeO2	germanium (iv) oxide	1310-53-8	25.00	4.2500	1	1863	ICl	iodine chloride	7790-99-0	25.00	3.2400	1
1680	GeS	germanium (ii) sulfide	12025-32-0	25.00	4.1000	1	1864	ICl3	iodine trichloride	865-44-1	25.00	3.2000	1
1681	GeS2	germanium (iv) sulfide	12025-34-2	25.00	3.0100	1	1868	IF5	iodine pentafluoride	7783-66-6	0.00	3.7500	1
1682	GeSe	germanium (ii) selenide	12065-10-0	25.00	5.6000	1	1869	IF7	iodine heptafluoride	16921-96-3	6.00	2.8000	1
1683	GeSe2	germanium (iv) selenide	12065-11-1	25.00	4.5600	1	1870	IHO3	iodic acid	7782-68-5	25.00	4.6300	1
1684	GeTe	germanium (ii) telluride	12025-39-7	25.00	6.1600	1	1873	I2	iodine	7553-56-2	113.60	4.8203	1
1688	Ge3N4	germanium nitride	12065-36-0	25.00	5.2500	1	1874	I2O4	iodine tetroxide	12399-08-5	25.00	4.2000	1
1691	HBr	hydrogen bromide	10035-10-6	-123.15	2.5500	1	1875	I2O5	iodine pentoxide	12029-98-0	25.00	4.9800	1
1695	HCl	hydrogen chloride	7647-01-0	-114.18	1.4557	1	1877	In	indium	7440-74-6	25.00	7.3100	1
1696	HClO3S	chlorosulfonic acid	7790-94-5	-80.00	2.1907	2	1878	InAs	indium arsenide	1303-11-3	25.00	5.6700	1
1697	HClO4	perchloric acid	7601-90-3	-101.20	2.3407	2	1879	InBr	indium (i) bromide	14280-53-6	25.00	4.9600	1
1698	HF	hydrogen fluoride	7664-39-3	-83.36	1.6436	1	1880	InBr2	indium (ii) bromide	21264-43-7	25.00	4.2200	1
1699	HI	hydrogen iodide	10034-85-2	-195.15	3.5370	1	1881	InBr3	indium (iii) bromide	13465-09-3	25.00	4.7400	1
1702	HNO3	nitric acid	7697-37-2	-41.60	1.8950	1	1890	InCl	indium (i) chloride	13465-10-6	25.00	4.1900	1
1709	H2	hydrogen	1333-74-0	-259.35	0.0865	1	1891	InCl2	indium (ii) chloride	13465-11-7	25.00	3.6400	1
1712	H2O	water	7732-18-5	0.00	0.9168	1	1892	InCl3	indium (iii) chloride	10025-82-8	25.00	4.0000	1
1713	H2O2	hydrogen peroxide	7722-84-1	-0.42	1.6228	1	1896	InF3	indium (iii) fluoride	7783-52-0	25.00	4.3900	1
1714	H2S	hydrogen sulfide	7783-06-4	-85.47	1.2002	2	1898	InH3O3	indium (iii) hydroxide	20661-21-6	25.00	4.4000	1
1716	H2SO4	sulfuric acid	7664-93-9	10.31	2.1412	2	1900	InI	indium (i) iodide	13966-94-4	25.00	5.3200	1
1719	H2Se	hydrogen selenide	7783-07-5	-170.00	2.4560	1	1901	InI3	indium (iii) iodide	13510-35-5	25.00	4.6900	1
1722	H3NO	hydroxylamine	7803-49-8	25.00	1.2100	1	1902	InN	indium nitride	25617-98-5	25.00	6.8800	1
1723	H3PO2	hypophosphorous acid	6303-21-5	19.00	1.4930	1	1904	InP	indium phosphide	22398-80-7	25.00	4.8100	1
1724	H3PO3	phosphorous acid	13598-36-2	20.00	1.6510	1	1905	InPO4	indium (iii) phosphate	14693-82-4	25.00	4.9000	1
1725	H3PO4	phosphoric acid	7664-38-2	42.36	1.8561	1	1906	InS	indium (ii) sulfide	12030-14-7	25.00	5.2000	1
1727	H3SNO3	sulfamic acid	5329-14-6	25.00	2.1237	1	1907	InSb	indium antimonide	1312-41-0	25.00	5.7747	1
1729	H4ClNO	hydroxylamine hydrochloride	5470-11-1	25.00	1.6622	1	1910	In2I4	indium (i,iii) iodide	13779-78-7	25.00	4.7000	1
1735	H9AuCl4O4	hydrogen tetrachloroaurate (iii) tetrahydrate	16903-35-8	25.00	3.9000	1	1911	In2O	diindium monoxide	---	25.00	6.9900	1
1739	He	helium-4	7440-59-7	-271.39	0.1920	1	1912	In2O3	indium (iii) oxide	1312-43-2	25.00	7.1800	1
1740	Hf	hafnium	7440-58-6	25.00	13.3000	1	1913	In2O12S3	indium (iii) sulfate	13464-82-9	25.00	3.4400	1
1741	HfB2	hafnium boride	12007-23-7	25.00	10.5000	1	1914	In2S3	indium (iii) sulfide	12030-24-9	25.00	4.4500	1
1742	HfBr4	hafnium (iv) bromide	13777-22-5	25.00	4.9000	1	1915	In2Se3	indium (iii) selenide	12056-07-4	25.00	5.8000	1
1743	HfC	hafnium carbide	12069-85-1	25.00	12.2000	1	1916	In2Te3	indium (iii) telluride	1312-45-4	25.00	5.7500	1
1756	HfF4	hafnium fluoride	13709-52-9	25.00	7.1000	1	1917	Ir	iridium	7439-88-5	25.00	22.5000	1
1757	HfH2	hafnium hydride	12770-26-2	25.00	11.4000	1	1919	IrBr3	iridium (iii) bromide	---	25.00	6.8200	1
1759	HfI4	hafnium (iv) iodide	13777-23-6	25.00	5.6000	1	1935	IrCl3	iridium (iii) chloride	10025-83-9	25.00	5.3000	1
1760	HfN	hafnium nitride	25817-87-2	25.00	13.8000	1	1937	IrCl6H8N2	iridate (iv), ammonium hexachloro	16940-92-4	25.00	2.8560	1
1761	HfO2	hafnium oxide	12055-23-1	25.00	9.6800	1	1940	IrF6	iridium (vi) fluoride	7783-75-7	25.00	4.8000	1
1765	HfP	hafnium phosphide	12325-59-6	25.00	9.7800	1	1945	IrO2	iridium (iv) oxide	12030-49-8	25.00	11.7000	1
1766	HfS2	hafnium sulfide	18855-94-2	25.00	6.0300	1	1947	IrS2	iridium (iv) sulfide	12030-51-2	25.00	9.3000	1
1767	HfSe2	hafnium selenide	12162-21-9	25.00	7.4600	1	1956	Ir2S3	iridium (iii) sulfide	12136-42-4	25.00	10.2000	1
1768	HfSiO4	hafnium orthosilicate	13870-13-8	25.00	7.0000	1	1960	K	potassium	7440-09-7	20.00	0.8590	1
1769	HfSi2	hafnium silicide	12401-56-8	25.00	7.6000	1	1961	KAlH24O20S2	potassium aluminum sulfate dodecahydrate	7784-24-9	25.00	1.7200	1
1771	Hg	mercury	7439-97-6	-38.86	14.1931	1	1962	KAlSi3O8	potassium aluminum silicate	1327-44-2	25.00	2.5600	1
1772	HgBr	mercurous bromide	10031-18-2	25.00	7.3070	1	1969	KBF4	potassium fluoroborate	14075-53-7	25.00	2.5050	1
1773	HgBr2	mercuric bromide	7789-47-1	25.00	6.0500	1	1970	KBH4	potassium borohydride	13762-51-1	25.00	1.1100	1
1779	HgC2N2	mercury (ii) cyanide	592-04-1	25.00	4.0000	1	1972	KBr	potassium bromide	7758-02-3	25.00	2.7500	1
1780	HgC2N2O2	mercury (ii) fulminate	628-86-4	25.00	4.4200	1	1973	KBrO3	potassium bromate	7758-01-2	25.00	3.2700	1
1781	HgC2N2S2	mercury (ii) thiocyanate	592-85-8	25.00	3.7100	1	1976	KCHO2	potassium formate	590-29-4	25.00	1.9100	1
1785	HgC4H6O4	mercury (ii) acetate	1600-27-7	25.00	3.2800	1	1979	KCN	potassium cyanide	151-50-8	25.00	1.5500	1
1798	HgClH2N	mercury (ii) amide chloride	10124-48-8	25.00	5.3800	1	1980	KCNO	potassium cyanate	590-28-3	25.00	2.0500	1
1800	HgCl2	mercuric chloride	7487-94-7	25.00	5.6000	1	1987	KC2H3O2	potassium acetate	127-08-2	25.00	1.5700	1
1802	HgCrO4	mercury (ii) chromate	---	25.00	6.0600	1	2009	KCl	potassium chloride	7447-40-7	25.00	1.9880	1
1804	HgF2	mercury (ii) fluoride	7783-39-3	25.00	8.9500	1	2012	KClO3	potassium chlorate	3811-04-9	25.00	2.3200	1
1808	HgH2N2O7	mercury (ii) nitrate monohydrate	7783-34-8	25.00	4.3000	1	2013	KClO4	potassium perchlorate	7778-74-7	25.00	2.5200	1
1811	HgH4N2O8	mercury (ii) nitrate dihydrate	---	25.00	4.7800	1	2018	KF	potassium fluoride	7789-23-3	25.00	2.4800	1
1813	HgI2	mercuric iodide	7774-29-0	25.00	6.2800	1	2019	KFH4O2	potassium fluoride dihydrate	13455-21-5	25.00	2.5000	1
1815	HgN2O6	mercury (ii) nitrate	10045-94-0	25.00	4.3000	1	2022	KH	potassium hydride	7693-26-7	25.00	1.4300	1
1816	HgO	mercury (ii) oxide	21908-53-2	25.00	11.1400	1	2023	KHCO3	potassium hydrogen carbonate	298-14-6	25.00	2.1700	1
1817	HgS	mercury (ii) sulfide (red)	1344-48-5	25.00	8.1700	1	2024	KHF2	potassium hydrogen fluoride	7789-29-9	25.00	2.3700	1
1818	HgS	mercury (ii) sulfide (black)	1344-48-5	25.00	7.7000	1	2027	KHS	potassium hydrogen sulfide	1310-61-8	25.00	1.6900	1

Table 6 Density of Solid - Inorganic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
2029	KHSO4	potassium hydrogen sulfate	7646-93-7	25.00	2.3200	1	2275	LiN3	lithium azide	19597-69-4	25.00	1.8300	1
2031	KH2AsO4	potassium dihydrogen arsenate	7784-41-0	25.00	2.8700	1	2276	LiNbO3	lithium niobate	12031-63-9	25.00	4.3000	1
2032	KH2O0.5S	potassium hydrogen sulfide hemihydrate	---	25.00	1.7000	1	2277	LiOH	lithium hydroxide	1310-65-2	25.00	1.4500	1
2034	KH2PO4	potassium dihydrogen phosphate	7778-77-0	25.00	2.3400	1	2283	Li2CO3	lithium carbonate	554-13-2	25.00	2.1100	1
2035	KI	potassium iodide	7681-11-0	26.85	3.1185	1	2289	Li2CrH4O6	lithium chromate dihydrate	7789-01-7	25.00	2.1500	1
2036	KIO3	potassium iodate	7758-05-6	25.00	3.8900	1	2291	Li2Cr2H4O9	lithium dichromate dihydrate	10022-48-7	25.00	2.3400	1
2037	KIO4	potassium periodate	7790-21-8	25.00	3.6180	1	2295	Li2H2O5S	lithium sulfate monohydrate	10102-25-7	25.00	2.0600	1
2038	KI3H2O	potassium triiodide monohydrate	7790-42-3	25.00	3.5000	1	2296	Li2H2O5Se	lithium selenate monohydrate	7790-71-8	25.00	2.5600	1
2040	KMnO4	potassium permanganate	7722-64-7	25.00	2.7000	1	2299	Li2O	lithium oxide	12057-24-8	25.00	2.0130	1
2041	KNO2	potassium nitrite	7758-09-0	25.00	1.9150	1	2300	Li2O2	lithium peroxide	12031-80-0	25.00	2.3100	1
2042	KNO3	potassium nitrate	7757-79-1	25.00	2.1100	1	2305	Li2S	lithium sulfide	12136-58-2	25.00	1.6400	1
2044	KN3	potassium azide	20762-60-1	25.00	2.0400	1	2306	Li2SO4	lithium sulfate	10377-48-7	25.00	2.2100	1
2046	KNbO3	potassium niobate	12030-85-2	25.00	4.6400	1	2308	Li2SiO3	lithium metasilicate	10102-24-6	25.00	2.5200	1
2047	KOH	potassium hydroxide	1310-58-3	25.00	2.1200	1	2310	Li3AsO4	lithium arsenate	13478-14-3	25.00	3.0700	1
2048	KO2	potassium superoxide	12030-88-5	25.00	2.1600	1	2312	Li3N	lithium nitride	26134-62-3	25.00	1.2700	1
2053	KSCN	potassium thiocyanate	333-20-0	25.00	1.8800	1	2313	Li3PO4	lithium phosphate	10377-52-3	25.00	2.4600	1
2054	K2Al2H6O7	potassium aluminate trihydrate	---	25.00	2.1300	1	2316	Lu	lutetium	7439-94-3	25.00	9.8400	1
2063	K2CH3O4.5	potassium carbonate sesquihydrate	6381-79-9	25.00	2.0430	1	2319	LuCl3	lutetium chloride	10099-66-8	25.00	3.9800	1
2064	K2CO3	potassium carbonate	584-08-7	25.00	2.2900	1	2322	LuF3	lutetium fluoride	13760-81-1	25.00	8.3000	1
2066	K2C2H2O5	potassium oxalate monohydrate	6487-48-5	25.00	2.1300	1	2325	LuN	lutetium nitride	12125-25-6	25.00	11.6000	1
2072	K2C4H6N4O3Pt	potassium tetracyanoplatinate (ii) trihydrate	14323-36-5	25.00	2.4550	1	2329	Lu2O3	lutetium oxide	12032-20-1	25.00	9.4100	1
2088	K2CrO4	potassium chromate	7789-00-6	25.00	2.7300	1	2331	Lu2S3	lutetium sulfide	12163-20-1	25.00	6.2600	1
2089	K2Cr2O7	potassium dichromate	7778-50-9	25.00	2.6800	1	2332	Lu2Te3	lutetium telluride	12163-22-3	25.00	7.8000	1
2104	K2H6O6Sn	potassium stannate trihydrate	12142-33-5	25.00	3.1970	1	2335	Mg	magnesium	7439-95-4	25.00	1.7400	1
2108	K2HgI4	potassium tetraiodomercurate (ii)	7783-33-7	25.00	4.2900	1	2338	MgB2	magnesium boride	12007-25-9	25.00	2.5700	1
2112	K2MoO4	potassium molybdate	13446-49-6	25.00	2.3000	1	2341	MgBr2	magnesium bromide	7789-48-2	25.00	3.7200	1
2114	K2O	potassium oxide	12136-45-7	25.00	2.3500	1	2342	MgBr2H12O6	magnesium bromide hexahydrate	13446-53-2	25.00	2.0000	1
2124	K2PtCl4	potassium tetrachloroplatinate	10025-99-7	25.00	3.3800	1	2343	MgBr2H12O12	magnesium bromate hexahydrate	7789-36-8	25.00	2.2900	1
2125	K2PtCl6	potassium hexachloroplatinate	16921-30-5	25.00	3.5000	1	2350	MgCO3	magnesium carbonate	546-93-0	25.00	3.0500	1
2126	K2S	potassium sulfide	1312-73-8	25.00	1.7400	1	2366	MgC4H14O8	magnesium acetate tetrahydrate	16674-78-5	25.00	1.4500	1
2127	K2SO4	potassium sulfate	7778-80-5	25.00	2.6600	1	2392	MgCl2	magnesium chloride	7786-30-3	25.00	2.3250	1
2128	K2S2O3	potassium thiosulfate	10294-66-3	25.00	2.2300	1	2394	MgCl2H12O14	magnesium perchlorate hexahydrate	13446-19-0	25.00	1.9800	1
2129	K2S2O5	potassium metabisulfite	16731-55-8	25.00	2.3000	1	2395	MgCl2H12O6	magnesium chloride hexahydrate	7791-18-6	25.00	1.5600	1
2130	K2S2O7	potassium pyrosulfate	7790-62-7	25.00	2.2800	1	2396	MgCl2O8	magnesium perchlorate	10034-81-8	25.00	2.2000	1
2131	K2S2O8	potassium persulfate	7727-21-1	25.00	2.4800	1	2399	MgF2	magnesium fluoride	7783-40-6	25.00	3.1480	1
2132	K2Se	potassium selenide	1312-74-9	25.00	2.2900	1	2400	MgF6H12O6Si	magnesium hexafluorosilicate hexahydrate	60950-56-3	25.00	1.7900	1
2133	K2SeO4	potassium selenate	7790-59-2	25.00	3.0700	1	2402	MgH2	magnesium hydride	7693-27-8	25.00	1.4500	1
2134	K2SiF6	potassium hexafluorosilicate	16871-90-2	25.00	2.2700	1	2403	MgH2O2	magnesium hydroxide	1309-42-8	25.00	2.3700	1
2138	K2TiO3	potassium titanate	12030-97-6	25.00	3.1000	1	2405	MgH2O5S	magnesium sulfate monohydrate	14168-73-1	25.00	2.5700	1
2139	K2U2O7	potassium uranate	7790-63-8	25.00	6.1200	1	2406	MgH4N2	magnesium amide	7803-54-5	25.00	1.3900	1
2140	K2WO4	potassium tungstate	7790-60-5	25.00	3.1200	1	2407	MgH4N2O8	magnesium nitrate dihydrate	15750-45-5	25.00	1.4500	1
2141	K3AsO4	potassium arsenate	13464-36-3	25.00	2.8000	1	2409	MgH6O6S	magnesium sulfite trihydrate	19086-20-5	25.00	2.1200	1
2142	K3C6CoN6	potassium hexacyanocobaltate	13963-58-1	25.00	1.9100	1	2411	MgH7O7P	magnesium hydrogen phosphate trihydrate	7757-86-0	25.00	2.1300	1
2143	K3C6FeN6	potassium ferricyanide	13746-66-2	25.00	1.8900	1	2416	MgH12N2O12	magnesium nitrate hexahydrate	13446-18-9	25.00	1.4600	1
2153	K3PO4	potassium phosphate	7778-53-2	25.00	2.5640	1	2417	MgH12O9S	magnesium sulfite hexahydrate	13446-29-2	25.00	1.7200	1
2155	K4C6H6FeN6O3	potassium ferrocyanide trihydrate	14459-95-1	25.00	1.8500	1	2418	MgH12O9S2	magnesium thiosulfate hexahydrate	13446-30-5	25.00	1.8200	1
2156	K4H6O10P2	potassium pyrophosphate trihydrate	7320-34-5	25.00	2.3300	1	2419	MgH12O9Se	magnesium selenite hexahydrate	15593-61-0	25.00	2.0900	1
2163	KrF2	krypton difluoride	13773-81-4	25.00	3.2400	1	2420	MgH12O10Se	magnesium selenate hexahydrate	13446-28-1	25.00	1.9280	1
2168	La	lanthanum	7439-91-0	25.00	6.1500	1	2421	MgH14O11S	magnesium sulfate heptahydrate	10034-99-8	25.00	1.6700	1
2170	LaB6	lanthanum boride	12008-21-8	25.00	4.7600	1	2422	MgH16I2O8	magnesium iodide octahydrate	7790-31-0	25.00	2.1000	1
2171	LaBr3	lanthanum bromide	13536-79-3	25.00	5.1000	1	2424	MgI2	magnesium iodide	10377-58-9	25.00	4.4300	1
2172	LaC2	lanthanum carbide	12071-15-7	25.00	5.2900	1	2425	MgMn2H12O14	magnesium permanganate hexahydrate	10377-62-5	25.00	2.1800	1
2177	LaCl3	lanthanum chloride	10099-58-8	25.00	3.8400	1	2427	MgN2O6	magnesium nitrate	10377-60-3	60.00	1.4640	1
2182	LaF3	lanthanum fluoride	13709-38-1	25.00	5.9000	1	2429	MgO	magnesium oxide	1309-48-4	25.00	3.5800	1
2184	LaH3	lanthanum trihydride	13864-01-2	25.00	5.3600	1	2439	MgS	magnesium sulfide	12032-36-9	25.00	2.6800	1
2187	LaI3	lanthanum iodide	13813-22-4	25.00	5.6000	1	2440	MgSO4	magnesium sulfate	7487-88-9	25.00	2.7926	1
2188	LaN	lanthanum nitride	25764-10-7	25.00	6.7300	1	2441	MgSe	magnesium selenide	1313-04-8	25.00	4.2000	1
2191	LaS	lanthanum monosulfide	12031-30-0	25.00	5.6100	1	2443	MgSiO3	magnesium metasilicate	13776-74-4	25.00	3.1900	1
2193	LaSi2	lanthanum silicide	12056-90-5	25.00	5.0000	1	2444	MgTiO3	magnesium titanate	1312-99-8	25.00	3.8500	1
2196	La2C3H16O17	lanthanum carbonate octahydrate	6487-39-4	25.00	2.6000	1	2446	Mg2Ge	magnesium germanide	1310-52-7	25.00	3.0900	1
2198	La2H18O21S3	lanthanum sulfate nonahydrate	10294-62-9	25.00	2.8200	1	2448	Mg2H6O10P2	magnesium pyrophosphate trihydrate	10102-34-8	25.00	2.5600	1
2200	La2O3	lanthanum oxide	1312-81-8	25.00	6.5100	1	2452	Mg2Si	magnesium silicide	22831-39-6	25.00	1.9900	1
2201	La2S3	lanthanum sulfide	12031-49-1	25.00	4.9000	1	2453	Mg2SiO4	magnesium orthosilicate	26686-77-1	25.00	3.2100	1
2203	Li	lithium	7439-93-2	20.00	0.5322	1	2454	Mg2Sn	magnesium stannide	1313-08-2	25.00	3.6000	1
2205	LiAlH4	lithium aluminum hydride	16853-85-3	25.00	0.9170	1	2458	Mg3H16O16P2	magnesium phosphate octahydrate	13446-23-6	25.00	2.1700	1
2210	LiBH4	lithium borohydride	16949-15-8	25.00	0.6600	1	2459	Mg3N2	magnesium nitride	12057-71-5	25.00	2.7100	1
2212	LiBO2	lithium metaborate	13453-69-5	25.00	2.1800	1	2460	Mg3P2	magnesium phosphide	12057-74-8	25.00	2.0600	1
2213	LiBr	lithium bromide	7550-35-8	25.00	3.4640	1	2461	Mg3Sb2	magnesium antimonide	12057-75-9	25.00	3.9900	1
2220	LiCH3O3	lithium formate monohydrate	6108-23-2	25.00	1.4600	1	2464	Mn	manganese	7439-96-5	25.00	7.3000	1
2226	LiC2H7O4	lithium acetate dihydrate	6108-17-4	25.00	1.3000	1	2466	MnB	manganese boride (mnb)	12045-15-7	25.00	6.4500	1
2253	LiCl	lithium chloride	7447-41-8	25.00	2.0700	1	2467	MnB2	manganese boride (mnb2)	12228-50-1	25.00	5.3000	1
2258	LiClO4	lithium perchlorate	7791-03-9	25.00	2.4280	1	2469	MnBr2	manganese (ii) bromide	13446-03-2	25.00	4.3850	1
2261	LiF	lithium fluoride	7789-24-4	25.00	2.6400	1	2471	MnCO3	manganese (ii) carbonate	598-62-9	25.00	3.7000	1
2265	LiH	lithium hydride	7580-67-8	25.00	0.7800	1	2472	MnC2H4O6	manganese (ii) oxalate dihydrate	6556-16-7	25.00	2.4500	1
2267	LiH2O4P	lithium dihydrogen phosphate	13453-80-0	20.00	2.4610	1	2473	MnC4H14O8	manganese (ii) acetate tetrahydrate	6156-78-1	25.00	1.5900	1
2268	LiH3O2	lithium hydroxide monohydrate	1310-66-3	25.00	1.5100	1	2495	MnCl2	manganese (ii) chloride	7773-01-5	20.00	2.9770	1
2269	LiH6IO3	lithium iodide trihydrate	7790-22-9	25.00	3.4800	1	2498	MnCl2H8O4	manganese (ii) chloride tetrahydrate	13446-34-9	25.00	1.9130	1
2270	LiI	lithium iodide	10377-51-2	25.00	4.0739	1	2499	MnF2	manganese (ii) fluoride	7782-64-1	25.00	3.8910	1
2273	LiNH2	lithium amide	7782-89-0	25.00	1.1800	1	2500	MnF3	manganese (iii) fluoride	7783-53-1	25.00	3.5400	1
2274	LiNO3	lithium nitrate	7790-69-4	25.00	2.3800	1	2502	MnHO2	manganese (iii) hydroxide	1332-63-4	25.00	4.3000	1

Table 6 Density of Solid - Inorganic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
2503	MnH2O2	manganese (ii) hydroxide	18933-05-6	25.00	3.2600	1	2655	NH9C7O2	ammonium benzoate	1863-63-4	25.00	1.2600	1
2504	MnH2O5S	manganese (ii) sulfate monohydrate	10034-96-5	25.00	2.9500	1	2657	NH11B4O10	ammonium hydrogen borate trihydrate	10135-84-9	25.00	2.7000	1
2507	MnH8N2O10	manganese (ii) nitrate tetrahydrate	20694-39-7	25.00	2.1300	1	2672	NH39C18O2	ammonium stearate	1002-89-7	25.00	0.8900	1
2508	MnH8O8S	manganese (ii) sulfate tetrahydrate	10101-68-5	25.00	2.2600	1	2674	NO	nitric oxide	10102-43-9	-163.65	1.5485	1
2510	MnH12N2O12	manganese (ii) nitrate hexahydrate	10377-66-9	25.00	1.8000	1	2678	N2	nitrogen	7727-37-9	-210.00	0.9543	1
2512	MnI2	manganese (ii) iodide	7790-33-2	25.00	5.0400	1	2684	N2F4	tetrafluorohydrazine	10036-47-2	-161.50	1.9553	2
2513	MnMoO4	manganese (ii) molybdate	14013-15-1	25.00	4.0500	1	2685	N2H4	hydrazine	302-01-2	-15.00	1.2000	1
2515	MnN2O6	manganese (ii) nitrate	10377-93-2	25.00	2.2000	1	2686	N2H4C	ammonium cyanide	12211-52-8	25.00	1.1000	1
2517	MnO	manganese (ii) oxide	1344-43-0	25.00	5.3700	1	2687	N2H4CS	ammonium thiocyanate	1762-95-4	25.00	1.3000	1
2518	MnO2	manganese (iv) oxide	1313-13-9	25.00	5.0800	1	2689	N2H4O3	ammonium nitrate	6484-52-2	25.00	1.7250	1
2522	MnP	manganese phosphide	12032-78-9	25.00	5.4900	1	2693	N2H5Br	hydrazine hydrobromide	13775-80-9	25.00	2.3000	1
2523	MnS	manganese (ii) sulfide (a form)	18820-29-6	25.00	4.0000	1	2694	N2H5Cl	hydrazine hydrochloride	2644-70-4	25.00	1.5000	1
2524	MnS	manganese (ii) sulfide (b form)	18820-29-6	25.00	3.3000	1	2697	N2H6Cl2	hydrazine dihydrochloride	5341-61-7	25.00	1.4200	1
2525	MnS	manganese (ii) sulfide (c form)	18820-29-6	20.00	3.9900	1	2700	N2H6CS2	ammonium dithiocarbamate	513-74-6	25.00	1.4500	1
2526	MnSO4	manganese (ii) sulfate	7785-87-7	25.00	3.2500	1	2703	N2H6O4S	hydrazine sulfate	10034-93-2	25.00	1.3780	1
2527	MnSb	manganese antimonide	12032-82-5	25.00	6.9000	1	2709	N2H8Cl4Zn	ammonium tetrachlorozincate	14639-97-5	25.00	1.8790	1
2528	MnSe	manganese (ii) selenide	1313-22-0	25.00	5.4500	1	2710	N2H8Cl6Os	ammonium hexachloroosmiate (iv)	12125-08-5	25.00	2.9300	1
2529	MnSiO3	manganese (ii) metasilicate	7759-00-4	25.00	3.4800	1	2713	N2H8CrO4	ammonium chromate (vi)	7788-98-9	25.00	1.9000	1
2531	MnTe	manganese (ii) telluride	12032-88-1	25.00	6.0000	1	2720	N2H8O3S2	ammonium thiosulfate	7783-18-8	25.00	1.6780	1
2533	MnTiO3	manganese (ii) titanate	12032-74-5	25.00	4.5500	1	2721	N2H8O4S	ammonium sulfate	7783-20-2	25.00	1.7773	1
2534	MnWO4	manganese (ii) tungstate	13918-22-4	25.00	7.2000	1	2723	N2H8O8S2	ammonium peroxydisulfate	7727-54-0	25.00	1.9820	1
2535	Mn2B	manganese boride	12045-16-8	25.00	7.2000	1	2724	N2H8PdCl6	ammonium hexachloropalladate (iv)	19168-23-1	25.00	2.4180	1
2536	Mn2C10O10	manganese carbonyl	10170-69-1	25.00	1.7500	1	2725	N2H8PtCl4	ammonium tetrachloroplatinate (ii)	13820-41-2	25.00	2.9360	1
2538	Mn2O3	manganese (iii) oxide	1317-34-6	25.00	5.0000	1	2726	N2H8PtCl6	ammonium hexachloroplatinate (iv)	16919-58-7	25.00	3.0650	1
2540	Mn2P	manganese phosphide	12333-54-9	25.00	6.0000	1	2729	N2H8SeO4	ammonium selenate	7783-21-3	25.00	2.1940	1
2541	Mn2P2O7	manganese (ii) pyrophosphate	---	25.00	3.7100	1	2730	N2H8SiF6	ammonium hexafluorosilicate	16919-19-0	25.00	2.0110	1
2542	Mn2Sb	manganese antimonide	12032-97-2	25.00	7.0000	1	2731	N2H8TeO4	ammonium tellurate	13453-06-0	25.00	3.0240	1
2543	Mn2SiO4	manganese (ii) orthosilicate	13568-32-6	25.00	4.1100	1	2732	N2H8WS4	ammonium tetrathiotungstate	13862-78-7	25.00	2.7100	1
2544	Mn3C	manganese carbide	12266-65-8	25.00	6.8900	1	2734	N2H9PO4	diammonium hydrogen phosphate	7783-28-0	20.00	1.6131	1
2546	Mn3O4	manganese (ii,iii) oxide	1317-35-7	25.00	4.8400	1	2735	N2H10C2O5	ammonium oxalate monohydrate	6009-70-7	25.00	1.5000	1
2548	Mo	molybdenum	7439-98-7	25.00	10.2000	1	2739	N2H10O4S	ammonium sulfite monohydrate	7783-11-1	25.00	1.4100	1
2550	MoBr2	molybdenum (ii) bromide	13446-56-5	25.00	5.1740	1	2741	N2H12C4O6	ammonium tartrate	3164-29-2	25.00	1.6010	1
2551	MoBr3	molybdenum (iii) bromide	13446-57-6	25.00	4.8900	1	2743	N2H14C6O7	ammonium hydrogen citrate	3012-65-5	25.00	1.4800	1
2552	MoBr4	molybdenum (iv) bromide	13520-59-7	25.00	4.5300	1	2744	N2H16B4O11	ammonium tetraborate tetrahydrate	12228-87-4	25.00	1.5800	1
2553	MoC	molybdenum carbide	12011-97-1	25.00	9.1500	1	2747	N2O	nitrous oxide	10024-97-2	-195.00	1.6060	1
2555	MoC6O6	molybdenum hexacarbonyl	13939-06-5	25.00	1.9600	1	2748	N2O3	nitrogen trioxide	10544-73-7	-103.15	1.7583	1
2564	MoCl2	molybdenum (ii) chloride	13478-17-6	25.00	3.7140	1	2749	N2O4	nitrogen tetraoxide	10544-72-6	-195.00	1.9790	1
2565	MoCl3	molybdenum (iii) chloride	13478-18-7	25.00	3.7400	1	2750	N2O5	nitrogen pentoxide	10102-03-1	15.00	2.0687	1
2567	MoCl5	molybdenum (v) chloride	10241-05-1	25.00	2.9300	1	2753	N3H12AlF6	ammonium hexafluoroaluminate	7784-19-2	25.00	1.7800	1
2570	MoF3	molybdenum (iii) fluoride	20193-58-2	25.00	4.6400	1	2766	N4H4	ammonium azide	12164-94-2	25.00	1.3460	1
2572	MoF5	molybdenum (v) fluoride	13819-84-6	25.00	3.5000	1	2767	N4H6C6O7	ammonium picrate	131-74-8	25.00	1.7200	1
2573	MoF6	molybdenum fluoride	7783-77-9	25.00	2.5400	1	2772	N6H32Mo7O28	ammonium molybdate (iv) tetrahydrate	12054-85-2	25.00	2.4980	1
2574	MoH4O5	molybdenum (vi) acid monohydrate	7782-91-4	25.00	3.1000	1	2781	Na	sodium	7440-23-5	20.00	0.9692	1
2575	MoI2	molybdenum (ii) iodide	14055-74-4	25.00	5.2780	1	2782	NaAlCl4	sodium tetrachloroaluminate	7784-16-9	25.00	2.0100	1
2578	MoN	molybdenum nitride	12033-19-1	25.00	9.2000	1	2784	NaAlH24O20S2	sodium aluminum sulfate dodecahydrate	10102-71-3	25.00	1.6100	1
2579	MoO	molybdenum oxide	12058-07-0	25.00	6.5000	1	2785	NaAlO2	sodium aluminate	1302-42-7	25.00	4.6300	1
2583	MoO2	molybdenum (iv) oxide	18868-43-4	25.00	6.4700	1	2787	NaAsO2	sodium arsenite	7784-46-5	25.00	1.8700	1
2584	MoO2Cl2	molybdenum (vi) dioxydichloride	13637-68-8	25.00	3.3100	1	2791	NaBF4	sodium tetrafluoroborate	13755-29-8	25.00	2.4700	1
2585	MoO3	molybdenum oxide	1313-27-5	25.00	4.7000	1	2794	NaBH4	sodium borohydride	16940-66-2	25.00	1.0700	1
2586	MoO18P6	molybdenum (vi) metaphosphate	133863-98-6	25.00	3.2800	1	2798	NaBO2	sodium metaborate	7775-19-1	25.00	2.4600	1
2587	MoP	molybdenum phosphide	12163-69-8	25.00	7.3400	1	2800	NaBr	sodium bromide	7647-15-6	25.00	3.2014	1
2588	MoS2	molybdenum (iv) sulfide	1317-33-5	25.00	5.0600	1	2801	NaBrH4O2	sodium bromide dihydrate	13466-08-5	25.00	2.1800	1
2590	MoSe2	molybdenum (iv) selenide	12058-18-3	25.00	6.9000	1	2802	NaBrO3	sodium bromate	7789-38-0	25.00	3.3400	1
2591	MoSi2	molybdenum silicide	12136-78-6	25.00	6.2000	1	2805	NaCHO2	sodium formate	141-53-7	25.00	1.9200	1
2592	MoTe2	molybdenum (iv) telluride	12058-20-7	25.00	7.7000	1	2806	NaCH3BN	sodium cyanoborohydride	25895-60-7	25.00	1.1200	1
2593	Mo2B	molybdenum boride	12006-99-4	25.00	9.2000	1	2810	NaCN	sodium cyanide	143-33-9	25.00	1.6000	1
2595	Mo2C	molybdenum carbide	12069-89-5	25.00	9.1800	1	2817	NaC2H3O2	sodium acetate	127-09-3	25.00	1.5280	1
2599	Mo2N	molybdenum nitride	12033-31-7	25.00	9.4600	1	2821	NaC2H9O5	sodium acetate trihydrate	6131-90-4	25.00	1.4500	1
2607	NClO	nitrosyl chloride	2696-92-6	-59.60	1.6692	2	2828	NaC4H12KO10	sodium potassium tartrate tetrahydrate	304-59-6	25.00	1.7900	1
2613	NF3	nitrogen trifluoride	7783-54-2	-216.60	1.9200	1	2855	NaCl	sodium chloride	7647-14-5	25.00	2.1700	1
2619	NH3	ammonia	7664-41-7	-79.00	0.8170	1	2856	NaClH2O5	sodium perchlorate monohydrate	7791-07-3	25.00	2.0200	1
2623	NH4AlO8S2	ammonium aluminum sulfate	7784-25-0	25.00	2.4500	1	2857	NaClH10O6	sodium hypochlorite pentahydrate	7681-52-8	25.00	1.6000	1
2624	NH4BF4	ammonium fluoroborate	13826-83-0	25.00	1.8710	1	2859	NaClO2	sodium chlorite	7758-19-2	20.00	2.4900	1
2625	NH4Br	ammonium bromide	12124-97-9	25.00	2.4290	1	2860	NaClO3	sodium chlorate	7775-09-9	25.00	2.5000	1
2627	NH4Cl	ammonium chloride	12125-02-9	20.00	1.5263	1	2861	NaClO4	sodium perchlorate	7601-89-0	25.00	2.5200	1
2629	NH4ClO4	ammonium perchlorate	7790-98-9	25.00	1.9509	1	2864	NaF	sodium fluoride	7681-49-4	25.00	2.7800	1
2631	NH4F	ammonium fluoride	12125-01-8	25.00	1.0150	1	2869	NaH	sodium hydride	7646-69-7	25.00	1.3900	1
2634	NH4I	ammonium iodide	12027-06-4	25.00	2.5140	1	2870	NaHCO3	sodium hydrogen carbonate	144-55-8	25.00	2.2000	1
2635	NH4IO3	ammonium iodate	13446-09-8	25.00	3.3000	1	2871	NaHF2	sodium hydrogen fluoride	1333-83-1	25.00	2.0800	1
2636	NH4MnO4	ammonium permanganate	13446-10-1	25.00	2.2200	1	2873	NaHS	sodium hydrogen sulfide	16721-80-5	25.00	1.7900	1
2637	NH4PF6	ammonium hexafluorophosphate	16941-11-0	25.00	2.1800	1	2874	NaHSO3	sodium hydrogen sulfite	7631-90-5	25.00	1.4800	1
2639	NH4VO3	ammonium metavanadate	7803-55-6	25.00	2.3260	1	2875	NaHSO4	sodium hydrogen sulfate	7681-38-1	13.00	2.4351	1
2640	NH5CO2	ammonium formate	540-69-2	25.00	1.2700	1	2879	NaH3O5S	sodium hydrogen sulfate monohydrate	10034-88-5	25.00	2.1000	1
2641	NH5CO3	ammonium hydrogen carbonate	1066-33-7	25.00	1.5860	1	2882	NaH4O5P	sodium dihydrogen phosphate monohydrate	10049-21-5	25.00	2.0400	1
2644	NH5O4S	ammonium hydrogen sulfate	7803-63-6	20.00	1.7879	1	2884	NaH6IO7	sodium periodate trihydrate	13472-31-6	25.00	3.2200	1
2645	NH5S	ammonium hydrogensulfide	12124-99-1	25.00	1.1700	1	2885	NaH6MnO7	sodium permanganate trihydrate	10101-50-5	25.00	2.4700	1
2646	NH5SO3	ammonium hydrogen sulfite	10192-30-0	20.00	2.0302	1	2886	NaH6O6P	sodium dihydrogen phosphate dihydrate	13472-35-0	25.00	1.9100	1
2649	NH6PO4	ammonium dihydrogen phosphate	7722-76-1	25.00	1.7980	1	2887	NaH13NO8P	sodium ammonium hydrogen phosphate tetrahydrate	13011-54-6	25.00	1.5400	1
2650	NH7C2O2	ammonium acetate	631-61-8	25.00	1.0730	1	2888	NaI	sodium iodide	7681-82-5	26.85	3.6628	1
2651	NH7C2O5	ammonium hydrogen oxalate monohydrate	5972-72-4	25.00	1.5600	1	2889	NaIO3	sodium iodate	7681-55-2	25.00	4.2800	1

Table 6 Density of Solid - Inorganic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
2890	NaIO4	sodium periodate	7790-28-5	25.00	3.8600	1	3078	NdI3	neodymium triiodide	13813-24-6	25.00	5.8500	1
2891	NaNbO3	sodium niobate	12034-09-2	25.00	4.5500	1	3079	NdN	neodymium nitride	25764-11-8	25.00	7.6900	1
2892	NaNH2	sodium amide	7782-92-5	20.00	1.3900	1	3085	Nd2H16O20S3	neodymium sulfate octahydrate	13477-91-3	25.00	2.8500	1
2893	NaNO2	sodium nitrite	7632-00-0	25.00	2.1700	1	3086	Nd2O3	neodymium oxide	1313-97-9	25.00	7.2400	1
2894	NaNO3	sodium nitrate	7631-99-4	20.00	2.2610	1	3088	Nd2S3	neodymium sulfide	12035-32-4	25.00	5.4600	1
2895	NaN3	sodium azide	26628-22-8	25.00	1.8460	1	3089	Nd2Te3	neodymium telluride	12035-35-7	25.00	7.0000	1
2896	NaOCN	sodium cyanate	917-61-3	25.00	1.8900	1	3091	Ne	neon	7440-01-9	-248.60	1.4440	1
2897	NaOH	sodium hydroxide	1310-73-2	20.00	2.1020	1	3092	Ni	nickel	7440-02-0	25.00	8.9000	1
2898	NaO2	sodium superoxide	12034-12-7	25.00	2.2000	1	3094	NiAs	nickel arsenide	27016-75-7	25.00	7.7700	1
2899	NaO3P	sodium metaphosphate	10361-03-2	20.00	2.4760	1	3095	NiB	nickel boride	12007-00-0	25.00	7.1300	1
2906	Na2AsH15O11	sodium hydrogen arsenate heptahydrate	10048-95-0	25.00	1.8700	1	3097	NiBr2	nickel (ii) bromide	13462-88-9	25.00	5.1000	1
2908	Na2B4H10O12	sodium tetraborate pentahydrate	12045-88-4	25.00	1.8800	1	3098	NiCO3	nickel (ii) carbonate	3333-67-3	25.00	4.3900	1
2909	Na2B4H20O17	sodium tetraborate decahydrate	1303-96-4	20.00	1.7300	1	3133	NiCl2	nickel (ii) chloride	7718-54-9	25.00	3.5100	1
2910	Na2B4H8O11	sodium tetraborate tetrahydrate	12045-87-3	25.00	1.9500	1	3137	NiCl3H16NO6	nickel, ammonium chloride hexahydrate	---	25.00	1.6500	1
2911	Na2B4O7	sodium tetraborate	1330-43-4	25.00	2.4000	1	3139	NiF2	nickel fluoride	10028-18-9	25.00	4.7000	1
2912	Na2BeF4	sodium tetrafluoroberyllate	13871-27-7	25.00	2.4700	1	3142	NiH2O2	nickel (ii) hydroxide	12054-48-7	25.00	4.1000	1
2914	Na2CH2O4	sodium carbonate monohydrate	5968-11-6	25.00	2.2500	1	3146	NiH12I2O6	nickel iodide hexahydrate	7790-34-3	25.00	5.8300	1
2915	Na2CH20O13	sodium carbonate decahydrate	6132-02-1	25.00	1.4600	1	3147	NiH12N2O12	nickel (ii) nitrate hexahydrate	13478-00-7	25.00	2.0500	1
2916	Na2CO3	sodium carbonate	497-19-8	25.00	2.5400	1	3148	NiH12O10S	nickel (ii) sulfate hexahydrate	10101-97-0	25.00	2.0700	1
2917	Na2C2O4	sodium oxalate	62-76-0	25.00	2.3400	1	3150	NiH14O11S	nickel (ii) sulfate heptahydrate	10101-98-1	25.00	1.9800	1
2930	Na2CrO4	sodium chromate	7775-11-3	25.00	2.7200	1	3153	NiH20N2O14S2	nickel ammonium sulfate hexahydrate	7785-20-8	25.00	1.9230	1
2932	Na2Cr2O7	sodium dichromate	10588-01-9	13.00	2.5200	1	3154	NiI2	nickel (ii) iodide	13462-90-3	25.00	5.2200	1
2940	Na2HO4P	sodium hydrogen phosphate	7558-79-4	20.00	1.5300	1	3158	NiO	nickel (ii) oxide	1313-99-1	25.00	6.7200	1
2941	Na2H2O7P2	sodium dihydrogen pyrophosphate	7758-16-9	25.00	1.9000	1	3162	NiS	nickel sulfide	16812-54-7	25.00	5.5000	1
2946	Na2H4O6W	sodium tungstate dihydrate	10213-10-2	25.00	3.2500	1	3164	NiSO4	nickel (ii) sulfate	7786-81-4	25.00	4.0100	1
2948	Na2H10O5S	sodium sulfide pentahydrate	1313-83-3	25.00	1.5800	1	3165	NiSb	nickel antimonide	12035-52-8	25.00	8.7400	1
2950	Na2H10O8S2	sodium thiosulfate pentahydrate	10102-17-7	25.00	1.6900	1	3166	NiSe	nickel (ii) selenide	1314-05-2	25.00	7.2000	1
2954	Na2H14O10S	sodium sulfite heptahydrate	10102-15-5	25.00	1.5600	1	3167	NiSi2	nickel silicide	12201-89-7	25.00	4.8300	1
2956	Na2H18O9S	sodium sulfide nonahydrate	1313-84-4	25.00	1.4300	1	3169	NiTiO3	nickel (ii) titanate	12035-39-1	25.00	5.0000	1
2957	Na2H20O14S	sodium sulfate decahydrate	7727-73-3	25.00	1.4600	1	3170	Ni2B	nickel boride	12007-01-1	25.00	7.9000	1
2958	Na2H20O14Se	sodium selenate decahydrate	10102-23-5	25.00	1.6100	1	3172	Ni2P	nickel phosphide	12035-64-2	25.00	7.3300	1
2961	Na2O	sodium oxide	1313-59-3	25.00	2.2700	1	3173	Ni2Si	nickel silicide	12059-14-2	25.00	7.4000	1
2962	Na2O2	sodium peroxide	1313-60-6	20.00	2.8050	1	3174	Ni3As2H16O16	nickel (ii) arsenate octahydrate	7784-48-7	25.00	4.9800	1
2963	Na2O3S2	sodium thiosulfate	7772-98-7	20.00	1.6671	1	3175	Ni3B	nickel boride	12007-02-2	25.00	8.1700	1
2965	Na2O4S2	sodium hydrosulfite	7775-14-6	25.00	2.2000	1	3178	Ni3S2	nickel (iii) sulfide	12035-72-2	25.00	5.8700	1
2971	Na2O8S2	sodium persulfate	7775-27-1	25.00	2.4000	1	3179	Ni3S4	nickel (ii,iii) sulfide	12137-12-1	25.00	4.7700	1
2972	Na2S	sodium sulfide	1313-82-2	20.00	1.8477	1	3182	Np	neptunium	7439-99-8	25.00	20.2000	1
2973	Na2SO3	sodium sulfite	7757-83-7	25.00	2.6300	1	3195	NpO2	neptunium dioxide	12035-79-9	25.00	11.1000	1
2974	Na2SO4	sodium sulfate	7757-82-6	20.00	2.6902	1	3198	O2	oxygen	7782-44-7	-252.50	1.4256	2
2975	Na2S2O5	sodium metabisulfite	7681-57-4	25.00	1.4800	1	3199	O3	ozone	10028-15-6	-196.00	1.7290	1
2976	Na2S4	sodium tetrasulfide	12034-39-8	20.00	2.0800	1	3200	Os	osmium	7440-04-2	25.00	22.5900	1
2977	Na2Se	sodium selenide	1313-85-5	25.00	2.6200	1	3210	OsCl4	osmium (iv) chloride	10026-01-4	25.00	4.3800	1
2979	Na2SiF6	sodium hexafluorosilicate	16893-85-9	25.00	2.7000	1	3214	OsF6	osmium (vi) fluoride	13768-38-2	25.00	4.1000	1
2980	Na2SiO3	sodium metasilicate	6834-92-0	25.00	2.6100	1	3221	OsO2	osmium (iv) oxide	12036-02-1	25.00	11.4000	1
2983	Na3AlF6	sodium hexafluoroaluminate	13775-53-6	25.00	2.9700	1	3222	OsO4	osmium tetroxide	20816-12-0	25.00	5.1000	1
3000	Na3H24O16P	sodium phosphate dodecahydrate	10101-89-0	25.00	1.6200	1	3228	Os3C12O12	osmium carbonyl	15696-40-9	25.00	3.4800	1
3002	Na3O4P	sodium phosphate	7601-54-9	17.50	2.5360	1	3234	P	phosphorus (white)	7723-14-0	25.00	1.8230	1
3006	Na4C6H20FeN8O10	sodium ferrocyanide decahydrate	13601-19-9	25.00	1.4600	1	3235	P	phosphorus (red)	7723-14-0	25.00	2.3400	1
3013	Na4P2O7	sodium pyrophosphate	7722-88-5	25.00	2.5340	1	3236	P	phosphorus (black)	7723-14-0	25.00	2.6900	1
3015	Na5O10P3	sodium triphosphate	7758-29-4	20.00	2.5850	1	3238	PBr3	phosphorus tribromide	7789-60-8	-79.00	3.4120	1
3019	Nb	niobium	7440-03-1	25.00	8.5700	1	3239	PBr5	phosphorus (v) bromide	7789-69-7	-79.00	3.5740	1
3020	NbB	niobium boride	12045-19-1	25.00	7.5000	1	3381	PCl3	phosphorus (iii) chloride	7719-12-2	-183.00	2.0150	1
3021	NbB2	niobium boride	12007-29-3	25.00	6.8000	1	3382	PCl5	phosphorus pentachloride	10026-13-8	20.00	2.1190	1
3024	NbBr5	niobium (v) bromide	13478-45-0	25.00	4.3600	1	3389	PH3	phosphine	7803-51-2	-170.00	0.8960	1
3025	NbC	niobium carbide	12069-94-2	25.00	7.8200	1	3392	PH4I	phosphonium iodide	12125-09-6	25.00	2.8600	1
3033	NbCl4	niobium (iv) chloride	13569-70-5	25.00	3.2000	1	3394	PI3	phosphorus (iii) iodide	13455-01-1	25.00	4.1800	1
3034	NbCl5	niobium (v) chloride	10026-12-7	25.00	2.7800	1	3395	POBr3	phosphorus (v) oxybromide	7789-59-5	25.00	2.8220	1
3035	NbF3	niobium (iii) fluoride	15195-53-6	25.00	4.2000	1	3396	POCl3	phosphorus oxychloride	10025-87-3	-79.00	2.0660	1
3036	NbF4	niobium (iv) fluoride	13842-88-1	25.00	4.0100	1	3397	PSBr3	phosphorus thiobromide	3931-89-3	17.00	2.8500	1
3037	NbF5	niobium (v) fluoride	7783-68-8	25.00	2.7000	1	3448	P2O3	phosphorus trioxide	1314-24-5	21.00	2.1350	1
3041	NbI4	niobium (iv) iodide	13870-21-8	25.00	5.6000	1	3449	P2O5	phosphorus pentoxide	1314-56-3	25.00	2.2810	2
3042	NbI5	niobium (v) iodide	13779-92-5	25.00	5.3200	1	3451	P2S5	phosphorus (v) sulfide	1314-80-3	17.00	1.0450	1
3043	NbN	niobium nitride	24621-21-4	25.00	8.4700	1	3452	P2Se3	phosphorus (iii) selenide	---	25.00	1.3100	1
3044	NbO	niobium (ii) oxide	12034-57-0	25.00	7.3000	1	3457	P3Cl6N3	phosphonitrilic chloride trimer	940-71-6	25.00	1.9800	1
3046	NbOCl3	niobium (v) oxychloride	13597-20-1	25.00	3.7200	1	3458	P3N5	phosphorus nitride	12136-91-3	18.00	2.5100	1
3047	NbO2	niobium (iv) oxide	12034-59-2	25.00	5.9000	1	3461	P4O6	phosphorous (iii) oxide	12440-00-5	25.00	2.1300	1
3048	NbO2F	niobium (v) dioxyfluoride	15195-33-2	25.00	4.0000	1	3462	P4S3	phosphorus sesquisulfide	1314-85-8	25.00	2.0000	1
3049	NbP	niobium phosphide	12034-66-1	25.00	6.5000	1	3463	P4S4	tetraphosphorus tetrasulfide	39350-99-7	25.00	2.2200	1
3050	Nb2C	niobium carbide	12011-99-3	25.00	7.8000	1	3464	P4S5	tetraphosphorus pentasulfide	15578-54-8	25.00	2.1700	1
3052	Nb2O5	niobium (v) oxide	1313-96-8	25.00	4.6000	1	3466	P4S7	phosphorus heptasulfide	12037-82-0	25.00	2.1900	1
3053	NbS2	niobium (iv) sulfide	12136-97-9	25.00	4.4000	1	3468	P4Se3	phosphorous triselinide	1314-86-9	25.00	1.3100	1
3054	NbSe2	niobium (iv) selenide	12034-77-4	25.00	6.3000	1	3469	Pa	protactinium	7440-13-3	25.00	15.4000	1
3055	NbSi2	niobium silicide	12034-80-9	25.00	5.7000	1	3473	PaCl5	protactinium (v) chloride	13760-41-3	25.00	3.7400	1
3056	NbTe2	niobium (iv) telluride	12034-83-2	25.00	7.6000	1	3483	Pb	lead	7439-92-1	25.00	11.3000	1
3057	Nd	neodymium	7440-00-8	25.00	7.0100	1	3484	PbAs2O4	lead (ii) arsenite	10031-13-7	25.00	5.8500	1
3058	NdB6	neodymium boride	12008-23-0	25.00	4.9300	1	3486	PbB2H2O5	lead (ii) borate monohydrate	10214-39-8	25.00	5.6000	1
3060	NdBr3	neodymium tribromide	13536-80-6	25.00	5.3000	1	3487	PbBr2	lead bromide	10031-22-8	25.00	6.6900	1
3070	NdCl3	neodymium trichloride	10024-93-8	25.00	4.1300	1	3489	PbBr2H2O7	lead (ii) bromate monohydrate	10031-21-7	25.00	5.5300	1
3071	NdCl3H12O6	neodymium chloride hexahydrate	13477-89-9	25.00	2.3000	1	3492	PbCO3	lead (ii) carbonate	598-63-0	25.00	6.6000	1
3073	NdF3	neodymium fluoride	13709-42-7	25.00	6.5100	1	3493	PbC2H2O4	lead (ii) formate	811-54-1	25.00	4.6300	1

Table 6 Density of Solid - Inorganic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
3495	PbC2N2S2	lead (ii) thiocyanate	592-87-0	25.00	3.8200	1	3746	PtS	platinum (ii) sulfide	12038-20-9	25.00	10.2500	1
3496	PbC2O4	lead (ii) oxalate	15843-48-8	25.00	5.2800	1	3747	PtS2	platinum (iv) sulfide	12038-21-0	25.00	7.8500	1
3497	PbC4H6O4	lead (ii) acetate	301-04-2	25.00	3.2500	1	3749	PtSi	platinum silicide	12137-83-6	25.00	12.4000	1
3499	PbC4H12O10	lead (ii) acetate trihydrate	6080-56-4	25.00	2.5500	1	3756	Pu	plutonium	7440-07-5	25.00	19.7000	1
3502	PbC8H12O8	lead (iv) acetate	546-67-8	25.00	2.2300	1	3757	PuBr3	plutonium (iii) bromide	15752-46-2	25.00	6.7500	1
3513	PbClF	lead (ii) chloride fluoride	13847-57-9	25.00	7.0500	1	3758	PuCl3	plutonium (iii) chloride	13569-62-5	25.00	5.7100	1
3514	PbCl2	lead chloride	7758-95-4	25.00	5.9800	1	3760	PuF3	plutonium (iii) fluoride	13842-83-6	25.00	9.3300	1
3515	PbCl2H6O11	lead (ii) perchlorate trihydrate	13637-76-8	25.00	2.6000	1	3761	PuF4	plutonium (iv) fluoride	13709-56-3	25.00	7.1000	1
3517	PbCl2O6	lead (ii) chlorate	10294-47-0	25.00	3.9000	1	3762	PuF6	plutonium (vi) fluoride	13693-06-6	25.00	5.0800	1
3520	PbCrO4	lead (ii) chromate	7758-97-6	25.00	6.1200	1	3765	PuI3	plutonium (iii) iodide	13813-46-2	25.00	6.9200	1
3521	PbF2	lead fluoride	7783-46-2	25.00	8.4400	1	3766	PuN	plutonium nitride	12033-54-4	25.00	14.4000	1
3522	PbF4	lead (iv) fluoride	7783-59-7	25.00	6.7000	1	3767	PuO	plutonium (ii) oxide	12035-83-5	25.00	14.0000	1
3525	PbHAsO4	lead (ii) hydrogen arsenate	7784-40-9	25.00	5.9430	1	3770	PuO2	plutonium (iv) oxide	12059-95-9	25.00	11.5000	1
3527	PbHPO4	lead (ii) hydrogen phosphate	15845-52-0	25.00	5.6600	1	3771	Pu2O3	plutonium (iii) oxide	12036-34-9	25.00	10.5000	1
3528	PbH2O2	lead (ii) hydroxide	19783-14-3	25.00	7.5900	1	3772	Pu2S3	plutonium (iii) sulphide	12038-56-1	25.00	9.9500	1
3530	PbI2	lead iodide	10101-63-0	25.00	6.1600	1	3773	Ra	radium	7440-14-4	25.00	5.0000	1
3531	PbI2O6	lead (ii) iodate	25659-31-8	25.00	6.5000	1	3774	RaBr2	radium bromide	10031-23-9	25.00	5.7900	1
3532	PbMoO4	lead (ii) molybdate	10190-55-3	25.00	6.7000	1	3775	RaCl2	radium chloride	10025-66-8	25.00	4.9000	1
3533	PbN2O6	lead (ii) nitrate	10099-74-8	25.00	4.5300	1	3777	RaF2	radium fluoride	20610-49-5	25.00	6.7000	1
3534	PbN6	lead (ii) azide	13424-46-9	25.00	4.7000	1	3781	Rb	rubidium	7440-17-7	25.00	1.5300	1
3536	PbNb2O6	lead (ii) niobate	12034-88-7	25.00	6.6000	1	3786	RbBr	rubidium bromide	7789-39-1	25.00	3.3500	1
3537	PbO	lead oxide	1317-36-8	25.00	9.3500	1	3791	RbCl	rubidium chloride	7791-11-9	25.00	2.7600	1
3538	PbO	lead (ii) oxide (massicot)	1317-36-8	25.00	9.6400	1	3793	RbClO4	rubidium perchlorate	13510-42-4	25.00	2.8000	1
3539	PbO	lead (ii) oxide (litharge)	1317-36-8	25.00	9.3500	1	3794	RbCN	rubidium cyanide	19073-56-4	25.00	2.3000	1
3540	PbO2	lead (iv) oxide	1309-60-0	25.00	9.6400	1	3795	RbF	rubidium fluoride	13446-74-7	25.00	3.2000	1
3545	PbS	lead sulfide	1314-87-0	25.00	7.6000	1	3797	RbH	rubidium hydride	13446-75-8	25.00	2.6000	1
3547	PbSO4	lead (ii) sulfate	7446-14-2	25.00	6.2900	1	3799	RbHF2	rubidium hydrogen fluoride	12280-64-7	25.00	3.3000	1
3548	PbS2O3	lead (ii) thiosulfate	13478-50-7	25.00	5.1800	1	3800	RbHSO4	rubidium hydrogen sulfate	15587-72-1	25.00	2.9000	1
3550	PbSe	lead (ii) selenide	12069-00-0	25.00	8.1000	1	3801	RbI	rubidium iodide	7790-29-6	25.00	3.5500	1
3551	PbSeO3	lead (ii) selenite	7488-51-9	25.00	7.0000	1	3803	RbNO3	rubidium nitrate	13126-12-0	25.00	3.1100	1
3552	PbSeO4	lead (ii) selenate	7446-15-3	25.00	6.3700	1	3804	RbN3	rubidium azide	22756-36-1	25.00	2.7900	1
3553	PbSiO3	lead (ii) metasilicate	10099-76-0	25.00	6.4900	1	3806	RbOH	rubidium hydroxide	1310-82-3	25.00	3.2000	1
3554	PbTa2O6	lead (ii) tantalate	12065-68-8	25.00	7.9000	1	3807	RbO2	rubidium superoxide	12137-25-6	25.00	3.0000	1
3555	PbTe	lead (ii) telluride	1314-91-6	25.00	8.1640	1	3816	Rb2O	rubidium oxide	18088-11-4	25.00	4.0000	1
3556	PbTiO3	lead (ii) titanate	12060-00-3	25.00	7.9000	1	3817	Rb2O2	rubidium peroxide	23611-30-5	25.00	3.8000	1
3557	PbWO4	lead (ii) tungstate (stolzite)	7759-01-5	25.00	8.2400	1	3821	Rb2S	rubidium sulfide	31083-74-6	25.00	2.9100	1
3558	PbWO4	lead (ii) tungstate (raspite)	7759-01-5	25.00	8.4600	1	3822	Rb2SO4	rubidium sulfate	7488-54-2	25.00	3.6000	1
3562	Pb2O3	lead (ii,iv) oxide	1314-27-8	25.00	10.0500	1	3823	Rb2Se	rubidium selenide	31052-43-4	25.00	3.2200	1
3563	Pb2SiO4	lead (ii) orthosilicate	13566-17-1	25.00	7.6000	1	3828	Re	rhenium	7440-15-5	25.00	20.8000	1
3564	Pb3As2O8	lead (ii) arsenate	3687-31-8	25.00	5.8000	1	3830	ReBr3	rhenium (iii) bromide	13569-49-8	25.00	6.1000	1
3565	Pb3C2H2O8	lead basic carbonate	1319-46-6	25.00	6.6800	1	3845	ReCl3	rhenium (iii) chloride	13569-63-6	25.00	4.8100	1
3568	Pb3O4	lead (ii,ii,iv) oxide	1314-41-6	25.00	8.9200	1	3846	ReCl4	rhenium (iv) chloride	13569-71-6	25.00	4.9000	1
3569	Pb3O8P2	lead (ii) phosphate	7446-27-7	25.00	7.0100	1	3847	ReCl5	rhenium (v) chloride	39368-69-9	25.00	4.9000	1
3570	Pb3O8Sb2	lead (ii) antimonate	13510-89-9	25.00	6.5800	1	3849	ReF4	rhenium (iv) fluoride	15192-42-4	25.00	7.4900	1
3571	Pd	palladium	7440-05-3	25.00	12.0000	1	3852	ReF6	rhenium (vi) fluoride	10049-17-9	25.00	4.0600	1
3572	PdBr2	palladium (ii) bromide	13444-94-5	25.00	5.1730	1	3853	ReF7	rhenium (vii) fluoride	17029-21-9	25.00	4.3200	1
3608	PdCl2	palladium (ii) chloride	7647-10-1	25.00	4.0000	1	3854	ReH4NO4	ammonium perrhenate	13598-65-7	25.00	3.9700	1
3612	PdF2	palladium (ii) fluoride	13444-96-7	25.00	5.7600	1	3860	ReO2	rhenium (iv) oxide	12036-09-8	25.00	11.4000	1
3619	PdI2	palladium (ii) iodide	7790-38-7	25.00	6.0000	1	3862	ReO3	rhenium (vi) oxide	1314-28-9	25.00	6.9000	1
3620	PdN2O6	palladium (ii) nitrate	10102-05-3	25.00	1.1180	1	3866	ReS2	rhenium (iv) sulfide	12038-63-0	25.00	7.6000	1
3621	PdO	palladium (ii) oxide	1314-08-5	25.00	8.3000	1	3869	ReTe2	rhenium (iv) telluride	12067-00-4	25.00	8.5000	1
3623	PdS	palladium (ii) sulfide	12125-22-3	25.00	6.7000	1	3870	Re2C10O10	rhenium carbonyl	14285-68-8	25.00	2.8700	1
3637	Pm	promethium	7440-12-2	25.00	7.2600	1	3875	Re2O7	rhenium heptoxide	1314-68-7	25.00	6.1000	1
3638	PmBr3	promethium tribromide	14325-78-1	25.00	5.4000	1	3876	Re2S7	rhenium (vii) sulfide	12038-67-4	25.00	4.8700	1
3641	Po	polonium	7440-08-6	25.00	9.2000	1	3878	Rf	rutherfordium	53850-36-5	25.00	23.0000	2
3649	PoO2	polonium (iv) oxide	7446-06-2	25.00	8.9000	1	3880	Rh	rhodium	7440-16-6	25.00	12.4000	1
3650	Pr	praseodymium	7440-10-0	25.00	6.7700	1	3908	RhCl3	rhodium (iii) chloride	10049-07-7	25.00	5.3800	1
3651	PrB6	praseodymium boride	12008-27-4	25.00	4.8400	1	3910	RhF3	rhodium (iii) fluoride	60804-25-3	25.00	5.4000	1
3653	PrBr3	praseodymium bromide	13536-53-3	25.00	5.2800	1	3912	RhF6	rhodium (vi) fluoride	13693-07-7	25.00	3.1000	1
3663	PrCl3	praseodymium chloride	10361-79-2	25.00	4.0000	1	3915	RhI3	rhodium (iii) iodide	15492-38-3	25.00	6.4000	1
3667	PrF3	praseodymium fluoride	13709-46-1	25.00	6.3000	1	3918	RhO2	rhodium (iv) oxide	12137-27-8	25.00	7.2000	1
3674	PrN	praseodymium nitride	25764-09-4	25.00	7.4600	1	3934	Rh2O3	rhodium (iii) oxide	12036-35-0	25.00	8.2000	1
3678	PrSi2	praseodymium silicide	12066-83-0	25.00	5.4600	1	3937	Rh4C12O12	rhodium dodecacarbonyl	19584-30-6	25.00	2.5200	1
3687	Pr2O3	praseodymium oxide	12036-32-7	25.00	6.9000	1	3941	Ru	ruthenium	7440-18-8	25.00	12.1000	1
3688	Pr2S3	praseodymium sulfide	12038-13-0	25.00	5.1000	1	3943	RuBr3	ruthenium (iii) bromide	14014-88-1	25.00	5.3000	1
3691	Pt	platinum	7440-06-4	25.00	21.5000	1	3968	RuCl3	ruthenium (iii) chloride	10049-08-8	25.00	3.1000	1
3692	PtBr2	platinum (ii) bromide	13455-12-4	25.00	6.6520	1	3972	RuF3	ruthenium (iii) fluoride	51621-05-7	25.00	5.3600	1
3693	PtBr3	platinum (iii) bromide	25985-07-3	25.00	6.5040	1	3974	RuF5	ruthenium (v) fluoride	14521-18-7	25.00	3.9000	1
3694	PtBr4	platinum (iv) bromide	68938-92-1	20.00	5.6900	1	3975	RuF6	ruthenium (vi) fluoride	13693-08-8	25.00	3.5400	1
3725	PtCl2	platinum (ii) chloride	10025-65-7	25.00	6.0540	1	3978	RuI3	ruthenium (iii) iodide	13896-65-6	25.00	6.0000	1
3729	PtCl3	platinum (iii) chloride	25909-39-1	25.00	5.2560	1	3979	RuO2	ruthenium (iv) oxide	12036-10-1	25.00	7.0500	1
3730	PtCl4	platinum (iv) chloride	37773-49-2	25.00	4.3030	1	3980	RuO4	ruthenium (viii) oxide	20427-56-9	25.00	3.2900	1
3733	PtCl4H10O5	platinum (iv) chloride pentahydrate	13454-96-1	25.00	2.4300	1	3991	S	sulfur	7704-34-9	17.00	2.0526	1
3734	PtCl6H14O6	hexachloroplatinic acid hexahydrate	---	25.00	2.4300	1	3996	SCl2O	thionyl chloride	7719-09-7	-104.50	2.1772	2
3736	PtF6	platinum (vi) fluoride	13693-05-5	25.00	3.8300	1	4001	SF6	sulfur hexafluoride	2551-62-4	-91.15	2.5501	1
3739	PtI2	platinum (ii) iodide	7790-39-8	25.00	6.4030	1	4003	SH4N2O2	sulfuryl amide	7803-58-9	25.00	1.6110	1
3740	PtI3	platinum triiodide	68220-29-1	25.00	7.4140	1	4007	SO2	sulfur dioxide	7446-09-5	-75.48	1.8963	2
3741	PtI4	platinum (iv) iodide	7790-46-7	25.00	6.0640	1	4008	SO2Cl2	sulfuryl chloride	7791-25-5	-54.15	2.1190	2
3743	PtO	platinum (ii) oxide	12035-82-4	25.00	14.1000	1	4010	SO3	sulfur trioxide	7446-11-9	-100.00	2.2898	1
3744	PtO2	platinum (iv) oxide	1314-15-4	25.00	11.8000	1	4013	S2Cl2	sulfur monochloride	10025-67-9	-195.00	2.0910	1

Table 6 Density of Solid - Inorganic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
4022	S4N4	sulfur (iii) nitiride	28950-34-7	18.00	2.2400	1	4434	SnO	tin (ii) oxide	21651-19-4	25.00	6.4500	1
4023	Sb	antimony	7440-36-0	25.00	6.6800	1	4435	SnO2	tin (iv) oxide	18282-10-5	25.00	6.8500	1
4024	SbAs	antimony arsenide	12322-34-8	25.00	6.0000	1	4438	SnS	tin (ii) sulfide	1314-95-0	25.00	5.0800	1
4025	SbBr3	antimony tribromide	7789-61-9	25.00	4.3500	1	4439	SnSO4	tin (ii) sulfate	7488-55-3	25.00	4.1500	1
4042	SbCl3	antimony trichloride	10025-91-9	20.00	3.1403	1	4440	SnS2	tin (iv) sulfide	1315-01-1	25.00	4.5000	1
4044	SbCl5	antimony pentachloride	7647-18-9	2.60	2.3870	1	4441	SnSe	tin (ii) selenide	1315-06-6	25.00	6.1800	1
4045	SbF3	antimony (iii) fluoride	7783-56-4	25.00	4.3800	1	4442	SnSe2	stannic selenide	20770-09-6	25.00	4.8500	1
4049	SbI3	antimony triiodide	7790-44-5	25.00	4.9200	1	4443	SnTe	tin (ii) telluride	12040-02-7	25.00	6.5000	1
4056	Sb2O3	antimony (iii) oxide	1309-64-4	25.00	5.2000	1	4444	SnZrF6	tin (ii) hexafluorozirconate	12419-43-1	25.00	4.2100	1
4057	Sb2O4	antimony (iii,v) oxide	1332-81-6	20.00	3.9000	1	4459	Sn2P2O7	tin (ii) pyrophosphate	15578-26-4	25.00	4.0090	1
4058	Sb2O5	antimony (v) oxide	1314-60-9	20.00	3.7800	1	4461	Sr	strontium	7440-24-6	25.00	2.6400	1
4059	Sb2O12S3	antimony (iii) sulfate	7446-32-4	25.00	3.6200	1	4464	SrBr2	strontium bromide	10476-81-0	25.00	4.2160	1
4060	Sb2S3	antimony (iii) sulfide	1345-04-6	25.00	4.5620	1	4465	SrBr2H2O7	strontium bromate monohydrate	14519-18-7	25.00	3.7700	1
4061	Sb2S5	antimony (v) sulfide	1315-04-4	25.00	4.1200	1	4466	SrBr2H12O6	strontium bromide hexahydrate	7789-53-9	25.00	2.3860	1
4062	Sb2Se3	antimony (iii) selenide	1315-05-5	25.00	5.8100	1	4467	SrCO3	strontium carbonate	1633-05-2	25.00	3.5000	1
4063	Sb2Te3	antimony (iii) teluride	1327-50-0	25.00	6.5000	1	4468	SrC2	strontium carbide	12071-29-3	25.00	3.1900	1
4065	Sc	scandium	7440-20-2	25.00	2.9900	1	4479	SrCl2	strontium chloride	10476-85-4	25.00	3.0520	1
4066	ScB2	scandium boride	12007-34-0	25.00	3.1700	1	4481	SrCl2H12O6	strontium chloride hexahydrate	10025-70-4	25.00	1.9600	1
4067	ScBr3	scandium bromide	13465-59-3	20.50	3.9100	1	4482	SrCl2O6	strontium chlorate	7791-10-8	25.00	3.1500	1
4071	ScCl3	scandium chloride	10361-84-9	25.00	2.4000	1	4483	SrCrO4	strontium chromate	7789-06-2	25.00	3.9000	1
4080	Sc2O3	scandium oxide	12060-08-1	25.00	3.8640	1	4484	SrF2	strontium fluoride	7783-48-4	25.00	4.2400	1
4081	Sc2S3	scandium sulfide	12166-29-9	25.00	2.9100	1	4486	SrH2	strontium hydride	13598-33-9	25.00	3.2600	1
4082	Sc2Te3	scandium telluride	12166-44-8	25.00	5.2900	1	4487	SrH2O2	strontium hydroxide	18480-07-4	25.00	3.6250	1
4083	Se	selenium (gray)	7782-49-2	25.00	4.8100	1	4490	SrH12I2O6	strontium iodide hexahydrate	73796-25-5	25.00	4.4000	1
4084	Se	selenium (a form)	7782-49-2	25.00	4.3900	1	4492	SrI2	strontium iodide	10476-86-5	25.00	4.5500	1
4085	Se	selenium (vitreous)	7782-49-2	25.00	4.2800	1	4495	SrN2O4	strontium nitrite	13470-06-9	25.00	2.8000	1
4107	SeCl4	selenium tetrachloride	10026-03-6	25.00	2.6000	1	4496	SrN2O6	strontium nitrate	10042-76-9	25.00	2.9900	1
4109	SeF4	selenium tetrafluoride	13465-66-2	-34.80	3.2700	1	4497	SrNb2O6	strontium niobate	12034-89-8	25.00	5.1100	1
4111	SeH2O3	selenous acid	7783-00-8	25.00	3.0000	1	4498	SrO	strontium oxide	1314-11-0	25.00	5.1000	1
4112	SeH2O4	selenic acid	7783-08-6	25.00	2.9500	1	4499	SrO2	strontium peroxide	1314-18-7	25.00	4.7800	1
4114	SeOBr2	selenium oxybromide	7789-51-7	25.00	3.3800	1	4502	SrO4S	strontium sulfate	7759-02-6	25.00	3.9600	1
4117	SeO2	selenium dioxide	7446-08-4	25.00	3.9500	1	4503	SrO4W	strontium tungstate	13451-05-3	25.00	6.1870	1
4119	SeO3	selenium trioxide	13768-86-0	25.00	3.4400	1	4506	SrS	strontium sulfide	1314-96-1	25.00	3.7000	1
4135	Se2S6	selenium sulfide	75926-26-0	25.00	2.4400	1	4507	SrSO4	strontium sulfate	7759-02-6	25.00	3.9600	1
4137	Se4N4	selenide, nitrogen	12033-88-4	25.00	4.2000	1	4508	SrSe	strontium selenide	1315-07-7	25.00	4.5400	1
4138	Se4S4	selenium sulfide	75926-28-2	25.00	3.2900	1	4509	SrSeO4	strontium selenate	7446-21-1	25.00	4.2500	1
4139	Sg	seaborgium	54038-81-2	25.00	35.0000	2	4510	SrSi2	strontium silicide	12138-28-2	25.00	3.3500	1
4140	Si	silicon	7440-21-3	20.00	2.3300	1	4511	SrTiO3	strontium titanate	12060-59-2	25.00	5.1000	1
4146	SiBr4	tetrabromosilane	7789-66-4	5.20	3.2900	1	4512	Sr2SiO4	strontium orthosilicate	13597-55-2	25.00	4.5000	1
4147	SiC	silicon carbide (hexagonal)	409-21-2	25.00	3.1600	1	4517	Ta	tantalum	7440-25-7	25.00	16.4000	1
4244	SiCl4	silicon tetrachloride	10026-04-7	-68.85	1.8966	1	4518	TaAl3	tantalum aluminide	12004-76-1	25.00	7.0200	1
4245	SiF4	silicon tetrafluoride	7783-61-1	-86.80	2.1265	1	4519	TaB	tantalum boride	12007-07-7	25.00	14.2000	1
4247	SiHCl3	silane, trichloro	10025-78-2	-128.20	1.8692	2	4520	TaB2	tantalum diboride	12007-35-1	25.00	11.2000	1
4251	SiH2Cl2	silane, dichloro	4109-96-0	-122.00	1.6565	2	4523	TaBr5	tantalum (v) bromide	13451-11-1	25.00	4.9900	1
4261	SiH4	silane	7803-62-5	-209.65	0.7700	1	4524	TaC	tantalum carbide	12070-06-3	25.00	14.3000	1
4263	SiI4	silane, tetraiodo	13465-84-4	25.00	4.1000	1	4531	TaCl5	tantalum (v) chloride	7721-01-9	25.00	3.6800	1
4264	SiO	silicon monoxide	10097-28-6	25.00	2.1800	1	4532	TaF3	tantalum (iii) fluoride	13814-17-0	19.00	4.7400	1
4265	SiO2	silicon dioxide (alpha quartz)	14808-60-7	25.00	2.6507	2	4533	TaF5	tantalum (v) fluoride	7783-71-3	25.00	5.0000	1
4266	SiO2	silicon dioxide (tridymite)	15468-32-3	25.00	2.2650	1	4536	TaI5	tantalum (v) iodide	14693-81-3	25.00	5.8000	1
4267	SiO2	silicon dioxide (cristobalite)	14464-46-1	25.00	2.3340	1	4537	TaN	tantalum nitride	12033-62-4	25.00	13.7000	1
4268	SiO2	silicon dioxide (vitreous)	60676-86-0	25.00	2.1960	1	4539	TaO2	tantalum (iv) oxide	12036-14-5	25.00	10.0000	1
4270	SiS	silicon monosulfide	12504-41-5	25.00	1.8500	1	4541	TaS2	tantalum (iv) sulfide	12143-72-5	25.00	6.8600	1
4271	SiS2	silicon disulfide	13759-10-9	25.00	2.0400	1	4542	TaSe2	tantalum (iv) selenide	12039-55-3	25.00	6.7000	1
4289	Si2H6	disilane	1590-87-0	-132.50	0.9084	2	4543	TaSi2	tantalum silicide	12039-79-1	25.00	9.1400	1
4298	Si3N4	silicon nitride	12033-89-5	25.00	3.1700	1	4544	TaTe2	tantalum (iv) telluride	12067-66-2	25.00	9.4000	1
4303	Sm	samarium	7440-19-9	25.00	7.5200	1	4545	Ta2C	tantalum carbide	12070-07-4	25.00	15.1000	1
4304	SmB6	samarium boride	---	25.00	5.0700	1	4548	Ta2O5	tantalum (v) oxide	1314-61-0	25.00	8.2000	1
4314	SmCl2	samarium (ii) chloride	13874-75-4	25.00	3.6900	1	4550	Tb	terbium	7440-27-9	25.00	8.2300	1
4315	SmCl3	samarium (iii) chloride	10361-82-7	25.00	4.4600	1	4553	TbCl3	terbium chloride	10042-88-3	25.00	4.3500	1
4316	SmCl3H12O6	samarium (iii) chloride hexahydrate	13465-55-9	25.00	2.3800	1	4554	TbCl3H12O6	terbium chloride hexahydrate	13798-24-8	25.00	4.3500	1
4318	SmF3	samarium (iii) fluoride	13765-24-7	25.00	6.9300	1	4561	TbI3	terbium iodide	13813-40-6	25.00	5.2000	1
4323	SmSi2	samarium silicide	12300-22-0	25.00	5.1400	1	4562	TbN	terbium nitride	12033-64-6	25.00	9.5500	1
4326	Sm2H16O20S3	samarium (iii) sulfate octahydrate	13465-58-2	25.00	2.9300	1	4564	TbSi2	terbium silicide	12039-80-4	25.00	6.6600	1
4327	Sm2O3	samarium (iii) oxide	12060-58-1	25.00	7.6000	1	4566	Tb2O3	terbium oxide	12036-41-8	25.00	7.9100	1
4328	Sm2S3	samarium (iii) sulfide	12067-22-0	25.00	5.8700	1	4567	Tb2S3	terbium sulfide	12138-11-3	25.00	6.3500	1
4330	Sm2Te3	samarium (iii) telluride	12040-00-5	25.00	7.3100	1	4570	Tc	technetium	7440-26-8	25.00	11.0000	1
4332	Sn	tin (white)	7440-31-5	25.00	7.2650	1	4578	TcF6	technetium (vi) fluoride	13842-93-8	25.00	3.0000	1
4333	Sn	tin (gray)	7440-31-5	25.00	5.7690	1	4583	Te	tellurium	13494-80-9	25.00	6.2400	1
4334	SnBr2	tin (ii) bromide	10031-24-0	25.00	5.1200	1	4585	TeBr4	tellurium tetrabromide	10031-27-3	25.00	4.3000	1
4335	SnBr4	stannic bromide	7789-67-5	25.00	3.3400	1	4587	TeCl2	tellurium dichloride	10025-71-5	25.00	6.9000	1
4342	SnC2O4	tin (ii) oxalate	814-94-8	25.00	3.5600	1	4588	TeCl4	tellurium tetrachloride	10026-07-0	25.00	3.0000	1
4348	SnC4H6O4	tin (ii) acetate	638-39-1	25.00	2.3100	1	4590	TeF6	tellurium hexafluoride	7783-80-4	-37.60	3.7600	1
4422	SnCl2	stannous chloride	7772-99-8	25.00	3.9000	1	4591	TeH2O3	tellurous acid	10049-23-7	25.00	3.0000	1
4423	SnCl2H4O2	tin (ii) chloride dihydrate	10025-69-1	25.00	2.7100	1	4592	TeH6O6	telluric (vi) acid	7803-68-1	25.00	3.0700	1
4424	SnCl4	stannic chloride	7646-78-8	-35.00	2.6500	1	4594	TeI4	tellurium tetraiodide	7790-48-9	25.00	5.0500	1
4425	SnCl4H10O5	tin (iv) chloride pentahydrate	10026-06-9	25.00	2.0400	1	4596	TeO2	tellurium dioxide	7446-07-3	25.00	5.9000	1
4428	SnF2	tin (ii) fluoride	7783-47-3	25.00	4.5700	1	4597	TeO3	tellurium trioxide	13451-18-8	25.00	5.0700	1
4429	SnF4	tin (iv) fluoride	7783-62-2	25.00	4.7800	1	4609	Th	thorium	7440-29-1	25.00	11.7000	1
4432	SnI2	tin (ii) iodide	10294-70-9	25.00	5.2800	1	4610	ThB6	thorium boride	12229-63-9	25.00	6.9900	1
4433	SnI4	stannic iodide	7790-47-8	25.00	4.4600	1	4611	ThBr4	thorium (iv) bromide	13453-49-1	25.00	5.6700	1

Table 6 Density of Solid - Inorganic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
4612	ThC	thorium carbide	12012-16-7	25.00	10.6000	1	4798	UN	uranium nitride	25658-43-9	25.00	14.3000	1
4613	ThC2	thorium dicarbide	12071-31-7	25.00	9.0000	1	4799	UN2O8	uranyl nitrate	10102-06-4	25.00	2.8070	1
4617	ThCl4	thorium (iv) chloride	10026-08-1	25.00	4.5900	1	4801	UO2	uranium (iv) oxide	1344-57-6	25.00	10.9700	1
4621	ThF4	thorium (iv) fluoride	13709-59-6	25.00	6.1000	1	4808	U2C3	uranium carbide	12076-62-9	25.00	12.7000	1
4622	ThH2	thorium hydride	16689-88-6	25.00	9.5000	1	4811	U2N3	uranium nitride	12033-83-9	25.00	11.3000	1
4629	ThN	thorium nitride	12033-65-7	25.00	11.6000	1	4816	U3O8	uranium (v,vi) oxide	1344-59-8	25.00	8.3800	1
4631	ThO2	thorium (iv) oxide	1314-20-1	20.00	9.6900	1	4818	U4O9	uranium (iv,v) oxide	12037-15-9	25.00	11.2000	1
4634	ThS2	thorium (iv) sulfide	12138-07-7	25.00	7.3000	1	4836	V	vanadium	7440-62-2	25.00	6.0646	1
4635	ThSe2	thorium (iv) selenide	60763-24-8	25.00	8.5000	1	4838	VB2	vanadium boride	12007-37-3	25.00	5.1000	1
4636	ThSiO4	thorium orthosilicate	14553-44-7	25.00	6.7000	1	4839	VBr2	vanadium (ii) bromide	14890-41-6	25.00	4.5800	1
4637	ThSi2	thorium silicide	12067-54-8	25.00	7.9000	1	4840	VBr3	vanadium (iii) bromide	13470-26-3	25.00	4.0000	1
4639	Ti	titanium	7440-32-6	25.00	4.5060	1	4842	VC	vanadium carbide	12070-10-9	25.00	5.7700	1
4640	TiB2	titanium boride	12045-63-5	25.00	4.3800	1	4849	VC15H21O6	vanadium (iii) acetylacetonate	13476-99-8	25.00	1.0500	1
4641	TiBr2	titanium (ii) bromide	13783-04-5	25.00	4.0000	1	4858	VCl2	vanadium (ii) chloride	10580-52-6	25.00	3.2300	1
4643	TiBr4	titanium (iv) bromide	7789-68-6	25.00	3.3700	1	4859	VCl3	vanadium (iii) chloride	7718-98-1	25.00	3.0000	1
4644	TiC	titanium carbide	12070-08-5	25.00	4.9300	1	4860	VCl4	vanadium tetrachloride	7632-51-1	-195.00	2.2130	1
4676	TiCl2	titanium (ii) chloride	10049-06-6	25.00	3.1300	1	4862	VF2O	vanadyl difluoride	13814-83-0	25.00	3.3960	1
4677	TiCl3	titanium (iii) chloride	7705-07-9	20.00	2.6517	1	4863	VF3	vanadium (iii) fluoride	10049-12-4	25.00	3.3630	1
4678	TiCl4	titanium tetrachloride	7550-45-0	-79.00	2.0597	1	4864	VF4	vanadium (iv) fluoride	10049-16-8	25.00	3.1500	1
4680	TiF3	titanium (iii) fluoride	13470-08-1	25.00	2.9800	1	4867	VH2O5Se	vanadyl selenite hydrate	13578-89-9	25.00	3.5060	1
4681	TiF4	titanium (iv) fluoride	7783-63-3	25.00	2.7980	1	4870	VI2	vanadium (ii) iodide	15513-84-5	25.00	5.4400	1
4682	TiH2	titanium hydride	7704-98-5	25.00	3.7500	1	4871	VI3	vanadium (iii) iodide	15513-94-7	25.00	5.2100	1
4683	TiH2O6S	titanium (iv) oxysulfate monohydrate	---	25.00	2.7100	1	4873	VN	vanadium nitride	24646-85-3	25.00	6.1300	1
4685	TiI2	titanium (ii) iodide	13783-07-8	25.00	5.0200	1	4874	VO	vanadium (ii) oxide	12035-98-2	25.00	5.7580	1
4686	TiI4	titanium (iv) iodide	7720-83-4	25.00	4.3000	1	4875	VOBr	vanadyl bromide	13520-88-2	25.00	4.0000	---
4687	TiN	titanium nitride	25583-20-4	25.00	5.2100	1	4878	VOCl	vanadyl chloride	13520-87-1	25.00	1.7200	1
4688	TiO	titanium (ii) oxide	12137-20-1	25.00	4.9500	1	4879	VOCl2	vanadyl dichloride	10213-09-9	25.00	2.8800	1
4689	TiO2	titanium (iv) oxide	13463-67-7	20.00	4.2584	1	4880	VOCl3	vanadium oxytrichloride	7727-18-6	-79.50	2.0969	2
4690	TiO2	rutile	1317-80-2	25.00	4.3000	1	4881	VOF3	vanadyl trifluoride	13709-31-4	25.00	2.4590	1
4692	TiP	titanium phosphide	12037-65-9	25.00	4.0800	1	4882	VO2	vanadium (iv) oxide	12036-21-4	25.00	4.3390	1
4693	TiS	titanium (ii) sulfide	12039-07-5	25.00	3.8500	1	4886	VSi2	vanadium silicide	12039-87-1	25.00	4.4200	1
4694	TiS2	titanium (iv) sulfide	12039-13-3	25.00	3.3700	1	4889	V2O3	vanadium (iii) oxide	1314-34-7	25.00	4.8700	1
4696	TiSi2	titanium silicide	12039-83-7	25.00	4.0000	1	4891	V2O5	vanadium (v) oxide	1314-62-1	25.00	3.3500	1
4698	Ti2O3	titanium (iii) oxide	1344-54-3	25.00	4.4860	1	4894	V2S3	vanadium (iii) sulfide	1315-03-3	25.00	4.7000	1
4700	Ti2S3	titanium (iii) sulfide	12039-16-6	25.00	3.5600	1	4895	V2S5	vanadium pentasulfide	12138-17-9	20.00	3.0000	1
4701	Ti3O5	titanium (iii,iv) oxide	12065-65-5	25.00	4.2400	1	4898	V3Si	vanadium silicide	12039-76-8	25.00	5.7000	1
4703	Tl	thallium	7440-28-0	25.00	11.8000	1	4899	W	tungsten	7440-33-7	25.00	19.3000	1
4704	TlBr	thallous bromide	7789-40-4	25.00	7.5000	1	4900	WB	tungsten boride	12007-09-9	25.00	15.2000	1
4706	TlCHO2	thallium (i) formate	992-98-3	25.00	4.9700	1	4904	WBr5	tungsten (v) bromide	13470-11-6	0.00	5.3840	1
4707	TlCN	thallium (i) cyanide	13453-34-4	25.00	6.5230	1	4905	WBr6	tungsten (vi) bromide	13701-86-5	0.00	5.1630	1
4708	TlC2H3O2	thallium (i) acetate	563-68-8	25.00	3.6800	1	4906	WC	tungsten carbide	12070-12-1	25.00	15.6000	1
4719	TlCl	thallium chloride	7791-12-0	25.00	7.0000	1	4907	WC6O6	tungsten carbonyl	14040-11-0	25.00	2.6500	1
4721	TlClO3	thallium (i) chlorate	13453-30-0	25.00	5.5000	1	4910	WCl2	tungsten (ii) chloride	13470-12-7	25.00	5.4360	1
4722	TlClO4	thallium (i) perchlorate	13453-40-2	25.00	4.8000	1	4912	WCl4	tungsten (iv) chloride	13470-13-8	25.00	4.6200	1
4723	TlCl3	thallium (iii) chloride	13453-32-2	25.00	4.7000	1	4913	WCl5	tungsten (v) chloride	13470-14-9	25.00	3.8750	1
4725	TlF	thallium (i) fluoride	7789-27-7	25.00	8.3600	1	4914	WCl6	tungsten (vi) chloride	13283-01-7	25.00	3.5200	1
4726	TlF3	thallium (iii) fluoride	7783-57-5	25.00	8.6500	1	4918	WH2O4	tungstic acid	7783-03-1	25.00	5.5000	1
4728	TlI	thallium iodide	7790-30-9	25.00	7.1000	1	4919	WI2	tungsten (ii) iodide	13470-17-2	25.00	6.7900	1
4730	TlNO2	thallium (i) nitrite	13826-63-6	25.00	5.7000	1	4921	WI4	tungsten (iv) iodide	14055-84-6	18.00	5.2000	1
4731	TlNO3	thallium (i) nitrate	10102-45-1	25.00	5.5500	1	4922	WN2	tungsten nitride	60922-26-1	25.00	7.7000	1
4734	TlOH	thallium (i) hydroxide	12026-06-1	25.00	7.4400	1	4926	WOCl4	tungsten (vi) oxytetrachloride	13520-78-0	25.00	11.9200	1
4735	TlPF6	thallium (i) hexafluorophosphate	60969-19-9	25.00	4.6000	1	4927	WOF4	tungsten (vi) oxytetrafluoride	13520-79-1	25.00	5.0700	1
4738	Tl2CO3	thallium (i) carbonate	6533-73-9	25.00	7.1100	1	4928	WO2	tungsten (iv) oxide	12036-22-5	25.00	10.8000	1
4739	Tl2C2O4	thallium (i) oxalate	30737-24-7	25.00	6.3100	1	4930	WO2Cl2	tungsten (vi) dioxydichloride	13520-76-8	25.00	4.6700	1
4741	Tl2O	thallium (i) oxide	1314-12-1	25.00	9.5200	1	4931	WO2I2	tungsten (vi) dioxydiiodide	14447-89-3	25.00	6.3900	1
4742	Tl2O3	thallium (iii) oxide	1314-32-5	25.00	10.2000	1	4932	WO3	tungsten (vi) oxide	1314-35-8	25.00	7.2000	1
4743	Tl2S	thallium (i) sulfide	1314-97-2	25.00	8.3900	1	4933	WS2	tungsten (iv) sulfide	12138-09-9	25.00	7.6000	1
4744	Tl2SO4	thallium (i) sulfate	7446-18-6	25.00	6.7700	1	4935	WSe2	tungsten (iv) selenide	12067-46-8	25.00	9.2000	1
4746	Tl2SeO4	thallium (i) selenate	7446-22-2	25.00	6.8750	1	4936	WSi2	tungsten silicide	12039-88-2	25.00	9.3000	1
4747	Tm	thulium	7440-30-4	25.00	9.3200	1	4937	WTe2	tungsten (iv) telluride	12067-76-4	25.00	9.4300	1
4764	Tm2O3	thulium oxide	12036-44-1	25.00	8.6000	1	4938	W2B	tungsten boride	12007-10-2	25.00	16.0000	1
4766	U	uranium	7440-61-1	25.00	19.1000	1	4939	W2B5	tungsten boride	12007-98-6	25.00	11.0000	1
4767	UB2	uranium boride	12007-36-2	25.00	12.7000	1	4940	W2C	tungsten carbide	12070-13-2	25.00	14.8000	1
4768	UB4	uranium boride	12007-84-0	25.00	9.3200	1	4942	W2N	tungsten nitride	12033-72-6	25.00	17.8000	1
4770	UBr4	uranium (iv) bromide	13470-20-7	21.00	4.8380	1	4943	W5Si3	tungsten silicide	12039-95-1	25.00	14.4000	1
4772	UC	uranium carbide	12070-09-6	25.00	13.6300	1	4945	Xe	xenon	7440-63-3	-111.79	3.5400	1
4774	UC2	uranium carbide	12071-33-9	25.00	11.3000	1	4947	XeF2	xenon difluoride	13709-36-9	25.00	4.3200	1
4779	UCl3	uranium (iii) chloride	10025-93-1	25.00	5.5100	1	4949	XeF4	xenon tetrafluoride	13709-61-0	25.00	4.0400	1
4780	UCl4	uranium (iv) chloride	10026-10-5	25.00	4.7200	1	4950	XeF6	xenon hexafluoride	13693-09-9	25.00	3.5600	1
4781	UCl5	uranium (v) chloride	13470-21-8	25.00	3.8100	1	4956	XeO2F2	xenon dioxydifluoride	13875-06-4	25.00	4.1000	1
4782	UCl6	uranium (vi) chloride	13763-23-0	25.00	3.6000	1	4957	XeO3	xenon trioxide	13776-58-4	25.00	4.5500	1
4783	UF3	uranium (iii) fluoride	13775-06-9	25.00	8.9000	1	4960	Y	yttrium	7440-65-5	25.00	4.4689	1
4784	UF4	uranium (iv) fluoride	10049-14-6	25.00	6.7000	1	4961	YAs	yttrium arsenide	12255-48-0	25.00	5.5900	1
4785	UF5	uranium (v) fluoride	13775-07-0	25.00	5.8100	1	4963	YB6	yttrium boride	12008-32-1	25.00	3.7200	1
4787	UF6	uranium fluoride	7783-81-5	25.00	5.0900	1	4966	YC2	yttrium carbide	12071-35-1	25.00	4.1300	1
4788	UH2O4	uranium (vi) oxide monohydrate	12326-21-5	25.00	7.0500	1	4976	YCl3	yttrium chloride	10361-92-9	25.00	2.6100	1
4790	UH3	uranium (iii) hydride	13598-56-6	25.00	11.1000	1	4979	YF3	yttrium fluoride	13709-49-4	25.00	4.0000	1
4791	UH6O9S	uranyl sulfate trihydrate	20910-28-5	25.00	3.2800	1	4981	YH12N3O15	yttrium nitrate hexahydrate	13494-98-9	25.00	2.6800	1
4794	UH12N2O14	uranyl nitrate hexahydrate	13520-83-7	25.00	2.8100	1	4987	YSb	yttrium antimonide	12186-97-9	25.00	5.9700	1
4797	UI4	uranium (iv) iodide	13470-22-9	15.00	5.6000	1	4990	Y2H16O20S3	yttrium sulfate octahydrate	7446-33-5	25.00	2.6000	1

Table 6 Density of Solid - Inorganic Compounds

Density of Solid							Density of Solid						
ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code	ID	FORMULA	NAME	CAS No	T, C	g/ml @T	code
4991	Y2O3	yttrium oxide	1314-36-9	25.00	5.0300	1	5084	ZnMoO4	zinc molybdate	13767-32-3	25.00	4.3000	1
4992	Y2S3	yttrium sulfide	12039-19-9	25.00	3.8700	1	5087	ZnO	zinc oxide	1314-13-2	20.00	5.6707	1
4993	Y3Al5O12	yttrium aluminum oxide	12005-21-9	25.00	4.5000	1	5088	ZnO2	zinc peroxide	1314-22-3	25.00	1.5700	1
4995	Yb	ytterbium	7440-64-4	25.00	6.9000	1	5092	ZnS	zinc sulfide (wurtzite)	1314-98-3	25.00	4.0900	1
5003	YbCl2	ytterbium (ii) chloride	13874-77-6	25.00	5.2700	1	5093	ZnS	zinc sulfide (sphalerite)	1314-98-3	25.00	4.0400	1
5005	YbCl3H12O6	ytterbium (iii) chloride hexahydrate	19423-87-1	25.00	2.5700	1	5094	ZnSO4	zinc sulfate	7733-02-0	15.00	3.7404	1
5008	YbF3	ytterbium (iii) fluoride	13760-80-0	25.00	8.2000	1	5095	ZnSb	zinc antimonide	12039-35-9	25.00	6.3300	1
5013	YbSi2	ytterbium silicide	12039-89-3	25.00	7.5400	1	5096	ZnSe	zinc selenide	1315-09-9	25.00	5.6500	1
5017	Yb2H16O20S3	ytterbium (iii) sulfate octahydrate	10034-98-7	25.00	3.3000	1	5097	ZnTe	zinc telluride	1315-11-3	25.00	5.9000	1
5018	Yb2O3	ytterbium (iii) oxide	1314-37-0	25.00	9.2000	1	5099	Zn2O7P2	zinc pyrophosphate	7446-26-6	25.00	3.7500	1
5021	Zn	zinc	7440-66-6	20.00	7.1412	1	5100	Zn2SiO4	zinc orthosilicate	13597-65-4	25.00	4.1000	1
5023	ZnB2F8H12O6	zinc fluoroborate hexahydrate	27860-83-9	25.00	2.1200	1	5102	Zn3As2H16O16	zinc arsenate octahydrate	13464-45-4	25.00	3.3300	1
5024	ZnBr2	zinc bromide	7699-45-8	25.00	4.2010	1	5105	Zn3B4O9	zinc borate	27043-84-1	25.00	3.6400	1
5025	ZnBr2H12O12	zinc bromate hexahydrate	13517-27-6	25.00	2.5700	1	5107	Zn3H8O12P2	zinc phosphate tetrahydrate	7543-51-3	25.00	3.0400	1
5026	ZnCO3	zinc carbonate	3486-35-9	25.00	4.4000	1	5110	Zn3O8P2	zinc phosphate	7779-90-0	25.00	4.0000	1
5029	ZnC2H4O6	zinc oxalate dihydrate	122465-35-4	25.00	2.5600	1	5111	Zn3P2	zinc phosphide	1314-84-7	25.00	4.5500	1
5031	ZnC2H6O6	zinc formate dihydrate	5970-62-7	25.00	2.2070	1	5113	Zr	zirconium	7440-67-7	25.00	6.5200	1
5033	ZnC2N2	zinc cyanide	557-21-1	25.00	1.8520	1	5115	ZrB2	zirconium boride	12045-64-6	25.00	6.1700	1
5037	ZnC4H10O6	zinc acetate dihydrate	5970-45-6	25.00	1.7350	1	5117	ZrBr4	zirconium bromide	13777-25-8	25.00	3.9800	1
5059	ZnC36H70O4	zinc stearate	557-05-1	25.00	1.0950	1	5118	ZrC	zirconium carbide	12020-14-3	25.00	6.7300	1
5062	ZnCl2	zinc chloride	7646-85-7	25.00	2.9070	1	5138	ZrCl2	zirconium dichloride	13762-26-0	18.00	3.6000	1
5063	ZnCl2H12O14	zinc perchlorate hexahydrate	10025-64-6	25.00	2.2000	1	5140	ZrCl2H16O9	zirconyl chloride octahydrate	13520-92-8	25.00	1.9100	1
5064	ZnCl2O6	zinc chlorate	10361-95-2	25.00	2.1500	1	5142	ZrCl4	zirconium chloride	10026-11-6	25.00	2.8000	1
5068	ZnCr2O4	zinc chromite	12018-19-8	25.00	5.2900	1	5143	ZrF4	zirconium (iv) fluoride	7783-64-4	25.00	4.4300	1
5069	ZnF2	zinc fluoride	7783-49-5	25.00	4.9000	1	5145	ZrH2	zirconium (ii) hydride	7704-99-6	25.00	5.6000	1
5070	ZnF2H8O4	zinc fluoride tetrahydrate	13986-18-0	25.00	2.3000	1	5146	ZrH4O4	zirconium hydroxide	14475-63-9	25.00	3.2500	1
5071	ZnF6H12O6Si	zinc hexafluorosilicate hexahydrate	16871-71-9	25.00	2.1040	1	5147	ZrH8O12S2	zirconium sulfate tetrahydrate	7446-31-3	25.00	2.8000	1
5073	ZnH2O2	zinc hydroxide	20427-58-1	25.00	3.0500	1	5152	ZrI4	zirconium iodide	13986-26-0	25.00	4.8500	1
5074	ZnH2O5S	zinc sulfate monohydrate	7446-19-7	25.00	3.2000	1	5153	ZrN	zirconium nitride	25658-42-8	25.00	7.0900	1
5077	ZnH10O9Se	zinc selenate pentahydrate	13597-54-1	25.00	2.5900	1	5154	ZrO2	zirconium (iv) oxide	1314-23-4	25.00	5.6800	1
5078	ZnH12Mn2O14	zinc permanganate hexahydrate	23414-72-4	25.00	2.4500	1	5155	ZrO4Si	zirconium (iv) orthosilicate	10101-52-7	25.00	4.6000	1
5079	ZnH12N2O12	zinc nitrate hexahydrate	10196-18-6	25.00	2.0670	1	5157	ZrO8S2	zirconium sulfate	14644-61-2	16.00	3.2200	1
5081	ZnH14O11S	zinc sulfate heptahydrate	7446-20-0	25.00	1.9700	1	5159	ZrP2	zirconium phosphide	12037-80-8	25.00	4.7700	1
5082	ZnI2	zinc iodide	10139-47-6	25.00	4.7400	1	5160	ZrS2	zirconium sulfide	12039-15-5	25.00	3.8200	1
5083	ZnI2O6	zinc iodate	7790-37-6	25.00	5.0630	1	5162	ZrSi2	zirconium silicide	12039-90-6	25.00	4.8800	1

Code: 1 - data, 2 - estimate

* Use ID or CAS No for complete name (See Chapther 1 of this book).

Chapter 7

ENTHALPY OF VAPORIZATION – ORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 7. For the tabulation, a modified Watson equation was selected for enthalpy of vaporization as a function of temperature:

$$\Delta H_{vap} = A\,(1 - T/T_C)^n \qquad (7)$$

where ΔH_{vap} = enthalpy of vaporization, kjoule/mol
A, T_C, and n = regression coefficients for chemical compound
T = temperature, K

The tabulation is arranged by carbon number (C, C2, C3, ...) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for regression coefficients are given in the adjacent columns. The temperature range for use is given in the next columns (TMIN and TMAX). The equation should not be used for temperatures outside this range. The next column provides the code for the tabulation. The last two columns provide a representative temperature and a value for enthalpy of vaporization at the representative temperature.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-33). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (1-2), Daubert and Danner (3), TRC (11-12), and Yaws (15-33) were used extensively for enthalpy of vaporization. Estimates for enthalpy of vaporization at the boiling point were primarily based on the Kistiakowsky rule (9) and Riedel method (9). The Joback method (9) was used for estimating critical temperature.

A comparison of calculated and data values is shown in Figure 7 for a representative compound. The graph shows favorable agreement of equation and data.

Example

In an engineering analysis, the enthalpy of vaporization is needed for methyl chloride (CH3Cl) at 248.93 K. Determine the enthalpy of vaporization of methyl chloride at this temperature.

Substitution of the coefficients from the tabulation and temperature into the above equation yields:

$$HVAP = 32.5337\,(1-248.93/416.25)^{0.4520}$$

HVAP = 21.549 kjoule/mol

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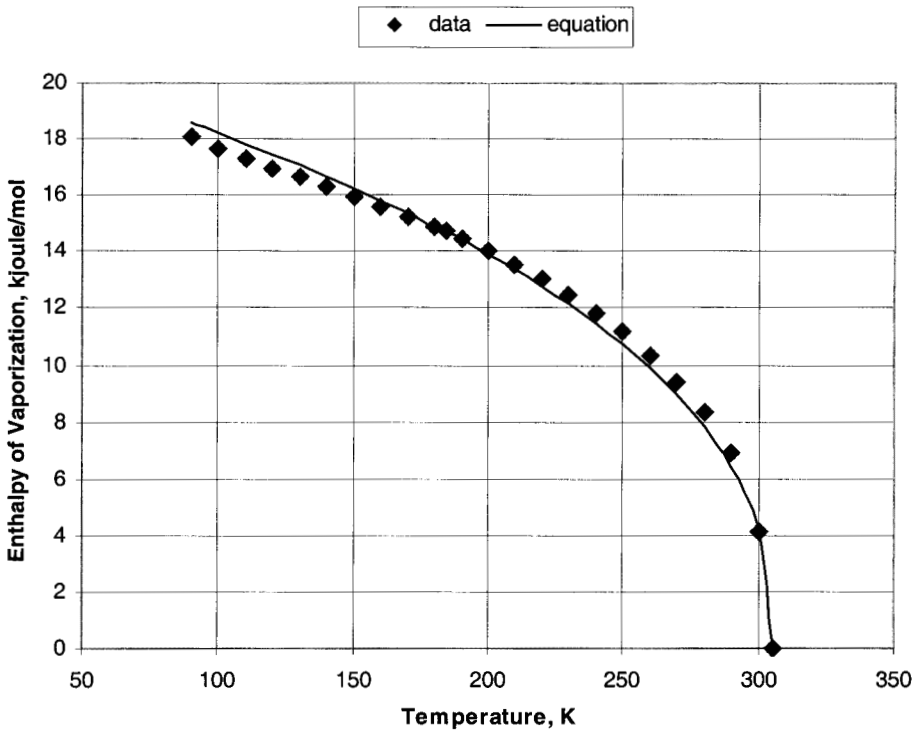


Figure 7 Enthalpy of Vaporization for Ethane

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
13	CBrClF2	bromochlorodifluoromethane	353-59-3	32.4033	426.15	0.3710	113.65	426.15	1,2	269.14	22.372
16	CBrCl3	bromotrichloromethane	75-62-7	45.8565	606.00	0.3630	252.15	606.00	1,2	378.05	32.156
17	CBrF3	bromotrifluoromethane	75-63-8	25.0700	340.15	0.3570	105.15	340.15	1,2	215.26	17.531
23	CBr2F2	dibromodifluoromethane	75-61-6	39.1752	478.00	0.3990	163.05	478.00	1,2	295.94	26.653
29	CBr4	carbon tetrabromide	558-13-4	67.3425	724.91	0.3800	364.15	724.91	1,2	462.65	45.761
34	CClF3	chlorotrifluoromethane	75-72-9	22.8795	301.96	0.3800	92.15	301.96	1,2	191.74	15.600
39	CClN	cyanogen chloride	506-77-4	38.0962	449.00	0.3450	266.65	449.00	1,2	286.00	26.857
42	CCl2F2	dichlorodifluoromethane	75-71-8	30.9300	384.95	0.4060	115.15	384.95	1,2	243.36	20.607
44	CCl2O	phosgene	75-44-5	35.6102	455.00	0.3780	145.37	455.00	1,2	280.71	24.777
47	CCl3F	trichlorofluoromethane	75-69-4	37.1185	471.20	0.3910	162.04	471.20	1,2	296.97	25.156
50	CCl4	carbon tetrachloride	56-23-5	43.4824	556.35	0.3800	250.33	556.35	1,2	349.79	29.840
68	CF2O	carbonyl fluoride	353-50-4	29.0483	297.00	0.4660	161.89	297.00	1,2	190.15	18.040
74	CF4	carbon tetrafluoride	75-73-0	16.6594	227.50	0.3490	89.56	227.50	1,2	145.09	11.688
96	CHBr3	bromoform	75-25-2	55.6196	696.00	0.4210	281.20	696.00	1,2	422.35	37.545
97	CHClF2	chlorodifluoromethane	75-45-6	29.6120	369.30	0.3860	115.73	369.30	1,2	232.32	20.193
101	CHCl2F	dichlorofluoromethane	75-43-4	35.7541	451.58	0.3800	138.15	451.58	1,2	282.05	24.640
104	CHCl3	chloroform	67-66-3	42.9532	536.40	0.3750	209.63	536.40	1,2	334.33	29.785
113	CHF3	fluoroform	75-46-7	23.8580	298.89	0.3550	117.97	298.89	1,2	190.99	16.617
117	CHI3	iodoform	75-47-8	61.0705	794.55	0.3800	396.16	794.55	1,2	491.16	42.359
122	CHN	hydrogen cyanide	74-90-8	42.3838	456.65	0.4280	259.83	456.65	1,2	298.85	26.896
140	CH2BrCl	bromochloromethane	74-97-5	44.3628	557.00	0.3740	185.20	557.00	1,2	341.20	31.117
144	CH2Br2	dibromomethane	74-95-3	48.1955	611.00	0.3770	220.60	611.00	1,2	370.10	33.933
145	CH2ClF	chlorofluoromethane	593-70-4	32.8988	424.91	0.3800	140.16	424.91	1,2	264.06	22.744
149	CH2Cl2	dichloromethane	75-09-2	41.9099	510.00	0.4100	178.01	510.00	1,2	312.90	28.381
158	CH2F2	difluoromethane	75-10-5	28.3641	351.60	0.3410	137.00	351.60	1,2	221.50	20.209
161	CH2I2	diiodomethane	75-11-6	61.9575	747.00	0.4460	279.25	747.00	1,2	455.15	40.743
175	CH2O	formaldehyde	50-00-0	33.5417	408.00	0.3800	181.15	408.00	1,2	254.05	23.160
176	CH2O2	formic acid	64-18-6	32.5706	580.00	0.3800	281.45	373.71	1,2	373.71	21.990
191	CH3Br	methyl bromide	74-83-9	32.0086	467.00	0.3080	179.47	467.00	1,2	276.71	24.276
196	CH3Cl	methyl chloride	74-87-3	32.5337	416.25	0.4520	175.43	416.25	1,2	248.93	21.549
210	CH3Cl3Si	methyl trichlorosilane	75-79-6	42.1875	517.00	0.3800	195.35	517.00	1,2	339.55	28.100
214	CH3F	methyl fluoride	593-53-3	25.0875	317.70	0.3690	131.35	317.70	1,2	194.82	17.670
222	CH3I	methyl iodide	74-88-4	35.9669	528.00	0.3020	206.70	528.00	1,2	315.58	27.320
232	CH3NO	formamide	75-12-7	71.0953	771.00	0.3800	450.00	771.00	1,2	493.00	48.250
235	CH3NO2	nitromethane	75-52-5	51.4715	588.15	0.3800	244.60	588.15	1,2	374.35	35.040
251	CH4	methane	74-82-8	11.4074	190.58	0.3800	90.67	190.58	1,2	111.66	8.160
254	CH4Cl2Si	methyl dichlorosilane	75-54-7	36.7692	483.00	0.3130	182.55	483.00	1,2	314.70	26.435
272	CH4O	methyl alcohol	67-56-1	52.7227	512.58	0.3770	175.47	512.58	1,2	337.85	35.139
278	CH4S	methyl mercaptan	74-93-1	34.5793	469.95	0.3790	150.18	469.95	1,2	279.11	24.574
284	CH5ClSi	methyl chlorosilane	993-00-0	32.8297	442.00	0.3310	139.05	442.00	1,2	281.85	23.460
286	CH5N	methylamine	74-89-5	38.6555	430.05	0.4050	179.69	430.05	1,2	266.82	26.111
322	CH6Si	methyl silane	992-94-9	23.2223	352.50	0.3220	116.34	352.50	1,2	216.25	17.099
337	CI4	carbon tetraiodide	507-25-5	74.1169	961.09	0.3800	335.19	961.09	2	591.61	51.541
363	CN4O8	tetranitromethane	509-14-8	60.6907	540.00	0.4000	287.05	540.00	1,2	398.85	35.484
372	CO	carbon monoxide	630-08-0	8.0030	132.92	0.3180	68.15	132.92	1,2	81.70	5.910
373	COS	carbonyl sulfide	463-58-1	25.6954	378.80	0.3630	134.30	378.80	1,2	223.00	18.612
375	CO2	carbon dioxide	124-38-9	22.5763	304.19	0.3800	216.58	304.19	1,2	217.00	14.042
382	CS2	carbon disulfide	75-15-0	36.9608	552.00	0.3800	161.11	552.00	1,2	319.37	26.616
404	C2BrF3	bromotrifluoroethylene	598-73-2	32.3700	432.00	0.3690	170.65	432.00	1,2	270.65	22.507
413	C2Br2F4	1,2-dibromotetrafluoroethane	124-73-2	39.5182	487.80	0.3640	162.65	487.80	1,2	320.41	26.774
423	C2ClF3	chlorotrifluoroethylene	79-38-9	31.8000	379.15	0.3820	115.00	379.15	1,2	245.30	21.364
427	C2ClF5	chloropentafluoroethane	76-15-3	28.9932	353.15	0.3730	173.71	353.15	1,2	234.04	19.330
441	C2Cl2F4	1,2-dichloro-1,1,2,2-tetrafluoroethane	76-14-2	34.5080	418.85	0.3690	179.15	418.85	1,2	276.92	23.147
442	C2Cl2F4	1,1-dichloro-1,2,2,2-tetrafluoroethane	374-07-2	34.3958	418.70	0.3800	216.58	418.70	1,2	276.17	22.838
449	C2Cl3F3	1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	41.0600	487.25	0.3830	236.75	487.25	1,2	320.75	27.215
450	C2Cl3F3	1,1,1-trichloro-2,2,2-trifluoroethane	354-58-5	40.7536	487.70	0.3800	287.14	487.70	1,2	319.03	27.224
455	C2Cl4	tetrachloroethylene	127-18-4	50.8400	620.00	0.3880	250.80	620.00	1,2	394.40	34.344
456	C2Cl4F2	1,1,2,2-tetrachloro-1,2-difluoroethane	76-12-0	48.8753	551.00	0.3930	299.15	551.00	1,2	366.00	31.828
457	C2Cl4F2	1,1,1,2-tetrachloro-2,2-difluoroethane	76-11-9	46.4936	560.50	0.3800	300.62	560.50	1,2	364.65	31.179
459	C2Cl4O	trichloroacetyl chloride	76-02-8	54.3479	590.00	0.3800	291.15	590.00	1,2	391.15	35.950
462	C2Cl5F	pentachlorofluoroethane	354-56-3	53.0895	630.10	0.3800	373.15	630.10	1,2	411.05	35.534
463	C2Cl6	hexachloroethane	67-72-1	73.7500	698.00	0.3800	460.00	698.00	1,2	460.00	49.000
488	C2F4	tetrafluoroethylene	116-14-3	25.1290	306.45	0.3860	142.00	306.45	1,2	197.51	16.858
494	C2F6	hexafluoroethane	76-16-4	24.9332	292.80	0.3980	173.10	292.80	1,2	194.95	16.119
511	C2HBrClF3	halothane	151-67-7	42.5032	521.00	0.4570	223.15	521.00	1,2	323.35	28.593
525	C2HClF2	2-chloro-1,1-difluoroethylene	359-10-4	32.4254	400.55	0.3830	134.65	400.55	1,2	254.55	22.030
528	C2HClF4	1-chloro-1,1,2,2-tetrafluoroethane	354-25-6	32.9071	400.00	0.3800	257.74	400.00	1,2	261.41	21.997
529	C2HClF4	2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0	33.3032	395.85	0.3800	257.74	395.85	1,2	261.19	22.107
534	C2HCl2F3	1,1-dichloro-1,2,2-trifluoroethane	812-04-4	36.2596	481.32	0.3800	255.51	481.32	2	303.00	24.863
535	C2HCl2F3	1,2-dichloro-1,1,2-trifluoroethane	354-23-4	38.8042	458.30	0.3800	255.51	458.30	1,2	302.70	25.740
536	C2HCl2F3	2,2-dichloro-1,1,1-trifluoroethane	306-83-2	38.5901	456.80	0.3800	255.51	456.80	1,2	301.05	25.639
539	C2HCl3	trichloroethylene	79-01-6	46.9146	571.00	0.3960	188.40	571.00	1,2	360.10	31.624
540	C2HCl3F2	1,1,1-trichloro-2,2-difluoroethane	354-12-1	44.5173	530.70	0.3800	253.28	530.70	1,2	346.15	29.800
541	C2HCl3F2	1,1,2-trichloro-1,2-difluoroethane	354-15-4	44.4392	530.00	0.3800	253.28	530.00	1,2	345.65	29.750
542	C2HCl3F2	1,2,2-trichloro-1,1-difluoroethane	354-21-2	44.3711	529.00	0.3800	253.28	529.00	1,2	345.05	29.701
543	C2HCl3O	dichloroacetyl chloride	79-36-7	54.5450	579.00	0.3800	282.15	579.00	1,2	382.15	36.200
544	C2HCl3O	trichloroacetaldehyde	75-87-6	51.3281	565.00	0.3820	216.00	565.00	1,2	370.85	34.130
549	C2HCl4F	1,1,1,2-tetrachloro-2-fluoroethane	354-11-0	50.4902	598.60	0.3800	177.80	598.60	1,2	390.15	33.816
550	C2HCl4F	1,1,2,2-tetrachloro-1-fluoroethane	354-14-3	50.4338	598.00	0.3800	190.55	598.00	1,2	389.75	33.778
551	C2HCl5	pentachloroethane	76-01-7	60.7874	665.00	0.4690	244.15	665.00	1,2	433.03	37.093

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
554	C2HF3	trifluoroethene	359-11-5	28.1191	347.22	0.3800	94.53	347.22	1,2	221.01	19.142
556	C2HF3O2	trifluoroacetic acid	76-05-1	50.0771	491.25	0.3800	257.90	491.25	1,2	344.95	31.604
558	C2HF5	pentafluoroethane	354-33-6	28.8584	342.00	0.3820	170.15	342.00	1,2	225.15	19.147
571	C2H2	acetylene	74-86-2	16.7400	308.32	0.3800	192.40	200.00	1,2	193.00	11.520
592	C2H2Br4	1,1,2,2-tetrabromoethane	79-27-6	80.6995	824.00	0.4960	273.15	824.00	1,2	516.65	52.394
593	C2H2Br4	1,1,1,2-tetrabromoethane	630-16-0	77.9675	800.13	0.3800	353.42	800.13	1,2	523.15	52.101
604	C2H2ClF3	1-chloro-1,1,2-trifluoroethane	421-04-5	34.8133	428.95	0.3800	240.59	428.95	1,2	285.15	22.982
605	C2H2ClF3	1-chloro-1,2,2-trifluoroethane	431-07-2	35.7045	428.68	0.3800	208.17	428.68	1,2	290.15	23.243
606	C2H2ClF3	2-chloro-1,1,1-trifluoroethane	75-88-7	35.0871	432.17	0.3800	240.59	432.17	1,2	279.25	23.643
615	C2H2Cl2	1,1-dichloroethylene	75-35-4	40.6600	482.00	0.4240	150.59	482.00	1,2	304.71	26.607
616	C2H2Cl2	cis-1,2-dichloroethylene	156-59-2	42.2127	527.00	0.3490	193.15	527.00	1,2	333.65	29.749
617	C2H2Cl2	trans-1,2-dichloroethylene	156-60-5	38.9244	508.00	0.3220	223.35	508.00	1,2	320.85	28.221
618	C2H2Cl2	dichloroethylene	25323-30-2	49.3298	505.67	0.3800	192.75	505.67	1,2	333.15	32.782
619	C2H2Cl2	1,2-dichloroethylene, cis and trans	540-59-0	46.3738	505.67	0.3800	216.15	505.67	1,2	328.15	31.154
620	C2H2Cl2F2	1,1-dichloro-1,2-difluoroethane	1842-05-3	39.8775	488.39	0.3800	238.36	488.39	2	315.33	26.885
621	C2H2Cl2F2	1,1-dichloro-2,2-difluoroethane	471-43-2	42.2454	515.98	0.3800	205.94	515.98	1,2	333.15	28.481
622	C2H2Cl2F2	1,2-dichloro-1,1-difluoroethane	1649-08-7	41.2292	495.15	0.3800	171.35	495.15	1,2	319.78	27.791
623	C2H2Cl2F2	1,2-dichloro-1,2-difluoroethane	431-06-1	40.8523	487.57	0.3800	205.94	487.57	1,2	319.95	27.227
625	C2H2Cl2O	chloroacetyl chloride	79-04-9	54.1283	581.00	0.3800	251.15	581.00	1,2	379.15	36.220
626	C2H2Cl2O	dichloroacetaldehyde	79-02-7	51.0640	555.00	0.3810	223.00	555.00	1,2	362.00	34.146
627	C2H2Cl2O2	dichloroacetic acid	79-43-6	77.3848	686.00	0.3910	286.54	686.00	1,2	467.15	49.505
630	C2H2Cl3F	1,1,1-trichloro-2-fluoroethane	2366-36-1	46.1948	565.00	0.3660	173.00	565.00	1,2	366.00	31.530
631	C2H2Cl3F	1,1,2-trichloro-1-fluoroethane	811-95-0	45.9966	559.78	0.3800	168.45	559.78	1,2	361.15	31.027
632	C2H2Cl3F	1,1,2-trichloro-2-fluoroethane	359-28-4	46.5976	552.93	0.3800	203.71	552.93	1,2	375.15	30.276
635	C2H2Cl4	1,1,1,2-tetrachloroethane	630-20-6	54.3713	624.00	0.4120	202.94	624.00	1,2	403.65	35.409
636	C2H2Cl4	1,1,2,2-tetrachloroethane	79-34-5	62.4500	645.00	0.4630	229.35	645.00	1,2	418.25	38.488
642	C2H2F2	1,1-difluoroethylene	75-38-7	21.7134	302.80	0.3660	129.15	302.80	1,2	190.15	15.120
643	C2H2F2	cis-1,2-difluoroethene	1630-77-9	30.9676	394.67	0.3800	107.90	394.67	1,2	245.15	21.415
644	C2H2F2	trans-1,2-difluoroethene	1630-78-0	30.9676	394.67	0.3800	107.90	394.67	2	245.15	21.415
650	C2H2F4	1,1,1,2-tetrafluoroethane	811-97-2	30.8419	380.00	0.3670	172.15	380.00	1,2	247.15	20.972
651	C2H2F4	1,1,2,2-tetrafluoroethane	359-35-3	32.9984	381.00	0.3800	207.66	381.00	1,2	253.10	21.795
660	C2H2I4	1,1,1,2-tetraiodoethane	---	78.7176	972.04	0.3800	346.46	972.04	2	614.49	53.830
661	C2H2I4	1,1,2,2-tetraiodoethane	---	80.7841	963.61	0.3800	311.30	963.61	2	619.12	54.648
681	C2H2O	ketene	463-51-4	27.5611	370.00	0.3800	200.00	370.00	1,2	223.34	19.390
684	C2H2O4	oxalic acid	144-62-7	114.6764	804.00	0.3720	462.65	804.00	1,2	569.00	72.570
688	C2H3Br	vinyl bromide	593-60-2	33.4000	473.00	0.3190	135.35	473.00	1,2	288.95	24.716
697	C2H3Br3	1,1,1-tribromoethane	2311-14-0	61.8941	698.32	0.3800	293.62	698.32	1,2	446.15	42.029
698	C2H3Br3	1,1,2-tribromoethane	78-74-0	66.3353	709.90	0.3800	243.85	709.90	1,2	462.08	44.469
701	C2H3Cl	vinyl chloride	75-01-4	35.5864	432.00	0.4830	119.36	432.00	1,2	259.78	22.823
702	C2H3ClF2	1-chloro-1,1-difluoroethane	75-68-3	33.5037	410.20	0.3900	142.35	410.20	1,2	263.14	22.457
703	C2H3ClF2	1-chloro-1,2-difluoroethane	338-64-7	35.4521	435.18	0.3800	191.02	435.18	2	280.69	23.918
704	C2H3ClF2	2-chloro-1,1-difluoroethane	338-65-8	39.1102	477.91	0.3800	191.02	477.91	1,2	308.25	26.386
707	C2H3ClO	acetyl chloride	75-36-5	43.4000	508.00	0.3620	160.30	508.00	1,2	323.90	30.055
708	C2H3ClO	chloroacetaldehyde	107-20-0	49.8763	555.00	0.3670	258.00	555.00	1,2	358.00	34.104
710	C2H3ClO2	chloroacetic acid	79-11-8	69.1455	686.00	0.3800	333.15	686.00	1,2	462.50	45.153
711	C2H3ClO2	methyl chloroformate	79-22-1	50.7508	525.00	0.3850	244.00	525.00	1,2	344.00	33.681
714	C2H3Cl2F	1,1-dichloro-1-fluoroethane	1717-00-6	37.9423	477.35	0.3800	206.21	477.35	1,2	304.90	25.769
715	C2H3Cl2F	1,1-dichloro-2-fluoroethane	430-53-5	38.6991	473.24	0.3800	188.79	473.24	2	305.00	26.123
716	C2H3Cl2F	1,2-dichloro-1-fluoroethane	430-57-9	44.2973	538.33	0.3800	188.79	538.33	1,2	346.95	29.902
720	C2H3Cl3	1,1,1-trichloroethane	71-55-6	44.0834	545.00	0.3850	242.75	545.00	1,2	347.23	29.839
721	C2H3Cl3	1,1,2-trichloroethane	79-00-5	51.1973	602.00	0.3800	236.50	602.00	1,2	387.00	34.620
728	C2H3F	vinyl fluoride	75-02-5	25.9600	327.80	0.3670	112.65	327.80	1,2	200.95	18.322
735	C2H3F3	1,1,1-trifluoroethane	420-46-2	28.1849	346.25	0.3510	161.82	346.25	1,2	225.75	19.459
736	C2H3F3	1,1,2-trifluoroethane	430-66-0	34.6255	430.91	0.3800	189.15	430.91	1,2	276.85	23.424
743	C2H3I	vinyl iodide	593-66-8	39.7457	536.99	0.3800	168.10	536.99	1,2	329.15	27.710
746	C2H3I3	1,1,1-triiodoethane	594-21-8	64.8590	838.10	0.3800	366.15	838.10	2	521.35	44.812
747	C2H3I3	1,1,2-triiodoethane	---	67.2621	825.88	0.3800	270.98	825.88	2	524.14	45.878
753	C2H3N	acetonitrile	75-05-8	43.0819	545.50	0.3350	229.32	545.50	1,2	354.75	30.299
754	C2H3N	methyl isocyanide	593-75-9	42.8501	517.86	0.3800	228.15	517.86	1,2	332.16	29.020
755	C2H3NO	methyl isocyanate	624-83-9	37.9630	505.00	0.3630	256.15	505.00	1,2	312.00	26.775
787	C2H4	ethylene	74-85-1	19.9863	282.36	0.4310	103.97	282.36	1,2	169.47	13.463
798	C2H4Br2	1,1-dibromoethane	557-91-5	57.1467	628.00	0.5260	210.15	628.00	1,2	381.15	34.969
799	C2H4Br2	1,2-dibromoethane	106-93-4	51.8076	650.15	0.3800	282.85	650.15	1,2	404.51	35.790
801	C2H4ClF	1-chloro-1-fluoroethane	1615-75-4	35.6333	458.07	0.3800	158.87	458.07	1,2	289.30	24.382
802	C2H4ClF	1-chloro-2-fluoroethane	762-50-5	41.0813	511.00	0.3800	197.15	511.00	1,2	326.15	27.915
812	C2H4Cl2	1,1-dichloroethane	75-34-3	42.1800	523.00	0.3670	176.19	523.00	1,2	330.45	29.231
813	C2H4Cl2	1,2-dichloroethane	107-06-2	45.4262	561.00	0.3420	237.49	561.00	1,2	356.59	32.163
814	C2H4Cl2	dichloroethane	1300-21-6	45.4134	542.00	0.3800	243.52	542.00	2	343.52	31.002
816	C2H4Cl2O	bis(chloromethyl) ether	542-88-1	52.0606	579.00	0.3790	231.65	579.00	1,2	378.00	34.863
834	C2H4F2	1,1-difluoroethane	75-37-6	31.4196	386.60	0.3610	156.15	386.60	1,2	247.35	21.732
835	C2H4F2	1,2-difluoroethane	624-72-6	37.7385	476.00	0.3600	215.00	476.00	1,2	303.65	26.179
844	C2H4I2	1,1-diiodoethane	594-02-5	56.3842	723.89	0.3800	212.92	723.89	1,2	452.15	38.856
845	C2H4I2	1,2-diiodoethane	624-73-7	59.7093	749.91	0.3800	356.16	749.91	1,2	473.16	40.882
884	C2H4O	acetaldehyde	75-07-0	46.1497	461.00	0.6200	150.15	461.00	1,2	293.55	23.991
885	C2H4O	ethylene oxide	75-21-8	36.4736	469.15	0.3770	160.71	469.15	1,2	283.85	25.697
888	C2H4OS	thioacetic-acid	507-09-5	49.9710	577.34	0.3800	150.16	577.34	1,2	360.16	34.464
889	C2H4O2	acetic acid	64-19-7	35.1430	592.71	0.3800	289.81	391.05	1,2	391.05	23.330
890	C2H4O2	methyl formate	107-31-3	43.9970	487.20	0.4530	174.15	487.20	1,2	304.90	28.186
901	C2H4S	ethylene sulfide	420-12-2	41.0237	555.00	0.3800	165.37	555.00	1,2	328.07	29.204
910	C2H5Br	bromoethane	74-96-4	37.5700	503.80	0.3230	154.55	503.80	1,2	311.50	27.526

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
914	C2H5Cl	ethyl chloride	75-00-3	35.2332	460.35	0.3650	134.80	460.35	1,2	285.42	24.750
917	C2H5ClO	2-chloroethanol	107-07-3	64.7563	585.00	0.3800	205.65	585.00	1,2	401.75	41.660
939	C2H5F	ethyl fluoride	353-36-6	27.1546	375.31	0.3120	129.95	375.31	1,2	235.45	19.957
948	C2H5I	ethyl iodide	75-03-6	41.0182	561.00	0.3260	162.05	561.00	1,2	345.45	30.030
954	C2H5N	ethyleneimine	151-56-4	49.4000	537.00	0.4660	195.20	537.00	1,2	329.00	31.752
956	C2H5NO	acetamide	60-35-5	82.8305	761.00	0.3800	354.15	761.00	1,2	494.30	55.610
957	C2H5NO	N-methylformamide	123-39-7	66.2761	721.00	0.3180	269.35	721.00	1,2	472.66	47.224
958	C2H5NO2	nitroethane	79-24-3	50.8200	593.00	0.3230	183.63	593.00	1,2	387.22	36.105
985	C2H6	ethane	74-84-0	21.3420	305.42	0.4030	90.35	305.42	1,2	184.55	14.689
986	C2H6AlCl	dimethylaluminum chloride	1184-58-3	53.6919	619.00	0.4360	252.15	619.00	1,2	399.15	34.190
1065	C2H6O	ethyl alcohol	64-17-5	60.8036	516.25	0.3800	300.00	516.25	1,2	351.44	39.400
1066	C2H6O	dimethyl ether	115-10-6	31.1602	400.10	0.3800	131.65	400.10	1,2	248.31	21.560
1067	C2H6OS	dimethyl sulfoxide	67-68-5	64.4000	726.00	0.4060	291.67	726.00	1,2	462.15	42.699
1072	C2H6O2	ethylene glycol	107-21-1	88.2000	645.00	0.3970	260.15	645.00	1,2	470.45	52.495
1083	C2H6O4S	dimethyl sulfate	77-78-1	66.2900	758.00	0.4080	292.00	758.00	1,2	461.95	47.951
1084	C2H6O4S	ethyl sulfate	540-82-9	54.8538	758.00	0.3800	361.95	758.00	2	461.95	38.375
1092	C2H6S	ethyl mercaptan	75-08-1	38.4485	499.15	0.3730	125.26	499.15	1,2	308.15	26.870
1093	C2H6S	dimethyl sulfide	75-18-3	38.3496	503.04	0.3690	174.88	503.04	1,2	310.48	26.908
1094	C2H6S2	dimethyl disulfide	624-92-0	49.2102	606.00	0.3600	188.44	606.00	1,2	382.90	34.342
1115	C2H7N	ethylamine	75-04-7	42.9225	456.15	0.4470	192.15	456.15	1,2	289.73	27.349
1116	C2H7N	dimethylamine	124-40-3	41.0700	437.65	0.4240	180.96	437.65	1,2	280.03	26.636
1117	C2H7NO	monoethanolamine	141-43-5	74.0241	638.00	0.3040	283.65	638.00	1,2	444.15	51.534
1118	C2H7NO	1-aminoethanol	75-39-8	87.3078	638.00	0.3800	370.15	638.00	2	444.15	55.521
1159	C2H8N2	ethylenediamine	107-15-3	57.5200	593.00	0.3380	284.29	593.00	1,2	390.41	40.010
1168	C2H8Si	dimethyl silane	1111-74-6	29.5741	402.00	0.3890	122.93	402.00	1,2	253.55	20.073
1210	C2N2	cyanogen	460-19-5	33.8501	400.15	0.3710	245.25	400.15	1,2	252.00	23.413
1284	C3F6	hexafluoropropylene	116-15-4	29.3228	368.00	0.3810	116.65	368.00	1,2	243.55	19.400
1287	C3F6O	hexafluoroacetone	684-16-2	33.7912	357.14	0.3780	147.70	357.14	1,2	245.88	21.744
1299	C3F8	octafluoropropane	76-19-7	30.6695	345.05	0.3830	125.46	345.05	1,2	236.40	19.701
1368	C3H2F6	1,1,1,2,2,3-hexafluoropropane	677-56-5	37.0885	401.21	0.3800	190.00	401.21	1,2	274.35	23.946
1369	C3H2F6	1,1,1,2,3,3-hexafluoropropane	431-63-0	36.1162	407.33	0.3800	190.00	407.33	1,2	279.25	23.268
1370	C3H2F6	1,1,1,3,3,3-hexafluoropropane	690-39-1	35.1776	406.85	0.3800	179.53	406.85	1,2	272.45	23.093
1371	C3H2F6	1,1,2,2,3,3-hexafluoropropane	680-00-2	37.3324	417.09	0.3800	190.00	417.09	1,2	283.15	24.245
1377	C3H2N2	malononitrile	109-77-3	71.7775	715.00	0.3800	304.99	715.00	1,2	491.50	46.140
1402	C3H3Cl	propargyl chloride	624-65-7	39.8875	541.00	0.3710	231.00	541.00	1,2	331.00	28.078
1449	C3H3F5	1,1,1,2,2-pentafluoropropane	1814-88-6	31.6923	385.19	0.3800	190.00	385.19	1,2	253.15	21.099
1450	C3H3F5	1,1,1,2,3-pentafluoropropane	431-31-2	35.0115	403.84	0.3800	190.00	403.84	2	270.00	23.012
1451	C3H3F5	1,1,1,3,3-pentafluoropropane	460-73-1	35.0115	403.84	0.3800	190.00	403.84	2	270.00	23.012
1452	C3H3F5	1,1,2,2,3-pentafluoropropane	679-86-7	38.9854	447.44	0.3800	190.00	447.44	1,2	299.15	25.624
1453	C3H3F5	1,1,2,3,3-pentafluoropropane	24270-66-4	39.9023	441.38	0.3800	190.00	441.38	2	300.00	25.889
1462	C3H3N	acrylonitrile	107-13-1	46.5476	535.00	0.3800	189.63	535.00	1,2	350.50	31.060
1463	C3H3NO	oxazole	288-42-6	45.1494	554.00	0.3880	242.65	554.00	1,2	342.65	31.065
1492	C3H4	methylacetylene	74-99-7	32.8000	402.39	0.4000	170.45	402.39	1,2	249.94	22.247
1493	C3H4	allene	463-49-0	29.4300	393.15	0.3820	136.87	393.15	1,2	238.65	20.599
1514	C3H4Br4	1,1,1,2-tetrabromopropane	62127-49-5	78.2456	788.99	0.3800	349.69	788.99	1,2	523.15	51.752
1515	C3H4Br4	1,1,1,3-tetrabromopropane	62127-50-8	81.1001	797.25	0.3800	364.69	797.25	1,2	533.15	53.295
1516	C3H4Br4	1,1,2,2-tetrabromopropane	34570-59-7	75.9092	766.37	0.3800	349.69	766.37	1,2	508.15	50.207
1517	C3H4Br4	1,1,2,3-tetrabromopropane	34581-76-5	83.3288	798.18	0.3800	332.27	798.18	1,2	538.15	54.413
1518	C3H4Br4	1,1,3,3-tetrabromopropane	51525-97-4	84.9415	813.01	0.3800	332.27	813.01	1,2	548.15	55.466
1519	C3H4Br4	1,2,2,3-tetrabromopropane	54268-02-9	79.5163	782.30	0.3800	283.85	782.30	1,2	523.15	52.254
1533	C3H4Cl2	2,3-dichloropropene	78-88-6	44.6179	577.00	0.3620	191.50	577.00	1,2	365.75	31.013
1534	C3H4Cl2	1,1-dichloropropene	563-58-6	38.6496	577.00	0.3800	249.65	577.00	1,2	349.65	27.130
1535	C3H4Cl2	cis-1,2-dichloropropene	6923-20-2	45.6805	577.00	0.3800	266.15	577.00	1,2	366.15	31.160
1536	C3H4Cl2	trans-1,2-dichloropropene	7069-38-7	38.8412	577.00	0.3800	250.15	577.00	1,2	350.15	27.241
1537	C3H4Cl2	cis-1,3-dichloropropene	10061-01-5	51.5004	577.00	0.3800	277.45	577.00	1,2	377.45	34.402
1538	C3H4Cl2	trans-1,3-dichloropropene	10061-02-6	56.0546	577.00	0.3800	285.15	577.00	1,2	385.15	36.888
1539	C3H4Cl2	3,3-dichloropropene	563-57-5	41.8249	577.00	0.3800	257.55	577.00	1,2	357.55	28.966
1540	C3H4Cl2	1,3-dichloropropene; (cis+trans)	542-75-6	53.3292	577.00	0.3800	280.65	577.00	1,2	380.65	35.405
1541	C3H4Cl2	1,2-dichloropropene	563-54-2	38.0822	577.00	0.3800	248.15	577.00	1,2	348.15	26.798
1542	C3H4Cl2	dichloropropylene	26952-23-8	44.9132	577.00	0.3800	264.52	577.00	2	364.52	30.726
1565	C3H4Cl4	1,1,1,2-tetrachloropropane	812-03-3	54.6831	646.86	0.3800	208.15	646.86	1,2	423.15	36.528
1566	C3H4Cl4	1,1,1,3-tetrachloropropane	1070-78-6	56.7649	654.78	0.3800	245.17	654.78	1,2	432.15	37.674
1567	C3H4Cl4	1,1,2,2-tetrachloropropane	13116-60-4	55.3606	654.51	0.3800	230.17	654.51	1,2	428.15	36.981
1568	C3H4Cl4	1,1,2,3-tetrachloropropane	18495-30-2	60.3604	677.77	0.3800	212.75	677.77	1,2	451.15	39.806
1569	C3H4Cl4	1,1,3,3-tetrachloropropane	1653-17-4	58.7992	661.02	0.3800	212.75	661.02	2	440.00	38.777
1570	C3H4Cl4	1,2,2,3-tetrachloropropane	13116-53-5	57.4532	662.36	0.3800	245.17	662.36	1,2	437.15	38.131
1578	C3H4F4	1,1,1,2-tetrafluoropropane	421-48-7	34.3556	414.81	0.3800	239.09	414.81	1,2	272.15	22.901
1579	C3H4F4	1,1,1,3-tetrafluoropropane	460-36-6	38.9904	457.10	0.3800	254.09	457.10	1,2	302.55	25.823
1580	C3H4F4	1,1,2,2-tetrafluoropropane	40723-63-5	38.0537	457.26	0.3800	239.09	457.26	2	300.00	25.366
1581	C3H4F4	1,1,2,3-tetrafluoropropane	---	39.2890	449.44	0.3800	221.67	449.44	2	300.00	25.855
1582	C3H4F4	1,1,3,3-tetrafluoropropane	---	39.2890	449.44	0.3800	221.67	449.44	2	300.00	25.855
1583	C3H4F4	1,2,2,3-tetrafluoropropane	813-75-2	38.6458	453.25	0.3800	254.09	453.25	2	300.00	25.595
1585	C3H4I4	1,1,1,2-tetraiodopropane	66794-31-8	82.2382	992.10	0.3800	342.73	992.10	2	636.93	55.661
1586	C3H4I4	1,1,1,3-tetraiodopropane	66794-32-9	83.5415	983.52	0.3800	357.73	983.52	2	637.37	56.178
1587	C3H4I4	1,1,2,2-tetraiodopropane	66794-33-0	82.2382	992.10	0.3800	342.73	992.10	2	636.93	55.661
1588	C3H4I4	1,1,2,3-tetraiodopropane	66794-21-6	85.2206	978.29	0.3800	325.31	978.29	2	639.72	56.942
1589	C3H4I4	1,1,3,3-tetraiodopropane	66794-34-1	85.2206	978.29	0.3800	325.31	978.29	2	639.72	56.942
1590	C3H4I4	1,2,2,3-tetraiodopropane	66794-20-5	83.5415	983.52	0.3800	357.73	983.52	2	637.37	56.178
1621	C3H4O	acrolein	107-02-8	42.9808	506.00	0.3800	185.45	506.00	1,2	325.84	29.030
1622	C3H4O	propargyl alcohol	107-19-7	66.4981	580.00	0.4110	221.35	580.00	1,2	386.75	42.329

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n						(HVAP - kjoule/mol, T - K)		
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
1626	C3H4O2	acrylic acid	79-10-7	62.9770	615.00	0.3510	286.65	615.00	1,2	414.15	42.520
1627	C3H4O2	beta-propiolactone	57-57-8	62.6000	686.00	0.3720	239.75	686.00	1,2	435.15	43.057
1628	C3H4O2	vinyl formate	692-45-5	49.5684	498.00	0.4500	220.00	498.00	1,2	320.00	31.199
1633	C3H4O3	ethylene carbonate	96-49-1	73.4000	790.00	0.3370	309.55	790.00	1,2	511.15	51.676
1634	C3H4O3	pyruvic acid	127-17-3	71.4261	634.52	0.3800	286.75	634.52	1,2	438.15	45.740
1642	C3H5Br	cis-1-bromo-1-propene	590-13-6	42.1602	523.23	0.3800	160.15	523.23	1,2	330.95	28.820
1643	C3H5Br	trans-1-bromo-1-propene	590-15-8	42.8812	531.77	0.3800	196.65	531.77	1,2	336.35	29.313
1644	C3H5Br	2-bromo-1-propene	557-93-7	40.5841	510.32	0.3800	167.15	510.32	1,2	321.55	27.812
1645	C3H5Br	3-bromo-1-propene	106-95-6	45.4150	540.20	0.3800	153.76	540.20	1,2	343.16	30.957
1647	C3H5Br	1-bromo-1-propene; (cis+trans)	590-14-7	44.0249	526.38	0.3800	157.25	526.38	1,2	333.65	30.053
1663	C3H5Br3	1,1,1-tribromopropane	62127-61-1	65.9523	710.72	0.3800	304.89	710.72	1,2	465.15	44.040
1664	C3H5Br3	1,1,2-tribromopropane	14602-62-1	68.4373	718.16	0.3800	272.47	718.16	1,2	474.15	45.409
1665	C3H5Br3	1,1,3-tribromopropane	23511-78-6	70.1511	718.00	0.3800	287.47	718.00	1,2	478.15	46.247
1666	C3H5Br3	1,2,2-tribromopropane	14476-30-3	65.8043	709.19	0.3800	304.89	709.19	1,2	464.15	43.942
1667	C3H5Br3	1,2,3-tribromopropane	96-11-7	72.7788	743.76	0.3800	289.34	743.76	1,2	495.31	47.979
1668	C3H5Cl	cis-1-chloro-1-propene	16136-84-8	37.5740	485.56	0.3800	138.35	485.56	1,2	305.95	25.749
1669	C3H5Cl	trans-1-chloro-1-propene	16136-85-9	38.1670	492.86	0.3800	174.15	492.86	1,2	310.55	26.155
1670	C3H5Cl	2-chloro-1-propene	557-98-2	34.2734	478.00	0.3550	135.75	478.00	1,2	295.80	24.336
1671	C3H5Cl	3-chloro-1-propene	107-05-1	36.7394	514.15	0.3490	138.65	514.15	1,2	318.11	26.242
1672	C3H5Cl	1-chloro-1-propene	590-21-6	35.1839	492.64	0.3800	135.85	492.64	1,2	302.50	24.504
1676	C3H5ClO	alpha-epichlorohydrin	106-89-8	54.7827	610.00	0.3800	320.00	610.00	1,2	389.26	37.230
1688	C3H5ClO2	methyl chloroacetate	96-34-4	60.9672	600.00	0.3910	241.03	600.00	1,2	402.97	39.446
1689	C3H5ClO2	ethyl chloroformate	541-41-3	71.1100	508.15	0.3990	192.00	508.15	1,2	366.00	42.775
1703	C3H5Cl3	1,1,1-trichloropropane	7789-89-1	48.1587	585.43	0.3800	215.25	585.43	1,2	379.15	32.399
1704	C3H5Cl3	1,1,2-trichloropropane	598-77-6	52.4702	619.96	0.3800	182.83	619.96	1,2	405.15	35.075
1705	C3H5Cl3	1,1,3-trichloropropane	20395-25-9	55.1508	635.01	0.3800	214.17	635.01	1,2	418.70	36.629
1706	C3H5Cl3	1,2,2-trichloropropane	3175-23-3	50.4253	611.68	0.3800	215.25	611.68	1,2	396.15	33.924
1707	C3H5Cl3	1,2,3-trichloropropane	96-18-4	57.6000	652.00	0.3780	258.45	652.00	1,2	430.00	38.332
1711	C3H5F	cis-1-fluoro-1-propene	19184-10-2	33.1248	430.49	0.3800	150.14	430.49	2	271.47	22.688
1712	C3H5F	trans-1-fluoro-1-propene	20327-65-5	33.1248	430.49	0.3800	150.14	430.49	2	271.47	22.688
1713	C3H5F	2-fluoro-1-propene	1184-60-7	30.0370	396.62	0.3800	139.50	396.62	1,2	249.15	20.624
1714	C3H5F	3-fluoro-1-propene	818-92-8	30.5353	394.72	0.3800	190.00	394.72	1,2	270.15	19.700
1721	C3H5F3	1,1,1-trifluoropropane	421-07-8	33.1762	392.00	0.3800	124.35	392.00	1,2	260.15	21.928
1722	C3H5F3	1,1,2-trifluoropropane	---	33.5658	404.56	0.3800	189.52	404.56	2	264.97	22.402
1723	C3H5F3	1,1,3-trifluoropropane	24270-67-5	34.1507	401.66	0.3800	204.52	401.66	2	265.41	22.646
1724	C3H5F3	1,2,2-trifluoropropane	811-94-9	32.7130	404.58	0.3800	221.94	404.58	2	262.62	21.973
1725	C3H5F3	1,2,3-trifluoropropane	66794-36-3	34.1507	401.66	0.3800	204.52	401.66	2	265.41	22.646
1734	C3H5I	cis-1-iodo-1-propene	7796-36-3	45.0353	582.79	0.3800	176.05	582.79	2	365.34	30.964
1735	C3H5I	trans-1-iodo-1-propene	7796-54-5	45.0353	582.79	0.3800	176.05	582.79	2	365.34	30.964
1736	C3H5I	2-iodo-1-propene	4375-96-6	45.6940	597.58	0.3800	165.41	597.58	1,2	373.15	31.495
1737	C3H5I	3-iodo-1-propene	556-56-9	39.1164	595.81	0.3800	138.70	595.81	1,2	375.16	26.818
1742	C3H5I3	1,1,1-triiodopropane	---	69.2798	852.51	0.3800	299.67	852.51	2	544.23	47.070
1743	C3H5I3	1,1,2-triiodopropane	---	70.7122	848.18	0.3800	267.25	848.18	2	546.58	47.737
1744	C3H5I3	1,1,3-triiodopropane	---	71.8508	841.02	0.3800	282.25	841.02	2	547.02	48.192
1745	C3H5I3	1,2,2-triiodopropane	---	69.2798	852.51	0.3800	299.67	852.51	2	544.23	47.070
1746	C3H5I3	1,2,3-triiodopropane	---	71.8508	841.02	0.3800	282.25	841.02	2	547.02	48.192
1752	C3H5N	propionitrile	107-12-0	46.2400	564.40	0.3200	180.26	564.40	1,2	370.50	32.850
1753	C3H5N	ethyl isocyanide	624-79-3	46.4703	535.33	0.3800	193.16	535.33	1,2	351.65	30.949
1755	C3H5NO	acrylamide	79-06-1	115.3826	710.00	0.3800	357.65	710.00	1,2	465.75	76.920
1756	C3H5NO	hydracrylonitrile	109-78-4	88.6908	690.00	0.3800	227.15	690.00	1,2	494.15	54.960
1757	C3H5NO	lactonitrile	78-97-7	87.1640	643.00	0.3910	233.00	643.00	1,2	457.00	53.667
1760	C3H5NO	ethyl isocyanate	109-90-0	42.0959	526.00	0.3800	233.15	526.00	1,2	333.15	28.751
1796	C3H5N3O9	nitroglycerine	55-63-0	114.9731	680.00	0.3830	286.15	680.00	1,2	523.00	65.581
1809	C3H6	cyclopropane	75-19-4	28.0600	397.91	0.3610	145.59	397.91	1,2	240.37	20.083
1810	C3H6	propylene	115-07-1	26.0984	364.76	0.3580	87.90	364.76	1,2	225.43	18.492
1824	C3H6Br2	1,1-dibromopropane	598-17-4	55.6092	624.11	0.3800	227.67	624.11	1,2	406.65	37.252
1825	C3H6Br2	1,2-dibromopropane	78-75-1	61.2212	634.11	0.3800	217.96	634.11	1,2	413.16	41.012
1826	C3H6Br2	1,3-dibromopropane	109-64-8	61.4063	669.94	0.3800	238.95	669.94	1,2	440.45	40.871
1827	C3H6Br2	2,2-dibromopropane	594-16-1	51.3012	607.05	0.3800	245.09	607.05	1,2	388.25	34.811
1844	C3H6Cl2	1,1-dichloropropane	78-99-9	47.7380	560.00	0.3920	200.00	560.00	1,2	361.25	31.806
1845	C3H6Cl2	1,2-dichloropropane	78-87-5	47.5272	572.00	0.3800	172.71	572.00	1,2	369.52	32.030
1846	C3H6Cl2	1,3-dichloropropane	142-28-9	51.4518	603.00	0.3670	173.65	603.00	1,2	393.55	34.903
1847	C3H6Cl2	2,2-dichloropropane	594-20-7	42.9474	539.46	0.3800	239.36	539.46	1,2	342.46	29.288
1848	C3H6Cl2	1,2-dichloropropane, (±)	26198-63-0	48.6081	568.62	0.3800	172.62	568.62	1,2	369.55	32.621
1849	C3H6Cl2	dichloropropane	26638-19-7	48.7142	568.62	0.3800	172.65	568.62	1,2	369.75	32.680
1865	C3H6F2	1,1-difluoropropane	430-61-5	35.5515	430.00	0.3800	172.37	430.00	1,2	281.15	23.757
1866	C3H6F2	1,2-difluoropropane	62126-90-3	36.2732	443.30	0.3800	171.00	443.30	1,2	288.15	24.340
1867	C3H6F2	1,3-difluoropropane	462-39-5	40.3245	480.87	0.3800	187.37	480.87	1,2	314.45	26.944
1868	C3H6F2	2,2-difluoropropane	420-45-1	33.1426	428.96	0.3800	168.35	428.96	1,2	272.75	22.578
1871	C3H6I2	1,1-diiodopropane	10250-52-9	57.8103	708.27	0.3800	224.19	708.27	2	453.88	39.176
1872	C3H6I2	1,2-diiodopropane	598-29-8	63.2230	780.49	0.3800	253.16	780.49	1,2	500.16	42.844
1873	C3H6I2	1,3-diiodopropane	627-31-6	64.4322	766.97	0.3800	260.15	766.97	1,2	496.15	43.382
1874	C3H6I2	2,2-diiodopropane	630-13-7	55.0503	709.92	0.3800	241.61	709.92	1,2	446.15	37.789
1920	C3H6O	allyl alcohol	107-18-6	61.3118	545.05	0.3800	240.00	545.05	1,2	370.23	39.800
1921	C3H6O	methyl vinyl ether	107-25-5	38.6461	437.00	0.4270	151.15	437.00	1,2	278.65	25.053
1922	C3H6O	propionaldehyde	123-38-6	40.6548	496.00	0.3360	193.15	496.00	1,2	321.15	28.640
1923	C3H6O	acetone	67-64-1	49.2441	508.20	0.4810	260.00	508.20	1,2	329.44	29.792
1924	C3H6O	1,2-propylene oxide	75-56-9	40.1759	482.25	0.3660	161.22	482.25	1,2	307.05	27.735
1925	C3H6O	1,3-propylene oxide	503-30-0	40.9940	520.00	0.3770	221.00	520.00	1,2	321.00	28.540
1927	C3H6O	(S)-(-)-propylene oxide	16088-62-3	37.8154	501.13	0.3800	161.25	501.13	1,2	308.05	26.319

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
1928	C3H6O	(R)-(+)-propylene oxide	15448-47-2	42.4888	501.13	0.3800	217.97	501.13	2	317.97	28.985
1930	C3H6O2	propanoic acid	79-09-4	48.4818	604.00	0.3800	390.00	604.00	1,2	414.32	31.220
1931	C3H6O2	ethyl formate	109-94-4	43.9251	508.40	0.3760	193.55	508.40	1,2	327.46	29.786
1932	C3H6O2	methyl acetate	79-20-9	44.9676	506.80	0.3650	175.15	506.80	1,2	330.09	30.612
1942	C3H6O2S	3-mercaptopropionic acid	107-96-0	82.2145	729.00	0.3800	290.65	729.00	1,2	501.00	52.860
1948	C3H6O3	lactic acid	50-21-5	95.5647	616.00	0.3840	291.15	616.00	1,2	447.00	58.158
1949	C3H6O3	methoxyacetic acid	625-45-6	86.1797	691.00	0.4140	281.00	691.00	1,2	478.26	52.916
1950	C3H6O3	trioxane	110-88-3	55.8229	604.00	0.3880	334.65	604.00	1,2	387.65	37.481
1967	C3H6S	thiacyclobutane	287-27-4	46.0990	603.00	0.3800	199.96	603.00	1,2	368.13	32.217
1968	C3H6S	2-methylthiacyclopropane	1072-43-1	42.8725	561.10	0.3800	182.15	561.10	1,2	347.55	29.700
1978	C3H7Br	1-bromopropane	106-94-5	41.8100	544.00	0.3220	163.15	544.00	1,2	344.15	30.286
1979	C3H7Br	2-bromopropane	75-26-3	40.0982	532.00	0.3360	184.15	532.00	1,2	332.56	28.837
1986	C3H7Cl	1-chloropropane	540-54-5	41.2050	503.15	0.3870	150.35	503.15	1,2	319.67	27.887
1987	C3H7Cl	2-chloropropane	75-29-6	40.5600	489.00	0.4190	155.97	489.00	1,2	308.85	26.692
2020	C3H7F	1-fluoropropane	460-13-9	33.8065	422.00	0.3800	114.16	422.00	1,2	269.95	22.937
2021	C3H7F	2-fluoropropane	420-26-8	32.4188	415.68	0.3800	139.80	415.68	1,2	263.81	22.112
2025	C3H7I	1-iodopropane	107-08-4	43.7668	593.00	0.3070	171.85	593.00	1,2	375.60	32.163
2026	C3H7I	2-iodopropane	75-30-9	43.6429	578.00	0.3360	183.15	578.00	1,2	362.65	31.321
2030	C3H7N	allylamine	107-11-9	45.3688	505.00	0.3770	184.95	505.00	1,2	326.45	30.657
2031	C3H7N	propyleneimine	75-55-8	44.0500	529.00	0.3740	229.00	529.00	1,2	334.00	30.328
2036	C3H7NO	N,N-dimethylformamide	68-12-2	59.3545	647.00	0.3810	212.72	647.00	1,2	426.15	39.409
2037	C3H7NO	N-methylacetamide	79-16-3	73.4229	718.00	0.3900	301.15	718.00	1,2	478.15	47.876
2038	C3H7NO	N-ethylformamide	627-45-2	67.4581	647.00	0.3800	371.15	647.00	1,2	471.15	41.119
2045	C3H7NO2	1-nitropropane	108-03-2	53.4623	605.00	0.3200	169.16	605.00	1,2	404.33	37.556
2046	C3H7NO2	2-nitropropane	79-46-9	50.4000	594.00	0.3150	181.83	594.00	1,2	393.40	35.803
2094	C3H8	propane	74-98-6	26.8896	369.82	0.3650	85.44	369.82	1,2	231.11	18.799
2129	C3H8O	propyl alcohol	71-23-8	70.1792	536.71	0.4510	146.95	536.71	1,2	370.35	41.380
2130	C3H8O	isopropyl alcohol	67-63-0	58.9824	508.31	0.3260	350.00	508.31	1,2	355.41	39.870
2131	C3H8O	methyl ethyl ether	540-67-0	35.3000	437.80	0.3800	160.00	437.80	1,2	280.50	31.224
2138	C3H8O2	2-methoxyethanol	109-86-4	62.7575	564.00	0.3800	225.00	564.00	1,2	397.55	39.470
2139	C3H8O2	methylal	109-87-5	41.3132	480.60	0.3720	168.35	480.60	1,2	315.00	27.794
2140	C3H8O2	1,2-propanediol (propylene glycol)	57-55-6	90.3736	626.00	0.3800	213.15	626.00	1,2	460.75	54.480
2141	C3H8O2	1,3-propanediol	504-63-2	87.6010	658.00	0.3070	246.45	658.00	1,2	487.55	57.865
2143	C3H8O2	(R)-(-)-1,2-propanediol	4254-14-2	64.7111	642.00	0.3800	360.15	642.00	1,2	460.15	40.069
2144	C3H8O2	(S)-(+)-1,2-propanediol	4254-15-3	64.7111	642.00	0.3800	337.70	642.00	1,2	460.15	40.069
2148	C3H8O3	glycerol	56-81-5	104.1528	723.00	0.3010	291.33	723.00	1,2	563.15	66.128
2156	C3H8O4S	ethyl methyl sulfate	814-40-4	59.0979	775.00	0.3800	241.15	775.00	2	472.42	41.339
2158	C3H8S	propyl mercaptan	107-03-9	43.2956	536.00	0.3700	159.95	536.00	1,2	340.87	29.790
2159	C3H8S	isopropyl mercaptan	75-33-2	41.3635	517.00	0.3850	142.61	517.00	1,2	325.71	28.208
2160	C3H8S	methyl ethyl sulfide	624-89-5	43.4170	532.80	0.3800	167.20	532.80	1,2	340.15	29.497
2161	C3H8S2	bis(methylthio)methane	1618-26-4	64.8206	624.00	0.3800	321.15	624.00	1,2	421.15	42.293
2200	C3H9N	propylamine	107-10-8	42.5351	496.95	0.3500	190.15	496.95	1,2	321.65	29.537
2201	C3H9N	isopropylamine	75-31-0	44.6640	471.85	0.4400	177.95	471.85	1,2	305.55	28.228
2202	C3H9N	methylethylamine	624-78-2	40.2150	475.00	0.3800	175.73	475.00	1,2	309.15	26.961
2203	C3H9N	trimethylamine	75-50-3	34.6000	433.25	0.3840	156.08	433.25	1,2	276.02	23.444
2204	C3H9NO	1-amino-2-propanol	78-96-6	69.0000	614.00	0.3170	274.89	614.00	1,2	432.61	46.879
2205	C3H9NO	3-amino-1-propanol	156-87-6	89.2989	649.00	0.3880	274.89	649.00	1,2	460.65	55.256
2206	C3H9NO	methylethanolamine	109-83-1	72.6083	630.00	0.3890	268.65	630.00	1,2	431.15	46.363
2207	C3H9NO	2-amino-1-propanol, (±)	6168-72-5	62.1823	631.00	0.3800	347.65	631.00	1,2	447.65	38.878
2210	C3H9NO	s(+)-2-amino-1-propanol	2749-11-3	62.1823	631.00	0.3800	347.65	631.00	1,2	447.65	38.878
2211	C3H9NO	(R)-(-)-1-amino-2-propanol	2799-16-8	75.0262	631.00	0.3800	297.65	631.00	1,2	433.15	48.285
2212	C3H9NO	(S)-(+)-1-amino-2-propanol	2799-17-9	75.0262	631.00	0.3800	295.65	631.00	1,2	433.15	48.285
2213	C3H9NO	(R)-(-)-2-amino-1-propanol	35320-23-1	62.1823	631.00	0.3800	347.65	631.00	1,2	447.65	38.878
2214	C3H9NO	2-aminopropanol	78-91-1	62.0419	631.00	0.3800	298.15	631.00	1,2	447.15	38.830
2241	C3H9O4P	trimethyl phosphate	512-56-1	61.4466	764.00	0.3800	227.00	764.00	1,2	465.85	42.974
2255	C3H10N2	1,2-propanediamine	78-90-0	60.2300	587.00	0.3780	236.53	587.00	1,2	392.45	39.675
2257	C3H10N2	1,2-propanediamine, (±)	10424-38-1	61.3939	587.00	0.3800	292.65	587.00	1,2	392.65	40.337
2258	C3H10N2	1,3-propanediamine	109-76-2	56.4833	587.00	0.3800	312.95	587.00	1,2	412.95	35.587
2268	C3H10Si	trimethyl silane	993-07-7	32.3235	432.00	0.3660	137.26	432.00	1,2	279.85	22.062
2317	C4Cl4S	tetrachlorothiophene	6012-97-1	75.4969	753.00	0.4220	301.97	753.00	1,2	506.54	47.124
2318	C4Cl6	hexachloro-1,3-butadiene	87-68-3	75.1890	741.00	0.5270	252.15	741.00	1,2	488.15	44.660
2334	C4F8	octafluoro-2-butene	360-89-4	33.5322	392.00	0.3700	138.15	392.00	1,2	270.36	21.748
2335	C4F8	perfluoroisobutene	382-21-8	37.4270	392.00	0.3800	143.15	392.00	1,2	280.15	23.239
2336	C4F8	octafluorocyclobutane	115-25-3	36.8200	388.37	0.3960	232.96	388.37	1,2	267.17	23.217
2337	C4F8	1,1,2,3,3,4,4,4-octafluoro-1-butene	357-26-6	36.5762	392.00	0.3800	177.00	392.00	1,2	277.00	22.952
2338.1	C4F8O	pentafluoroethyl trifluorovinyl ether	10493-43-3	40.7330	401.00	0.3642	128.00	401.00	1,2	281.15	26.237
2344	C4F10	decafluorobutane	355-25-9	40.2146	386.35	0.4550	144.95	386.35	1,2	271.15	23.188
2345	C4F10	perfluoroisobutane	354-92-7	30.5652	386.35	0.3800	161.15	386.35	2	261.15	19.919
2374	C4H2	biacetylene	460-12-8	45.6939	478.02	0.3800	237.16	478.02	1,2	283.46	32.472
2420.1	C4H2N2	maleonitrile	928-53-0	77.3110	704.00	0.3715	304.40	704.00	1,2	492.00	49.501
2430	C4H2O3	maleic anhydride	108-31-6	71.0701	721.00	0.3800	325.72	721.00	1,2	475.15	47.220
2510	C4H4	vinylacetylene	689-97-4	36.1572	454.00	0.4410	178.25	454.00	1,2	278.25	23.792
2562	C4H4N2	succinonitrile	110-61-2	82.9352	770.00	0.3500	331.16	770.00	1,2	540.15	54.322
2592	C4H4O	furan	110-00-9	40.8160	490.15	0.4190	187.55	490.15	1,2	304.50	27.175
2598	C4H4O2	diketene	674-82-8	57.7290	616.00	0.3800	266.65	616.00	1,2	399.20	38.820
2603	C4H4O3	succinic anhydride	108-30-5	81.7388	811.00	0.3800	393.00	811.00	1,2	536.58	54.150
2605	C4H4O4	fumaric acid	110-17-8	112.1509	771.00	0.3590	560.15	771.00	1,2	563.15	70.052
2606	C4H4O4	maleic acid	110-16-7	116.3389	773.00	0.3760	403.45	773.00	1,2	565.00	71.017
2613	C4H4S	thiophene	110-02-1	46.6023	579.35	0.3970	234.94	579.35	1,2	357.31	31.846
2634	C4H5Cl	chloroprene	126-99-8	38.6159	525.00	0.3240	143.15	525.00	1,2	332.55	27.897

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
2635	C4H5Cl	4-chloro-1,2-butadiene	25790-55-0	57.7925	525.00	0.3800	261.15	525.00	1,2	361.15	37.128
2636	C4H5Cl	1-chloro-1,3-butadiene	627-22-5	45.1498	525.00	0.3800	241.15	525.00	1,2	341.15	30.303
2695	C4H5N	trans-crotonitrile	627-26-9	54.3948	586.00	0.3800	222.00	586.00	1,2	394.38	35.570
2696	C4H5N	cis-crotonitrile	1190-76-7	52.0530	568.00	0.3910	200.55	568.00	1,2	380.60	33.740
2697	C4H5N	methacrylonitrile	126-98-7	45.9791	554.00	0.3800	237.35	554.00	1,2	363.45	30.650
2698	C4H5N	vinylacetonitrile	109-75-1	50.3676	584.00	0.3190	186.15	584.00	1,2	391.67	35.341
2699	C4H5N	2-butenenitrile	4786-20-3	60.5505	573.00	0.3800	221.65	573.00	1,2	393.65	38.943
2701	C4H5N	pyrrole	109-97-7	59.3500	639.75	0.4200	249.74	639.75	1,2	403.00	39.093
2713	C4H5NO2	methyl cyanoacetate	105-34-0	76.4095	687.00	0.3820	260.08	687.00	1,2	478.24	48.477
2753	C4H6	cyclobutene	822-35-5	37.1941	446.33	0.3800	153.76	446.33	1,2	275.75	25.807
2754	C4H6	dimethylacetylene	503-17-3	37.9796	488.15	0.3800	280.00	488.15	1,2	300.13	26.430
2755	C4H6	ethylacetylene	107-00-6	39.0790	443.20	0.4630	147.43	443.20	1,2	281.22	24.522
2756	C4H6	1,2-butadiene	590-19-2	35.6955	444.00	0.3800	200.00	444.00	1,2	284.00	24.220
2757	C4H6	butadiene (1,3 butadiene)	106-99-0	35.1697	425.37	0.4480	200.00	425.37	1,2	268.74	22.479
2806	C4H6Cl2	1,3-dichloro-trans-2-butene	7415-31-8	56.8461	618.00	0.4400	302.00	618.00	1,2	402.00	35.795
2807	C4H6Cl2	1,4-dichloro-cis-2-butene	1476-11-5	57.9608	640.00	0.3780	225.15	640.00	1,2	425.65	38.332
2808	C4H6Cl2	1,4-dichloro-trans-2-butene	110-57-6	58.4900	640.00	0.3760	274.15	646.00	1,2	429.26	38.792
2809	C4H6Cl2	3,4-dichloro-1-butene	760-23-6	51.4194	640.00	0.3760	212.00	589.00	1,2	388.00	34.321
2810	C4H6Cl2	3-chloro-2-(chloromethyl)-1-propene	1871-57-4	53.6086	640.00	0.3800	259.15	640.00	1,2	411.15	36.267
2811	C4H6Cl2	1,3-dichloro-1-butene	52497-07-1	47.1934	640.00	0.3800	298.15	640.00	1,2	398.15	32.605
2812	C4H6Cl2	2,3-dichloro-1-butene	7013-11-8	41.7615	640.00	0.3800	285.15	640.00	1,2	385.15	29.432
2813	C4H6Cl2	1,1-dichloro-2-butene	56800-09-0	47.6490	640.00	0.3800	299.15	640.00	1,2	399.15	32.868
2814	C4H6Cl2	1,2-dichloro-2-butene	13602-13-6	49.7739	640.00	0.3800	303.65	640.00	1,2	403.65	34.088
2815	C4H6Cl2	cis-1,3-dichloro-2-butene	10075-38-4	49.5316	640.00	0.3800	303.15	640.00	1,2	403.15	33.950
2816	C4H6Cl2	cis-2,3-dichloro-2-butene	1587-26-4	47.4205	640.00	0.3800	298.65	640.00	1,2	398.65	32.736
2817	C4H6Cl2	trans-2,3-dichloro-2-butene	1587-29-7	38.1261	640.00	0.3800	275.15	640.00	1,2	375.15	27.266
2818	C4H6Cl2	1,1-dichloro-2-methyl-1-propene	6065-93-6	40.4403	640.00	0.3800	230.15	640.00	1,2	381.65	28.649
2819	C4H6Cl2	3,3-dichloro-2-methyl-1-propene	22227-75-4	40.2559	640.00	0.3800	281.15	640.00	1,2	381.15	28.539
2820	C4H6Cl2	1,4-dichloro-2-butene	764-41-0	65.3320	640.00	0.3800	276.65	640.00	1,2	430.15	42.766
2821	C4H6Cl2	1,3-dichloro-2-butene, cis and trans	926-57-8	48.5781	640.00	0.3800	301.15	640.00	1,2	401.15	33.403
2822	C4H6Cl2	dichlorobutene	11069-19-5	48.4258	640.00	0.3800	300.83	640.00	2	400.83	33.315
2856	C4H6Cl4	1,1,1,2-tetrachlorobutane	39966-95-5	49.3721	690.00	0.3800	308.15	690.00	1,2	408.15	35.134
2857	C4H6Cl4	1,2,2,3-tetrachlorobutane	79630-70-9	59.6308	690.00	0.3800	225.15	690.00	1,2	455.15	39.592
2858	C4H6Cl4	1,2,3,3-tetrachlorobutane	13138-51-7	59.0637	690.00	0.3800	352.78	690.00	2	452.78	39.366
2859	C4H6Cl4	1,1,1,2-tetrachloro-2-methylpropane	7086-07-9	59.0637	690.00	0.3800	451.65	690.00	2	452.78	39.366
2860	C4H6Cl4	1,1,2,3-tetrachloro-2-methylpropane	18963-01-4	61.7103	690.00	0.3800	227.15	690.00	1,2	463.65	40.403
2861	C4H6Cl4	1,2,3-trichloro-2-(chloromethyl)propane	18963-00-3	67.0816	690.00	0.3800	384.15	690.00	1,2	484.15	42.363
2862	C4H6Cl4	1,2,3,4-tetrachlorobutane	3405-32-1	59.0637	690.00	0.3800	352.78	690.00	2	452.78	39.366
2939.1	C4H6O	cis-crotonaldehyde	15798-64-8	53.3990	554.00	0.5560	158.38	554.00	1,2	361.87	29.636
2940	C4H6O	trans-crotonaldehyde	123-73-9	52.2000	571.00	0.3750	196.65	571.00	1,2	377.25	34.805
2941	C4H6O	methacrolein	78-85-3	44.0191	530.00	0.3800	250.00	530.00	1,2	341.15	29.740
2942	C4H6O	2,5-dihydrofuran	1708-29-8	44.1386	542.00	0.3800	239.00	542.00	1,2	339.00	30.391
2944	C4H6O	divinyl ether	109-93-3	39.6733	463.00	0.3740	172.05	463.00	1,2	301.45	26.759
2946	C4H6O	3-buten-2-one	78-94-4	44.3309	555.00	0.3800	254.55	555.00	1,2	354.55	30.105
2956	C4H6O	crotonaldehyde	4170-30-3	59.4095	550.50	0.3800	198.00	550.50	1,2	377.15	38.297
2958	C4H6O	2-methyl-1-propen-1-one	598-26-5	46.8375	555.00	0.3800	265.55	555.00	2	365.55	31.132
2959	C4H6O	methyl vinyl ketone	78-94-4	59.4767	555.00	0.3800	312.15	555.00	1,2	412.15	35.512
2963	C4H6O2	2-butyne-1,4-diol	110-65-6	114.1800	695.00	0.3830	331.00	695.00	1,2	511.15	68.612
2965	C4H6O2	gamma-butyrolactone	96-48-0	64.5732	739.00	0.3970	229.78	739.00	1,2	477.15	42.773
2966	C4H6O2	cis-2-butenoic acid	503-64-0	71.8251	647.00	0.3310	288.65	647.00	1,2	445.05	48.854
2967	C4H6O2	trans-2-butenoic acid	107-93-7	77.7846	666.00	0.3990	344.55	666.00	1,2	458.15	48.878
2968	C4H6O2	vinylacetic acid	625-38-7	60.3581	669.69	0.3800	238.15	669.69	1,2	442.15	40.049
2969	C4H6O2	methacrylic acid	79-41-4	50.9311	643.00	0.3800	288.15	643.00	1,2	434.15	33.220
2970	C4H6O2	methyl acrylate	96-33-3	46.8000	536.00	0.3470	196.32	536.00	1,2	353.35	32.211
2971	C4H6O2	vinyl acetate	108-05-4	45.8047	524.00	0.3530	180.35	524.00	1,2	345.65	31.310
2972	C4H6O2	allyl formate	1838-59-1	52.8175	530.00	0.3800	256.75	530.00	1,2	356.75	34.534
2978	C4H6O2	cyclopropanecarboxylic acid	1759-53-1	78.3034	656.42	0.3800	291.65	656.42	1,2	456.15	49.873
2981	C4H6O2	crotonic acid	3724-65-0	63.3941	656.42	0.3800	360.15	656.42	1,2	460.15	40.069
2990	C4H6O3	acetic anhydride	108-24-7	66.5480	569.15	0.3800	200.15	569.15	1,2	411.78	40.830
3006	C4H6O4	succinic acid	110-15-6	119.9292	806.00	0.3700	461.15	806.00	1,2	591.00	73.550
3023	C4H6O5	diglycolic acid	110-99-6	128.9636	820.00	0.3720	421.15	820.00	1,2	610.00	77.695
3024	C4H6O5	malic acid	6915-15-7	155.4287	781.00	0.3660	403.15	781.00	1,2	602.00	90.649
3033	C4H6O6	tartaric acid	87-69-4	188.4400	828.00	0.3370	479.15	828.00	1,2	660.00	110.084
3047	C4H7Br	cis-1-bromo-1-butene	31849-78-2	46.9257	554.15	0.3800	189.06	554.15	1,2	359.30	31.544
3048	C4H7Br	trans-1-bromo-1-butene	32620-08-9	48.0958	567.34	0.3800	172.85	567.34	1,2	367.85	32.331
3049	C4H7Br	2-bromo-1-butene	23074-36-4	45.8568	548.16	0.3800	139.75	548.16	1,2	354.15	30.902
3050	C4H7Br	3-bromo-1-butene	22037-73-6	49.0020	586.28	0.3800	177.38	586.28	1,2	378.15	33.060
3051	C4H7Br	4-bromo-1-butene	5162-44-7	48.9097	571.36	0.3800	192.38	571.36	1,2	371.95	32.785
3052	C4H7Br	1-bromo-cis-2-butene	39616-19-8	49.3700	581.68	0.3800	189.06	581.68	1,2	377.15	33.187
3053	C4H7Br	1-bromo-trans-2-butene	29576-14-5	49.3700	581.68	0.3800	189.06	581.68	1,2	377.15	33.187
3054	C4H7Br	2-bromo-cis-2-butene	3017-68-3	46.2695	557.88	0.3800	161.95	557.88	1,2	358.95	31.269
3055	C4H7Br	2-bromo-trans-2-butene	3017-71-8	47.4857	571.87	0.3800	157.75	571.87	1,2	367.95	32.091
3056	C4H7Br	1-bromo-2-methyl-1-propene	3017-69-4	46.9720	565.96	0.3800	175.10	565.96	1,2	364.15	31.744
3057	C4H7Br	3-bromo-2-methyl-1-propene	1458-98-6	47.7576	569.83	0.3800	178.42	569.83	1,2	368.15	32.183
3058	C4H7Br	1-bromo-2-butene	4784-77-4	54.7917	568.74	0.3800	277.65	568.74	1,2	377.65	36.201
3059	C4H7Br	2-bromo-2-butene; (cis+trans)	13294-71-8	46.0238	568.74	0.3800	261.65	568.74	1,2	361.65	31.351
3083	C4H7Br3	1,1,1-tribromobutane	62127-62-2	70.2169	723.31	0.3800	316.16	723.31	1,2	484.15	46.111
3084	C4H7Br3	1,1,2-tribromobutane	3675-68-1	72.2271	725.15	0.3800	283.74	725.15	1,2	489.35	47.131
3085	C4H7Br3	1,1,3-tribromobutane	---	72.0993	723.92	0.3800	283.74	723.92	2	488.52	47.047
3086	C4H7Br3	1,1,4-tribromobutane	---	73.3372	718.77	0.3800	298.74	718.77	2	488.96	47.549

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
3087	C4H7Br3	1,2,2-tribromobutane	3675-69-2	70.6408	727.50	0.3800	316.16	727.50	1,2	486.95	46.389
3088	C4H7Br3	1,2,3-tribromobutane	632-05-3	72.8123	730.78	0.3800	254.15	730.78	1,2	493.15	47.512
3089	C4H7Br3	1,2,4-tribromobutane	38300-67-3	73.2105	717.58	0.3800	255.15	717.58	1,2	488.15	47.467
3090	C4H7Br3	1,3,3-tribromobutane	62127-46-2	66.2860	684.47	0.3800	316.16	684.47	1,2	458.15	43.529
3091	C4H7Br3	2,3,3-tribromobutane	62127-47-3	68.3647	721.95	0.3800	275.00	721.95	1,2	479.15	45.185
3092	C4H7Br3	1,1,1-tribromo-2-methylpropane	---	69.3452	731.86	0.3800	301.16	731.86	2	485.73	45.833
3093	C4H7Br3	1,1,2-tribromo-2-methylpropane	15331-16-5	71.9436	758.11	0.3800	301.16	758.11	1,2	503.15	47.550
3094	C4H7Br3	1,1,3-tribromo-2-methylpropane	---	72.0993	723.92	0.3800	283.74	723.92	2	488.52	47.047
3095	C4H7Br3	1,2,3-tribromo-2-methylpropane	631-28-7	71.5797	736.76	0.3800	316.16	736.76	1,2	493.15	47.006
3096	C4H7Br3	1,3-dibromo-2-(bromomethyl)propane	62127-48-4	73.9926	724.93	0.3800	241.15	724.93	1,2	493.15	47.974
3098	C4H7Cl	cis-1-chloro-1-butene	7611-86-1	42.4342	521.07	0.3800	159.18	521.07	1,2	336.65	28.596
3099	C4H7Cl	trans-1-chloro-1-butene	7611-87-2	43.0426	528.19	0.3800	159.18	528.19	1,2	341.25	29.006
3100	C4H7Cl	2-chloro-1-butene	2211-70-3	41.4506	515.18	0.3800	148.54	515.18	1,2	331.65	28.003
3101	C4H7Cl	3-chloro-1-butene	563-52-0	42.0738	524.61	0.3800	147.50	524.61	1,2	337.15	28.456
3102	C4H7Cl	4-chloro-1-butene	927-73-1	44.0498	535.14	0.3800	162.50	535.14	1,2	347.15	29.600
3103	C4H7Cl	1-chloro-cis-2-butene	4628-21-1	45.1749	553.11	0.3800	159.18	553.11	1,2	357.35	30.443
3104	C4H7Cl	1-chloro-trans-2-butene	4894-61-5	45.2943	554.50	0.3800	159.18	554.50	1,2	358.25	30.523
3105	C4H7Cl	2-chloro-cis-2-butene	2211-69-0	42.3223	530.28	0.3800	145.22	530.28	1,2	339.95	28.673
3106	C4H7Cl	2-chloro-trans-2-butene	2211-68-9	41.7739	523.73	0.3800	145.22	523.73	1,2	335.75	28.301
3107	C4H7Cl	1-chloro-2-methyl-1-propene	513-37-1	42.4922	532.31	0.3800	145.22	532.31	1,2	341.25	28.788
3108	C4H7Cl	3-chloro-2-methyl-1-propene	563-47-3	43.2489	536.47	0.3800	148.54	536.47	1,2	345.35	29.217
3110	C4H7Cl	1-chloro-2-butene	591-97-9	48.0196	532.24	0.3800	208.25	532.24	1,2	352.15	31.811
3111	C4H7Cl	2-chloro-2-butene	4461-41-0	40.5869	532.24	0.3800	237.65	532.24	1,2	337.65	27.690
3156	C4H7Cl3	1,1,1-trichlorobutane	13279-85-1	53.0442	614.26	0.3800	226.52	614.26	1,2	407.15	35.093
3157	C4H7Cl3	1,1,2-trichlorobutane	---	55.7011	628.34	0.3800	194.10	628.34	2	420.00	36.617
3158	C4H7Cl3	1,1,3-trichlorobutane	13279-87-3	55.7011	628.34	0.3800	194.10	628.34	1,2	426.15	36.202
3159	C4H7Cl3	1,1,4-trichlorobutane	66250-03-1	56.5695	623.15	0.3800	209.10	623.15	2	420.00	36.949
3160	C4H7Cl3	1,2,2-trichlorobutane	---	57.5384	663.82	0.3800	226.52	663.82	2	440.00	38.066
3161	C4H7Cl3	1,2,3-trichlorobutane	18338-40-4	58.3646	656.99	0.3800	194.10	656.99	1,2	439.15	38.368
3162	C4H7Cl3	1,2,4-trichlorobutane	1790-22-3	59.3935	652.82	0.3800	209.10	652.82	2	440.00	38.794
3163	C4H7Cl3	1,3,3-trichlorobutane	13280-60-9	54.8003	633.65	0.3800	226.52	633.65	2	420.00	36.255
3164	C4H7Cl3	2,3,3-trichlorobutane	10403-60-8	53.4514	633.36	0.3800	211.52	633.36	1,2	416.15	35.592
3165	C4H7Cl3	1,1,1-trichloro-2-methylpropane	---	53.2965	631.61	0.3800	211.52	631.61	2	415.00	35.489
3166	C4H7Cl3	1,1,2-trichloro-2-methylpropane	29559-52-2	53.6534	635.65	0.3800	211.52	635.65	1,2	417.65	35.726
3167	C4H7Cl3	1,1,3-trichloro-2-methylpropane	62108-65-0	55.0065	620.86	0.3800	267.15	620.86	2	415.00	36.160
3168	C4H7Cl3	1,2,3-trichloro-2-methylpropane	1871-58-5	57.1479	659.52	0.3800	226.52	659.52	1,2	437.15	37.808
3169	C4H7Cl3	1,3-dichloro-2-(chloromethyl)-propane	2014-83-7	54.1414	597.58	0.3800	209.10	597.58	2	402.77	35.363
3177	C4H7F	cis-1-fluoro-1-butene	66675-34-1	36.8403	455.25	0.3800	161.41	455.25	2	294.35	24.813
3178	C4H7F	trans-1-fluoro-1-butene	66675-35-2	36.8403	455.25	0.3800	161.41	455.25	2	294.35	24.813
3179	C4H7F	2-fluoro-1-butene	430-44-4	36.9851	462.01	0.3800	150.77	462.01	1,2	297.65	24.972
3180	C4H7F	3-fluoro-1-butene	---	35.4400	445.34	0.3800	149.73	445.34	2	286.43	23.957
3181	C4H7F	4-fluoro-1-butene	---	36.0446	441.88	0.3800	164.73	441.88	2	286.87	24.208
3182	C4H7F	cis-1-fluoro-2-butene	---	36.8403	455.25	0.3800	161.41	455.25	2	294.35	24.813
3183	C4H7F	trans-1-fluoro-2-butene	---	36.8403	455.25	0.3800	161.41	455.25	2	294.35	24.813
3184	C4H7F	cis-2-fluoro-2-butene	66675-38-5	37.1199	467.83	0.3800	147.45	467.83	1,2	300.15	25.135
3185	C4H7F	trans-2-fluoro-2-butene	66675-39-6	37.1199	467.83	0.3800	147.45	467.83	1,2	300.15	25.135
3186	C4H7F	1-fluoro-2-methyl-1-propene	---	37.7497	475.39	0.3800	147.45	475.39	2	305.00	25.561
3187	C4H7F	3-fluoro-2-methyl-1-propene	---	37.9441	473.42	0.3800	150.77	473.42	2	305.00	25.620
3192	C4H7F3	1,1,1-trifluorobutane	460-34-4	38.4570	425.80	0.3800	158.35	425.80	1,2	289.85	24.921
3193	C4H7F3	1,1,2-trifluorobutane	---	37.4346	429.75	0.3800	200.79	429.75	2	287.85	24.570
3194	C4H7F3	1,1,3-trifluorobutane	---	37.4346	429.75	0.3800	200.79	429.75	2	287.85	24.570
3195	C4H7F3	1,1,4-trifluorobutane	---	38.0847	426.87	0.3800	215.79	426.87	2	288.29	24.836
3196	C4H7F3	1,2,2-trifluorobutane	---	36.5079	429.82	0.3800	233.21	429.82	2	285.50	24.115
3197	C4H7F3	1,2,3-trifluorobutane	---	37.4346	429.75	0.3800	200.79	429.75	2	287.85	24.570
3198	C4H7F3	1,2,4-trifluorobutane	---	38.0847	426.87	0.3800	215.79	426.87	2	288.29	24.836
3199	C4H7F3	1,3,3-trifluorobutane	---	36.5079	429.82	0.3800	233.21	429.82	2	285.50	24.115
3200	C4H7F3	2,3,3-trifluorobutane	---	35.8912	432.90	0.3800	218.21	432.90	2	285.06	23.861
3201	C4H7F3	1,1,1-trifluoro-2-methylpropane	---	35.8912	432.90	0.3800	218.21	432.90	2	285.06	23.861
3202	C4H7F3	1,1,2-trifluoro-2-methylpropane	---	35.8912	432.90	0.3800	218.21	432.90	2	285.06	23.861
3203	C4H7F3	1,1,3-trifluoro-2-methylpropane	---	37.4346	429.75	0.3800	200.79	429.75	2	287.85	24.570
3204	C4H7F3	1,3-difluoro-2-(fluoromethyl)-propane	---	38.0847	426.87	0.3800	215.79	426.87	2	288.29	24.836
3209	C4H7I	cis-1-iodo-1-butene	54068-75-6	56.0553	686.08	0.3800	187.32	686.08	1,2	441.15	37.899
3210	C4H7I	trans-1-iodo-1-butene	62154-92-1	50.6719	623.09	0.3800	187.32	623.09	1,2	400.65	34.259
3211	C4H7I	2-iodo-1-butene	24308-61-0	50.1980	624.36	0.3800	176.68	624.36	2	400.00	34.024
3212	C4H7I	3-iodo-1-butene	62154-74-9	50.0818	625.42	0.3800	175.64	625.42	2	400.00	33.984
3213	C4H7I	4-iodo-1-butene	7766-51-0	50.8453	619.52	0.3800	190.64	619.52	2	400.00	34.279
3214	C4H7I	1-iodo-cis-2-butene	53121-23-6	51.2688	630.09	0.3800	187.32	630.09	1,2	405.15	34.663
3215	C4H7I	1-iodo-trans-2-butene	38169-04-9	51.2688	630.09	0.3800	187.32	630.09	1,2	405.15	34.663
3216	C4H7I	2-iodo-cis-2-butene	24298-09-7	48.3858	608.34	0.3800	173.36	608.34	2	388.10	32.889
3217	C4H7I	2-iodo-trans-2-butene	24298-08-6	48.3858	608.34	0.3800	173.36	608.34	2	388.10	32.889
3218	C4H7I	1-iodo-2-methyl-1-propene	20687-01-8	48.3858	608.34	0.3800	173.36	608.34	2	388.10	32.889
3219	C4H7I	3-iodo-2-methyl-1-propene	3756-30-7	47.6499	594.11	0.3800	176.68	594.11	2	380.62	32.296
3224	C4H7I3	1,1,1-triiodobutane	---	73.9104	867.15	0.3800	310.94	867.15	2	567.11	49.381
3225	C4H7I3	1,1,2-triiodobutane	---	75.4337	863.14	0.3800	278.52	863.14	2	569.46	50.078
3226	C4H7I3	1,1,3-triiodobutane	---	75.4337	863.14	0.3800	278.52	863.14	2	569.46	50.078
3227	C4H7I3	1,1,4-triiodobutane	---	76.6552	856.37	0.3800	293.52	856.37	2	569.90	50.561
3228	C4H7I3	1,2,2-triiodobutane	---	73.9104	867.15	0.3800	310.94	867.15	2	567.11	49.381
3229	C4H7I3	1,2,3-triiodobutane	---	75.4337	863.14	0.3800	278.52	863.14	2	569.46	50.078
3230	C4H7I3	1,2,4-triiodobutane	---	76.6552	856.37	0.3800	293.52	856.37	2	569.90	50.561
3231	C4H7I3	1,3,3-triiodobutane	---	73.9104	867.15	0.3800	310.94	867.15	2	567.11	49.381

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n							(HVAP - kjoule/mol, T - K)	
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
3232	C4H7I3	2,2,3-triiodobutane	---	72.7479	874.42	0.3800	295.94	874.42	2	566.67	48.920
3233	C4H7I3	1,1,1-triiodo-2-methylpropane	---	72.7479	874.42	0.3800	295.94	874.42	2	566.67	48.920
3234	C4H7I3	1,1,2-triiodo-2-methylpropane	---	72.7479	874.42	0.3800	295.94	874.42	2	566.67	48.920
3235	C4H7I3	1,1,3-triiodo-2-methylpropane	---	75.4337	863.14	0.3800	278.52	863.14	2	569.46	50.078
3236	C4H7I3	1,2,3-triiodo-2-methylpropane	---	73.9104	867.15	0.3800	310.94	867.15	2	567.11	49.381
3237	C4H7I3	1,3-diiodo-2-(iodomethyl)-propane	---	76.6552	856.37	0.3800	293.52	856.37	2	569.90	50.561
3238	C4H7N	butyronitrile	109-74-0	49.5778	582.25	0.3250	161.25	582.25	1,2	390.75	34.541
3239	C4H7N	isobutyronitrile	78-82-0	50.9968	565.00	0.3710	201.70	565.00	1,2	376.76	33.920
3240	C4H7N	propyl isocyanide	627-36-1	50.4061	554.09	0.3800	204.43	554.09	1,2	372.15	33.014
3241	C4H7N	isopropyl isocyanide	598-45-8	47.9783	541.04	0.3800	189.43	541.04	1,2	360.35	31.627
3246	C4H7NO	acetone cyanohydrin	75-86-5	64.2278	647.00	0.3800	252.15	647.00	1,2	463.00	39.830
3247	C4H7NO	2-methacrylamide	79-39-0	74.1641	741.00	0.3900	383.65	741.00	1,2	488.00	48.773
3248	C4H7NO	3-methoxypropionitrile	110-67-8	59.8649	638.00	0.3220	210.12	638.00	1,2	439.00	41.139
3249	C4H7NO	2-pyrrolidone	616-45-5	78.2229	792.00	0.3660	298.15	792.00	1,2	518.15	53.031
3254	C4H7NO	propyl isocyanate	110-78-1	46.6938	547.00	0.3800	256.65	547.00	1,2	356.65	31.265
3318	C4H8	methylcyclopropane	594-11-6	33.2852	437.13	0.3800	95.85	437.13	1,2	273.88	22.893
3319	C4H8	cyclobutane	287-23-0	33.3568	459.93	0.3400	182.48	459.93	1,2	285.66	23.982
3320	C4H8	1-butene	106-98-9	33.3901	419.59	0.3930	87.80	419.59	1,2	266.90	22.443
3321	C4H8	2-butene; (cis+trans)	107-01-7	35.5244	425.43	0.3800	175.50	425.43	1,2	275.50	23.900
3322	C4H8	cis-2-butene	590-18-1	34.4904	435.58	0.3830	134.26	435.58	1,2	276.87	23.430
3323	C4H8	trans-2-butene	624-64-6	33.2000	428.63	0.3640	167.60	428.63	1,2	274.03	22.905
3324	C4H8	isobutene	115-11-7	32.9500	417.90	0.3890	132.81	417.90	1,2	266.25	22.213
3333	C4H8Br2	1,1-dibromobutane	62168-25-6	60.3852	646.82	0.3800	238.94	646.82	1,2	431.15	39.781
3334	C4H8Br2	1,2-dibromobutane	533-98-2	64.6667	659.28	0.3800	207.76	659.28	1,2	439.46	42.601
3335	C4H8Br2	1,3-dibromobutane	107-80-2	62.8755	672.32	0.3800	238.94	672.32	1,2	448.15	41.421
3336	C4H8Br2	1,4-dibromobutane	110-52-1	67.1580	699.44	0.3800	256.62	699.44	1,2	470.15	43.958
3337	C4H8Br2	2,2-dibromobutane	50341-35-0	56.4745	636.75	0.3800	256.36	636.75	1,2	417.15	37.685
3338	C4H8Br2	DL-2,3-dibromobutane	598-71-0	59.8018	656.19	0.3800	223.94	656.19	1,2	433.65	39.651
3339	C4H8Br2	meso-2,3-dibromobutane	5780-13-2	59.3405	651.35	0.3800	238.65	651.35	1,2	430.45	39.345
3340	C4H8Br2	1,1-dibromo-2-methylpropane	33693-78-6	57.8568	635.76	0.3800	223.94	635.76	1,2	420.15	38.362
3341	C4H8Br2	1,2-dibromo-2-methylpropane	594-34-3	57.1827	644.38	0.3800	256.36	644.38	1,2	422.15	38.157
3342	C4H8Br2	1,3-dibromo-2-methylpropane	28148-04-1	62.8755	672.32	0.3800	238.94	672.32	1,2	448.15	41.421
3343	C4H8Br2	2,3-dibromobutane	5408-86-6	62.7634	657.46	0.3800	249.15	657.46	1,2	434.15	41.639
3360	C4H8Cl2	1,1-dichlorobutane	541-33-3	50.5007	584.34	0.3800	179.18	584.34	1,2	386.95	33.434
3361	C4H8Cl2	1,2-dichlorobutane	616-21-7	51.8968	599.74	0.3800	179.18	599.74	1,2	397.15	34.358
3362	C4H8Cl2	1,3-dichlorobutane	1190-22-3	53.1986	614.09	0.3800	179.18	614.09	1,2	406.65	35.220
3363	C4H8Cl2	1,4-dichlorobutane	110-56-5	57.3526	641.00	0.3760	235.85	641.00	1,2	427.05	37.964
3364	C4H8Cl2	2,2-dichlorobutane	4279-22-5	47.5033	578.17	0.3800	196.60	578.17	1,2	376.15	31.856
3365	C4H8Cl2	DL-2,3-dichlorobutane	2211-67-8	50.5006	598.18	0.3800	164.18	598.18	1,2	392.65	33.651
3366	C4H8Cl2	meso-2,3-dichlorobutane	4028-56-2	50.0287	592.85	0.3800	192.75	592.85	1,2	389.15	33.336
3367	C4H8Cl2	1,1-dichloro-2-methylpropane	598-76-5	48.5469	576.09	0.3800	164.18	576.09	1,2	378.15	32.349
3368	C4H8Cl2	1,2-dichloro-2-methylpropane	594-37-6	48.0334	584.32	0.3800	196.60	584.32	1,2	380.15	32.212
3369	C4H8Cl2	1,3-dichloro-2-methylpropane	616-19-3	53.4042	616.35	0.3800	179.18	616.35	1,2	408.15	35.356
3370	C4H8Cl2	2,3-dichlorobutane, dl and meso	7581-97-7	49.4992	598.51	0.3800	193.25	598.51	1,2	391.10	33.091
3371	C4H8Cl2	mixo-dichlorobutane	26761-81-9	50.9935	598.51	0.3800	293.94	598.51	2	393.94	33.912
3389	C4H8F2	1,1-difluorobutane	2358-38-5	41.8137	463.30	0.3800	183.64	463.30	1,2	314.15	27.181
3390	C4H8F2	1,2-difluorobutane	686-65-7	41.7694	487.30	0.3800	183.64	487.30	1,2	323.15	27.624
3391	C4H8F2	1,3-difluorobutane	691-42-9	43.1258	502.38	0.3800	183.64	502.38	1,2	333.15	28.521
3392	C4H8F2	1,4-difluorobutane	372-90-7	46.2548	524.74	0.3800	198.64	524.74	1,2	350.95	30.394
3393	C4H8F2	2,2-difluorobutane	353-81-1	37.9619	466.65	0.3800	155.65	466.65	1,2	304.05	25.430
3394	C4H8F2	2,3-difluorobutane	666-21-7	40.7304	487.02	0.3800	168.64	487.02	1,2	320.15	27.112
3395	C4H8F2	1,1-difluoro-2-methylpropane	62126-91-4	38.8638	465.72	0.3800	168.64	465.72	1,2	306.15	25.869
3396	C4H8F2	1,2-difluoro-2-methylpropane	62126-92-5	38.4994	472.94	0.3800	201.06	472.94	1,2	308.15	25.791
3397	C4H8F2	1,3-difluoro-2-methylpropane	62126-93-6	43.5331	506.90	0.3800	183.64	506.90	1,2	336.15	28.790
3401	C4H8I2	1,1-diiodobutane	66587-65-3	62.1981	726.41	0.3800	235.46	726.41	2	476.76	41.449
3402	C4H8I2	1,2-diiodobutane	53161-72-1	61.8815	726.41	0.3800	279.06	726.41	1,2	476.76	41.238
3403	C4H8I2	1,3-diiodobutane	18371-24-9	62.1981	726.41	0.3800	235.46	726.41	2	476.76	41.449
3404	C4H8I2	1,4-diiodobutane	628-21-7	63.2172	720.71	0.3800	279.05	720.71	2	477.20	41.857
3405	C4H8I2	2,2-diiodobutane	29443-50-3	59.9195	735.41	0.3800	252.88	735.41	2	473.97	40.447
3406	C4H8I2	2,3-diiodobutane	66587-66-4	61.2018	732.32	0.3800	220.46	732.32	2	476.32	41.050
3407	C4H8I2	1,1-diiodo-2-methylpropane	10250-55-2	61.2018	732.32	0.3800	220.46	732.32	2	476.32	41.050
3408	C4H8I2	1,2-diiodo-2-methylpropane	66794-23-8	59.9195	735.41	0.3800	252.88	735.41	2	473.97	40.447
3409	C4H8I2	1,3-diiodo-2-methylpropane	17616-44-3	62.1981	726.41	0.3800	235.46	726.41	2	476.76	41.449
3474	C4H8O	1,2-epoxybutane	106-88-7	42.4327	526.00	0.3670	123.15	526.00	1,2	336.57	29.169
3476	C4H8O	ethyl vinyl ether	109-92-2	39.8300	475.15	0.3750	157.35	475.15	1,2	308.70	26.877
3477	C4H8O	3-methoxy-1-propene	627-40-7	44.9386	475.15	0.3800	217.15	475.15	1,2	317.15	29.574
3478	C4H8O	butyraldehyde	123-72-8	47.9400	525.00	0.3780	176.75	525.00	1,2	347.95	31.788
3479	C4H8O	isobutyraldehyde	78-84-2	44.9902	507.00	0.3470	208.15	507.00	1,2	337.25	30.777
3480	C4H8O	methyl ethyl ketone	78-93-3	50.6517	535.50	0.4500	300.00	535.50	1,2	352.79	31.221
3481	C4H8O	tetrahydrofuran	109-99-9	44.4387	540.15	0.3910	164.65	540.15	1,2	338.00	30.260
3482	C4H8O	cis-crotonyl alcohol	4088-60-2	54.3312	559.00	0.3800	296.15	559.00	1,2	396.15	34.003
3483	C4H8O	trans-2-buten-1-ol	504-61-0	53.8351	559.00	0.3800	294.35	559.00	1,2	394.35	33.833
3484	C4H8O	2-buten-1-ol	6117-91-5	53.9174	559.00	0.3800	294.65	559.00	1,2	394.65	33.861
3485	C4H8O	3-buten-1-ol	627-27-0	51.7760	559.00	0.3800	286.65	559.00	1,2	386.65	33.109
3486	C4H8O	3-buten-2-ol, (±)	6118-14-5	47.7425	559.00	0.3800	270.45	559.00	1,2	370.45	31.590
3487	C4H8O	2-methyl-2-propenol	513-42-8	52.0378	559.00	0.3800	287.65	559.00	1,2	387.65	33.203
3493	C4H8O	3-buten-2-ol	598-32-3	47.6713	559.00	0.3800	183.25	559.00	1,2	370.15	31.562
3504	C4H8O2	butyric acid	107-92-6	71.1105	628.00	0.3800	320.00	436.42	1,2	436.42	45.290
3505	C4H8O2	isobutyric acid	79-31-2	65.3794	609.15	0.3290	227.15	609.15	1,2	427.85	43.881
3506	C4H8O2	propyl formate	110-74-7	45.5532	538.00	0.3290	280.00	538.00	1,2	353.97	32.007

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
3507	C4H8O2	isopropyl formate	625-55-8	44.4119	518.50	0.3800	178.04	518.50	1,2	341.25	29.536
3508	C4H8O2	ethyl acetate	141-78-6	49.3464	523.30	0.3850	189.60	523.30	1,2	350.21	32.231
3509	C4H8O2	methyl propanoate	554-12-1	50.3200	530.60	0.4020	185.65	530.60	1,2	352.60	32.438
3510	C4H8O2	1,4-dioxane	123-91-1	50.4611	587.00	0.3800	340.00	587.00	1,2	374.47	34.300
3511	C4H8O2	cis-2-butene-1,4-diol	6117-80-2	106.1877	677.88	0.3800	284.15	677.88	1,2	508.15	62.740
3512	C4H8O2	trans-2-butene-1,4-diol	821-11-4	106.4273	681.00	0.3800	300.45	681.00	1,2	510.00	62.950
3513	C4H8O2	3-butene-1,2-diol	497-06-3	82.0831	679.44	0.3800	369.65	679.44	1,2	469.65	52.519
3526	C4H8O2	2-butene-1,4-diol	110-64-5	46.8951	679.44	0.3800	280.15	679.44	2	408.11	33.086
3533	C4H8O2	R,S-3-butene-1,2-diol	86161-40-2	49.6438	679.44	0.3800	314.90	679.44	1,2	414.90	34.689
3535.1	C4H8O2	4-hydroxybutraldehyde	25714-71-0	76.4040	599.00	0.3360	290.00	599.00	1,2	432.00	49.743
3535.2	C4H8O2	3-hydroxy-2-methyl propionaldehyde	38433-80-6	84.2830	615.00	0.4042	205.00	615.00	1,2	440.00	50.713
3536	C4H8O2S	sulfolane	126-33-0	80.5955	849.00	0.3750	300.75	849.00	1,2	558.15	53.932
3581	C4H8S	tetrahydrothiophene	110-01-0	51.3601	631.95	0.3990	176.98	631.95	1,2	394.27	34.768
3583	C4H8S	2-ethylthiacyclopropane	3195-86-6	47.8158	594.72	0.3800	235.73	594.72	1,2	378.15	32.573
3584	C4H8S	2,2-dimethylthiacyclopropane	3772-13-2	44.4488	574.84	0.3800	259.63	574.84	1,2	359.15	30.626
3585	C4H8S	2,cis-3-dimethylthiacyclopropane	5954-71-2	42.2804	537.89	0.3800	231.49	537.89	2	340.82	28.869
3586	C4H8S	2,trans-3-dimethylthiacyclopropane	5955-98-6	42.2804	537.89	0.3800	231.49	537.89	2	340.82	28.869
3598	C4H9Br	1-bromobutane	109-65-9	51.8400	577.00	0.3870	160.75	577.00	1,2	374.75	34.552
3599	C4H9Br	2-bromobutane	78-76-2	47.8100	567.00	0.3790	161.25	567.00	1,2	364.37	32.371
3600	C4H9Br	1-bromo-2-methylpropane	78-77-3	47.6798	559.14	0.3800	155.75	559.14	1,2	364.68	31.918
3601	C4H9Br	2-bromo-2-methylpropane	507-19-7	43.7686	541.05	0.3800	256.95	541.05	1,2	346.40	29.679
3602	C4H9Br	2-bromobutane, (±)	5787-31-5	48.9836	561.05	0.3800	160.50	561.05	1,2	364.45	32.884
3610	C4H9Cl	1-chlorobutane	109-69-3	46.7200	537.00	0.3940	150.05	537.00	1,2	351.58	30.729
3611	C4H9Cl	1-chloro-2-methylpropane	513-36-0	43.1700	526.21	0.3800	142.85	526.21	1,2	342.00	28.971
3612	C4H9Cl	2-chlorobutane	78-86-4	41.5700	520.60	0.3310	141.85	520.60	1,2	341.25	29.214
3613	C4H9Cl	2-chloro-2-methylpropane	507-20-0	39.9463	507.00	0.3850	247.75	507.00	1,2	323.75	26.997
3614	C4H9Cl	2-chlorobutane	53178-20-4	44.1490	522.70	0.3800	141.85	522.70	1,2	341.35	29.527
3657	C4H9F	1-fluorobutane	2366-52-1	39.4452	460.70	0.3800	139.15	460.70	1,2	305.65	26.078
3658	C4H9F	2-fluorobutane	359-01-3	37.3768	458.55	0.3800	151.75	458.55	1,2	298.25	25.070
3659	C4H9F	1-fluoro-2-methylpropane	359-00-2	36.1809	444.56	0.3800	151.49	444.56	1,2	289.15	24.267
3660	C4H9F	2-fluoro-2-methylpropane	353-61-7	34.5674	446.83	0.3800	196.15	446.83	1,2	285.25	23.486
3666	C4H9I	1-iodobutane	542-69-8	63.5137	574.36	0.3800	170.15	574.36	1,2	403.68	40.051
3667	C4H9I	2-iodobutane	513-48-4	60.7834	563.37	0.3800	169.15	563.37	1,2	393.15	38.572
3668	C4H9I	1-iodo-2-methylpropane	513-38-2	60.8479	563.95	0.3800	182.45	563.95	1,2	393.55	38.613
3669	C4H9I	2-iodo-2-methylpropane	558-17-8	44.5506	587.90	0.3800	234.96	587.90	1,2	373.16	30.384
3670	C4H9I	2-iodobutane, (±)	52152-71-3	63.5231	572.40	0.3800	168.95	572.40	1,2	393.25	40.853
3675	C4H9N	pyrrolidine	123-75-1	51.9092	568.55	0.4220	215.31	568.55	1,2	359.72	34.016
3681	C4H9NO	N,N-dimethylacetamide	127-19-5	61.3559	658.00	0.3740	253.15	658.00	1,2	439.25	40.643
3682	C4H9NO	morpholine	110-91-8	56.3582	618.00	0.3750	270.05	618.00	1,2	401.15	38.054
3697	C4H9NO2	1-nitrobutane	627-05-4	60.1938	624.00	0.3800	191.83	624.00	1,2	426.05	38.911
3698	C4H9NO2	2-nitrobutane	600-24-8	56.1938	615.00	0.3800	141.16	615.00	1,2	412.85	36.819
3699	C4H9NO2	1-nitro-2-methylpropane	625-74-1	57.3616	609.00	0.3800	196.30	609.00	1,2	414.87	37.149
3700	C4H9NO2	2-nitro-2-methylpropane	594-70-7	54.3631	592.00	0.3800	299.38	592.00	1,2	400.31	35.417
3715	C4H9NO2	2-nitrobutane, (±)	116781-85-2	58.6947	610.00	0.3800	141.15	610.00	1,2	413.15	38.190
3783	C4H10	butane	106-97-8	33.0198	425.18	0.3770	134.86	425.18	1,2	272.65	22.435
3784	C4H10	isobutane	75-28-5	31.9538	408.14	0.3920	113.54	408.14	1,2	261.43	21.396
3830	C4H10N2	piperazine	110-85-0	65.3370	638.00	0.4160	379.15	638.00	1,2	419.15	41.865
3865	C4H10O	butanol	71-36-3	63.0242	562.93	0.3180	220.00	562.93	1,2	390.81	43.237
3866	C4H10O	isobutanol	78-83-1	76.1900	547.73	0.5050	165.15	547.73	1,2	380.81	47.688
3867	C4H10O	sec-butanol	78-92-2	72.5600	536.01	0.4770	158.45	536.01	1,2	372.70	42.703
3868	C4H10O	tert-butanol	75-65-0	77.3200	506.20	0.5650	340.00	506.20	1,2	355.57	54.182
3869	C4H10O	diethyl ether	60-29-7	41.9723	466.70	0.4070	156.85	466.70	1,2	307.58	27.087
3870	C4H10O	methyl propyl ether	557-17-5	46.4345	476.20	0.3800	156.87	476.20	1,2	311.72	31.003
3871	C4H10O	methyl isopropyl ether	598-53-8	39.3008	464.50	0.3710	127.93	464.50	1,2	303.92	26.501
3872	C4H10O	(R)-(-)-2-butanol	14898-79-4	60.8712	538.22	0.3800	159.25	538.22	1,2	372.65	38.892
3873	C4H10O	(S)-(+)-2-butanol	4221-99-2	60.8323	538.22	0.3800	159.25	538.22	1,2	372.60	38.871
3874	C4H10O	(<+->)-2-butanol	15892-23-6	60.3678	538.22	0.3800	272.00	538.22	1,2	372.00	38.628
3881	C4H10O2	t-butyl hydroperoxide	75-91-2	63.4025	576.00	0.3800	277.45	576.00	1,2	405.50	39.921
3882	C4H10O2	1,2-dimethoxyethane	110-71-4	46.7897	536.15	0.3490	215.15	536.15	1,2	357.20	31.903
3883	C4H10O2	2-ethoxyethanol	110-80-5	60.0384	569.00	0.3100	308.15	569.00	1,2	408.15	40.582
3884	C4H10O2	1,2-butanediol	584-03-2	90.1139	622.14	0.3800	240.98	622.14	1,2	464.15	53.530
3885	C4H10O2	1,3-butanediol	107-88-0	95.3463	643.00	0.3800	196.15	643.00	1,2	480.15	56.580
3886	C4H10O2	1,4-butanediol	110-63-4	105.9423	667.00	0.3800	293.05	667.00	1,2	501.15	62.430
3887	C4H10O2	DL-2,3-butanediol	6982-25-8	86.5968	611.56	0.3800	292.15	611.56	1,2	453.85	51.742
3888	C4H10O2	meso-2,3-butanediol	5341-95-7	86.2309	609.07	0.3800	225.98	609.07	2	452.00	51.524
3889	C4H10O2	2-methyl-1,2-propanediol	558-43-0	84.5385	611.21	0.3800	258.40	611.21	1,2	451.15	50.808
3890	C4H10O2	1-methyl-1,3-propanediol	18826-95-4	94.7442	652.97	0.3800	240.98	652.97	1,2	487.15	56.280
3891	C4H10O2	1,2-butanediol, (±)	26171-83-5	66.9035	630.99	0.3800	363.65	630.99	1,2	463.65	40.403
3893.1	C4H10O2	n-butylhydroperoxide	4813-50-7	81.7360	565.00	0.4116	213.00	565.00	1,2	405.00	48.629
3894	C4H10O2	2-methoxy-1-propanol	1589-47-5	55.3740	569.00	0.3800	303.15	569.00	1,2	403.15	34.662
3895	C4H10O2	propylene glycol monomethyl ether	107-98-2	63.0791	569.00	0.3800	292.15	569.00	1,2	392.15	40.461
3896	C4H10O2	(2S,3S)-(+)-2,3-butanediol	19132-06-0	63.5946	630.99	0.3800	293.15	630.99	1,2	452.60	39.349
3897	C4H10O2	(2R,3R)-(-)-2,3-butanediol	24347-58-8	71.0770	630.99	0.3800	372.15	630.99	2	430.70	45.957
3898	C4H10O2	(S)-(+)-1,3-butanediol	24621-61-2	71.0770	630.99	0.3800	330.70	630.99	2	430.70	45.957
3899	C4H10O2	2,3-butanediol	513-85-9	64.3382	630.99	0.3800	295.15	630.99	1,2	455.15	39.592
3900	C4H10O2	(R)-(-)-1,3-butanediol	6290-03-5	71.0770	630.99	0.3800	330.70	630.99	2	430.70	45.957
3901	C4H10O2	(S)-(+)-2-methoxypropanol	116422-39-0	63.7903	569.00	0.3800	330.70	569.00	2	430.70	37.267
3902	C4H10O2	methoxypropanol	1320-67-8	63.8423	569.00	0.3800	176.55	569.00	1,2	393.15	40.862
3903	C4H10O2	(S)-(+)-1-methoxy-2-propanol	26550-55-0	63.7903	569.00	0.3800	330.70	569.00	2	430.70	37.267
3904	C4H10O2	(R)-(-)-1-methoxy-2-propanol	4984-22-9	63.7903	569.00	0.3800	176.15	569.00	2	430.70	37.267

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
3905	C4H10O2	2-methyl-1,3-propanediol	2163-42-0	74.8063	630.99	0.3800	182.25	630.99	1,2	487.15	42.651
3906	C4H10O2	3-methoxy-1-propanol	1589-49-7	63.7903	569.00	0.3800	330.70	569.00	2	430.70	37.267
3918	C4H10O3	diethylene glycol	111-46-6	94.7464	744.60	0.4310	262.70	744.60	1,2	518.15	56.723
3937	C4H10O4S	diethyl sulfate	64-67-5	61.7704	792.00	0.3800	248.00	792.00	1,2	483.00	43.197
3938	C4H10O4S	methyl propyl sulfate	5867-91-4	63.4359	792.00	0.3800	241.15	792.00	2	483.69	44.324
3942	C4H10S	butyl mercaptan	109-79-5	49.7511	569.00	0.3940	157.46	569.00	1,2	371.61	32.783
3943	C4H10S	isobutyl mercaptan	513-44-0	46.6819	559.00	0.3820	128.31	559.00	1,2	361.64	31.364
3944	C4H10S	sec-butyl mercaptan	513-53-1	46.1106	554.00	0.3840	133.02	554.00	1,2	358.13	30.932
3945	C4H10S	tert-butyl mercaptan	75-66-1	43.1447	530.00	0.4080	274.26	530.00	1,2	337.37	28.549
3946	C4H10S	2-butanethiol	91840-99-2	46.0081	553.00	0.3800	108.15	553.00	1,2	358.15	30.952
3947	C4H10S	diethyl sulfide	352-93-2	47.1669	557.15	0.3640	169.20	557.15	1,2	365.25	31.999
3948	C4H10S	methyl propyl sulfide	3877-15-4	48.0621	563.00	0.3800	160.19	563.00	1,2	368.71	32.079
3949	C4H10S	methyl isopropyl sulfide	1551-21-9	45.7306	551.00	0.3800	171.65	551.00	1,2	357.90	30.702
3950	C4H10S2	diethyl disulfide	110-81-6	57.8924	642.00	0.3960	171.63	642.00	1,2	427.13	37.530
3951	C4H10S2	1,2-bis(methylthio)ethane	6628-18-8	63.2855	642.00	0.3800	355.15	642.00	1,2	455.15	39.592
3954	C4H10S2	methyl propyl disulfide	2179-60-4	61.9437	642.00	0.3800	350.31	642.00	2	450.31	39.131
3977	C4H11N	butylamine	109-73-9	48.7157	531.90	0.3860	224.05	531.90	1,2	350.55	32.158
3978	C4H11N	isobutylamine	78-81-9	48.8140	513.73	0.4250	188.55	513.73	1,2	340.88	30.725
3979	C4H11N	sec-butylamine	13952-84-6	49.1791	514.30	0.4660	168.65	514.30	1,2	336.15	30.007
3980	C4H11N	tert-butylamine	75-64-9	41.5111	483.90	0.3820	206.19	483.90	1,2	317.55	27.607
3981	C4H11N	2-butanamine, (.+/-.)-	33966-50-6	46.9366	503.50	0.3800	<201	503.50	1,2	335.88	30.903
3982	C4H11N	methyl-propylamine	627-35-0	45.8115	500.00	0.3800	187.00	500.00	1,2	336.15	29.982
3983	C4H11N	methylisopropylamine	4747-21-1	50.9064	487.60	0.3800	172.00	487.60	1,2	323.55	33.651
3984	C4H11N	diethylamine	109-89-7	43.3695	496.60	0.3750	223.35	496.60	1,2	328.60	28.885
3985	C4H11N	dimethylethylamine	598-56-1	35.7885	500.00	0.3800	133.15	500.00	1,2	310.15	24.770
3986	C4H11N	(R)-(-)-sec-butylamine	13250-12-9	45.3352	503.50	0.3800	169.25	503.50	1,2	333.15	30.032
3987	C4H11N	(S)-(+)-sec-butylamine	513-49-5	46.4712	503.50	0.3800	169.25	503.50	1,2	335.10	30.650
3988	C4H11NO	dimethylethanolamine	108-01-0	73.9876	571.82	0.4030	214.15	571.82	1,2	407.15	44.800
3989	C4H11NO	3-amino-1-butanol	2867-59-6	62.1583	571.82	0.3800	326.84	571.82	2	426.84	36.901
3990	C4H11NO	3-amino-2-butanol	42551-55-3	64.2445	571.82	0.3800	292.15	571.82	1,2	433.15	37.500
3991	C4H11NO	4-amino-1-butanol	13325-10-5	83.1017	571.82	0.3800	378.15	571.82	1,2	478.15	41.789
3992	C4H11NO	2-amino-1-butanol, (±)-	13054-87-0	70.8205	571.82	0.3800	272.15	571.82	1,2	451.15	39.211
3993	C4H11NO	2-amino-2-methyl-1-propanol	124-68-5	66.1486	571.82	0.3800	298.65	571.82	1,2	438.65	38.022
3995	C4H11NO	2-(ethylamino)ethanol	110-73-6	67.5887	571.82	0.3800	342.65	571.82	1,2	442.65	38.402
3998	C4H11NO	4-amino-2-butanol	39884-48-5	62.1583	571.82	0.3800	326.84	571.82	2	426.84	36.901
3999	C4H11NO	1-amino-2-butanol	13552-21-1	67.3695	571.82	0.3800	276.15	571.82	1,2	442.05	38.345
4000	C4H11NO	4-aminobutan-2-ol	39884-48-5	62.1583	571.82	0.3800	326.84	571.82	2	426.84	36.901
4001	C4H11NO	(S)-(+)-2-amino-1-butanol	5856-62-2	68.8899	571.82	0.3800	359.20	571.82	1,2	446.15	38.735
4002	C4H11NO	(R)-(-)-2-amino-1-butanol	5856-63-3	68.8899	571.82	0.3800	271.25	571.82	1,2	446.15	38.735
4003	C4H11NO	2-aminobutan-1-ol	96-20-8	70.4273	571.82	0.3800	271.25	571.82	1,2	450.15	39.116
4005	C4H11NO	1-amino-2-methyl-2-propanol	2854-16-2	61.2687	571.82	0.3800	324.05	571.82	1,2	424.05	36.637
4006	C4H11NO2	diethanolamine	111-42-2	103.4000	715.00	0.3330	301.15	715.00	1,2	542.04	64.457
4007	C4H11NO2	2-aminoethoxyethanol	929-06-6	104.8866	699.00	0.3860	414.00	699.00	1,2	514.00	62.788
4008	C4H11NO2	2-amino-2-methyl-1,3-propanediol	115-69-5	76.7208	715.00	0.3800	383.15	715.00	2	525.40	46.330
4010	C4H11NO2	3-methylamino-1,2-propanediol	40137-22-2	75.0998	715.00	0.3800	420.15	715.00	1,2	520.15	45.824
4070	C4H12N2	1,4-butanediamine	110-60-1	59.4027	612.33	0.3800	300.65	612.33	1,2	431.65	37.358
4071	C4H12N2	2,3-butanediamine, (R*,R*)-(±)	20699-48-3	53.2012	612.33	0.3800	251.15	612.33	2	396.09	35.821
4072	C4H12N2	N,N'-dimethyl-1,2-ethanediamine	110-70-3	51.6578	612.33	0.3800	293.15	612.33	1,2	393.15	34.961
4073	C4H12N2	N-ethyl-1,2-ethanediamine	110-72-5	56.5768	612.33	0.3800	302.15	612.33	1,2	402.15	37.685
4074	C4H12N2	2-methyl-1,2-propanediamine	811-93-8	53.2309	612.33	0.3800	296.15	612.33	1,2	396.15	35.838
4077	C4H12N2	1,3-butanediamine	590-88-5	67.7751	612.33	0.3800	319.15	612.33	1,2	419.15	43.720
4078	C4H12N2	N,N-dimethylethylenediamine	108-00-9	44.8664	612.33	0.3800	291.20	612.33	1,2	378.65	31.113
4079	C4H12N2	3-(methylamino)propylamine	6291-84-5	63.4984	612.33	0.3800	313.15	612.33	1,2	413.15	41.440
4080	C4H12N2O	N-aminoethyl ethanolamine	111-41-1	111.0295	698.00	0.3930	417.00	698.00	1,2	517.00	65.324
4110	C4H12Si	tetramethylsilane	75-76-3	37.3090	450.40	0.3930	174.07	450.40	1,2	299.80	24.257
4118	C4H13N3	diethylene triamine	111-40-0	77.2414	676.00	0.3800	234.15	676.00	1,2	480.25	48.230
4169	C5Cl6	hexachlorocyclopentadiene	77-47-4	76.5900	746.00	0.4320	284.49	746.00	1,2	512.15	46.401
4175	C5F8	octafluorocyclopentene	559-40-0	34.0070	465.23	0.3800	203.15	465.23	1,2	300.15	22.939
4327	C5H4O2	furfural	98-01-1	59.1857	657.00	0.3130	236.65	657.00	1,2	434.85	42.152
4391	C5H5N	pyridine	110-86-1	53.4605	619.95	0.4080	231.51	619.95	1,2	388.41	35.770
4447	C5H6	cyclopentadiene	542-92-7	37.2301	507.00	0.3800	188.15	507.00	1,2	314.65	25.760
4448	C5H6	2-methyl-1-butene-3-yne	78-80-8	36.4694	492.00	0.3860	160.15	492.00	1,2	305.40	25.084
4449	C5H6	1-pentene-3-yne	646-05-9	38.0100	520.00	0.3040	232.40	520.00	1,2	332.40	27.880
4450	C5H6	1-pentene-4-yne	871-28-3	37.6189	503.00	0.3630	215.65	503.00	1,2	315.65	26.285
4451	C5H6	cis-3-penten-1-yne	1574-40-9	38.7622	505.00	0.3800	217.75	505.00	1,2	317.75	26.588
4452	C5H6	trans-3-penten-1-yne	2004-69-5	42.4427	505.00	0.3800	225.35	505.00	1,2	325.35	28.657
4490	C5H6N2	glutaronitrile	544-13-8	85.8818	782.00	0.3800	244.21	782.00	1,2	559.15	53.300
4534	C5H6O	2-methylfuran	534-22-5	43.3551	527.00	0.3800	178.87	527.00	1,2	337.85	29.372
4535	C5H6O	3-methylfuran	930-27-8	43.6119	528.60	0.3800	182.44	528.60	1,2	338.65	29.560
4548	C5H6O2	furfuryl alcohol	98-00-0	76.9419	632.00	0.3800	258.52	632.00	1,2	443.15	48.620
4567	C5H6O3	glutaric anhydride	108-55-4	87.3318	838.00	0.3800	328.00	838.00	1,2	562.69	57.210
4576	C5H6O4	citraconic acid	498-23-7	121.1898	829.00	0.3840	356.15	829.00	1,2	607.00	73.070
4577	C5H6O4	itaconic acid	97-65-4	117.9443	821.00	0.3740	438.75	821.00	1,2	601.00	72.074
4587	C5H6S	2-methylthiophene	554-14-3	49.5856	610.00	0.3800	209.77	610.00	1,2	385.71	33.903
4588	C5H6S	3-methylthiophene	616-44-4	50.0703	615.00	0.3800	204.18	615.00	1,2	388.60	34.250
4658	C5H7N	N-methylpyrrole	96-54-8	55.3050	610.00	0.4550	216.91	610.00	1,2	385.89	35.067
4659	C5H7N	2-methylpyrrole	636-41-9	70.8091	610.00	0.3800	237.55	610.00	1,2	420.75	45.388
4660	C5H7N	3-methylpyrrole	616-43-3	67.2129	610.00	0.3800	224.75	610.00	1,2	416.05	43.486
4677	C5H7NO2	ethyl cyanoacetate	105-56-6	102.0625	679.00	0.3800	250.65	679.00	1,2	479.15	64.124
4736	C5H8	spiropentane	157-40-4	38.8003	499.74	0.3800	166.11	499.74	1,2	312.19	26.736

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
4737	C5H8	cyclopentene	142-29-0	40.1066	507.00	0.3800	290.00	507.00	1,2	317.38	27.600
4738	C5H8	isoprene	78-79-5	38.2567	483.30	0.3800	127.20	483.30	1,2	307.22	26.066
4739	C5H8	3-methyl-1,2-butadiene	598-25-4	41.2330	490.00	0.4260	159.53	490.00	1,2	314.00	26.657
4740	C5H8	1,2-pentadiene	591-95-7	42.4970	500.00	0.4530	135.89	500.00	1,2	318.01	26.886
4741	C5H8	cis-1,3-pentadiene	1574-41-0	42.3926	499.00	0.4580	132.35	499.00	1,2	317.22	26.695
4742	C5H8	trans-1,3-pentadiene	2004-70-8	35.9916	500.00	0.3050	250.00	500.00	1,2	315.17	26.569
4743	C5H8	1,4-pentadiene	591-93-5	39.6139	479.00	0.4910	124.86	479.00	1,2	299.11	24.491
4744	C5H8	2,3-pentadiene	591-96-8	43.0621	497.00	0.4220	147.50	497.00	1,2	321.40	27.760
4745	C5H8	1-pentyne	627-19-0	39.5317	481.20	0.3510	167.45	481.20	1,2	313.33	27.316
4746	C5H8	2-pentyne	627-21-4	42.7035	521.99	0.3800	163.86	521.99	1,2	329.22	29.246
4747	C5H8	3-methyl-1-butyne	598-23-2	37.9400	463.20	0.3570	183.45	463.20	1,2	302.15	26.020
4751	C5H8	1,3-pentadiene; (cis+trans)	504-60-9	38.0083	492.61	0.3800	215.05	492.61	1,2	315.05	25.792
4770	C5H8Cl2	3-chloro-2-(chloromethyl)-1-butene	69295-21-2	55.1000	660.00	0.3800	328.15	660.00	1,2	428.15	37.026
4771	C5H8Cl2	1,3-dichloro-2-methyl-2-butene	25148-87-2	53.9558	660.00	0.3800	323.15	660.00	1,2	423.15	36.552
4772	C5H8Cl2	1,4-dichloro-2-methyl-2-butene	29843-58-1	54.4105	660.00	0.3800	325.15	660.00	2	425.15	36.741
4773	C5H8Cl2	3,3-dichloro-2-methyl-1-butene	42101-38-2	54.4105	660.00	0.3800	325.15	660.00	2	425.15	36.741
4774	C5H8Cl2	2,5-dichloro-2-pentene	20177-02-0	54.1827	660.00	0.3800	324.15	660.00	1,2	424.15	36.647
4797	C5H8Cl4	2,2-bis(chloromethyl)-1,3-dichloropropane	3228-99-7	64.6059	725.00	0.3800	370.15	725.00	2	485.00	42.445
4798	C5H8Cl4	1,1,1,5-tetrachloropentane	2467-10-9	64.6059	725.00	0.3800	385.00	725.00	2	485.00	42.445
4845	C5H8N4O12	pentaerythritol tetranitrate	78-11-5	125.7243	676.00	0.3600	413.65	676.00	1,2	543.00	70.020
4848	C5H8O	cyclopentanone	120-92-3	55.7640	626.00	0.3800	221.85	626.00	1,2	403.80	37.620
4849	C5H8O	methyl isopropenyl ketone	814-78-8	48.7106	566.00	0.3750	219.55	566.00	1,2	371.15	32.655
4861	C5H8O	trans-2-methyl-2-butenal	497-03-0	51.8332	570.00	0.3800	290.15	570.00	1,2	390.15	33.438
4862	C5H8O	2-methyl-2-butenal	1115-11-3	51.8332	570.00	0.3800	290.15	570.00	1,2	390.15	33.438
4863	C5H8O	3-methyl-2-butenal	107-86-8	56.4041	570.00	0.3800	307.15	570.00	1,2	407.15	35.039
4864	C5H8O	4-pentenal	2100-17-6	47.4633	570.00	0.3800	272.15	570.00	1,2	372.15	31.749
4871	C5H8O	trans-3-penten-2-one	3102-33-8	52.7371	575.00	0.3800	295.15	575.00	1,2	395.15	33.908
4872	C5H8O	1-penten-3-one	1629-58-9	48.0909	575.00	0.3800	276.15	575.00	1,2	376.15	32.124
4874	C5H8O	2-ethylacrolein	922-63-4	45.9859	570.00	0.3800	265.65	570.00	1,2	365.65	31.141
4876	C5H8O	trans-2-pentenal	1576-87-0	52.6058	570.00	0.3800	293.15	570.00	1,2	393.15	33.720
4877	C5H8O	3-penten-2-one	625-33-2	52.8662	575.00	0.3800	295.65	575.00	1,2	395.65	33.956
4880	C5H8O	2-pentenal	764-39-6	53.6177	570.00	0.3800	297.00	570.00	1,2	397.00	34.083
4882	C5H8O2	acetylacetone	123-54-6	63.7000	602.00	0.3830	249.95	602.00	1,2	413.55	40.828
4883	C5H8O2	allyl acetate	591-87-7	47.2800	559.00	0.3060	138.00	559.00	1,2	377.15	33.531
4884	C5H8O2	isopropenyl acetate	108-22-5	48.4875	555.50	0.3800	180.25	555.50	1,2	367.15	32.147
4885	C5H8O2	vinyl propionate	105-38-4	49.7700	546.00	0.3800	264.35	546.00	1,2	364.35	32.760
4886	C5H8O2	methyl cis-2-butenoate	4358-59-2	53.2658	555.50	0.3800	291.15	555.50	1,2	391.15	33.532
4887	C5H8O2	methyl trans-2-butenoate	623-43-8	54.0915	555.50	0.3800	231.15	555.50	1,2	394.15	33.814
4888	C5H8O2	ethyl acrylate	140-88-5	53.6300	553.00	0.4140	201.95	553.00	1,2	372.65	33.725
4889	C5H8O2	methyl methacrylate	80-62-6	54.1700	564.00	0.4210	224.95	564.00	1,2	373.45	34.305
4890	C5H8O2	2-methylenebutanoic acid	3586-58-1	62.9637	676.00	0.3800	257.15	673.92	1,2	453.15	41.202
4891	C5H8O2	trans-2-methyl-2-butenoic acid	80-59-1	64.7904	676.00	0.3800	338.15	706.26	1,2	471.65	42.622
4892	C5H8O2	cis-2-methyl-2-butenoic acid	565-63-9	62.8518	676.00	0.3800	318.15	686.05	1,2	458.15	41.347
4893	C5H8O2	2-methyl-3-butenoic acid	53774-20-2	61.8593	676.00	0.3800	289.45	672.37	2	450.00	40.626
4894	C5H8O2	3-methyl-2-butenoic acid	541-47-9	64.2875	676.00	0.3800	343.15	701.02	1,2	468.15	42.292
4895	C5H8O2	3-methyl-3-butenoic acid	1617-31-8	62.0079	676.00	0.3800	294.15	671.37	2	450.00	40.677
4896	C5H8O2	trans-2-pentenoic acid	13991-37-2	65.8724	676.00	0.3800	283.15	703.67	1,2	473.15	43.105
4897	C5H8O2	cis-2-pentenoic acid	16666-42-5	63.6903	676.00	0.3800	301.13	681.36	1,2	458.15	41.677
4898	C5H8O2	trans-3-pentenoic acid	1617-32-9	64.8537	676.00	0.3800	274.65	693.26	1,2	466.15	42.439
4899	C5H8O2	cis-3-pentenoic acid	33698-87-2	54.1278	676.00	0.3800	301.13	583.20	1,2	392.15	35.420
4900	C5H8O2	4-pentenoic acid	591-80-0	65.0283	676.00	0.3800	250.65	683.36	1,2	461.15	42.066
4918	C5H8O2	methyl 3-butenoate	3724-55-8	60.0790	555.50	0.3800	285.15	555.50	1,2	385.15	38.340
4927	C5H8O3	2-hydroxyethyl acrylate	818-61-1	80.1316	662.00	0.3020	213.00	662.00	1,2	484.00	53.893
4928	C5H8O3	levulinic acid	123-76-2	85.1297	723.00	0.3800	308.15	723.00	1,2	518.95	52.639
4929	C5H8O3	methyl acetoacetate	105-45-3	67.8608	642.00	0.3840	193.15	642.00	1,2	444.85	43.125
4945	C5H8O4	glutaric acid	110-94-1	126.4103	807.00	0.4120	370.65	807.00	1,2	595.54	72.802
4964	C5H9Br	cis-1-bromo-1-pentene	31849-75-9	51.9926	584.97	0.3800	200.33	584.97	1,2	388.15	34.370
4965	C5H9Br	trans-1-bromo-1-pentene	31849-76-0	51.9926	584.97	0.3800	200.33	584.97	1,2	388.15	34.370
4966	C5H9Br	2-bromo-1-pentene	31844-95-8	50.6082	576.34	0.3800	189.69	576.34	1,2	381.15	33.538
4967	C5H9Br	3-bromo-1-pentene	53045-71-9	50.7653	580.26	0.3800	188.65	580.26	1,2	383.15	33.681
4968	C5H9Br	4-bromo-1-pentene	31950-56-8	50.9041	581.77	0.3800	188.65	581.77	1,2	384.15	33.773
4969	C5H9Br	5-bromo-1-pentene	1119-51-3	54.1001	602.30	0.3800	203.65	602.30	1,2	401.15	35.662
4970	C5H9Br	1-bromo-cis-2-pentene	7348-78-9	53.1150	597.03	0.3800	200.33	597.03	1,2	396.15	35.112
4971	C5H9Br	1-bromo-trans-2-pentene	7348-71-2	53.1150	597.03	0.3800	200.33	597.03	1,2	396.15	35.112
4972	C5H9Br	2-bromo-cis-2-pentene	54653-29-1	50.8981	584.62	0.3800	186.37	584.62	1,2	385.15	33.826
4973	C5H9Br	2-bromo-trans-2-pentene	54653-30-4	50.8981	584.62	0.3800	186.37	584.62	1,2	385.15	33.826
4974	C5H9Br	3-bromo-cis-2-pentene	23068-94-2	50.6213	581.59	0.3800	186.37	581.59	1,2	383.15	33.642
4975	C5H9Br	3-bromo-trans-2-pentene	54653-28-0	50.6213	581.59	0.3800	186.37	581.59	1,2	383.15	33.642
4976	C5H9Br	4-bromo-cis-2-pentene	56535-63-8	51.3989	592.38	0.3800	185.33	592.38	1,2	389.65	34.198
4977	C5H9Br	4-bromo-trans-2-pentene	23068-95-3	51.3989	592.38	0.3800	185.33	592.38	1,2	389.65	34.198
4978	C5H9Br	5-bromo-cis-2-pentene	50273-84-2	53.3958	600.04	0.3800	200.33	600.04	1,2	398.15	35.298
4979	C5H9Br	5-bromo-trans-2-pentene	7515-62-0	53.3958	600.04	0.3800	200.33	600.04	1,2	398.15	35.298
4980	C5H9Br	cis-1-bromo-2-methyl-1-butene	36668-55-0	51.5903	592.21	0.3800	186.37	592.21	1,2	390.15	34.286
4981	C5H9Br	trans-1-bromo-2-methyl-1-butene	54265-17-7	51.5903	592.21	0.3800	186.37	592.21	1,2	390.15	34.286
4982	C5H9Br	3-bromo-2-methyl-1-butene	51872-48-1	49.1367	573.71	0.3800	174.69	573.71	2	376.08	32.774
4983	C5H9Br	4-bromo-2-methyl-1-butene	20038-12-4	49.9646	569.33	0.3800	189.69	569.33	2	376.52	33.111
4984	C5H9Br	cis-1-bromo-3-methyl-1-butene	16416-44-7	50.5012	582.50	0.3800	185.33	582.50	1,2	383.15	33.600
4985	C5H9Br	trans-1-bromo-3-methyl-1-butene	16416-41-4	50.5012	582.50	0.3800	185.33	582.50	1,2	383.15	33.600
4986	C5H9Br	2-bromo-3-methyl-1-butene	31844-96-9	48.8725	570.77	0.3800	174.69	570.77	1,2	374.15	32.598
4987	C5H9Br	3-bromo-3-methyl-1-butene	865-58-7	47.8681	575.70	0.3800	206.07	575.70	2	373.41	32.169

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
4988	C5H9Br	4-bromo-3-methyl-1-butene	31950-55-7	49.8014	569.74	0.3800	188.65	569.74	2	376.20	33.041
4989	C5H9Br	1-bromo-2-methyl-cis-2-butene	57253-29-9	52.5601	602.84	0.3800	186.37	602.84	1,2	397.15	34.930
4990	C5H9Br	1-bromo-2-methyl-trans-2-butene	57253-30-2	52.5601	602.84	0.3800	186.37	602.84	1,2	397.15	34.930
4991	C5H9Br	1-bromo-3-methyl-2-butene	870-63-3	50.7389	582.88	0.3800	186.37	582.88	2	384.00	33.720
4992	C5H9Br	2-bromo-3-methyl-2-butene	3017-70-7	51.0570	598.09	0.3800	172.41	598.09	1,2	391.15	34.112
4993	C5H9Br	3-bromo-2-ethyl-1-propene	---	49.9646	569.33	0.3800	189.69	569.33	2	376.52	33.111
4995	C5H9Br	1-bromo-1-pentene	60468-23-7	55.7697	586.22	0.3800	292.15	586.22	1,2	392.15	36.640
4996	C5H9Br	1-bromo-2-pentene	20599-27-3	58.6391	586.22	0.3800	296.65	586.22	1,2	396.65	38.184
4997	C5H9Br	2-bromo-2-pentene	80204-19-9	50.5843	586.22	0.3800	283.15	586.22	1,2	383.15	33.811
4998	C5H9Br	3-bromo-2-pentene	21964-23-8	53.9635	586.22	0.3800	289.15	586.22	1,2	389.15	35.661
4999	C5H9Br	4-bromo-2-pentene	1809-26-3	55.1585	586.22	0.3800	291.15	586.22	1,2	391.15	36.310
5000	C5H9Br	5-bromo-2-pentene	51952-42-2	53.3375	586.22	0.3800	288.08	586.22	2	388.08	35.320
5022	C5H9Br3	1,1,1-tribromopentane	16644-66-9	74.6879	736.13	0.3800	327.43	736.13	1,2	503.15	48.238
5023	C5H9Cl	cis-1-chloro-1-pentene	66213-69-2	46.7576	546.85	0.3800	170.45	546.85	1,2	361.65	30.986
5024	C5H9Cl	trans-1-chloro-1-pentene	66213-70-5	46.7576	546.85	0.3800	170.45	546.85	1,2	361.65	30.986
5025	C5H9Cl	2-chloro-1-pentene	42131-85-1	46.3283	547.93	0.3800	159.81	547.93	1,2	361.15	30.778
5026	C5H9Cl	3-chloro-1-pentene	24356-00-1	46.8905	556.39	0.3800	158.77	556.39	1,2	366.15	31.187
5027	C5H9Cl	4-chloro-1-pentene	10524-08-0	47.4279	562.47	0.3800	158.77	562.47	1,2	370.15	31.544
5028	C5H9Cl	5-chloro-1-pentene	928-50-7	48.9799	566.62	0.3800	173.77	566.62	1,2	376.15	32.367
5029	C5H9Cl	1-chloro-cis-2-pentene	6261-19-4	49.5402	577.85	0.3800	170.45	577.85	1,2	382.15	32.830
5030	C5H9Cl	1-chloro-trans-2-pentene	6261-25-2	49.6761	579.36	0.3800	170.45	579.36	1,2	383.15	32.920
5031	C5H9Cl	2-chloro-cis-2-pentene	42131-98-6	46.6238	556.15	0.3800	156.49	556.15	1,2	365.15	31.062
5032	C5H9Cl	2-chloro-trans-2-pentene	42132-00-3	46.6238	556.15	0.3800	156.49	556.15	1,2	365.15	31.062
5033	C5H9Cl	3-chloro-cis-2-pentene	26423-60-9	46.3560	553.10	0.3800	156.49	553.10	1,2	363.15	30.884
5034	C5H9Cl	3-chloro-trans-2-pentene	26423-61-0	46.3560	553.10	0.3800	156.49	553.10	1,2	363.15	30.884
5035	C5H9Cl	4-chloro-cis-2-pentene	26423-63-2	47.1826	564.66	0.3800	155.45	564.66	1,2	370.15	31.470
5036	C5H9Cl	4-chloro-trans-2-pentene	18610-33-8	47.1826	564.66	0.3800	155.45	564.66	1,2	370.15	31.470
5037	C5H9Cl	5-chloro-cis-2-pentene	53543-44-5	49.4043	576.34	0.3800	170.45	576.34	1,2	381.15	32.740
5038	C5H9Cl	5-chloro-trans-2-pentene	10524-07-9	49.4043	576.34	0.3800	170.45	576.34	1,2	381.15	32.740
5039	C5H9Cl	cis-1-chloro-2-methyl-1-butene	7611-88-3	46.3560	553.10	0.3800	156.49	553.10	1,2	363.15	30.884
5040	C5H9Cl	trans-1-chloro-2-methyl-1-butene	7611-89-4	46.3560	553.10	0.3800	156.49	553.10	1,2	363.15	30.884
5041	C5H9Cl	3-chloro-2-methyl-1-butene	5166-35-8	46.3955	561.72	0.3800	144.81	561.72	1,2	366.95	31.022
5042	C5H9Cl	4-chloro-2-methyl-1-butene	10523-96-3	48.2135	569.17	0.3800	159.81	569.17	1,2	375.15	32.030
5043	C5H9Cl	cis-1-chloro-3-methyl-1-butene	66213-67-0	46.6479	558.56	0.3800	155.45	558.56	1,2	366.15	31.114
5044	C5H9Cl	trans-1-chloro-3-methyl-1-butene	66213-68-1	46.6479	558.56	0.3800	155.45	558.56	1,2	366.15	31.114
5045	C5H9Cl	2-chloro-3-methyl-1-butene	17773-64-7	45.8916	555.90	0.3800	144.81	555.90	1,2	363.15	30.685
5046	C5H9Cl	3-chloro-3-methyl-1-butene	2190-48-9	43.7535	546.40	0.3800	176.19	546.40	1,2	353.15	29.477
5047	C5H9Cl	4-chloro-3-methyl-1-butene	10524-01-3	46.7562	554.87	0.3800	158.77	554.87	1,2	365.15	31.098
5048	C5H9Cl	1-chloro-2-methyl-cis-2-butene	23009-74-7	48.7688	580.52	0.3800	156.49	580.52	1,2	381.15	32.491
5049	C5H9Cl	1-chloro-2-methyl-trans-2-butene	23009-73-6	48.3663	575.95	0.3800	156.49	575.95	1,2	378.15	32.223
5050	C5H9Cl	1-chloro-3-methyl-2-butene	503-60-6	49.0372	583.57	0.3800	156.49	583.57	1,2	383.15	32.670
5051	C5H9Cl	2-chloro-3-methyl-2-butene	17773-65-8	46.2914	563.35	0.3800	142.53	563.35	1,2	367.15	31.005
5052	C5H9Cl	3-chloro-2-ethyl-1-propene	---	46.5974	550.96	0.3800	159.81	550.96	1,2	363.15	30.956
5053	C5H9Cl	1-chloro-2-methyl-1-butene	23378-11-2	47.4400	561.69	0.3800	269.65	561.69	1,2	369.65	31.552
5054	C5H9Cl	1-chloro-2-methyl-2-butene	13417-43-1	55.4558	561.69	0.3800	283.15	561.69	1,2	383.15	35.875
5055	C5H9Cl	1-chloro-3-methyl-1-butene	23010-00-6	42.7228	561.69	0.3800	260.15	561.69	1,2	360.15	28.940
5056	C5H9Cl	1-chloro-2-pentene	10071-60-0	54.1553	561.69	0.3800	281.15	561.69	1,2	381.15	35.183
5057	C5H9Cl	2-chloro-2-pentene	67747-70-0	47.1746	561.69	0.3800	269.15	561.69	1,2	369.15	31.406
5058	C5H9Cl	3-chloro-2-pentene	34238-52-3	44.6281	561.69	0.3800	264.15	561.69	1,2	364.15	30.002
5059	C5H9Cl	4-chloro-2-pentene	1458-99-7	51.0842	561.69	0.3800	276.15	561.69	1,2	376.15	33.534
5060	C5H9Cl	5-chloro-2-pentene	16435-50-0	54.1553	561.69	0.3800	281.15	561.69	1,2	381.15	35.183
5100	C5H9Cl3	1,1,1-trichloropentane	3922-27-8	57.4581	635.09	0.3800	237.79	635.09	1,2	430.15	37.385
5101	C5H9Cl3	1,2,3-trichloro-2-methylbutane	62521-69-1	64.5159	635.09	0.3800	357.15	635.09	1,2	457.15	39.783
5102	C5H9Cl3	2,2,3-trichloro-3-methylbutane	98070-91-8	64.0793	635.09	0.3800	355.65	635.09	1,2	455.65	39.640
5103	C5H9Cl3	1,3-dichloro-2-(chloromethyl)-2-methylpropane	1067-09-0	61.8146	635.09	0.3800	291.15	635.09	2	447.65	38.878
5109	C5H9F	cis-1-fluoro-1-pentene	66213-83-0	40.7349	479.34	0.3800	172.68	479.34	2	317.23	26.980
5110	C5H9F	trans-1-fluoro-1-pentene	66213-84-1	40.7349	479.34	0.3800	172.68	479.34	2	317.23	26.980
5111	C5H9F	2-fluoro-1-pentene	66213-89-6	39.4030	469.43	0.3800	162.04	469.43	2	309.63	26.163
5112	C5H9F	3-fluoro-1-pentene	66702-88-3	39.2672	469.68	0.3800	161.00	469.68	2	309.31	26.103
5113	C5H9F	4-fluoro-1-pentene	66702-91-8	39.2672	469.68	0.3800	161.00	469.68	2	309.31	26.103
5114	C5H9F	5-fluoro-1-pentene	407-79-4	43.3779	504.50	0.3800	176.00	504.50	1,2	335.15	28.650
5115	C5H9F	1-fluoro-cis-2-pentene	66213-85-2	40.7349	479.34	0.3800	172.68	479.34	2	317.23	26.980
5116	C5H9F	1-fluoro-trans-2-pentene	66213-86-3	40.7349	479.34	0.3800	172.68	479.34	2	317.23	26.980
5117	C5H9F	2-fluoro-cis-2-pentene	66213-87-4	40.1923	482.63	0.3800	158.72	482.63	2	317.11	26.763
5118	C5H9F	2-fluoro-trans-2-pentene	66213-88-5	40.1923	482.63	0.3800	158.72	482.63	2	317.11	26.763
5119	C5H9F	3-fluoro-cis-2-pentene	66213-90-9	40.1923	482.63	0.3800	158.72	482.63	2	317.11	26.763
5120	C5H9F	3-fluoro-trans-2-pentene	66702-87-2	40.1923	482.63	0.3800	158.72	482.63	2	317.11	26.763
5121	C5H9F	4-fluoro-cis-2-pentene	66702-89-4	40.0551	482.91	0.3800	157.68	482.91	2	316.79	26.702
5122	C5H9F	4-fluoro-trans-2-pentene	66702-90-7	40.0551	482.91	0.3800	157.68	482.91	2	316.79	26.702
5123	C5H9F	5-fluoro-cis-2-pentene	66702-92-9	40.7349	479.34	0.3800	172.68	479.34	2	317.23	26.980
5124	C5H9F	5-fluoro-trans-2-pentene	66702-93-0	40.7349	479.34	0.3800	172.68	479.34	2	317.23	26.980
5125	C5H9F	cis-1-fluoro-2-methyl-1-butene	66213-72-7	40.1923	482.63	0.3800	158.72	482.63	2	317.11	26.763
5126	C5H9F	trans-1-fluoro-2-methyl-1-butene	66213-74-9	40.1923	482.63	0.3800	158.72	482.63	2	317.11	26.763
5127	C5H9F	3-fluoro-2-methyl-1-butene	53731-24-1	38.7458	472.95	0.3800	147.04	472.95	2	309.19	25.894
5128	C5H9F	4-fluoro-2-methyl-1-butene	66213-81-8	39.4030	469.43	0.3800	162.04	469.43	2	309.63	26.163
5129	C5H9F	cis-1-fluoro-3-methyl-1-butene	66213-73-8	40.0551	482.91	0.3800	157.68	482.91	2	316.79	26.702
5130	C5H9F	trans-1-fluoro-3-methyl-1-butene	66213-75-0	40.0551	482.91	0.3800	157.68	482.91	2	316.79	26.702
5131	C5H9F	2-fluoro-3-methyl-1-butene	66213-78-3	38.7458	472.95	0.3800	147.04	472.95	2	309.19	25.894
5132	C5H9F	3-fluoro-3-methyl-1-butene	66213-80-7	37.6915	473.89	0.3800	178.42	473.89	2	306.52	25.380
5133	C5H9F	4-fluoro-3-methyl-1-butene	66213-82-9	39.2672	469.68	0.3800	161.00	469.68	2	309.31	26.103

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
5134	C5H9F	1-fluoro-2-methyl-cis-2-butene	66213-76-1	40.1923	482.63	0.3800	158.72	482.63	2	317.11	26.763
5135	C5H9F	1-fluoro-2-methyl-trans-2-butene	66213-77-2	40.1923	482.63	0.3800	158.72	482.63	2	317.11	26.763
5136	C5H9F	1-fluoro-3-methyl-2-butene	23425-81-2	40.1923	482.63	0.3800	158.72	482.63	2	317.11	26.763
5137	C5H9F	2-fluoro-3-methyl-2-butene	66213-79-4	39.6600	486.02	0.3800	144.76	486.02	2	316.99	26.549
5138	C5H9F	3-fluoro-2-ethyl-1-propene	---	39.4030	469.43	0.3800	162.04	469.43	2	309.63	26.163
5144	C5H9F3	1,1,1-trifluoropentane	406-82-6	42.9926	464.50	0.3800	244.48	464.50	1,2	320.15	27.575
5147	C5H9I	cis-1-iodo-1-pentene	66703-02-4	54.7040	641.17	0.3800	198.59	641.17	1,2	422.15	36.371
5148	C5H9I	trans-1-iodo-1-pentene	66703-03-5	54.7040	641.17	0.3800	198.59	641.17	1,2	422.15	36.371
5149	C5H9I	2-iodo-1-pentene	66688-59-3	51.7714	614.94	0.3800	187.95	614.94	2	403.50	34.507
5150	C5H9I	3-iodo-1-pentene	66688-61-7	51.6070	615.43	0.3800	186.91	615.43	2	403.18	34.437
5151	C5H9I	4-iodo-1-pentene	59967-14-5	51.6070	615.43	0.3800	186.91	615.43	2	403.18	34.437
5152	C5H9I	5-iodo-1-pentene	7766-48-5	55.1251	640.23	0.3800	201.91	640.23	1,2	423.15	36.547
5153	C5H9I	1-iodo-cis-2-pentene	66703-04-6	53.2039	624.39	0.3800	198.59	624.39	2	411.10	35.374
5154	C5H9I	1-iodo-trans-2-pentene	66688-56-0	53.2039	624.39	0.3800	198.59	624.39	2	411.10	35.374
5155	C5H9I	2-iodo-cis-2-pentene	66688-57-1	52.5063	628.80	0.3800	184.63	628.80	2	410.98	35.096
5156	C5H9I	2-iodo-trans-2-pentene	66688-58-2	52.5063	628.80	0.3800	184.63	628.80	2	410.98	35.096
5157	C5H9I	3-iodo-cis-2-pentene	35895-39-7	52.5063	628.80	0.3800	184.63	628.80	2	410.98	35.096
5158	C5H9I	3-iodo-trans-2-pentene	66688-60-6	52.5063	628.80	0.3800	184.63	628.80	2	410.98	35.096
5159	C5H9I	4-iodo-cis-2-pentene	66688-62-8	52.3408	629.33	0.3800	183.59	629.33	2	410.66	35.026
5160	C5H9I	4-iodo-trans-2-pentene	66688-63-9	52.3408	629.33	0.3800	183.59	629.33	2	410.66	35.026
5161	C5H9I	5-iodo-cis-2-pentene	66688-64-0	53.2039	624.39	0.3800	198.59	624.39	2	411.10	35.374
5162	C5H9I	5-iodo-trans-2-pentene	56399-98-5	53.2039	624.39	0.3800	198.59	624.39	2	411.10	35.374
5163	C5H9I	cis-1-iodo-2-methyl-1-butene	52812-57-4	52.5063	628.80	0.3800	184.63	628.80	2	410.98	35.096
5164	C5H9I	trans-1-iodo-2-methyl-1-butene	66702-95-2	52.5063	628.80	0.3800	184.63	628.80	2	410.98	35.096
5165	C5H9I	3-iodo-2-methyl-1-butene	66703-00-2	51.8532	630.52	0.3800	172.95	630.52	2	410.00	34.786
5166	C5H9I	4-iodo-2-methyl-1-butene	53750-52-0	52.6462	624.84	0.3800	187.95	624.84	2	410.00	35.090
5167	C5H9I	cis-1-iodo-3-methyl-1-butene	64245-25-6	52.3408	629.33	0.3800	183.59	629.33	2	410.66	35.026
5168	C5H9I	trans-1-iodo-3-methyl-1-butene	66702-96-3	52.3408	629.33	0.3800	183.59	629.33	2	410.66	35.026
5169	C5H9I	2-iodo-3-methyl-1-butene	32442-47-0	50.9328	619.84	0.3800	172.95	619.84	2	403.06	34.168
5170	C5H9I	3-iodo-3-methyl-1-butene	59128-91-5	49.6617	622.45	0.3800	204.33	622.45	2	400.39	33.568
5171	C5H9I	4-iodo-3-methyl-1-butene	66703-01-3	51.6070	615.43	0.3800	186.91	615.43	2	403.18	34.437
5172	C5H9I	1-iodo-2-methyl-cis-2-butene	66702-97-4	52.5063	628.80	0.3800	184.63	628.80	2	410.98	35.096
5173	C5H9I	1-iodo-2-methyl-trans-2-butene	66702-98-5	52.5063	628.80	0.3800	184.63	628.80	2	410.98	35.096
5174	C5H9I	1-iodo-3-methyl-2-butene	41004-19-7	52.5063	628.80	0.3800	184.63	628.80	2	410.98	35.096
5175	C5H9I	2-iodo-3-methyl-2-butene	66702-99-6	51.8218	633.35	0.3800	170.67	633.35	2	410.86	34.823
5176	C5H9I	3-iodo-2-ethyl-1-propene	---	51.7714	614.94	0.3800	187.95	614.94	2	403.50	34.507
5182	C5H9I3	1,1,1-triiodopentane	---	78.7537	882.04	0.3800	322.21	882.04	2	589.99	51.744
5183	C5H9N	valeronitrile	110-59-8	56.5400	603.00	0.3580	176.95	603.00	1,2	414.45	37.291
5184	C5H9N	2-methylbutanenitrile	18936-17-9	54.5195	585.80	0.3800	195.60	585.80	1,2	398.55	35.345
5185	C5H9N	3-methylbutanenitrile	625-28-5	55.2500	593.30	0.3800	172.35	593.30	1,2	403.65	35.819
5186	C5H9N	2,2-dimethylpropanenitrile	630-18-2	50.0548	565.78	0.3800	289.15	565.78	1,2	378.75	32.868
5187	C5H9N	butyl isocyanide	2769-64-4	55.2502	579.93	0.3800	215.70	579.93	1,2	397.65	35.590
5188	C5H9N	isobutyl isocyanide	590-94-3	52.3160	563.17	0.3800	200.70	563.17	1,2	383.15	33.916
5189	C5H9N	sec-butyl isocyanide	14069-89-7	52.5805	565.89	0.3800	200.70	565.89	2	385.00	34.088
5190	C5H9N	tert-butyl isocyanide	7188-38-7	48.1038	544.72	0.3800	218.12	544.72	1,2	364.65	31.586
5195	C5H9N	(S)-(+)-2-methylbutyronitrile	25570-03-0	55.7539	586.97	0.3800	298.65	586.97	1,2	398.65	36.196
5197	C5H9NO	butyl isocyanate	111-36-4	56.2455	568.00	0.3880	288.15	568.00	1,2	388.15	36.000
5198	C5H9NO	N-methyl-2-pyrrolidone	872-50-4	63.7494	724.00	0.3320	249.15	724.00	1,2	475.15	44.719
5203	C5H9NO	isobutyl isocyanate	1873-29-6	50.3663	568.00	0.3800	279.15	568.00	1,2	379.15	33.145
5204	C5H9NO	2-isocyanato-2-methylpropane	1609-86-5	68.8805	568.00	0.3800	358.65	568.00	2	444.47	38.576
5245	C5H9NO4	L-glutamic acid	56-86-0	146.2629	886.00	0.3630	497.15	886.00	1,2	670.00	87.624
5269.1	C5H9NS	N-methylthiopyrrolidone	10441-57-3	68.9750	869.00	0.3496	276.00	869.00	1,2	557.00	48.214
5280	C5H10	1,1-dimethylcyclopropane	1630-94-0	35.8982	464.97	0.3800	164.25	464.97	1,2	293.78	24.557
5281	C5H10	1,cis-2-dimethylcyclopropane	930-18-7	38.2000	485.69	0.3800	132.28	485.69	1,2	310.18	25.947
5282	C5H10	1,trans-2-dimethylcyclopropane	2402-06-4	37.0606	471.88	0.3800	123.58	471.88	1,2	301.36	25.173
5283	C5H10	ethylcyclopropane	1191-96-4	38.5981	480.93	0.3800	123.93	480.93	1,2	309.08	26.106
5284	C5H10	methylcyclobutane	598-61-8	37.3007	477.75	0.3800	160.03	477.75	1,2	303.45	25.428
5285	C5H10	cyclopentane	287-92-3	43.6250	511.76	0.4730	280.00	511.76	1,2	322.40	27.259
5286	C5H10	1-pentene	109-67-1	39.5075	464.78	0.4070	107.93	464.78	1,2	303.11	25.705
5287	C5H10	2-pentene; (cis+trans)	109-68-2	39.0209	467.08	0.3800	130.55	467.08	1,2	306.70	25.995
5288	C5H10	cis-2-pentene	627-20-3	40.6300	475.93	0.4040	121.75	475.93	1,2	310.08	26.539
5289	C5H10	trans-2-pentene	646-04-8	39.5396	475.37	0.3890	132.89	475.37	1,2	309.49	26.252
5290	C5H10	2-methyl-1-butene	563-46-2	43.2908	465.00	0.4950	300.00	465.00	1,2	304.30	25.585
5291	C5H10	3-methyl-1-butene	563-45-1	36.3815	450.37	0.3800	104.66	450.37	1,2	293.21	24.386
5292	C5H10	2-methyl-2-butene	513-35-9	39.3800	471.00	0.3660	139.39	471.00	1,2	311.71	26.482
5297	C5H10Br2	1,1-dibromopentane	13320-56-4	65.0140	665.55	0.3800	250.21	665.55	1,2	453.15	42.123
5298	C5H10Br2	1,2-dibromopentane	3234-49-9	65.6136	671.42	0.3800	250.21	671.42	1,2	457.15	42.511
5299	C5H10Br2	1,3-dibromopentane	42474-20-4	66.5135	680.24	0.3800	250.21	680.24	1,2	463.15	43.094
5300	C5H10Br2	1,4-dibromopentane	626-87-9	68.0145	694.92	0.3800	238.73	694.92	1,2	473.15	44.067
5301	C5H10Br2	1,5-dibromopentane	111-24-0	72.5097	722.02	0.3800	233.15	722.02	1,2	495.45	46.679
5302	C5H10Br2	2,2-dibromopentane	54653-26-8	61.4771	661.45	0.3800	267.63	661.45	1,2	443.15	40.343
5303	C5H10Br2	2,3-dibromopentane	5398-25-4	63.7705	668.68	0.3800	235.21	668.68	1,2	451.65	41.583
5304	C5H10Br2	2,4-dibromopentane	19398-53-9	64.2871	673.87	0.3800	235.21	673.87	1,2	455.15	41.920
5305	C5H10Br2	3,3-dibromopentane	54653-27-9	61.0419	656.98	0.3800	267.63	656.98	1,2	440.15	40.057
5306	C5H10Br2	1,1-dibromo-2-methylbutane	62127-58-6	62.8249	659.19	0.3800	235.21	659.19	2	445.24	40.966
5307	C5H10Br2	1,1-dibromo-3-methylbutane	62127-59-7	62.8249	659.19	0.3800	235.21	659.19	2	445.24	40.966
5308	C5H10Br2	1,2-dibromo-2-methylbutane	10428-64-5	61.9123	665.93	0.3800	202.95	665.93	1,2	446.15	40.628
5309	C5H10Br2	1,2-dibromo-3-methylbutane	10288-13-8	62.8249	659.19	0.3800	235.21	659.19	2	445.24	40.966
5310	C5H10Br2	1,3-dibromo-2-methylbutane	49623-50-9	62.8249	659.19	0.3800	235.21	659.19	2	445.24	40.966
5311	C5H10Br2	1,3-dibromo-3-methylbutane	24443-15-0	61.4394	661.07	0.3800	267.63	661.07	2	442.89	40.318

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
5312	C5H10Br2	1,4-dibromo-2-methylbutane	69498-28-8	63.8947	654.58	0.3800	250.21	654.58	2	445.68	41.398
5313	C5H10Br2	2,2-dibromo-3-methylbutane	62127-60-0	60.4217	666.02	0.3800	252.63	666.02	2	442.45	39.907
5314	C5H10Br2	2,3-dibromo-2-methylbutane	594-51-4	62.9431	668.37	0.3800	288.00	668.37	1,2	444.01	41.572
5315	C5H10Br2	1,1-dibromo-2,2-dimethylpropane	2443-91-6	65.0140	665.55	0.3800	287.15	665.55	1,2	453.15	42.123
5316	C5H10Br2	1,3-dibromo-2,2-dimethylpropane	5434-27-5	62.3801	686.65	0.3800	252.63	686.65	1,2	456.15	41.200
5317	C5H10Br2	1,3-dibromo-2-ethylpropane	---	61.4394	661.07	0.3800	267.63	661.07	2	442.89	40.318
5330	C5H10Cl2	1,1-dichloropentane	820-55-3	55.2817	610.24	0.3800	190.45	610.24	1,2	412.95	35.994
5331	C5H10Cl2	1,2-dichloropentane	1674-33-5	56.2919	620.88	0.3800	190.45	620.88	1,2	420.15	36.652
5332	C5H10Cl2	1,3-dichloropentane	30122-12-4	57.4153	632.70	0.3800	190.45	632.70	1,2	428.15	37.383
5333	C5H10Cl2	1,4-dichloropentane	626-92-6	58.3991	643.04	0.3800	190.45	643.04	1,2	435.15	38.024
5334	C5H10Cl2	1,5-dichloropentane	628-76-2	63.3670	663.00	0.3790	200.35	663.00	1,2	453.15	40.974
5335	C5H10Cl2	2,2-dichloropentane	34887-14-4	51.8192	601.15	0.3800	207.87	601.15	1,2	400.15	34.174
5336	C5H10Cl2	2,3-dichloropentane	600-11-3	54.3252	614.06	0.3800	175.45	614.06	1,2	412.15	35.599
5337	C5H10Cl2	2,4-dichloropentane	625-67-2	55.7075	628.96	0.3800	175.45	628.96	1,2	422.15	36.505
5338	C5H10Cl2	3,3-dichloropentane	21571-91-5	52.4984	608.66	0.3800	207.87	608.66	1,2	405.15	34.622
5339	C5H10Cl2	1,1-dichloro-2-methylbutane	23010-05-1	52.6478	595.96	0.3800	175.45	595.96	2	400.00	34.500
5340	C5H10Cl2	1,1-dichloro-3-methylbutane	625-66-1	53.0272	600.06	0.3800	175.45	600.06	1,2	402.75	34.749
5341	C5H10Cl2	1,2-dichloro-2-methylbutane	23010-04-0	53.1576	615.95	0.3800	207.87	615.95	1,2	407.15	35.240
5342	C5H10Cl2	1,2-dichloro-3-methylbutane	600-10-2	54.8779	620.02	0.3800	175.45	620.02	1,2	416.15	35.962
5343	C5H10Cl2	1,3-dichloro-2-methylbutane	23010-07-3	55.1336	622.78	0.3800	175.45	622.78	2	418.00	36.129
5344	C5H10Cl2	1,3-dichloro-3-methylbutane	624-96-4	54.2457	627.97	0.3800	207.87	627.97	1,2	419.85	35.654
5345	C5H10Cl2	1,4-dichloro-2-methylbutane	623-34-7	55.9902	617.70	0.3800	190.45	617.70	1,2	441.65	34.750
5346	C5H10Cl2	2,2-dichloro-3-methylbutane	17773-66-9	53.4265	633.42	0.3800	192.87	633.42	2	418.00	35.462
5347	C5H10Cl2	2,3-dichloro-2-methylbutane	507-45-9	53.4265	633.42	0.3800	192.87	633.42	1,2	402.15	36.432
5348	C5H10Cl2	1,3-dichloro-2-ethylpropane	---	55.9902	617.70	0.3800	190.45	617.70	2	418.00	36.455
5349	C5H10Cl2	1,1-dichloro-2,2-dimethylpropane	29559-54-4	53.4265	633.42	0.3800	192.87	633.42	2	418.00	35.462
5350	C5H10Cl2	1,3-dichloro-2,2-dimethylpropane	29559-55-5	54.4022	629.69	0.3800	207.87	629.69	1,2	419.15	35.877
5351	C5H10Cl2	dichloropentane	30586-10-8	47.5633	622.42	0.3800	303.15	622.42	1,2	403.15	31.996
5358	C5H10F2	1,1-difluoropentane	62127-40-6	46.0193	498.40	0.3800	194.91	498.40	1,2	342.15	29.615
5359	C5H10F2	1,2-difluoropentane	62126-94-7	46.1861	513.80	0.3800	194.91	513.80	1,2	348.15	30.040
5360	C5H10F2	1,3-difluoropentane	62126-95-8	46.8816	521.18	0.3800	194.91	521.18	1,2	353.15	30.492
5361	C5H10F2	1,4-difluoropentane	62126-96-9	47.7168	530.03	0.3800	194.91	530.03	1,2	359.15	31.036
5362	C5H10F2	1,5-difluoropentane	373-17-1	51.2250	554.40	0.3800	209.91	554.40	1,2	378.65	33.104
5363	C5H10F2	2,2-difluoropentane	371-65-3	42.6803	499.35	0.3800	175.05	499.35	1,2	332.85	28.117
5364	C5H10F2	2,3-difluoropentane	66688-46-8	42.9935	491.00	0.3800	179.91	491.00	2	330.00	28.144
5365	C5H10F2	2,4-difluoropentane	66688-47-9	42.9935	491.00	0.3800	179.91	491.00	2	330.00	28.144
5366	C5H10F2	3,3-difluoropentane	358-03-2	42.7610	500.25	0.3800	179.15	500.25	1,2	333.45	28.170
5367	C5H10F2	1,1-difluoro-2-methylbutane	66688-67-3	40.4637	463.41	0.3800	179.91	463.41	2	311.46	26.488
5368	C5H10F2	1,1-difluoro-3-methylbutane	53731-22-9	40.4637	463.41	0.3800	179.91	463.41	2	311.46	26.488
5369	C5H10F2	1,2-difluoro-2-methylbutane	66688-68-4	39.4919	463.73	0.3800	212.33	463.73	2	309.11	26.016
5370	C5H10F2	1,2-difluoro-3-methylbutane	66688-69-5	40.4637	463.41	0.3800	179.91	463.41	2	311.46	26.488
5371	C5H10F2	1,3-difluoro-2-methylbutane	66688-43-5	40.4637	463.41	0.3800	179.91	463.41	2	311.46	26.488
5372	C5H10F2	1,3-difluoro-3-methylbutane	66688-44-6	39.4919	463.73	0.3800	212.33	463.73	2	309.11	26.016
5373	C5H10F2	1,4-difluoro-2-methylbutane	66688-45-7	41.1580	460.30	0.3800	194.91	460.30	2	311.90	26.770
5374	C5H10F2	2,2-difluoro-3-methylbutane	51891-58-8	38.8327	467.07	0.3800	197.33	467.07	2	308.67	25.748
5375	C5H10F2	2,3-difluoro-2-methylbutane	53731-25-2	38.8327	467.07	0.3800	197.33	467.07	2	308.67	25.748
5376	C5H10F2	1,3-difluoro-2-ethylpropane	---	41.1580	460.30	0.3800	194.91	460.30	2	311.90	26.770
5377	C5H10F2	1,1-difluoro-2,2-dimethylpropane	53731-23-0	38.8327	467.07	0.3800	197.33	467.07	2	308.67	25.748
5378	C5H10F2	1,3-difluoro-2,2-dimethylpropane	66688-66-2	39.4919	463.73	0.3800	212.33	463.73	2	309.11	26.016
5380	C5H10I2	1,1-diiodopentane	66688-35-5	66.7891	744.50	0.3800	246.73	744.50	2	499.64	43.771
5381	C5H10I2	1,2-diiodopentane	998-76-5	66.7891	744.50	0.3800	246.73	744.50	2	499.64	43.771
5382	C5H10I2	1,3-diiodopentane	66688-36-6	66.7891	744.50	0.3800	246.73	744.50	2	499.64	43.771
5383	C5H10I2	1,4-diiodopentane	55930-45-5	66.7891	744.50	0.3800	246.73	744.50	2	499.64	43.771
5384	C5H10I2	1,5-diiodopentane	628-77-3	67.8868	739.07	0.3800	282.15	739.07	2	500.08	44.205
5385	C5H10I2	2,2-diiodopentane	66688-37-7	64.3470	752.99	0.3800	264.15	752.99	2	496.85	42.714
5386	C5H10I2	2,3-diiodopentane	66688-38-8	65.7152	750.13	0.3800	231.73	750.13	2	499.20	43.345
5387	C5H10I2	2,4-diiodopentane	66719-29-7	65.7152	750.13	0.3800	231.73	750.13	2	499.20	43.345
5388	C5H10I2	3,3-diiodopentane	66688-39-9	64.3470	752.99	0.3800	264.15	752.99	2	496.85	42.714
5389	C5H10I2	1,1-diiodo-2-methylbutane	66688-50-4	65.7152	750.13	0.3800	231.73	750.13	2	499.20	43.345
5390	C5H10I2	1,1-diiodo-3-methylbutane	66688-51-5	65.7152	750.13	0.3800	231.73	750.13	2	499.20	43.345
5391	C5H10I2	1,2-diiodo-2-methylbutane	66688-52-6	64.3470	752.99	0.3800	264.15	752.99	2	496.85	42.714
5392	C5H10I2	1,2-diiodo-3-methylbutane	66688-53-7	65.7152	750.13	0.3800	231.73	750.13	2	499.20	43.345
5393	C5H10I2	1,3-diiodo-2-methylbutane	66688-54-8	65.7152	750.13	0.3800	231.73	750.13	2	499.20	43.345
5394	C5H10I2	1,3-diiodo-3-methylbutane	66688-55-9	64.3470	752.99	0.3800	264.15	752.99	2	496.85	42.714
5395	C5H10I2	1,4-diiodo-2-methylbutane	66688-32-2	66.7891	744.50	0.3800	246.73	744.50	2	499.64	43.771
5396	C5H10I2	2,2-diiodo-3-methylbutane	66688-33-3	63.3250	759.04	0.3800	249.15	759.04	2	496.41	42.308
5397	C5H10I2	2,3-diiodo-2-methylbutane	66688-34-4	63.3250	759.04	0.3800	249.15	759.04	2	496.41	42.308
5398	C5H10I2	1,3-diiodo-2-ethylpropane	---	66.7891	744.50	0.3800	246.73	744.50	2	499.64	43.771
5399	C5H10I2	1,1-diiodo-2,2-dimethylpropane	2443-89-2	63.3250	759.04	0.3800	249.15	759.04	2	496.41	42.308
5400	C5H10I2	1,3-diiodo-2,2-dimethylpropane	66688-49-1	64.3470	752.99	0.3800	264.15	752.99	2	496.85	42.714
5445	C5H10O	pentanal	110-62-3	52.7380	554.00	0.3740	182.00	554.00	1,2	376.15	34.480
5446	C5H10O	2-methylbutanal	96-17-3	49.5350	543.73	0.3800	172.61	543.73	1,2	365.15	32.446
5447	C5H10O	3-methylbutanal	590-86-3	49.6203	544.62	0.3800	168.15	544.62	1,2	365.75	32.502
5448	C5H10O	2,2-dimethylpropanal	630-19-3	45.4930	525.74	0.3800	267.15	525.74	1,2	347.15	30.183
5449	C5H10O	2-methylbutanal, (±)	57456-98-1	52.1047	542.02	0.3800	265.65	542.02	1,2	365.65	34.009
5450	C5H10O	methyl propyl ketone	107-87-9	51.6928	561.08	0.3930	196.29	561.08	1,2	375.46	33.468
5451	C5H10O	diethyl ketone	96-22-0	49.6400	560.95	0.3540	234.18	560.95	1,2	375.14	33.571
5452	C5H10O	methyl isopropyl ketone	563-80-4	51.4112	553.00	0.3860	250.00	553.00	1,2	367.55	33.721
5453	C5H10O	2-methyltetrahydrofuran	96-47-9	45.7503	537.00	0.3800	136.15	537.00	1,2	353.37	30.430
5454	C5H10O	3-methyltetrahydrofuran	13423-15-9	52.6863	639.01	0.3800	159.55	639.01	1,2	411.15	35.606

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
5455	C5H10O	allyl ethyl ether	557-31-3	47.5803	505.58	0.3800	240.75	505.58	1,2	340.75	31.078
5456	C5H10O	isopropyl vinyl ether	926-65-8	40.8528	505.58	0.3800	133.15	505.58	1,2	328.65	27.412
5457	C5H10O	3-methoxy-2-methyl-1-propene	22418-49-1	47.2121	505.58	0.3800	240.15	505.58	1,2	340.15	30.880
5458	C5H10O	propyl vinyl ether	764-47-6	46.0130	505.58	0.3800	238.15	505.58	1,2	338.15	30.234
5461	C5H10O	2-methyl-3-buten-2-ol	115-18-4	46.8314	573.00	0.3800	245.15	573.00	1,2	370.15	31.562
5462	C5H10O	3-methyl-2-buten-1-ol	556-82-1	57.8378	573.00	0.3800	313.15	573.00	1,2	413.15	35.606
5463	C5H10O	3-methyl-3-buten-2-ol	10473-14-0	50.8605	573.00	0.3800	287.15	573.00	1,2	387.15	33.156
5464	C5H10O	1-penten-3-ol	616-25-1	51.1093	573.00	0.3800	288.15	573.00	1,2	388.15	33.250
5465	C5H10O	3-penten-2-ol, (±)	42569-16-4	52.7877	573.00	0.3800	294.75	573.00	1,2	394.75	33.871
5466	C5H10O	4-penten-1-ol	821-09-0	58.1298	573.00	0.3800	314.15	573.00	1,2	414.15	35.701
5467	C5H10O	4-penten-2-ol	625-31-0	51.3596	573.00	0.3800	289.15	573.00	1,2	389.15	33.344
5468	C5H10O	cis-2-penten-1-ol	1576-95-0	57.2597	573.00	0.3800	311.15	573.00	1,2	411.15	35.417
5469	C5H10O	trans-2-penten-1-ol	1576-96-1	57.2597	573.00	0.3800	311.15	573.00	1,2	411.15	35.417
5476	C5H10O	ethyl propenyl ether	928-55-2	49.0935	505.58	0.3800	243.15	505.58	1,2	343.15	31.888
5477	C5H10O	2-methyl-3-buten-1-ol	4516-90-9	52.5035	573.00	0.3800	293.65	573.00	1,2	393.65	33.767
5478	C5H10O	3-methyl-3-buten-1-ol	763-32-6	55.2673	573.00	0.3800	304.05	573.00	1,2	404.05	34.747
5481	C5H10O	3-penten-2-ol	3899-34-1	52.3749	573.00	0.3800	293.15	573.00	1,2	393.15	33.720
5482	C5H10O	pent-3-en-2-ol	1569-50-2	52.5938	573.00	0.3800	294.00	573.00	1,2	394.00	33.800
5492	C5H10O2	pentanoic acid	109-52-4	81.0000	651.00	0.4200	239.15	651.00	1,2	458.65	48.540
5493	C5H10O2	2-methylbutyric acid	116-53-0	74.7730	643.00	0.3930	193.00	643.00	1,2	450.15	46.581
5494	C5H10O2	3-methylbutanoic acid	503-74-2	68.9106	634.00	0.3800	243.85	634.00	1,2	448.25	43.220
5495	C5H10O2	2,2-dimethylpropanoic acid	75-98-9	64.2105	632.16	0.3800	308.82	632.16	1,2	436.95	41.085
5496	C5H10O2	2-methylbutanoic acid	600-07-7	62.0699	640.04	0.3800	350.15	640.04	1,2	450.15	39.116
5497	C5H10O2	butyl formate	592-84-7	55.3583	559.00	0.3800	181.25	559.00	1,2	379.25	35.970
5498	C5H10O2	isobutyl formate	542-55-2	56.0249	551.35	0.4470	177.35	551.35	1,2	371.22	33.979
5499	C5H10O2	sec-butyl formate	589-40-2	47.4834	547.00	0.3800	189.31	547.00	1,2	363.55	31.350
5500	C5H10O2	tert-butyl formate	762-75-4	46.5217	533.00	0.3800	206.73	533.00	1,2	355.95	30.604
5501	C5H10O2	propyl acetate	109-60-4	55.0700	549.40	0.4090	178.15	549.40	1,2	374.65	34.471
5502	C5H10O2	isopropyl acetate	108-21-4	52.3547	538.00	0.4350	199.75	538.00	1,2	361.65	32.228
5503	C5H10O2	ethyl propanoate	105-37-3	52.7079	546.00	0.3970	199.25	546.00	1,2	372.25	33.455
5504	C5H10O2	methyl butanoate	623-42-7	51.9150	554.50	0.3920	187.35	554.50	1,2	375.90	33.298
5505	C5H10O2	methyl isobutanoate	547-63-7	46.8676	554.50	0.3800	188.45	554.50	1,2	365.65	31.125
5506	C5H10O2	tetrahydrofurfuryl alcohol	97-99-4	83.7490	639.00	0.4200	351.15	639.00	1,2	451.15	50.081
5530	C5H10O2	(S)-(+)-2-methylbutyric acid	1730-91-2	50.1645	640.04	0.3800	309.77	640.04	2	409.77	34.016
5537	C5H10O2S	3-methyl sulfolane	872-93-5	80.8320	817.00	0.3810	273.65	817.00	1,2	549.15	52.851
5543	C5H10O3	diethyl carbonate	105-58-8	59.3000	576.00	0.3760	230.15	576.00	1,2	399.95	37.975
5544	C5H10O3	ethyl lactate	97-64-3	80.2287	588.00	0.4090	247.15	588.00	1,2	427.65	47.155
5593	C5H10S	thiacyclohexane	1613-51-0	52.5705	657.12	0.3800	292.14	657.12	1,2	414.90	35.978
5594	C5H10S	2,2,3-trimethylthiacyclopropane	53971-47-4	45.3894	569.72	0.3800	266.66	569.72	2	363.94	30.824
5595	C5H10S	2-methylthiacyclopentane	1795-09-1	51.0306	637.00	0.3800	172.44	637.00	1,2	405.63	34.729
5596	C5H10S	3-methylthiacyclopentane	4740-00-5	51.8035	646.20	0.3800	191.99	646.20	1,2	411.49	35.255
5597	C5H10S	cyclopentanethiol	1679-07-8	52.3276	629.00	0.3800	155.39	629.00	1,2	405.33	35.326
5603	C5H11Br	1-bromopentane	110-53-2	55.4101	564.76	0.3800	185.26	564.76	1,2	402.74	34.476
5604	C5H11Br	2-bromopentane	107-81-3	52.3601	585.36	0.3800	177.65	585.36	1,2	390.55	34.469
5605	C5H11Br	3-bromopentane	1809-10-5	52.5285	587.16	0.3800	146.95	587.16	1,2	391.75	34.580
5606	C5H11Br	1-bromo-2-methylbutane	10422-35-2	52.7953	590.01	0.3800	190.41	590.01	1,2	393.65	34.756
5607	C5H11Br	1-bromo-3-methylbutane	107-82-4	52.7813	589.86	0.3800	161.15	589.86	1,2	393.55	34.747
5608	C5H11Br	2-bromo-2-methylbutane	507-36-8	49.4381	581.23	0.3800	207.83	581.23	1,2	381.15	32.966
5609	C5H11Br	2-bromo-3-methylbutane	18295-25-5	51.2634	587.23	0.3800	175.41	587.23	1,2	388.45	33.966
5610	C5H11Br	1-bromo-2,2-dimethylpropane	630-17-1	49.1663	578.18	0.3800	207.83	578.18	1,2	379.15	32.785
5611	C5H11Br	1-bromo-2-methylbutane, (S)	534-00-9	57.3192	582.97	0.3800	294.75	582.97	1,2	394.75	37.302
5620	C5H11Cl	1-chloropentane	543-59-9	54.2390	568.00	0.4570	320.00	568.00	1,2	381.54	32.601
5621	C5H11Cl	2-chloropentane	625-29-6	47.8849	555.88	0.3800	136.15	555.88	1,2	369.67	31.601
5622	C5H11Cl	3-chloropentane	616-20-6	48.0574	557.79	0.3800	168.15	557.79	1,2	370.94	31.715
5623	C5H11Cl	1-chloro-2-methylbutane	616-13-7	48.4311	561.92	0.3800	160.53	561.92	1,2	373.69	31.962
5624	C5H11Cl	1-chloro-3-methylbutane	107-84-6	48.2723	558.87	0.3800	168.76	558.87	1,2	371.66	31.857
5625	C5H11Cl	2-chloro-2-methylbutane	594-36-5	44.3088	548.97	0.3800	199.66	548.97	1,2	358.76	29.619
5626	C5H11Cl	2-chloro-3-methylbutane	631-65-2	46.6598	555.08	0.3800	145.53	555.08	1,2	365.95	30.992
5627	C5H11Cl	1-chloro-2,2-dimethylpropane	753-89-9	44.7951	546.97	0.3800	253.15	546.97	1,2	357.45	29.944
5628	C5H11Cl	1-chloro-2-methylbutane, (±)	114180-21-1	49.7786	556.69	0.3800	273.05	556.69	1,2	373.05	32.660
5629	C5H11Cl	2-chloropentane, (+)	29882-57-3	48.1335	556.69	0.3800	136.15	556.69	1,2	370.15	31.769
5649	C5H11F	1-fluoropentane	592-50-7	44.3269	496.70	0.3800	153.15	496.70	1,2	335.95	28.873
5650	C5H11F	2-fluoropentane	590-87-4	42.2820	493.55	0.3800	162.76	493.55	1,2	328.45	27.889
5651	C5H11F	3-fluoropentane	41909-29-9	41.9714	490.09	0.3800	162.76	490.09	1,2	326.15	27.684
5652	C5H11F	1-fluoro-2-methylbutane	10086-64-3	42.3630	494.45	0.3800	162.76	494.45	1,2	329.05	27.942
5653	C5H11F	1-fluoro-3-methylbutane	407-06-7	42.0389	490.84	0.3800	162.76	490.84	1,2	326.65	27.729
5654	C5H11F	2-fluoro-2-methylbutane	661-53-0	39.5962	486.17	0.3800	152.15	486.17	1,2	317.95	26.455
5655	C5H11F	2-fluoro-3-methylbutane	62108-95-6	40.6672	486.77	0.3800	147.76	486.77	1,2	321.15	26.998
5656	C5H11F	1-fluoro-2,2-dimethylpropane	59006-05-2	38.9688	478.83	0.3800	180.18	478.83	1,2	313.15	26.036
5660	C5H11I	1-iodopentane	628-17-1	69.3720	601.41	0.3800	187.55	601.41	1,2	430.15	43.042
5661	C5H11I	2-iodopentane	637-97-8	65.9344	585.69	0.3800	188.67	585.69	1,2	416.15	41.164
5662	C5H11I	3-iodopentane	1809-05-8	66.2647	588.50	0.3800	188.67	588.50	1,2	418.15	41.371
5663	C5H11I	1-iodo-2-methylbutane	29394-58-9	66.4298	589.91	0.3800	188.67	589.91	1,2	419.15	41.474
5664	C5H11I	1-iodo-3-methylbutane	541-28-6	66.7932	593.01	0.3800	188.67	593.01	1,2	421.35	41.700
5665	C5H11I	2-iodo-2-methylbutane	594-38-7	61.5164	573.79	0.3800	206.09	573.79	1,2	402.15	38.888
5666	C5H11I	2-iodo-3-methylbutane	18295-27-7	64.3795	585.43	0.3800	173.67	585.43	1,2	413.15	40.446
5667	C5H11I	1-iodo-2,2-dimethylpropane	15501-33-4	62.3143	580.92	0.3800	206.09	580.92	1,2	407.15	39.393
5668	C5H11I	2-iodopentane, (±)	52152-72-4	56.5090	587.33	0.3800	313.15	587.33	1,2	413.15	35.606
5669	C5H11N	N-methylpyrrolidine	120-94-5	43.9660	550.00	0.3710	183.15	550.00	1,2	352.30	30.079
5670	C5H11N	piperidine	110-89-4	50.1202	594.05	0.3940	262.65	594.05	1,2	379.55	33.551

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
5673	C5H11N	2-methylpyrrolidine	765-38-8	55.1869	550.00	0.3800	271.15	550.00	1,2	371.15	36.012
5674	C5H11N	3-methylpyrrolidine	34375-89-8	50.7680	550.00	0.3800	170.40	550.00	2	364.05	33.622
5675	C5H11NO	tert-butylformamide	2425-74-3	70.7449	692.00	0.3840	289.15	692.00	1,2	475.15	45.308
5676	C5H11NO	N,N-diethylformamide	617-84-5	56.1028	692.00	0.3800	350.65	692.00	1,2	450.65	37.597
5696	C5H11NO2	1-nitropentane	628-05-7	64.8415	641.43	0.3800	289.22	641.43	1,2	445.75	41.297
5697	C5H11NO2	2-nitropentane	4609-89-6	60.2676	611.00	0.3800	274.22	611.00	1,2	425.15	38.342
5698	C5H11NO2	3-nitropentane	551-88-2	60.2676	611.00	0.3800	274.22	611.00	1,2	425.15	38.342
5699	C5H11NO2	1-nitro-2-methylbutane	3457-57-6	61.5495	628.00	0.3800	274.22	628.00	1,2	435.15	39.299
5700	C5H11NO2	1-nitro-3-methylbutane	627-67-8	61.8584	630.00	0.3800	274.22	630.00	1,2	436.75	39.480
5701	C5H11NO2	2-nitro-2-methylbutane	595-42-6	58.7034	615.00	0.3800	235.15	615.00	1,2	422.95	37.721
5702	C5H11NO2	2-nitro-3-methylbutane	2625-35-6	59.4912	614.00	0.3800	259.22	614.00	1,2	424.15	38.084
5703	C5H11NO2	1-nitro-2,2-dimethylpropane	34715-98-5	58.8567	614.00	0.3800	287.15	614.00	1,2	423.65	37.716
5772	C5H12	pentane	109-66-0	39.8543	469.65	0.3980	143.42	469.65	1,2	309.22	25.990
5773	C5H12	isopentane	78-78-4	37.6920	460.43	0.3950	113.25	460.43	1,2	300.99	24.793
5774	C5H12	neopentane	463-82-1	34.0604	433.78	0.3830	256.58	433.78	1,2	282.65	22.744
5831	C5H12O	1-pentanol	71-41-0	83.9720	586.15	0.5350	195.56	586.15	1,2	410.95	43.552
5832	C5H12O	2-pentanol	6032-29-7	81.3060	552.00	0.5370	200.00	552.00	1,2	392.15	39.805
5833	C5H12O	3-pentanol	584-02-1	84.9540	547.00	0.6030	300.00	547.00	1,2	388.45	30.041
5834	C5H12O	2-methyl-1-butanol	137-32-6	79.5300	565.00	0.4630	203.00	565.00	1,2	401.85	44.747
5835	C5H12O	2-methyl-1-butanol, (±)	34713-94-5	55.2828	562.34	0.3800	300.65	562.34	1,2	400.65	34.426
5836	C5H12O	3-methyl-2-butanol, (±)	70116-68-6	59.2824	562.34	0.3800	286.05	562.34	1,2	386.05	38.150
5837	C5H12O	3-methyl-1-butanol	123-51-3	79.8545	579.45	0.5010	155.95	579.45	1,2	404.35	45.775
5838	C5H12O	tert-pentyl-alcohol	75-85-4	82.3100	545.15	0.6250	264.35	545.15	1,2	375.15	37.752
5839	C5H12O	3-methyl-2-butanol	598-75-4	87.0970	574.00	0.6330	188.00	574.00	1,2	384.65	43.205
5840	C5H12O	2,2-dimethyl-1-propanol	75-84-3	72.2850	550.00	0.4610	327.15	550.00	1,2	386.25	41.350
5841	C5H12O	methyl butyl ether	628-28-4	47.1996	502.00	0.3800	158.15	502.00	1,2	343.35	30.468
5842	C5H12O	methyl isobutyl ether	625-44-5	42.6803	497.00	0.3800	150.00	497.00	1,2	331.70	28.090
5843	C5H12O	methyl sec-butyl ether	6795-87-5	43.7696	498.00	0.3780	150.00	498.00	1,2	332.15	28.885
5844	C5H12O	methyl tert-butyl ether	1634-04-4	45.0276	497.10	0.4340	300.00	497.10	1,2	328.35	28.174
5845	C5H12O	ethyl propyl ether	628-32-0	42.2082	500.23	0.3800	145.65	500.23	1,2	337.01	35.522
5846	C5H12O	ethyl isopropyl ether	625-54-7	42.3383	489.58	0.3800	152.84	489.58	1,2	326.15	27.904
5847	C5H12O	sec-butyl methyl ether	116783-23-4	44.0995	497.32	0.3800	232.25	497.32	1,2	332.25	29.002
5848	C5H12O	sec-butyl methyl ether (d)	66610-39-7	45.0293	497.32	0.3800	233.85	497.32	1,2	333.85	29.504
5849	C5H12O	(S)-(-)-2-methyl-1-butanol	1565-80-6	55.3954	562.34	0.3800	203.25	562.34	1,2	401.05	34.464
5850	C5H12O	(S)-(+)-2-pentanol	26184-62-3	63.4808	562.34	0.3800	223.25	562.34	1,2	391.65	40.354
5851	C5H12O	pentanol	30899-19-5	55.9918	562.34	0.3800	194.25	562.34	1,2	403.15	34.662
5852	C5H12O	(R)-(-)-2-pentanol	31087-44-2	54.2958	562.34	0.3800	297.10	562.34	1,2	397.10	34.092
5853	C5H12O	(S)-3-methyl-2-butanol	1517-66-4	50.4314	562.34	0.3800	272.19	562.34	2	372.19	33.401
5857	C5H12O2	ethylene glycol monopropyl ether	2807-30-9	68.9508	582.00	0.3800	183.15	582.00	1,2	424.50	41.960
5858	C5H12O2	neopentyl glycol	126-30-7	104.1179	643.00	0.3710	400.00	643.00	1,2	483.00	62.145
5859	C5H12O2	1,2-pentanediol	5343-92-0	95.5941	637.98	0.3800	252.25	637.98	1,2	482.15	55.951
5860	C5H12O2	1,2-pentanediol, (±)	91049-43-3	72.7069	633.16	0.3800	382.15	633.16	1,2	482.15	42.172
5861	C5H12O2	1,3-pentanediol	3174-67-2	98.0596	653.86	0.3800	252.25	653.86	2	494.15	57.394
5862	C5H12O2	1,4-pentanediol	626-95-9	69.3400	657.63	0.1540	252.25	657.63	2	497.00	79.397
5863	C5H12O2	1,5-pentanediol	111-29-5	85.8000	673.00	0.2038	500.00	673.00	1,2	512.15	107.963
5864	C5H12O2	2,3-pentanediol	42027-23-6	65.7522	633.16	0.3800	360.65	633.16	1,2	460.65	40.117
5865	C5H12O2	2,4-pentanediol	625-69-4	69.3467	633.16	0.3800	372.15	633.16	1,2	472.15	41.215
5866	C5H12O2	DL-erythro-2,3-pentanediol	61828-35-1	92.6142	631.58	0.3800	237.25	631.58	2	475.00	54.514
5867	C5H12O2	DL-threo-2,3-pentanediol	61828-36-2	92.6142	631.58	0.3800	237.25	631.58	2	475.00	54.514
5868	C5H12O2	DL-2,4-pentanediol	1825-14-5	92.4425	630.45	0.3800	322.15	630.45	1,2	474.15	54.413
5869	C5H12O2	meso-2,4-pentanediol	3950-21-8	92.4425	630.45	0.3800	322.15	630.45	1,2	474.15	54.413
5870	C5H12O2	2-methyl-1,2-butanediol	41051-72-3	88.4548	617.54	0.3800	269.67	617.54	1,2	462.15	52.361
5871	C5H12O2	2-methyl-1,3-butanediol	684-84-4	90.1202	615.15	0.3800	237.25	615.15	1,2	473.15	51.628
5872	C5H12O2	2-methyl-1,4-butanediol	2938-98-9	90.2211	615.82	0.3800	237.25	615.82	1,2	463.15	53.106
5873	C5H12O2	2-methyl-2,3-butanediol	5396-58-7	84.0895	600.61	0.3800	254.67	600.61	1,2	447.15	50.067
5874	C5H12O2	3-methyl-1,2-butanediol	50468-22-9	92.2405	629.12	0.3800	237.25	629.12	1,2	473.15	54.294
5875	C5H12O2	3-methyl-1,3-butanediol	2568-33-4	90.3946	632.01	0.3800	271.04	632.01	1,2	472.15	53.616
5876	C5H12O2	2-ethyl-1,3-propanediol	2612-29-5	92.6952	630.78	0.3800	235.88	630.78	2	475.20	54.456
5881	C5H12O2	1-ethoxy-2-propanol	1569-02-4	63.3489	582.00	0.3800	304.15	582.00	1,2	404.15	40.373
5882	C5H12O2	2-ethoxy-1-propanol	19089-47-5	57.1228	582.00	0.3800	313.65	582.00	1,2	413.65	35.653
5883	C5H12O2	2-isopropoxyethanol	109-59-1	58.4027	582.00	0.3800	318.15	582.00	1,2	418.15	36.079
5884	C5H12O2	3-methoxy-1-butanol	2517-43-3	62.0091	582.00	0.3800	330.15	582.00	1,2	430.15	37.215
5886	C5H12O2	3-ethoxy-1-propanol	111-35-3	58.9399	582.00	0.3800	433.65	582.00	1,2	420.00	36.254
5887	C5H12O2	1-methoxy-2-butanol	53778-73-7	65.6699	582.00	0.3800	307.15	582.00	1,2	407.15	41.582
5888	C5H12O2	(R,R)-(-)-2,4-pentanediol	42075-32-1	60.9839	633.16	0.3800	323.15	633.16	2	444.01	38.532
5889	C5H12O2	(2S,4S)-(+)-pentanediol	72345-23-4	60.9839	633.16	0.3800	319.65	633.16	2	444.01	38.532
5890	C5H12O2	ethyl ether of propylene glycol	52125-53-8	66.5818	582.00	0.3800	344.01	582.00	2	444.01	38.532
5899	C5H12O3	2-(2-methoxyethoxy)ethanol	111-77-3	85.7463	630.00	0.4550	197.15	630.00	1,2	466.75	46.384
5912	C5H12O4	pentaerythritol	115-77-5	196.5832	780.00	0.3800	534.15	780.00	1,2	631.00	104.800
5921	C5H12S	pentyl mercaptan	110-66-7	53.5782	598.00	0.3810	197.45	598.00	1,2	399.79	35.178
5922	C5H12S	2-pentanethiol	2084-19-7	50.1419	580.00	0.3800	160.75	580.00	1,2	385.55	33.101
5923	C5H12S	3-pentanethiol	616-31-9	50.7441	580.00	0.3800	162.35	580.00	1,2	387.05	33.400
5924	C5H12S	2-methyl-1-butanethiol	1878-18-8	51.1496	591.00	0.3800	167.07	591.00	1,2	392.15	33.813
5925	C5H12S	3-methyl-1-butanethiol	541-31-1	48.8254	604.00	0.3800	139.64	604.00	1,2	391.50	32.829
5926	C5H12S	2-methyl-2-butanethiol	1679-09-0	47.1430	566.00	0.3800	169.38	566.00	1,2	372.28	31.367
5927	C5H12S	3-methyl-2-butanethiol	2084-18-6	49.2754	579.00	0.3800	149.33	579.00	1,2	382.91	32.655
5928	C5H12S	2,2-dimethyl-1-propanethiol	1679-08-9	48.4227	570.00	0.3800	206.15	570.00	1,2	376.83	32.098
5929	C5H12S	2-methyl-1-butanethiol, (+)	20089-07-0	53.2108	583.50	0.3800	292.25	583.50	1,2	392.25	34.827
5930	C5H12S	methyl butyl sulfide	628-29-5	52.3468	591.00	0.3800	175.33	591.00	1,2	396.58	34.309
5931	C5H12S	ethyl propyl sulfide	4110-50-3	52.9601	584.00	0.3800	156.15	584.00	1,2	391.65	34.727

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
5932	C5H12S	3-methyl-2-thiapentane	10359-64-5	49.1463	585.00	0.3800	165.01	585.00	1,2	385.15	32.677
5933	C5H12S	4-methyl-2-thiapentane	5008-69-5	49.3371	585.00	0.3800	164.05	585.00	1,2	385.65	32.772
5934	C5H12S	2-methyl-3-thiapentane	5145-99-3	47.4344	585.00	0.3800	150.96	585.00	1,2	380.53	31.814
5935	C5H12S	3,3-dimethyl-2-thiabutane	6163-64-0	44.5147	585.00	0.3800	190.83	585.00	1,2	372.05	30.320
5937	C5H12S2	1,3-bis(methylthio)propane	24949-35-7	29.7253	657.50	0.3800	264.15	657.50	1,2	364.15	21.874
5938	C5H12S2	1,1'-[methylenebis(thio)]bisethane	4396-19-4	51.0465	657.50	0.3800	326.65	657.50	2	426.65	34.295
5947	C5H13N	pentylamine	110-58-7	54.9925	555.00	0.3970	218.15	555.00	1,2	377.65	34.963
5948	C5H13N	1-methylbutylamine	625-30-9	50.2573	534.90	0.3800	213.87	534.90	1,2	364.85	32.514
5949	C5H13N	2-methylbutylamine	96-15-1	50.7380	542.60	0.3800	213.87	542.60	1,2	368.65	32.930
5950	C5H13N	3-methylbutylamine	107-85-7	50.9349	544.90	0.3800	213.87	544.90	1,2	370.15	33.062
5951	C5H13N	1,1-dimethylpropylamine	594-39-8	47.2303	519.30	0.3800	231.29	519.30	1,2	350.15	30.839
5952	C5H13N	1,2-dimethylpropylamine	598-74-3	48.5080	527.40	0.3800	198.87	527.40	1,2	357.15	31.566
5953	C5H13N	2,2-dimethylpropylamine	5813-64-9	47.2846	517.10	0.3800	231.29	517.10	1,2	350.15	30.771
5954	C5H13N	3-pentanamine	616-24-0	54.5257	525.16	0.3800	262.15	525.16	1,2	362.15	34.957
5955	C5H13N	methyl-butylamine	110-68-9	50.7379	531.80	0.3800	198.15	531.80	1,2	364.25	32.713
5956	C5H13N	methylisobutylamine	14610-37-8	47.7537	515.20	0.3800	183.27	515.20	1,2	350.15	30.985
5957	C5H13N	methyl-sec-butylamine	7713-69-1	47.8178	519.90	0.3800	183.27	519.90	1,2	351.65	31.146
5958	C5H13N	methyl-tert-butylamine	625-43-4	46.5929	513.20	0.3800	200.69	513.20	1,2	346.15	30.415
5959	C5H13N	ethylpropylamine	20193-20-8	47.9780	520.00	0.3800	198.27	520.00	1,2	353.45	31.128
5960	C5H13N	ethylisopropylamine	19961-27-4	47.5962	513.80	0.3800	183.27	513.80	1,2	349.15	30.886
5961	C5H13N	methyldiethylamine	616-39-7	44.8829	507.56	0.3800	178.08	507.56	1,2	339.15	29.513
5962	C5H13N	dimethyl-propylamine	926-63-6	40.9703	528.00	0.3800	178.08	528.00	1,2	339.15	27.720
5963	C5H13N	dimethylisopropylamine	996-35-6	44.1912	511.91	0.3800	163.08	511.91	1,2	339.15	29.246
5964	C5H13N	(S)-(-)-2-methylbutylamine	20626-52-2	49.1580	525.16	0.3800	254.02	525.16	2	354.02	32.104
5965	C5H13N	N,N-dimethyl-2-propanamine	996-35-0	41.0928	525.16	0.3800	239.18	525.16	1,2	339.18	27.699
5966	C5H13NO	2-amino-3-methyl-1-butanol, (±)	16369-05-4	69.2679	626.41	0.3800	335.30	626.41	2	435.30	44.118
5967	C5H13NO	2-amino-3-pentanol	116836-16-9	61.6184	626.41	0.3800	344.15	626.41	1,2	444.15	38.545
5968	C5H13NO	5-amino-1-pentanol	2508-29-4	78.4298	626.41	0.3800	311.65	626.41	1,2	494.65	43.370
5969	C5H13NO	1-(dimethylamino)-2-propanol	108-16-7	47.0644	626.41	0.3800	297.65	626.41	1,2	397.65	32.096
5970	C5H13NO	2-(dimethylamino)-1-propanol	15521-18-3	60.9544	626.41	0.3800	323.45	626.41	1,2	423.45	39.720
5971	C5H13NO	3-(dimethylamino)-1-propanol	3179-63-3	70.3148	626.41	0.3800	336.65	626.41	1,2	436.65	44.664
5973	C5H13NO	2-(isopropylamino)ethanol	109-56-8	62.1827	626.41	0.3800	401.65	626.41	1,2	446.15	38.735
5975	C5H13NO	2-(propylamino)ethanol	16369-21-4	64.8075	626.41	0.3800	355.15	626.41	1,2	455.15	39.592
5976	C5H13NO	(S)-(+)-2-amino-3-methyl-1-butanol	2026-48-4	69.2679	626.41	0.3800	304.15	626.41	2	435.30	44.118
5977	C5H13NO	(R)-(-)-2-amino-3-methyl-1-butanol	4276-09-9	67.1107	626.41	0.3800	307.15	626.41	1,2	462.65	40.307
5978	C5H13NO	2-amino-3-methyl-1-butanol	473-75-6	69.2679	626.41	0.3800	335.30	626.41	2	435.30	44.118
5979	C5H13NO	DL-2-amino-1-pentanol	4146-04-7	68.7104	626.41	0.3800	367.65	626.41	1,2	467.65	40.785
5980	C5H13NO	(S)-(+)-1-dimethylamino-2-propanol	53636-17-2	46.8396	626.41	0.3800	297.15	626.41	1,2	397.15	31.969
5986	C5H13NO2	methyl diethanolamine	105-59-9	124.4000	678.00	0.3960	252.15	678.00	1,2	520.15	69.849
5987	C5H13NO2	2-amino-2-ethyl-1,3-propanediol	115-70-8	61.4096	678.00	0.3800	310.65	678.00	2	449.90	40.594
6009	C5H14N2	1,5-pentanediamine	462-94-2	62.8379	637.67	0.3800	282.15	637.67	1,2	452.15	39.306
6010	C5H14N2	N,N,N',N'-tetramethylmethanediamine	51-80-9	31.6579	637.67	0.3800	256.15	637.67	1,2	356.15	23.203
6011	C5H14N2	1,3-diaminopentane	589-37-7	67.1758	637.67	0.3800	152.25	637.67	1,2	437.15	43.280
6012	C5H14N2	3-dimethylamino-1-propylamine	109-55-7	49.5253	637.67	0.3800	213.25	637.67	1,2	406.65	33.672
6013	C5H14N2	N,N'-dimethyl-1,3-propanediamine	111-33-1	55.3381	637.67	0.3800	318.15	637.67	1,2	418.15	36.901
6014	C5H14N2	2,2-dimethyl-1,3-propanediamine	7328-91-8	59.9400	637.67	0.3800	303.15	637.67	1,2	426.15	39.410
6015	C5H14N2	1-dimethylamino-2-propylamine	62689-51-4	40.8388	637.67	0.3800	308.33	637.67	1,2	385.65	28.699
6016	C5H14N2	N-isopropylethylenediamine	19522-67-9	50.7165	637.67	0.3800	309.15	637.67	1,2	409.15	34.339
6017	C5H14N2	N-propylethylenediamine	111-39-7	57.2897	637.67	0.3800	321.65	637.67	1,2	421.65	37.970
6018	C5H14N2	N,N,N'-trimethylethylenediamine	142-25-6	42.5219	637.67	0.3800	290.15	637.67	1,2	390.15	29.678
6067	C6Cl6	hexachlorobenzene	118-74-1	130.2945	825.00	0.6220	501.70	825.00	1,2	582.55	60.831
6080	C6F6	hexafluorobenzene	392-56-3	50.3500	516.73	0.4020	278.25	516.73	1,2	353.41	31.689
6115	C6HCl5	pentachlorobenzene	608-93-5	79.9652	791.17	0.3800	358.65	791.17	1,2	549.15	50.983
6174	C6H2Cl4	1,2,3,4-tetrachlorobenzene	634-66-2	74.5548	772.88	0.3800	319.65	772.88	1,2	527.25	48.228
6175	C6H2Cl4	1,2,3,5-tetrachlorobenzene	634-90-2	73.3726	761.15	0.3800	327.65	761.15	1,2	519.25	47.463
6176	C6H2Cl4	1,2,4,5-tetrachlorobenzene	95-94-3	73.2249	759.69	0.3800	412.15	759.69	1,2	518.25	47.368
6281	C6H3ClN2O4	1-chloro-2,4-dinitrobenzene	97-00-7	104.8797	813.77	0.3880	326.55	813.77	1,2	588.00	63.773
6296	C6H3Cl2NO2	1,2-dichloro-4-nitrobenzene	99-54-7	83.7780	758.00	0.3860	315.65	758.00	1,2	529.00	52.781
6305	C6H3Cl3	1,2,4-trichlorobenzene	120-82-1	69.0006	725.00	0.4030	290.15	725.00	1,2	486.15	44.108
6306	C6H3Cl3	1,2,3-trichlorobenzene	87-61-6	67.4456	734.25	0.3800	325.65	734.25	1,2	491.75	44.271
6307	C6H3Cl3	1,3,5-trichlorobenzene	108-70-3	65.9827	719.02	0.3800	336.65	719.02	1,2	481.55	43.311
6308	C6H3Cl3	trichlorobenzene	12002-48-1	68.1696	726.09	0.3800	313.40	726.09	1,2	486.40	44.738
6367	C6H3N3O6	1,3,5-trinitrobenzene	99-35-4	102.7879	1005.00	0.3800	398.40	1005.00	1,2	748.00	61.220
6411	C6H4Br2	m-dibromobenzene	108-36-1	63.2162	761.00	0.3520	266.25	761.00	1,2	491.15	43.887
6412	C6H4Br2	o-dibromobenzene	583-53-9	69.6360	761.00	0.3800	280.25	761.00	1,2	498.15	46.494
6413	C6H4Br2	p-dibromobenzene	106-37-6	66.0440	761.00	0.3800	360.58	761.00	1,2	491.65	44.507
6414	C6H4Br2	dibromobenzene	26249-12-7	67.1220	761.00	0.3800	393.65	761.00	2	493.65	45.106
6443	C6H4ClNO2	m-chloronitrobenzene	121-73-3	78.4854	742.00	0.3850	317.65	742.00	1,2	508.75	50.268
6444	C6H4ClNO2	o-chloronitrobenzene	88-73-3	80.8644	757.00	0.3940	306.15	757.00	1,2	519.00	51.258
6445	C6H4ClNO2	p-chloronitrobenzene	100-00-5	79.5226	751.00	0.3840	356.65	751.00	1,2	515.15	50.973
6469	C6H4Cl2	o-dichlorobenzene	95-50-1	62.0882	705.00	0.4280	256.15	705.00	1,2	453.57	39.936
6470	C6H4Cl2	m-dichlorobenzene	541-73-1	56.9200	683.95	0.3580	248.39	683.95	1,2	446.23	38.990
6471	C6H4Cl2	p-dichlorobenzene	106-46-7	59.7909	684.75	0.3860	326.14	684.75	1,2	447.21	39.733
6524	C6H4F2	m-difluorobenzene	372-18-9	49.1029	552.94	0.3800	249.16	552.94	1,2	363.66	32.673
6525	C6H4F2	o-difluorobenzene	367-11-3	48.4116	554.46	0.3800	239.16	554.46	1,2	364.66	32.213
6526	C6H4F2	p-difluorobenzene	540-36-3	48.7595	556.00	0.3800	260.16	556.00	1,2	362.00	32.681
6580	C6H4N2O4	m-dinitrobenzene	99-65-0	99.6910	805.00	0.3860	364.00	805.00	1,2	573.00	61.673
6581	C6H4N2O4	o-dinitrobenzene	528-29-0	103.4832	831.00	0.3880	390.08	831.00	1,2	592.00	63.809
6582	C6H4N2O4	p-dinitrobenzene	100-25-4	99.6973	803.00	0.3870	446.60	803.00	1,2	572.00	61.557
6656	C6H5Br	bromobenzene	108-86-1	55.5234	670.15	0.3770	242.43	670.15	1,2	429.24	37.754

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n							(HVAP - kjoule/mol, T - K)	
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
6692	C6H5Cl	chlorobenzene	108-90-7	52.8264	632.35	0.3800	370.00	632.35	1,2	404.87	35.820
6720	C6H5ClO	m-chlorophenol	108-43-0	69.7302	729.00	0.3800	306.00	729.00	1,2	487.00	45.860
6721	C6H5ClO	o-chlorophenol	95-57-8	62.6727	675.00	0.4100	282.00	675.00	1,2	447.53	40.124
6722	C6H5ClO	p-chlorophenol	106-48-9	71.5352	738.00	0.3800	316.00	738.00	1,2	493.11	47.040
6740	C6H5Cl2N	3,4-dichloroaniline	95-76-1	83.1399	800.00	0.3850	344.65	800.00	1,2	545.00	53.535
6769	C6H5F	fluorobenzene	462-06-6	45.8340	560.09	0.3720	230.94	560.09	1,2	357.88	31.376
6795	C6H5I	iodobenzene	591-50-4	60.1500	721.15	0.3870	241.83	721.15	1,2	461.60	40.503
6819	C6H5NO2	nitrobenzene	98-95-3	67.4142	719.00	0.3800	278.91	719.00	1,2	483.95	44.079
6876	C6H6	benzene	71-43-2	49.8882	562.16	0.4890	278.68	562.16	1,2	353.24	30.746
6923	C6H6ClN	m-chloroaniline	108-42-9	77.2145	751.00	0.4670	262.75	751.00	1,2	501.65	46.141
6924	C6H6ClN	o-chloroaniline	95-51-2	69.8077	722.00	0.3690	271.05	722.00	1,2	481.99	46.495
6925	C6H6ClN	p-chloroaniline	106-47-8	73.4012	754.00	0.3720	343.05	754.00	1,2	503.65	48.706
6979	C6H6N2	cis-dicyano-1-butene	2141-58-4	85.0300	691.00	0.3840	249.00	691.00	1,2	501.00	51.791
6980	C6H6N2	trans-dicyano-1-butene	2141-59-5	84.1708	689.00	0.3830	260.00	689.00	1,2	499.00	51.391
6981	C6H6N2	trans-1,4-dicyano-2-butene	1119-85-3	91.5692	755.00	0.3770	400.00	755.00	2	500.00	60.818
6996	C6H6N2O2	m-nitroaniline	99-09-2	111.8800	815.00	0.4670	387.15	815.00	1,2	579.00	62.718
6997	C6H6N2O2	o-nitroaniline	88-74-4	109.4864	784.00	0.4760	344.65	784.00	1,2	558.00	60.565
6998	C6H6N2O2	p-nitroaniline	100-01-6	121.0861	851.00	0.4660	420.65	851.00	1,2	609.15	67.372
7000	C6H6N2O2	N-nitroaniline	645-55-6	87.8088	816.67	0.3800	320.45	816.67	2	557.33	56.785
7057	C6H6O	phenol	108-95-2	77.3972	694.25	0.4620	314.06	694.25	1,2	454.99	47.313
7070	C6H6O2	pyrocatechol	120-80-9	84.0716	764.00	0.3800	377.60	764.00	1,2	518.65	54.600
7071	C6H6O2	resorcinol	108-46-3	100.8400	810.00	0.3970	382.00	810.00	1,2	549.65	64.260
7072	C6H6O2	p-hydroquinone	123-31-9	96.5929	822.00	0.3620	444.65	822.00	1,2	558.15	64.017
7085	C6H6O3	1,2,3-benzenetriol	87-66-1	108.1901	830.00	0.3800	407.00	830.00	1,2	581.85	68.380
7121	C6H6S	phenyl mercaptan	108-98-5	62.2372	689.00	0.4410	258.27	689.00	1,2	442.29	39.569
7172	C6H7N	aniline	62-53-3	72.0383	699.00	0.4590	267.13	699.00	1,2	457.60	44.221
7173	C6H7N	2-methylpyridine	109-06-8	55.5117	621.00	0.4110	206.44	621.00	1,2	402.55	36.132
7174	C6H7N	3-methylpyridine	108-99-6	57.4822	645.00	0.4150	255.01	645.00	1,2	417.29	37.315
7175	C6H7N	4-methylpyridine	108-89-4	55.5268	646.15	0.3670	276.73	646.15	1,2	418.50	37.864
7178	C6H7N	methylpyridine	1333-41-1	58.0051	637.38	0.3800	275.55	637.38	1,2	418.15	38.667
7267	C6H8	1,3-cyclohexadiene	592-57-4	44.1711	558.00	0.3660	161.00	558.00	1,2	353.49	30.591
7268	C6H8	methylcyclopentadiene	26519-91-5	44.0425	541.00	0.3750	245.93	541.00	1,2	345.93	30.043
7269	C6H8	1,4-cyclohexadiene	628-41-1	47.7035	558.00	0.3800	223.95	558.00	1,2	358.65	32.261
7273	C6H8	1-hexen-3-yne	13721-54-5	47.0577	525.00	0.3800	258.15	525.00	1,2	358.15	30.441
7274	C6H8	1-hexen-4-yne	5009-11-0	47.5638	525.00	0.3800	260.15	525.00	1,2	360.15	30.627
7275	C6H8	1-hexen-5-yne	14548-31-3	43.4532	525.00	0.3800	243.15	525.00	1,2	343.15	29.044
7276	C6H8	2-hexen-4-yne	14092-20-7	47.9475	525.00	0.3800	261.65	525.00	1,2	361.65	30.767
7277	C6H8	2-methyl-1-penten-3-yne	926-55-6	45.3257	525.00	0.3800	251.11	525.00	2	351.11	29.784
7278	C6H8	3-methyl-3-penten-1-yne	1574-33-0	42.6565	525.00	0.3800	239.65	525.00	1,2	339.65	28.719
7316	C6H8N2	adiponitrile	111-69-3	98.0473	781.00	0.4100	275.64	781.00	1,2	568.15	57.539
7317	C6H8N2	methylglutaronitrile	4553-62-2	89.5430	742.00	0.3890	228.15	742.00	1,2	536.15	54.377
7318	C6H8N2	m-phenylenediamine	108-45-2	86.0882	824.00	0.3800	334.00	824.00	1,2	560.00	55.860
7319	C6H8N2	o-phenylenediamine	95-54-5	83.1650	781.00	0.3870	376.95	781.00	1,2	525.00	54.010
7320	C6H8N2	p-phenylenediamine	106-50-3	87.9801	796.00	0.3860	413.00	796.00	1,2	540.00	56.782
7321	C6H8N2	phenylhydrazine	100-63-0	81.0121	761.00	0.3800	292.35	761.00	1,2	516.65	52.610
7343	C6H8N2O	bis(cyanoethyl) ether	1656-48-0	104.9924	783.00	0.3910	246.85	783.00	1,2	579.00	62.053
7381	C6H8O	2-ethylfuran	3208-16-0	48.2813	557.25	0.3800	182.44	557.25	1,2	365.65	32.180
7382	C6H8O	3-ethylfuran	67363-95-5	48.1915	556.26	0.3800	182.44	556.26	2	365.00	32.121
7383	C6H8O	2,3-dimethylfuran	14920-89-9	48.5304	559.41	0.3800	177.34	559.41	1,2	367.65	32.309
7384	C6H8O	2,4-dimethylfuran	3710-43-8	48.5996	560.17	0.3800	177.34	560.17	1,2	368.15	32.355
7385	C6H8O	2,5-dimethylfuran	625-86-5	48.3231	557.13	0.3800	177.34	557.13	1,2	366.15	32.171
7386	C6H8O	3,4-dimethylfuran	20843-07-6	46.3235	535.10	0.3800	177.34	535.10	2	351.67	30.840
7446	C6H8O4	dimethyl maleate	624-48-6	74.6730	675.00	0.3740	254.15	675.00	1,2	478.15	47.099
7459	C6H8O6	ascorbic acid	50-81-7	199.7000	783.00	0.3270	465.15	783.00	1,2	637.00	115.309
7464	C6H8O7	citric acid	77-92-9	181.8500	822.00	0.3560	426.15	822.00	1,2	659.00	102.225
7467	C6H8S	2-ethylthiophene	872-55-9	53.0463	623.60	0.3800	241.08	623.60	1,2	407.15	35.484
7468	C6H8S	3-ethylthiophene	1795-01-3	53.3134	626.70	0.3800	184.05	626.70	1,2	409.15	35.664
7469	C6H8S	2,3-dimethylthiophene	632-16-6	54.0745	635.30	0.3800	224.15	635.30	1,2	414.75	36.174
7470	C6H8S	2,4-dimethylthiophene	638-00-6	53.9388	634.00	0.3800	241.08	634.00	1,2	413.85	36.086
7471	C6H8S	2,5-dimethylthiophene	638-02-8	53.4045	627.80	0.3800	210.55	627.80	1,2	409.85	35.726
7472	C6H8S	3,4-dimethylthiophene	632-15-5	54.5565	640.40	0.3800	241.08	640.40	1,2	418.15	36.492
7533	C6H9N	2,4-dimethylpyrrole	625-82-1	60.4737	630.00	0.3800	341.15	630.00	1,2	441.15	38.260
7534	C6H9N	2,5-dimethylpyrrole	625-84-3	61.2963	630.00	0.3800	279.65	630.00	1,2	444.15	38.545
7535	C6H9N	1-ethyl-1H-pyrrole	617-92-5	50.9882	630.00	0.3800	302.65	630.00	1,2	402.65	34.615
7536	C6H9N	2-ethyl-1H-pyrrole	1551-06-0	59.3980	630.00	0.3800	337.15	630.00	1,2	437.15	37.880
7619	C6H10	1-methylcyclopentene	693-89-0	43.0107	541.99	0.3800	145.96	541.99	1,2	348.95	29.054
7620	C6H10	3-methylcyclopentene	1120-62-3	42.5965	535.71	0.3800	130.16	535.71	1,2	343.16	28.874
7621	C6H10	4-methylcyclopentene	1759-81-5	43.2323	543.75	0.3800	112.31	543.75	1,2	348.31	29.305
7622	C6H10	cyclohexene	110-83-8	45.6503	560.40	0.3800	300.00	560.40	1,2	356.12	31.110
7623	C6H10	1,2-hexadiene	592-44-9	44.3047	534.07	0.3800	161.63	534.07	1,2	349.15	29.609
7624	C6H10	1,cis-3-hexadiene	14596-92-0	43.9399	526.70	0.3800	150.04	526.70	1,2	346.15	29.253
7625	C6H10	1,trans-3-hexadiene	20237-34-7	43.9399	526.70	0.3800	150.04	526.70	1,2	346.15	29.253
7626	C6H10	1,4-hexadiene	592-45-0	40.0977	526.51	0.3800	238.15	526.51	1,2	338.15	27.132
7627	C6H10	1,cis-4-hexadiene	7318-67-4	42.8750	514.53	0.3800	150.04	514.53	1,2	338.15	28.544
7628	C6H10	1,trans-4-hexadiene	7319-00-8	42.8750	514.53	0.3800	150.04	514.53	1,2	338.15	28.544
7629	C6H10	1,5-hexadiene	592-42-7	40.9587	507.00	0.3720	132.47	507.00	1,2	332.61	27.538
7630	C6H10	2,3-hexadiene	592-49-4	43.0173	523.91	0.3800	158.31	523.91	1,2	341.15	28.830
7631	C6H10	2,4-hexadiene	592-46-1	47.9672	526.51	0.3800	194.15	526.51	1,2	353.15	31.449
7632	C6H10	cis-2,trans-4-hexadiene	5194-50-3	46.0165	538.00	0.3780	177.05	538.00	1,2	356.65	30.507
7633	C6H10	cis-2,cis-4-hexadiene	6108-61-8	44.6407	539.46	0.3800	146.72	539.46	1,2	353.15	29.804

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
7634	C6H10	trans-2,trans-4-hexadiene	5194-51-4	46.6653	535.00	0.3850	228.25	535.00	1,2	355.05	30.677
7635	C6H10	3-methyl-1,2-pentadiene	7417-48-3	42.9492	528.84	0.3800	147.67	528.84	1,2	343.15	28.856
7636	C6H10	4-methyl-1,2-pentadiene	13643-05-5	42.9003	528.04	0.3800	145.26	528.04	1,2	343.15	28.792
7637	C6H10	3-methyl-1,3-pentadiene	4549-74-0	46.2345	526.51	0.3800	250.15	526.51	1,2	350.15	30.511
7638	C6H10	2-methyl-1,cis-3-pentadiene	1501-60-6	43.7721	535.20	0.3800	136.08	535.20	1,2	349.15	29.297
7639	C6H10	2-methyl-1,trans-3-pentadiene	926-54-5	43.7721	535.20	0.3800	136.08	535.20	1,2	349.15	29.297
7640	C6H10	3-methyl-1,cis-3-pentadiene	2787-45-3	43.9037	536.73	0.3800	136.08	536.73	1,2	350.15	29.385
7641	C6H10	3-methyl-1,trans-3-pentadiene	2787-43-1	43.9037	536.73	0.3800	136.08	536.73	1,2	350.15	29.385
7642	C6H10	4-methyl-1,3-pentadiene	926-56-7	43.8116	535.66	0.3800	136.08	535.66	1,2	349.45	29.323
7643	C6H10	2-methyl-1,4-pentadiene	763-30-4	40.5667	493.39	0.3800	139.40	493.39	1,2	323.15	27.074
7644	C6H10	3-methyl-1,4-pentadiene	1115-08-8	41.1290	501.82	0.3800	138.36	501.82	1,2	328.15	27.481
7645	C6H10	2-methyl-2,3-pentadiene	3043-33-2	42.9903	534.09	0.3800	144.35	534.09	1,2	345.15	28.966
7646	C6H10	2-ethyl-1,3-butadiene	3404-63-5	43.8667	531.56	0.3800	139.40	531.56	1,2	348.15	29.277
7647	C6H10	2,3-dimethyl-1,3-butadiene	513-81-5	44.5592	526.00	0.4120	197.15	526.00	1,2	341.93	28.911
7648	C6H10	1-hexyne	693-02-7	45.7501	516.20	0.3700	141.25	516.20	1,2	344.48	30.446
7649	C6H10	2-hexyne	764-35-2	49.0996	549.00	0.4390	183.65	549.00	1,2	357.67	30.911
7650	C6H10	3-hexyne	928-49-4	48.0800	544.00	0.4360	170.05	544.00	1,2	354.35	30.369
7651	C6H10	3-methyl-1-pentyne	922-59-8	41.0651	512.82	0.3800	188.85	512.82	1,2	330.85	27.700
7652	C6H10	4-methyl-1-pentyne	7154-75-8	41.5173	518.20	0.3800	168.55	518.20	1,2	334.32	28.005
7653	C6H10	4-methyl-2-pentyne	21020-27-9	42.6492	540.58	0.3800	162.85	540.58	1,2	346.28	28.910
7654	C6H10	3,3-dimethyl-1-butyne	917-92-0	37.2896	491.15	0.3800	194.95	491.15	1,2	310.87	25.479
7657	C6H10	1,3-hexadiene, cis and trans	592-48-3	44.2668	526.51	0.3800	246.55	526.51	1,2	346.55	29.438
7658	C6H10	2-methyl-1,3-pentadiene	1118-58-7	45.3455	526.51	0.3800	258.25	526.51	1,2	348.55	30.028
7659	C6H10	methylpentadiene, isomers	54363-49-4	45.6761	526.51	0.3800	249.15	526.51	1,2	349.15	30.208
7660	C6H10	hexadiene	42296-74-2	43.2673	526.51	0.3800	244.64	526.51	2	344.64	28.889
7688	C6H10Cl2	cis-1,2-dichloro-1-hexene	59697-55-1	63.9352	660.00	0.3800	363.25	660.00	2	463.25	40.365
7689	C6H10Cl2	trans-1,2-dichloro-1-hexene	59697-51-7	63.9352	660.00	0.3800	363.25	660.00	2	463.25	40.365
7760	C6H10O	cyclohexanone	108-94-1	57.3147	629.15	0.3800	242.00	629.15	1,2	428.90	37.097
7761	C6H10O	mesityl oxide	141-79-7	56.7111	600.00	0.4060	220.15	600.00	1,2	402.95	36.086
7772	C6H10O	2-ethyl-1-buten-1-one	24264-08-2	43.9101	595.00	0.3800	261.65	595.00	1,2	361.65	30.767
7773	C6H10O	3-hexen-2-one	763-93-9	55.8663	595.00	0.3800	313.15	595.00	1,2	413.15	35.606
7774	C6H10O	4-hexen-2-one	25659-22-7	52.5446	595.00	0.3800	300.15	595.00	1,2	400.15	34.379
7775	C6H10O	4-hexen-3-one	2497-21-4	55.4705	595.00	0.3800	311.65	595.00	1,2	411.65	35.464
7776	C6H10O	5-hexen-2-one	109-49-9	53.1650	595.00	0.3800	302.65	595.00	1,2	402.65	34.615
7777	C6H10O	trans-3-hexen-2-one	4376-23-2	55.8663	595.00	0.3800	313.15	595.00	1,2	413.15	35.606
7778	C6H10O	2-methyl-1-penten-3-one	25044-01-3	50.4956	595.00	0.3800	203.65	595.00	1,2	391.65	33.579
7779	C6H10O	4-methyl-4-penten-2-one	3744-02-3	51.8595	595.00	0.3800	200.55	595.00	1,2	397.35	34.116
7785	C6H10O	trans-2-hexenal	6728-26-3	58.0725	590.00	0.3800	319.65	590.00	1,2	419.65	36.221
7786	C6H10O	cis-3-hexenal	6789-80-6	51.4155	590.00	0.3800	294.15	590.00	1,2	394.15	33.814
7787	C6H10O	trans-3-hexenal	69112-21-6	53.7853	590.00	0.3800	303.66	590.00	2	403.66	34.710
7788	C6H10O	2-methyl-2-pentenal	623-36-9	55.3442	590.00	0.3800	309.65	590.00	1,2	409.65	35.275
7801	C6H10O	4-methylpent-2-enal	5362-56-1	53.7853	590.00	0.3800	303.66	590.00	2	403.66	34.710
7804	C6H10O	3-methyl-3-penten-2-one	565-62-8	55.3524	595.00	0.3800	311.20	595.00	1,2	411.20	35.422
7805	C6H10O	2-ethylcrotonaldehyde	19780-25-7	53.7853	590.00	0.3800	303.66	590.00	2	403.66	34.710
7806	C6H10O	2-hexenal	505-57-7	66.5640	590.00	0.3800	347.15	590.00	1,2	447.15	38.830
7813	C6H10O2	epsilon-caprolactone	502-44-3	67.1161	771.00	0.3800	271.85	771.00	1,2	514.00	44.210
7814	C6H10O2	ethyl methacrylate	97-63-2	53.9057	577.00	0.3990	290.15	577.00	1,2	390.15	34.376
7815	C6H10O2	propyl acrylate	925-60-0	57.3947	569.00	0.3870	292.15	569.00	1,2	392.15	36.515
7817	C6H10O2	2-buten-1-yl acetate	628-08-0	55.9326	569.00	0.3800	305.15	569.00	1,2	405.15	34.851
7818	C6H10O2	allyl propanoate	2408-20-0	59.7724	569.00	0.3800	296.15	569.00	1,2	396.15	38.008
7820	C6H10O2	2,2-dimethyl-3-butenoic acid	10276-09-2	59.9695	696.00	0.3800	267.15	696.00	1,2	458.15	39.878
7821	C6H10O2	trans-2-ethyl-2-butenoic acid	1187-13-9	66.0346	696.00	0.3800	318.65	696.00	1,2	482.15	42.172
7822	C6H10O2	2-hexenoic acid	1191-04-4	68.0775	696.00	0.3800	309.65	696.00	1,2	489.65	42.891
7823	C6H10O2	3-hexenoic acid	4219-24-3	65.7679	696.00	0.3800	285.15	696.00	1,2	481.15	42.076
7824	C6H10O2	5-hexenoic acid	1577-22-6	64.4539	696.00	0.3800	236.15	696.00	1,2	476.15	41.597
7825	C6H10O2	2-methyl-3-pentenoic acid	37674-63-8	63.4251	696.00	0.3800	372.15	696.00	1,2	472.15	41.215
7826	C6H10O2	4-methyl-2-pentenoic acid	10321-71-8	68.2165	696.00	0.3800	308.15	696.00	1,2	490.15	42.939
7827	C6H10O2	trans-2-methyl-2-pentenoic acid	16957-70-3	67.3879	696.00	0.3800	297.55	696.00	1,2	487.15	42.651
7828	C6H10O2	cis-3-methyl-2-pentenoic acid	19866-51-4	64.1561	696.00	0.3800	285.15	696.00	2	475.00	41.487
7829	C6H10O2	ethyl 3-butenoate	1617-18-1	56.9444	569.00	0.3800	292.15	569.00	1,2	392.15	36.526
7830	C6H10O2	ethyl cis-2-butenoate	6776-19-8	57.0720	569.00	0.3800	309.15	569.00	1,2	409.15	35.228
7831	C6H10O2	ethyl 2-butenoate	10544-63-5	57.2165	569.00	0.3800	309.65	569.00	1,2	409.65	35.275
7832	C6H10O2	ethyl trans-2-butenoate	623-70-1	57.6531	569.00	0.3800	311.15	569.00	1,2	411.15	35.417
7833	C6H10O2	vinyl butanoate	123-20-6	55.4031	569.00	0.3800	289.85	569.00	1,2	389.85	35.712
7834	C6H10O2	vinyl 2-methylpropanoate	2424-98-8	48.1279	569.00	0.3800	277.65	569.00	1,2	377.65	31.809
7844	C6H10O2	2-methylenepentanoic acid	5650-75-9	67.3879	696.00	0.3800	297.55	696.00	1,2	487.15	42.651
7845	C6H10O2	methyl 2-methyl-2-butenoate	6622-76-0	57.9467	569.00	0.3800	312.15	569.00	1,2	412.15	35.512
7846	C6H10O2	methyl 3-methyl-2-butenoate	924-50-5	57.2165	569.00	0.3800	387.15	569.00	1,2	409.65	35.275
7848.1	C6H10O2	isopropyl acrylate	689-12-3	43.3000	560.00	0.2050	190.00	560.00	1,2	383.15	34.187
7856	C6H10O2	trans-2-hexenoic acid	13419-69-7	68.2165	696.00	0.3800	305.15	696.00	1,2	490.15	42.939
7857	C6H10O2	trans-3-hexenoic acid	1577-18-0	65.7679	696.00	0.3800	284.65	696.00	1,2	481.15	42.076
7859	C6H10O2	methyl trans-2-pentenoate	15790-88-2	65.3454	569.00	0.3800	335.22	569.00	2	435.22	37.696
7860	C6H10O2	methyl trans-3-pentenoate	20515-19-9	65.3454	569.00	0.3800	335.22	569.00	2	435.22	37.696
7861	C6H10O2	2-methyl-4-pentenoic acid	1575-74-2	64.1561	696.00	0.3800	375.00	696.00	2	475.00	41.487
7862	C6H10O2	2-methyl-2-pentenoic acid	3142-72-1	64.1561	696.00	0.3800	375.00	696.00	2	475.00	41.487
7881	C6H10O3	ethylacetoacetate	141-97-9	63.8144	643.00	0.3110	234.15	643.00	1,2	453.95	43.609
7882	C6H10O3	propionic anhydride	123-62-6	63.7400	618.00	0.3170	228.15	618.00	1,2	442.15	42.794
7917	C6H10O4	adipic acid	124-04-9	124.5241	809.00	0.3800	425.50	809.00	1,2	611.00	72.940
7918	C6H10O4	diethyl oxalate	95-92-1	74.1000	646.00	0.4000	232.55	646.00	1,2	458.85	45.144
7919	C6H10O4	ethylene glycol diacetate	111-55-7	74.7177	653.00	0.4030	242.15	653.00	1,2	463.65	45.368

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
7920	C6H10O4	ethylidene diacetate	542-10-9	73.7014	635.00	0.3800	292.00	635.00	1,2	442.15	46.860
7953.1	C6H10O5	dilactic acid	19201-34-4	90.9810	660.00	0.3603	385.65	660.00	1,2	489.00	55.923
7979	C6H11Br	cis-1-bromo-1-hexene	13154-12-6	56.7473	609.39	0.3800	211.60	609.39	1,2	413.15	36.893
7980	C6H11Br	trans-1-bromo-1-hexene	13154-13-7	56.7473	609.39	0.3800	211.60	609.39	1,2	413.15	36.893
7982	C6H11Br	6-bromo-1-hexene	2695-47-8	65.4797	609.39	0.3800	322.95	609.39	2	422.95	41.749
7983	C6H11Br	5-bromo-2-methyl-2-pentene	2270-59-9	67.9222	609.39	0.3800	326.15	609.39	1,2	426.15	43.023
8004	C6H11Br3	1,1,1-tribromohexane	62127-63-3	79.0457	746.32	0.3800	338.70	746.32	1,2	520.15	50.217
8006	C6H11Cl	cis-1-chloro-1-hexene	50586-18-0	52.3688	583.61	0.3800	181.72	583.61	1,2	394.45	34.130
8007	C6H11Cl	trans-1-chloro-1-hexene	50586-19-1	52.3688	583.61	0.3800	181.72	583.61	1,2	394.45	34.130
8009	C6H11Cl	1-chloro-2,3-dimethyl-2-butene	37866-06-1	47.6456	583.61	0.3800	285.15	583.61	1,2	385.15	31.624
8010	C6H11Cl	1-chloro-1-hexene	22922-67-4	52.6320	583.61	0.3800	294.15	583.61	1,2	394.15	34.323
8011	C6H11Cl	1-chloro-3-hexene	62706-16-5	53.4112	583.61	0.3800	295.45	583.61	2	395.45	34.740
8012	C6H11Cl	2-chloro-1-hexene	10124-73-9	48.1667	583.61	0.3800	286.15	583.61	1,2	386.15	31.908
8013	C6H11Cl	4-chloro-2-hexene	6734-98-1	53.8374	583.61	0.3800	296.15	583.61	1,2	396.15	34.967
8014	C6H11Cl	5-chloro-1-hexene	927-54-8	52.4544	583.61	0.3800	293.85	583.61	1,2	393.85	34.227
8015	C6H11Cl	cis-3-chloro-3-hexene	17226-34-5	50.3311	583.61	0.3800	290.15	583.61	1,2	390.15	33.084
8016	C6H11Cl	3-chloro-2-methyl-1-pentene	4104-01-2	52.6320	583.61	0.3800	294.15	583.61	1,2	394.15	34.323
8017	C6H11Cl	5-chloro-2-methyl-2-pentene	7712-60-9	60.4839	583.61	0.3800	306.15	583.61	1,2	406.15	38.474
8066	C6H11Cl3	1,1,1-trichlorohexane	17760-40-6	62.2112	657.17	0.3800	249.06	657.17	1,2	454.15	39.812
8071	C6H11F	cis-1-fluoro-1-hexene	66225-46-5	44.8131	502.87	0.3800	183.95	502.87	2	340.11	29.191
8072	C6H11F	trans-1-fluoro-1-hexene	66225-47-6	44.8131	502.87	0.3800	183.95	502.87	2	340.11	29.191
8077	C6H11F3	1,1,1-trifluorohexane	---	47.5579	498.20	0.3800	255.75	498.20	1,2	348.15	30.142
8080	C6H11I	cis-1-iodo-1-hexene	16538-47-9	58.9919	659.87	0.3800	209.86	659.87	1,2	444.15	38.572
8081	C6H11I	trans-1-iodo-1-hexene	16644-98-7	58.9919	659.87	0.3800	209.86	659.87	1,2	444.15	38.572
8086	C6H11I3	1,1,1-triiodohexane	---	83.8099	897.23	0.3800	333.48	897.23	2	612.87	54.158
8088	C6H11N	hexanenitrile	628-73-9	63.0911	622.05	0.4180	192.85	622.05	1,2	436.75	38.030
8089	C6H11N	2-methylpentanenitrile	6339-13-5	58.9324	605.44	0.3800	206.87	605.44	1,2	420.15	37.580
8090	C6H11N	2-ethylbutanenitrile	617-80-1	58.6389	602.56	0.3800	206.87	602.56	1,2	418.15	37.392
8091	C6H11N	3-methylpentanenitrile	21101-88-2	59.8134	614.09	0.3800	206.87	614.09	1,2	426.15	38.141
8092	C6H11N	4-methylpentanenitrile	542-54-1	59.9603	615.53	0.3800	222.05	615.53	1,2	427.15	38.235
8093	C6H11N	2,2-dimethylbutanenitrile	20654-46-0	54.5107	588.30	0.3800	224.29	588.30	1,2	402.15	35.203
8094	C6H11N	2,3-dimethylbutanenitrile	20654-44-8	55.2741	582.40	0.3800	191.87	582.40	1,2	401.15	35.472
8095	C6H11N	3,3-dimethylbutanenitrile	3302-16-7	55.5050	598.54	0.3800	306.15	598.54	1,2	409.15	35.845
8101	C6H11NO	epsilon-caprolactam	105-60-2	83.5294	806.00	0.3780	342.36	806.00	1,2	543.15	54.688
8102	C6H11NO	cyclohexanone oxime	100-64-1	74.9193	715.00	0.3990	363.15	715.00	1,2	481.15	47.966
8200	C6H12	1-methyl-1-ethylcyclopropane	53778-43-1	41.4352	507.94	0.3800	142.95	507.94	1,2	329.92	27.819
8201	C6H12	1-methyl-cis-2-ethylcyclopropane	19781-68-1	43.0208	518.53	0.3800	170.58	518.53	1,2	340.16	28.679
8202	C6H12	1-methyl-trans-2-ethylcyclopropane	19781-69-2	41.9133	505.80	0.3800	170.58	505.80	1,2	331.81	27.941
8203	C6H12	1,1,2-trimethylcyclopropane	4127-45-1	40.2959	504.34	0.3800	134.97	504.34	1,2	325.59	27.169
8204	C6H12	1,cis-2,cis-3-trimethylcyclopropane	4806-58-0	42.2912	520.06	0.3800	154.21	520.06	1,2	339.15	28.313
8205	C6H12	1,cis-2,trans-3-trimethylcyclopropane	4806-59-1	41.4669	510.40	0.3800	154.21	510.40	1,2	332.85	27.761
8206	C6H12	propylcyclopropane	2415-72-7	43.9078	520.15	0.3800	174.82	520.15	1,2	342.30	29.203
8207	C6H12	isopropylcyclopropane	3638-35-5	41.8565	506.65	0.3800	160.22	506.65	1,2	331.47	27.958
8208	C6H12	1,1-dimethylcyclobutane	---	40.7116	514.04	0.3800	195.20	514.04	1,2	329.15	27.604
8209	C6H12	1,cis-2-dimethylcyclobutane	15679-01-3	42.5089	525.83	0.3800	167.06	525.83	1,2	341.15	28.563
8210	C6H12	1,trans-2-dimethylcyclobutane	15679-02-4	41.4632	513.50	0.3800	167.06	513.50	1,2	333.15	27.860
8211	C6H12	1,cis-3-dimethylcyclobutane	2398-09-6	41.5285	514.27	0.3800	167.06	514.27	1,2	333.65	27.904
8212	C6H12	1,trans-3-dimethylcyclobutane	2398-10-9	41.1366	509.64	0.3800	167.06	509.64	1,2	330.65	27.640
8213	C6H12	ethylcyclobutane	4806-61-5	43.4425	528.10	0.3800	130.40	528.10	1,2	343.75	29.123
8214	C6H12	methylcyclopentane	96-37-7	44.3793	532.79	0.3970	130.73	532.79	1,2	344.96	29.337
8215	C6H12	cyclohexane	110-82-7	49.0595	553.54	0.4860	279.69	553.54	1,2	353.87	29.889
8216	C6H12	1-hexene	592-41-6	43.8800	504.03	0.3870	133.39	504.03	1,2	336.63	28.642
8217	C6H12	2-hexene; (cis+trans)	592-43-8	45.3688	506.59	0.3800	175.25	506.59	1,2	341.15	29.653
8218	C6H12	cis-2-hexene	7688-21-3	43.6200	513.00	0.3770	132.00	513.00	1,2	342.03	28.826
8219	C6H12	trans-2-hexene	4050-45-7	45.7450	513.00	0.4140	140.17	513.00	1,2	341.02	29.097
8220	C6H12	hex-3-ene	592-47-2	44.6728	506.59	0.3800	183.25	506.59	1,2	339.95	29.279
8221	C6H12	cis-3-hexene	7642-09-3	44.2145	509.00	0.3870	135.33	509.00	1,2	339.60	28.884
8222	C6H12	trans-3-hexene	13269-52-8	44.7648	509.00	0.3900	159.73	509.00	1,2	340.24	29.104
8223	C6H12	2-methyl-1-pentene	763-29-1	44.7242	507.00	0.4210	137.42	507.00	1,2	335.25	28.355
8224	C6H12	3-methyl-1-pentene	760-20-3	40.4425	495.00	0.3630	120.20	495.00	1,2	327.33	27.301
8225	C6H12	4-methyl-1-pentene	691-37-2	42.6284	496.00	0.4100	119.51	496.00	1,2	327.01	27.414
8226	C6H12	4-methyl-2-pentene	4461-48-7	39.5991	506.59	0.3800	146.05	506.59	1,2	330.35	26.512
8227	C6H12	4-methyl-cis-2-pentene	691-38-3	42.3743	499.00	0.4000	138.30	499.00	1,2	329.53	30.747
8228	C6H12	4-methyl-trans-2-pentene	674-76-0	47.5512	501.00	0.4930	132.35	501.00	1,2	331.75	27.849
8229	C6H12	2-methyl-2-pentene	625-27-4	45.6499	514.00	0.4210	138.07	514.00	1,2	340.45	28.902
8230	C6H12	3-methyl-cis-2-pentene	922-62-3	44.2800	515.00	0.3930	138.31	515.00	1,2	340.85	28.917
8231	C6H12	3-methyl-2-pentene, cis and trans	922-61-2	45.3102	506.59	0.3800	241.05	506.59	1,2	341.05	29.622
8232	C6H12	3-methyl-trans-2-pentene	616-12-6	44.1048	521.00	0.3800	134.70	521.00	1,2	343.60	29.288
8233	C6H12	2,3-dimethyl-1-butene	563-78-0	42.6278	500.00	0.4100	115.89	500.00	1,2	328.76	27.472
8234	C6H12	2,3-dimethyl-2-butene	563-79-1	46.7723	524.00	0.4290	198.92	524.00	1,2	346.35	29.408
8235	C6H12	3,3-dimethyl-1-butene	558-37-2	38.8876	480.00	0.3810	157.95	480.00	1,2	314.40	25.925
8236	C6H12	2-ethyl-1-butene	760-21-4	44.4414	512.00	0.4170	141.61	512.00	1,2	337.82	28.348
8245	C6H12Br2	1,1-dibromohexane	58133-26-9	69.8535	684.21	0.3800	261.48	684.21	1,2	475.15	44.517
8246	C6H12Br2	1,2-dibromo-2,3-dimethylbutane	29916-45-8	68.1257	684.21	0.3800	386.03	684.21	2	486.03	42.543
8247	C6H12Br2	1,4-dibromo-2,3-dimethylbutane	54462-70-3	68.1257	684.21	0.3800	386.03	684.21	2	486.03	42.543
8248	C6H12Br2	2,3-dibromo-2,3-dimethylbutane	594-81-0	68.1257	684.21	0.3800	444.15	684.21	2	486.03	42.543
8249	C6H12Br2	1,2-dibromohexane	624-20-4	68.1257	684.21	0.3800	386.03	684.21	2	486.03	42.543
8250	C6H12Br2	1,4-dibromohexane	25118-28-9	68.1257	684.21	0.3800	386.03	684.21	2	486.03	42.543
8251	C6H12Br2	1,5-dibromohexane	627-96-3	68.1257	684.21	0.3800	386.03	684.21	2	486.03	42.543
8252	C6H12Br2	1,6-dibromohexane	629-03-8	78.3216	684.21	0.3800	271.95	684.21	1,2	518.65	45.679

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
8253	C6H12Br2	2,3-dibromohexane	6423-02-5	70.2400	684.21	0.3800	369.15	684.21	1,2	469.15	45.247
8254	C6H12Br2	2,5-dibromohexane, (R*,R**)-(±)-	54462-68-9	68.1257	684.21	0.3800	228.51	684.21	2	486.03	42.543
8255	C6H12Br2	1,2-dibromo-3,3-dimethylbutane	640-21-1	68.1257	684.21	0.3800	386.03	684.21	2	486.03	42.543
8256	C6H12Br2	3,4-dibromohexane	16230-28-7	68.1257	684.21	0.3800	386.03	684.21	2	486.03	42.543
8257	C6H12Br2	2,5-dibromohexane	24774-58-1	66.7585	684.21	0.3800	311.15	684.21	1,2	481.15	42.076
8258	C6H12Br2	1,5-dibromo-3-methylpentane	4457-72-1	68.1257	684.21	0.3800	386.03	684.21	2	486.03	42.543
8273	C6H12Cl2	1,1-dichlorohexane	62017-16-7	60.0204	633.09	0.3800	201.72	633.09	1,2	437.15	38.437
8274	C6H12Cl2	1,2-dichlorohexane	2162-92-7	61.5761	633.09	0.3800	346.15	633.09	1,2	446.15	38.735
8275	C6H12Cl2	1,6-dichlorohexane	2163-00-0	71.0057	633.09	0.3800	377.15	633.09	1,2	477.15	41.693
8276	C6H12Cl2	2,2-dichlorohexane	42131-89-5	61.1838	633.09	0.3800	344.73	633.09	2	444.73	38.600
8277	C6H12Cl2	2,3-dichlorohexane	54305-87-2	60.5628	633.09	0.3800	336.65	633.09	1,2	436.65	38.822
8278	C6H12Cl2	2,5-dichlorohexane, (R*,R*)-(±)-	41761-12-0	62.6944	633.09	0.3800	235.15	633.09	1,2	450.15	39.116
8279	C6H12Cl2	1,1-dichloro-3,3-dimethylbutane	6130-96-7	51.4776	633.09	0.3800	215.10	633.09	1,2	421.10	33.968
8280	C6H12Cl2	hexane, 2,5-dichloro-, (R*,S*)-	41761-11-9	61.1838	633.09	0.3800	344.73	633.09	2	444.73	38.600
8281	C6H12Cl2	2,2-dichloro-3,3-dimethylbutane	594-84-3	61.1838	633.09	0.3800	344.73	633.09	2	444.73	38.600
8298	C6H12F2	1,1-difluorohexane	62127-41-7	50.2254	529.00	0.3800	206.18	529.00	1,2	368.15	31.948
8305	C6H12I2	1,1-diiodohexane	66225-50-1	71.5845	762.60	0.3800	258.00	762.60	2	522.52	46.140
8306	C6H12I2	1,6-diiodohexane	629-09-4	71.7216	762.60	0.3800	282.65	762.60	2	522.52	46.229
8315	C6H12N2	triethylenediamine	280-57-9	68.2980	655.00	0.3940	434.25	655.00	1,2	447.15	43.451
8394	C6H12O	butyl vinyl ether	111-34-2	51.4176	536.00	0.3870	181.15	536.00	1,2	366.97	32.896
8395	C6H12O	sec-butyl vinyl ether	1888-85-3	43.7484	536.00	0.3800	254.15	536.00	1,2	354.15	29.012
8396	C6H12O	tert-butyl vinyl ether	926-02-3	40.7845	536.00	0.3800	161.15	536.00	1,2	348.15	27.382
8397	C6H12O	isobutyl vinyl ether	109-53-5	44.8015	536.00	0.3800	161.15	536.00	1,2	356.15	29.585
8398	C6H12O	3-(1-methylethoxy)-1-propene	6140-80-3	45.0702	536.00	0.3800	256.65	536.00	1,2	356.65	29.731
8399	C6H12O	3-propoxy-1-propene	1471-03-0	49.3825	536.00	0.3800	264.15	536.00	1,2	364.15	32.051
8400	C6H12O	cyclohexanol	108-93-0	91.7900	625.15	0.6380	296.60	625.15	1,2	434.00	40.259
8401	C6H12O	hexanal	66-25-1	55.2669	579.00	0.3500	217.15	579.00	1,2	401.45	36.542
8402	C6H12O	2-methylpentanal	123-15-9	54.2913	569.05	0.3800	183.88	569.05	1,2	390.15	34.976
8403	C6H12O	3-methylpentanal	15877-57-3	55.0196	576.34	0.3800	183.88	576.34	1,2	395.15	35.445
8404	C6H12O	4-methylpentanal	1119-16-0	55.0196	576.34	0.3800	183.88	576.34	1,2	395.15	35.445
8405	C6H12O	2-ethylbutanal	97-96-1	54.2622	568.76	0.3800	184.15	568.76	1,2	389.95	34.957
8406	C6H12O	2,2-dimethylbutanal	2094-75-9	50.7335	558.82	0.3800	201.30	558.82	1,2	377.15	33.102
8407	C6H12O	2,3-dimethylbutanal	2109-98-0	52.8717	567.64	0.3800	168.88	567.64	1,2	386.15	34.280
8408	C6H12O	3,3-dimethylbutanal	2987-16-8	50.7335	558.82	0.3800	201.30	558.82	1,2	377.15	33.102
8409	C6H12O	2-hexanone	591-78-6	56.7896	587.05	0.3820	217.35	587.05	1,2	400.85	36.624
8410	C6H12O	3-hexanone	589-38-8	56.5800	582.82	0.4130	217.50	582.82	1,2	396.65	35.316
8411	C6H12O	3-methyl-2-pentanone	565-61-7	51.9286	579.90	0.3800	167.15	579.90	1,2	390.55	33.939
8412	C6H12O	4-methyl-2-pentanone	108-10-1	57.6800	571.40	0.4160	189.15	571.40	1,2	389.65	35.816
8413	C6H12O	ethyl isopropyl ketone	565-69-5	53.8701	567.00	0.4060	200.00	567.00	1,2	386.55	33.843
8414	C6H12O	3,3-dimethyl-2-butanone	75-97-8	48.5374	571.50	0.3800	221.15	571.50	1,2	379.45	32.071
8415	C6H12O	3-methyl-2-pentanone, (±)	55156-16-6	53.5941	576.61	0.3800	290.65	576.61	1,2	390.65	34.863
8416	C6H12O	2-ethyltetrahydrofuran	1003-30-1	49.8678	580.07	0.3800	170.82	580.07	1,2	382.15	33.141
8417	C6H12O	3-ethyltetrahydrofuran	93716-28-0	50.8254	590.70	0.3800	170.82	590.70	1,2	389.15	33.777
8418	C6H12O	2,2-dimethyltetrahydrofuran	1003-17-4	46.6519	563.41	0.3800	159.15	563.41	1,2	365.35	31.357
8419	C6H12O	2,3-dimethyltetrahydrofuran	---	47.5395	563.40	0.3800	154.45	563.40	2	370.00	31.666
8420	C6H12O	2,4-dimethyltetrahydrofuran	64265-26-5	47.6406	564.54	0.3800	154.45	564.54	1,2	370.75	31.734
8421	C6H12O	2,5-dimethyltetrahydrofuran	1003-38-9	46.9536	556.78	0.3800	154.45	556.78	1,2	365.65	31.276
8422	C6H12O	3,3-dimethyltetrahydrofuran	15833-75-7	47.5627	573.90	0.3800	154.45	573.90	1,2	372.15	31.970
8423	C6H12O	3,4-dimethyltetrahydrofuran	32970-37-9	49.1102	581.14	0.3800	154.45	581.14	1,2	381.65	32.713
8425	C6H12O	1-hexen-3-ol	4798-44-1	54.9255	587.00	0.3800	307.15	587.00	1,2	407.15	35.039
8426	C6H12O	cis-2-hexen-1-ol	928-94-9	61.4498	587.00	0.3800	330.15	587.00	1,2	430.15	37.215
8427	C6H12O	trans-2-hexen-1-ol	928-95-0	61.4498	587.00	0.3800	330.15	587.00	1,2	430.15	37.215
8428	C6H12O	cis-3-hexen-1-ol	928-96-1	61.2974	587.00	0.3800	329.65	587.00	1,2	429.65	37.168
8429	C6H12O	trans-4-hexen-1-ol	928-92-7	62.0650	587.00	0.3800	332.15	587.00	1,2	432.15	37.405
8430	C6H12O	4-hexen-2-ol	52387-50-5	55.8591	587.00	0.3800	310.65	587.00	1,2	410.65	35.370
8431	C6H12O	5-hexen-2-ol	626-94-8	56.2652	587.00	0.3800	312.15	587.00	1,2	412.15	35.512
8432	C6H12O	2-methyl-2-penten-1-ol	1610-29-3	64.7791	587.00	0.3800	340.65	587.00	1,2	440.65	38.212
8433	C6H12O	2-methyl-3-penten-2-ol	63468-05-3	49.4615	587.00	0.3800	285.15	587.00	1,2	385.15	32.968
8434	C6H12O	2-methyl-4-penten-2-ol	624-97-5	51.2513	587.00	0.3800	200.15	587.00	1,2	392.65	33.673
8435	C6H12O	3-methyl-3-penten-2-ol	2747-53-7	56.5380	587.00	0.3800	313.15	587.00	1,2	413.15	35.606
8436	C6H12O	3-methyl-4-penten-2-ol	1569-59-1	52.7356	587.00	0.3800	298.65	587.00	1,2	398.65	34.238
8437	C6H12O	4-methyl-2-penten-1-ol	5362-55-0	62.0650	587.00	0.3800	332.15	587.00	1,2	432.15	37.405
8438	C6H12O	4-methyl-3-penten-2-ol	4325-82-0	54.9255	587.00	0.3800	307.15	587.00	1,2	407.15	35.039
8439	C6H12O	4-methyl-3-pentenol	763-89-3	61.4498	587.00	0.3800	330.15	587.00	1,2	430.15	37.215
8440	C6H12O	4-methyl-4-penten-2-ol	2004-67-3	53.6245	587.00	0.3800	302.15	587.00	1,2	402.15	34.568
8449	C6H12O	5-hexen-1-ol	821-41-0	58.6243	587.00	0.3800	320.60	587.00	1,2	420.60	36.311
8450	C6H12O	trans-3-hexen-1-ol	928-97-2	51.6330	587.00	0.3800	294.21	587.00	2	394.21	33.820
8451	C6H12O	3-methyl-1-penten-3-ol	918-85-4	50.7671	587.00	0.3800	290.65	587.00	1,2	390.65	33.485
8453	C6H12O	2,2-dimethyl-3-butanone	75-97-8	55.8478	576.61	0.3800	294.21	576.61	2	394.21	36.063
8460	C6H12O2	hexanoic acid	142-62-1	95.2000	667.00	0.4760	270.15	667.00	1,2	478.85	52.122
8461	C6H12O2	2-ethyl butyric acid	88-09-5	78.9357	655.00	0.3940	258.15	655.00	1,2	466.95	48.277
8462	C6H12O2	tert-butylacetic acid	1070-83-3	63.8215	661.00	0.3800	279.65	661.00	1,2	463.15	40.355
8463	C6H12O2	2,2-dimethylbutanoic acid	595-37-9	69.7641	661.00	0.3800	259.15	661.00	1,2	459.15	44.449
8464	C6H12O2	2,3-dimethylbutanoic acid	14287-61-7	64.2886	661.00	0.3800	272.35	661.00	1,2	464.85	40.517
8465	C6H12O2	2-methylpentanoic acid, (±)	22160-39-0	65.3767	661.00	0.3800	368.75	661.00	1,2	468.75	40.890
8466	C6H12O2	3-methylpentanoic acid, (±)	22160-40-3	65.9153	661.00	0.3800	231.55	661.00	1,2	470.65	41.071
8467	C6H12O2	4-methylpentanoic acid	646-07-1	66.7775	661.00	0.3800	240.15	661.00	1,2	473.65	41.358
8468	C6H12O2	pentyl formate	638-49-3	64.0288	576.00	0.3960	199.65	576.00	1,2	406.60	39.436
8469	C6H12O2	1-methylbutyl formate	58368-66-4	53.9042	574.00	0.3800	200.58	574.00	2	393.76	34.710
8470	C6H12O2	2-methylbutyl formate	35073-27-9	53.2763	577.00	0.3800	200.58	577.00	2	393.76	34.454

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
8471	C6H12O2	isopentyl formate	110-45-2	54.6385	578.00	0.3800	200.58	578.00	1,2	397.25	35.128
8472	C6H12O2	1-ethylpropyl formate	58368-67-5	53.2185	579.00	0.3800	200.58	579.00	2	393.76	34.513
8473	C6H12O2	1,1-dimethylpropyl formate	757-88-0	51.4257	570.00	0.3800	218.00	570.00	1,2	385.65	33.488
8474	C6H12O2	1,2-dimethylpropyl formate	66794-46-5	54.0627	573.00	0.3800	185.58	573.00	2	393.32	34.794
8475	C6H12O2	2,2-dimethylpropyl formate	23361-67-3	52.0666	575.00	0.3800	218.00	575.00	2	390.97	33.771
8476	C6H12O2	butyl acetate	123-86-4	57.7498	579.65	0.3930	199.65	579.65	1,2	399.15	36.511
8477	C6H12O2	isobutyl acetate	110-19-0	55.0026	561.00	0.3600	174.30	561.00	1,2	389.80	35.877
8478	C6H12O2	sec-butyl acetate	105-46-4	56.5231	561.00	0.4210	174.15	561.00	1,2	385.15	34.683
8479	C6H12O2	tert-butyl acetate	540-88-5	50.5840	545.00	0.3890	283.15	545.00	1,2	369.15	32.577
8480	C6H12O2	propyl propanoate	106-36-5	56.3035	578.00	0.3960	197.25	578.00	1,2	395.65	35.656
8481	C6H12O2	isopropyl propanoate	637-78-5	53.2388	553.00	0.3800	184.21	553.00	1,2	383.15	33.995
8482	C6H12O2	ethyl butanoate	105-54-4	51.9817	571.00	0.3340	175.15	571.00	1,2	394.65	35.109
8483	C6H12O2	ethyl isobutanoate	97-62-1	50.5800	553.15	0.3310	185.00	553.15	1,2	383.00	34.238
8484	C6H12O2	cyclohexyl peroxide	766-07-4	80.1850	685.00	0.3800	253.15	685.00	1,2	490.00	49.744
8485	C6H12O2	diacetone alcohol	123-42-2	73.0699	606.00	0.3800	380.00	606.00	1,2	441.00	44.570
8497	C6H12O2	methyl 2,2-dimethylpropanoate	598-98-1	46.1636	565.50	0.3800	274.25	565.50	1,2	374.25	30.576
8498	C6H12O2	methyl isopentanoate	556-24-1	52.6775	572.95	0.3800	289.65	572.95	1,2	389.65	34.162
8499	C6H12O2	methyl pentanoate	624-24-8	59.9943	572.95	0.3800	300.55	572.95	1,2	400.55	38.011
8513	C6H12O2	methyl 2-methylbutyrate	868-57-5	52.0100	572.95	0.3800	288.55	572.95	1,2	388.55	33.806
8514	C6H12O2	(±)-3-methylvaleric acid	105-43-1	65.4755	661.00	0.3800	231.65	661.00	1,2	469.10	40.923
8515	C6H12O2	2-methylvaleric acid	97-61-0	55.0185	661.00	0.3800	335.40	661.00	1,2	435.40	36.568
8531	C6H12O3	2-ethoxyethyl acetate	111-15-9	65.9500	597.00	0.3860	211.45	597.00	1,2	429.45	40.384
8532	C6H12O3	hydroxycaproic acid	1191-25-9	126.9157	758.00	0.3830	334.00	758.00	1,2	576.00	73.487
8533	C6H12O3	paraldehyde	123-63-7	58.5854	579.00	0.3800	320.00	579.00	1,2	397.25	37.720
8621	C6H12S	thiacycloheptane	4753-80-4	55.0244	640.07	0.3800	292.14	640.07	1,2	446.70	34.915
8622	C6H12S	2-ethylthiacyclopentane	1551-32-2	55.4493	659.28	0.3800	251.23	659.28	1,2	430.15	37.109
8623	C6H12S	3-ethylthiacyclopentane	62184-67-2	56.5307	671.54	0.3800	251.23	671.54	1,2	438.15	37.833
8624	C6H12S	2,2-dimethylthiacyclopentane	5161-75-1	50.4010	623.18	0.3800	275.13	623.18	2	400.03	34.116
8625	C6H12S	2,cis-3-dimethylthiacyclopentane	5161-77-3	50.0308	607.56	0.3800	246.99	607.56	2	395.12	33.560
8626	C6H12S	2,trans-3-dimethylthiacyclopentane	5161-78-4	50.0308	607.56	0.3800	246.99	607.56	2	395.12	33.560
8627	C6H12S	2,cis-4-dimethylthiacyclopentane	5161-79-5	50.0308	607.56	0.3800	246.99	607.56	2	395.12	33.560
8628	C6H12S	2,trans-4-dimethylthiacyclopentane	5161-80-8	50.0308	607.56	0.3800	246.99	607.56	2	395.12	33.560
8629	C6H12S	2,cis-5-dimethylthiacyclopentane	5161-13-7	52.7649	639.17	0.3800	183.75	639.17	1,2	415.68	35.394
8630	C6H12S	2,trans-5-dimethylthiacyclopentane	5161-14-8	52.6943	638.36	0.3800	196.80	638.36	1,2	415.15	35.347
8631	C6H12S	3,3-dimethylthiacyclopentane	5161-76-2	50.4010	623.18	0.3800	275.13	623.18	2	400.03	34.116
8632	C6H12S	3,cis-4-dimethylthiacyclopentane	5161-11-5	50.0308	607.56	0.3800	246.99	607.56	2	395.12	33.560
8633	C6H12S	3,trans-4-dimethylthiacyclopentane	5161-12-6	50.0308	607.56	0.3800	246.99	607.56	2	395.12	33.560
8634	C6H12S	2-methylthiacyclohexane	5161-16-0	54.1000	660.59	0.3800	215.01	660.59	1,2	426.19	36.493
8635	C6H12S	3-methylthiacyclohexane	5258-50-4	54.7657	668.34	0.3800	212.98	668.34	1,2	431.19	36.942
8636	C6H12S	4-methylthiacyclohexane	5161-17-1	54.8456	669.27	0.3800	245.05	669.27	1,2	431.79	36.996
8647	C6H13Br	1-bromohexane	111-25-1	59.9237	623.86	0.3800	188.45	623.86	1,2	428.45	38.550
8648	C6H13Br	2-bromohexane	3377-86-4	57.3505	612.00	0.3800	201.68	612.00	1,2	417.05	37.131
8649	C6H13Br	3-bromohexane	3377-87-5	56.9763	608.18	0.3800	201.68	608.18	1,2	414.45	36.889
8650	C6H13Br	1-bromo-2-methylpentane	25346-33-2	57.3649	612.15	0.3800	201.68	612.15	1,2	417.15	37.141
8651	C6H13Br	1-bromo-3-methylpentane	51116-73-5	57.9408	618.02	0.3800	201.68	618.02	1,2	421.15	37.514
8652	C6H13Br	1-bromo-4-methylpentane	626-88-0	57.7968	616.55	0.3800	201.68	616.55	1,2	420.15	37.420
8653	C6H13Br	2-bromo-2-methylpentane	4283-80-1	53.1113	595.92	0.3800	219.10	595.92	1,2	415.65	33.718
8654	C6H13Br	2-bromo-3-methylpentane	62168-41-6	54.3256	594.59	0.3800	186.68	594.59	2	401.96	35.399
8655	C6H13Br	2-bromo-4-methylpentane	30310-22-6	54.6356	597.83	0.3800	178.95	597.83	1,2	404.15	35.601
8656	C6H13Br	3-bromo-2-methylpentane	4283-83-4	54.3256	594.59	0.3800	186.68	594.59	2	401.96	35.399
8657	C6H13Br	3-bromo-3-methylpentane	25346-31-0	53.1113	595.92	0.3800	180.95	595.92	1,2	403.15	34.588
8658	C6H13Br	1-bromo-2,2-dimethylbutane	62168-42-7	56.3361	601.65	0.3800	201.68	601.65	2	410.00	36.475
8659	C6H13Br	1-bromo-2,3-dimethylbutane	30540-31-9	54.9982	616.11	0.3800	219.10	616.11	1,2	413.15	36.066
8660	C6H13Br	1-bromo-3,3-dimethylbutane	1647-23-0	55.4853	606.70	0.3800	186.68	606.70	1,2	410.15	36.155
8661	C6H13Br	2-bromo-2,3-dimethylbutane	594-52-5	53.1113	595.92	0.3800	298.15	595.92	1,2	406.15	34.383
8662	C6H13Br	2-bromo-3,3-dimethylbutane	26356-06-9	53.0587	609.30	0.3800	298.15	609.30	1,2	405.15	35.019
8663	C6H13Br	1-bromo-2-ethylbutane	3814-34-4	54.6107	626.30	0.3800	204.10	626.30	1,2	416.45	36.043
8669	C6H13Cl	1-chlorohexane	544-10-5	55.1869	596.19	0.3800	179.15	596.19	1,2	408.24	35.590
8670	C6H13Cl	2-chlorohexane	638-28-8	52.7945	584.57	0.3800	171.80	584.57	1,2	397.15	34.266
8671	C6H13Cl	3-chlorohexane	2346-81-8	52.6552	583.10	0.3800	171.80	583.10	1,2	396.15	34.175
8672	C6H13Cl	1-chloro-2-methylpentane	14753-05-0	52.2373	578.68	0.3800	171.80	578.68	1,2	393.15	33.904
8673	C6H13Cl	1-chloro-3-methylpentane	62016-93-7	53.4914	591.93	0.3800	171.80	591.93	1,2	402.15	34.718
8674	C6H13Cl	1-chloro-4-methylpentane	62016-94-8	52.9339	586.04	0.3800	171.80	586.04	1,2	398.15	34.356
8675	C6H13Cl	2-chloro-2-methylpentane	4325-48-8	49.4662	575.46	0.3800	189.22	575.46	1,2	384.65	32.518
8676	C6H13Cl	2-chloro-3-methylpentane	24319-09-3	49.6371	563.86	0.3800	156.80	563.86	2	380.00	32.424
8677	C6H13Cl	2-chloro-4-methylpentane	25346-32-1	50.4798	572.99	0.3800	156.80	572.99	1,2	386.15	32.975
8678	C6H13Cl	3-chloro-2-methylpentane	38384-05-3	50.3222	571.28	0.3800	156.80	571.28	2	385.00	32.872
8679	C6H13Cl	3-chloro-3-methylpentane	918-84-3	50.0735	582.19	0.3800	189.22	582.19	1,2	389.15	32.918
8680	C6H13Cl	1-chloro-2-ethylbutane	4737-41-1	53.0732	587.51	0.3800	171.80	587.51	1,2	399.15	34.447
8681	C6H13Cl	1-chloro-2,2-dimethylbutane	6366-35-4	50.2085	583.68	0.3800	189.22	583.68	1,2	390.15	33.006
8682	C6H13Cl	1-chloro-2,3-dimethylbutane	600-06-6	51.7143	586.34	0.3800	156.80	586.34	1,2	395.15	33.781
8683	C6H13Cl	1-chloro-3,3-dimethylbutane	2855-08-5	50.2085	583.68	0.3800	189.22	583.68	1,2	390.15	33.006
8684	C6H13Cl	2-chloro-2,3-dimethylbutane	594-57-0	48.7865	581.14	0.3800	262.75	581.14	1,2	385.15	32.279
8685	C6H13Cl	2-chloro-3,3-dimethylbutane	5750-00-5	48.6535	579.63	0.3800	272.25	579.63	1,2	384.15	32.191
8705	C6H13F	1-fluorohexane	373-14-8	49.4841	528.10	0.3800	170.15	528.10	1,2	364.65	31.690
8706	C6H13F	2-fluorohexane	372-54-3	47.5191	528.59	0.3800	174.03	528.59	1,2	359.35	30.826
8707	C6H13F	3-fluorohexane	52688-75-2	47.0616	523.73	0.3800	169.15	523.73	1,2	356.05	30.529
8708	C6H13F	1-fluoro-2-methylpentane	62127-27-9	46.9369	522.41	0.3800	174.03	522.41	1,2	355.15	30.448
8709	C6H13F	1-fluoro-3-methylpentane	62127-28-0	47.6300	529.76	0.3800	174.03	529.76	1,2	360.15	30.898
8710	C6H13F	1-fluoro-4-methylpentane	62127-29-1	47.2141	525.35	0.3800	174.03	525.35	1,2	357.15	30.628

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
8711	C6H13F	2-fluoro-2-methylpentane	62127-30-4	44.7826	523.26	0.3800	191.45	523.26	2	350.00	29.424
8712	C6H13F	2-fluoro-3-methylpentane	62127-31-5	45.5159	519.00	0.3800	159.03	519.00	2	350.00	29.716
8713	C6H13F	2-fluoro-4-methylpentane	62127-32-6	45.5159	519.00	0.3800	159.03	519.00	2	350.00	29.716
8714	C6H13F	3-fluoro-2-methylpentane	62127-33-7	44.8545	511.81	0.3800	159.03	511.81	1,2	345.15	29.285
8715	C6H13F	3-fluoro-3-methylpentane	19031-61-9	43.4408	508.31	0.3800	191.45	508.31	2	340.00	28.542
8716	C6H13F	1-fluoro-2,2-dimethylbutane	62127-34-8	46.2235	514.83	0.3800	174.03	514.83	2	350.00	29.985
8717	C6H13F	1-fluoro-2,3-dimethylbutane	62127-35-9	45.3400	529.46	0.3800	191.45	529.46	1,2	354.15	29.790
8718	C6H13F	1-fluoro-3,3-dimethylbutane	371-64-2	45.3590	517.29	0.3800	159.03	517.29	1,2	348.85	29.614
8719	C6H13F	2-fluoro-2,3-dimethylbutane	354-09-6	43.4408	508.31	0.3800	191.45	508.31	2	340.00	28.542
8720	C6H13F	2-fluoro-3,3-dimethylbutane	92089-78-6	43.1997	517.40	0.3800	176.45	517.40	1,2	343.15	28.567
8721	C6H13F	1-fluoro-2-ethylbutane	---	41.7640	501.01	0.3800	176.45	501.01	2	332.28	27.618
8724	C6H13I	1-iodohexane	638-45-9	75.1047	625.21	0.3800	198.95	625.21	1,2	454.48	45.862
8725	C6H13I	2-iodohexane	59654-13-6	71.8084	611.98	0.3800	199.94	611.98	1,2	442.15	44.118
8726	C6H13I	3-iodohexane	31294-91-4	71.6392	610.59	0.3800	199.94	610.59	1,2	441.15	44.014
8727	C6H13I	1-iodo-2-methylpentane	31294-94-7	71.6392	610.59	0.3800	199.94	610.59	1,2	441.15	44.014
8728	C6H13I	1-iodo-3-methylpentane	24346-53-0	72.6544	618.90	0.3800	199.94	618.90	1,2	447.15	44.638
8729	C6H13I	1-iodo-4-methylpentane	6196-80-1	72.5021	617.65	0.3800	199.94	617.65	1,2	446.25	44.544
8730	C6H13I	2-iodo-2-methylpentane	31294-95-8	66.8963	597.98	0.3800	217.36	597.98	2	426.59	41.608
8731	C6H13I	2-iodo-3-methylpentane	24319-07-1	68.4535	597.44	0.3800	184.94	597.44	2	428.94	42.317
8732	C6H13I	2-iodo-4-methylpentane	31294-96-9	68.6548	599.13	0.3800	184.94	599.13	1,2	430.15	42.441
8733	C6H13I	3-iodo-2-methylpentane	31294-97-0	68.4535	597.44	0.3800	184.94	597.44	2	428.94	42.317
8734	C6H13I	3-iodo-3-methylpentane	24319-05-2	66.8963	597.98	0.3800	217.36	597.98	2	426.59	41.608
8735	C6H13I	1-iodo-2,2-dimethylbutane	31294-98-1	69.6493	594.30	0.3800	199.94	594.30	2	429.38	42.792
8736	C6H13I	1-iodo-2,3-dimethylbutane	31295-00-8	68.7874	614.19	0.3800	217.36	614.19	1,2	438.15	42.784
8737	C6H13I	1-iodo-3,3-dimethylbutane	15672-88-5	69.6530	607.49	0.3800	184.94	607.49	1,2	436.15	43.058
8738	C6H13I	2-iodo-2,3-dimethylbutane	594-59-2	66.8963	597.98	0.3800	217.36	597.98	2	426.59	41.608
8739	C6H13I	2-iodo-3,3-dimethylbutane	24556-56-7	66.5558	608.43	0.3800	202.36	608.43	1,2	431.15	41.656
8740	C6H13I	1-iodo-2-ethylbutane	---	67.8443	619.72	0.3800	202.36	619.72	1,2	439.15	42.462
8742	C6H13N	cyclohexylamine	108-91-8	57.1600	615.00	0.4210	255.45	615.00	1,2	407.65	36.167
8745	C6H13N	hexamethyleneimine	111-49-9	61.6000	615.00	0.4430	236.15	615.00	1,2	404.85	38.282
8790	C6H13NO2	1-nitrohexane	646-14-0	69.5740	659.32	0.3800	300.49	659.32	1,2	466.65	43.593
8791	C6H13NO2	2-nitrohexane	14255-44-8	65.7986	639.00	0.3800	285.49	639.00	1,2	449.15	41.488
8792	C6H13NO2	3-nitrohexane	7286-40-0	65.7986	639.00	0.3800	285.49	639.00	1,2	449.15	41.488
8793	C6H13NO2	1-nitro-2-methylpentane	---	65.3165	634.51	0.3800	285.49	634.51	2	446.00	41.184
8794	C6H13NO2	1-nitro-3-methylpentane	---	65.3165	634.51	0.3800	285.49	634.51	2	446.00	41.184
8795	C6H13NO2	1-nitro-4-methyl pentane	---	65.3165	634.51	0.3800	285.49	634.51	2	446.00	41.184
8796	C6H13NO2	2-nitro-2-methylpentane	---	63.2254	643.67	0.3800	302.91	643.67	2	446.00	40.370
8797	C6H13NO2	2-nitro-3-methylpentane	42202-42-6	63.8619	634.96	0.3800	270.49	634.96	1,2	443.15	40.522
8798	C6H13NO2	2-nitro-4-methylpentane	---	63.8393	634.74	0.3800	270.49	634.74	2	443.00	40.507
8799	C6H13NO2	3-nitro-2-methylpentane	---	63.8393	634.74	0.3800	270.49	634.74	2	443.00	40.507
8800	C6H13NO2	3-nitro-3-methylpentane	---	62.7807	639.34	0.3800	302.91	639.34	2	443.00	40.086
8801	C6H13NO2	1-nitro-2,2-dimethylbutane	2625-29-8	62.6547	638.11	0.3800	302.91	638.11	1,2	442.15	40.005
8802	C6H13NO2	1-nitro-2,3-dimethylbutane	66553-34-2	64.7662	643.56	0.3800	270.49	643.56	1,2	449.15	41.096
8803	C6H13NO2	1-nitro-3,3-dimethylbutane	---	63.0772	642.23	0.3800	302.91	642.23	2	445.00	40.275
8804	C6H13NO2	2-nitro-2,3-dimethylbutane	34075-28-0	61.6795	642.93	0.3800	280.15	642.93	1,2	442.15	39.634
8805	C6H13NO2	2-nitro-3,3-dimethylbutane	599-02-0	60.8039	634.21	0.3800	313.15	634.21	1,2	436.15	39.072
8806	C6H13NO2	1-nitro-2-ethylbutane	---	65.1634	633.09	0.3800	285.49	633.09	2	445.00	41.087
8877	C6H14	hexane	110-54-3	45.6100	507.43	0.4010	177.84	507.43	1,2	341.88	29.107
8878	C6H14	2,2-dimethylbutane	75-83-2	39.6988	488.78	0.3770	174.28	488.78	1,2	322.88	26.416
8879	C6H14	2,3-dimethylbutane	79-29-8	42.0217	499.98	0.3910	145.19	499.98	1,2	331.13	27.488
8880	C6H14	2-methylpentane	107-83-5	42.7800	497.50	0.3840	119.55	497.50	1,2	333.41	27.942
8881	C6H14	3-methylpentane	96-14-0	43.2499	504.43	0.3870	110.25	504.43	1,2	336.42	28.262
8944	C6H14N2O2	lysine	56-87-1	124.0928	821.00	0.3740	498.00	821.00	1,2	615.00	73.989
8970	C6H14O	1-hexanol	111-27-3	84.1512	611.35	0.4980	228.55	611.35	1,2	430.15	45.925
8971	C6H14O	2-hexanol	626-93-7	91.0350	586.20	0.6180	223.00	586.20	1,2	413.04	42.932
8972	C6H14O	3-hexanol	623-37-0	60.6443	579.30	0.3800	202.70	579.30	1,2	408.55	38.123
8973	C6H14O	2-methyl-1-pentanol	105-30-6	88.8320	582.00	0.5890	320.00	582.00	1,2	421.15	42.879
8974	C6H14O	3-methyl-1-pentanol	589-35-5	64.5653	603.20	0.3800	202.70	603.20	1,2	425.55	40.575
8975	C6H14O	4-methyl-1-pentanol	626-89-1	64.1867	603.50	0.3800	202.70	603.50	1,2	424.95	40.407
8976	C6H14O	4-methyl-2-pentanol	108-11-2	66.5160	574.40	0.3950	320.00	574.40	1,2	404.85	54.078
8977	C6H14O	2-methyl-2-pentanol	590-36-3	59.0656	559.50	0.3800	171.15	559.50	1,2	394.56	37.132
8978	C6H14O	3-methyl-2-pentanol	565-60-6	60.9715	578.00	0.3800	187.70	578.00	1,2	407.36	38.352
8979	C6H14O	2-methyl-3-pentanol	565-67-3	59.7827	564.40	0.3800	187.70	564.40	1,2	399.66	37.442
8980	C6H14O	3-methyl-3-pentanol	77-74-7	58.8171	562.40	0.3800	249.55	562.40	1,2	395.56	37.065
8981	C6H14O	2-ethyl-1-butanol	97-95-0	79.0608	580.00	0.4700	250.00	580.00	1,2	419.65	43.205
8982	C6H14O	2,2-dimethyl-1-butanol	1185-33-7	59.6427	589.00	0.3800	220.12	589.00	1,2	409.95	37.935
8983	C6H14O	2,3-dimethyl-1-butanol	19550-30-2	63.2807	599.00	0.3800	187.70	599.00	1,2	422.15	39.805
8984	C6H14O	2,3-dimethyl-1-butanol, (±)-	20281-85-0	58.2778	581.80	0.3800	317.65	581.80	1,2	417.65	36.032
8985	C6H14O	3,3-dimethyl-1-butanol	624-95-3	63.3469	587.60	0.3800	220.12	587.60	1,2	416.15	39.669
8986	C6H14O	2,3-dimethyl-2-butanol	594-60-5	56.2594	564.40	0.3800	262.75	564.40	1,2	391.75	35.869
8987	C6H14O	3,3-dimethyl-2-butanol	464-07-3	56.4737	566.40	0.3800	278.45	566.40	1,2	393.15	36.004
8988	C6H14O	3,3-dimethyl-2-butanol, (±)	20281-91-8	54.8117	581.80	0.3800	278.75	581.80	1,2	393.55	35.699
8989	C6H14O	(RS)-2-hexanol	20281-86-1	57.0008	581.80	0.3800	313.15	581.80	1,2	413.15	35.606
8990	C6H14O	2-hexanol, (R)	26549-24-6	56.1696	581.80	0.3800	310.15	581.80	1,2	410.15	35.323
8991	C6H14O	3-hexanol, (R)	13471-42-6	55.6239	581.80	0.3800	308.15	581.80	1,2	408.15	35.134
8992	C6H14O	3-methyl-1-pentanol, (±)	20281-83-8	60.7953	581.80	0.3800	326.15	581.80	1,2	426.15	36.836
8993	C6H14O	dipropyl ether	111-43-3	51.0400	530.60	0.4000	149.95	530.60	1,2	362.79	32.206
8994	C6H14O	propyl isopropyl ether	627-08-7	47.0654	518.96	0.3800	164.11	518.96	1,2	353.15	30.507
8995	C6H14O	diisopropyl ether	108-20-3	45.7623	500.05	0.3800	300.00	500.05	1,2	341.45	29.580
8996	C6H14O	methyl pentyl ether	628-80-8	50.5018	542.62	0.3800	179.11	542.62	1,2	372.15	32.526

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
8997	C6H14O	methyl 1-methylbutyl ether	6795-88-6	48.6030	535.12	0.3800	164.11	535.12	1,2	364.15	31.504
8998	C6H14O	methyl 2-methylbutyl ether	62016-48-2	48.4631	533.65	0.3800	164.11	533.65	1,2	363.15	31.413
8999	C6H14O	methyl 3-methylbutyl ether	626-91-5	48.4631	533.65	0.3800	164.11	533.65	1,2	363.15	31.413
9000	C6H14O	methyl 1-ethylpropyl ether	36839-67-5	48.1834	530.71	0.3800	164.11	530.71	1,2	361.15	31.232
9001	C6H14O	methyl 1,2-dimethylpropyl ether	62016-49-3	46.7549	527.59	0.3800	149.11	527.59	1,2	356.15	30.501
9002	C6H14O	methyl tert-pentyl ether	994-05-8	46.5576	534.00	0.3750	259.45	534.00	1,2	359.45	30.611
9003	C6H14O	methyl 2,2-dimethylpropyl ether	1118-00-9	45.9985	531.90	0.3800	181.53	531.90	1,2	356.15	30.199
9004	C6H14O	ethyl butyl ether	628-81-9	50.8166	531.00	0.4080	170.15	531.00	1,2	365.35	31.593
9005	C6H14O	ethyl isobutyl ether	627-02-1	47.2190	520.57	0.3800	164.11	520.57	1,2	354.25	30.607
9006	C6H14O	ethyl sec-butyl ether	2679-87-0	47.2330	520.72	0.3800	164.11	520.72	1,2	354.35	30.616
9007	C6H14O	ethyl tert-butyl ether	637-92-3	44.6175	516.67	0.3800	179.15	516.67	1,2	345.95	29.292
9008	C6H14O	(S)-(+)-2-hexanol	52019-78-0	56.5833	581.80	0.3800	311.65	581.80	1,2	411.65	35.464
9009	C6H14O	tert-hexyl alcohol	26401-20-7	52.9901	581.80	0.3800	290.55	581.80	2	390.55	34.721
9020	C6H14O2	acetal	105-57-7	59.1418	541.00	0.4370	173.15	541.00	1,2	376.75	35.129
9021	C6H14O2	2-butoxyethanol	111-76-2	69.7623	600.00	0.3060	203.15	600.00	1,2	444.47	46.153
9022	C6H14O2	hexylene glycol	107-41-5	108.5708	621.00	0.4020	223.15	621.00	1,2	470.65	61.388
9023	C6H14O2	1,2-hexanediol	6920-22-5	100.5504	650.10	0.3800	318.15	650.10	1,2	497.15	58.020
9024	C6H14O2	1,3-hexanediol	21531-91-9	102.8553	664.48	0.3800	263.52	664.48	2	508.15	59.350
9025	C6H14O2	1,4-hexanediol	16432-53-4	107.2603	691.94	0.3800	263.52	691.94	2	529.15	61.892
9026	C6H14O2	1,5-hexanediol	928-40-5	102.1951	660.36	0.3800	263.52	660.36	1,2	510.15	58.219
9027	C6H14O2	1,6-hexanediol	629-11-8	115.8420	670.00	0.3800	315.15	670.00	1,2	516.15	66.230
9028	C6H14O2	2,3-hexanediol	617-30-1	95.0678	628.03	0.3800	248.52	628.03	1,2	478.15	55.155
9029	C6H14O2	2,4-hexanediol	19780-90-6	71.1967	649.93	0.3800	384.15	649.93	1,2	484.15	42.363
9030	C6H14O2	2,5-hexanediol	2935-44-6	98.3243	648.79	0.3800	248.52	648.79	1,2	493.95	57.044
9031	C6H14O2	3,4-hexanediol	922-17-8	98.9410	652.71	0.3800	248.52	652.71	2	496.94	57.402
9032	C6H14O2	2-methyl-1,2-pentanediol	20667-05-4	95.8600	646.52	0.3800	280.94	646.52	2	490.00	55.918
9033	C6H14O2	2-methyl-1,3-pentanediol	149-31-5	98.2212	648.13	0.3800	243.15	648.13	1,2	493.45	56.985
9034	C6H14O2	2-methyl-1,5-pentanediol	42856-62-2	98.9410	652.71	0.3800	248.52	652.71	2	496.94	57.402
9035	C6H14O2	2-methyl-2,3-pentanediol	7795-80-4	97.4873	670.50	0.3800	265.94	670.50	2	505.76	57.187
9036	C6H14O2	3-methyl-1,3-pentanediol	33879-72-0	94.4369	637.26	0.3800	280.94	637.26	2	482.98	55.088
9037	C6H14O2	3-methyl-1,5-pentanediol	4457-71-0	105.6654	682.00	0.3800	213.15	682.00	1,2	521.55	60.972
9038	C6H14O2	3-methyl-2,3-pentanediol	63521-37-9	97.4873	670.50	0.3800	265.94	670.50	2	505.76	57.187
9039	C6H14O2	3-methyl-2,4-pentanediol	5683-44-3	102.0148	685.78	0.3800	233.52	685.78	1,2	484.65	64.008
9040	C6H14O2	4-methyl-1,4-pentanediol	1462-10-8	96.7421	652.26	0.3800	280.94	652.26	1,2	494.35	56.433
9041	C6H14O2	DL-erythro-4-methyl-2,3-pentanediol	6702-10-9	102.0148	685.78	0.3800	322.15	685.78	2	519.72	59.513
9042	C6H14O2	DL-threo-4-methyl-2,3-pentanediol	6464-40-0	102.0148	685.78	0.3800	332.15	685.78	2	519.72	59.513
9043	C6H14O2	2-ethyl-1,2-butanediol	66553-16-0	92.4456	624.29	0.3800	318.65	624.29	1,2	473.15	53.926
9044	C6H14O2	2-ethyl-1,3-butanediol	66553-17-1	95.4489	630.46	0.3800	248.52	630.46	2	480.00	55.376
9045	C6H14O2	2-ethyl-1,4-butanediol	57716-79-7	95.4489	630.46	0.3800	248.52	630.46	2	480.00	55.376
9046	C6H14O2	2,2-dimethyl-1,3-butanediol	76-35-7	91.4567	630.45	0.3800	260.35	630.45	1,2	475.55	53.649
9047	C6H14O2	2,2-dimethyl-1,4-butanediol	32812-23-0	92.3442	636.35	0.3800	265.94	636.35	2	480.00	54.170
9048	C6H14O2	2,3-dimethyl-1,2-butanediol	66553-15-9	92.3442	636.35	0.3800	265.94	636.35	2	480.00	54.170
9049	C6H14O2	2,3-dimethyl-1,3-butanediol	24893-35-4	92.3442	636.35	0.3800	265.94	636.35	2	480.00	54.170
9050	C6H14O2	DL-2,3 -dimethyl-1,4-butanediol	---	98.9410	652.71	0.3800	248.52	652.71	2	496.94	57.402
9051	C6H14O2	meso-2,3-dimethyl-1,4-butanediol	---	98.9410	652.71	0.3800	248.52	652.71	2	496.94	57.402
9052	C6H14O2	2,3-dimethyl-2,3-butanediol	76-09-5	82.7373	597.11	0.3800	314.25	597.11	1,2	445.95	49.089
9053	C6H14O2	3,3-dimethyl-1,2-butanediol	59562-82-2	92.0749	634.56	0.3800	321.65	634.56	1,2	478.65	54.012
9054	C6H14O2	2-propyl-1,3-propanediol	2612-28-4	95.7388	620.04	0.3800	263.52	620.04	2	474.16	55.244
9055	C6H14O2	2-isopropyl-1,3-propanediol	2612-27-3	98.9410	652.71	0.3800	248.52	652.71	2	496.94	57.402
9056	C6H14O2	2-methyl-2-ethyl-1,3-propanediol	77-84-9	97.6752	658.33	0.3800	313.45	658.33	1,2	498.95	56.977
9057	C6H14O2	1-(1-methylethoxy)-2-propanol	3944-36-3	58.0610	600.00	0.3800	310.65	600.00	1,2	410.65	37.458
9058	C6H14O2	2-(2-methylpropoxy)ethanol	4439-24-1	60.9880	600.00	0.3800	333.15	600.00	1,2	433.15	37.500
9059	C6H14O2	1-propoxy-2-propanol	1569-01-3	58.1459	600.00	0.3800	323.15	600.00	1,2	423.15	36.552
9060	C6H14O2	ethylene glycol diethyl ether	629-14-1	47.7447	600.00	0.3800	199.15	600.00	1,2	392.55	31.890
9061	C6H14O2	(2R,5R)-2,5-hexanediol	17299-07-9	72.0140	649.93	0.3800	323.15	649.93	1,2	486.65	42.603
9062	C6H14O2	(2S,5S)-2,5-hexanediol	34338-96-0	72.0140	649.93	0.3800	324.65	649.93	1,2	486.65	42.603
9063	C6H14O2	3-methoxy-3-methylbutanol	56539-66-3	65.2900	600.00	0.3800	223.25	600.00	1,2	447.15	38.830
9064	C6H14O2	(R)-(-)-2-methyl-2,4-pentanediol	99210-90-9	66.8535	649.93	0.3800	370.15	649.93	1,2	470.15	41.024
9067	C6H14O2	ethylene glycol mono-sec-butyl ether	7795-91-7	78.2011	600.00	0.3800	381.98	600.00	2	481.98	42.156
9068	C6H14O2	n-propoxypropanol (mixed isomers)	30136-13-1	78.2011	600.00	0.3800	381.98	600.00	2	481.98	42.156
9069	C6H14O2S	dipropyl sulfone	598-03-8	87.3217	763.00	0.3850	303.00	763.00	1,2	543.00	54.098
9075	C6H14O3	diethylene glycol dimethyl ether	111-96-6	73.3815	604.00	0.4570	203.15	604.00	1,2	432.91	41.232
9076	C6H14O3	dipropylene glycol	25265-71-8	117.4952	654.00	0.4300	233.00	654.00	1,2	504.95	62.209
9077	C6H14O3	2-(2-ethoxyethoxy)ethanol	111-90-0	85.2000	632.00	0.4310	195.15	632.00	1,2	475.15	46.729
9078	C6H14O3	trimethylolpropane	77-99-6	136.9865	709.00	0.3800	331.15	709.00	1,2	562.04	75.330
9092	C6H14O4	triethylene glycol	112-27-6	130.8800	700.00	0.4600	265.79	700.00	1,2	551.00	64.238
9100	C6H14O6	sorbitol	50-70-4	254.1000	959.00	0.3890	370.85	959.00	1,2	777.00	133.121
9107	C6H14S	hexyl mercaptan	111-31-9	59.2205	623.00	0.3900	192.62	623.00	1,2	425.81	37.812
9108	C6H14S	2-hexanethiol	1679-06-7	54.7407	607.00	0.3800	126.15	607.00	1,2	412.05	35.552
9109	C6H14S	2,3-dimethyl-2-butanethiol	1639-01-6	50.1314	615.00	0.3800	307.26	615.00	2	407.26	33.189
9110	C6H14S	3-hexanethiol	1633-90-5	50.1314	615.00	0.3800	307.26	615.00	2	407.26	33.189
9111	C6H14S	2-methyl-2-pentanethiol	1633-97-2	50.1314	615.00	0.3800	307.26	615.00	2	407.26	33.189
9112	C6H14S	dipropyl sulfide	111-47-7	56.6650	609.73	0.3800	170.45	609.73	1,2	416.00	36.652
9113	C6H14S	diisopropyl sulfide	625-80-9	53.7674	585.71	0.3800	170.45	585.71	1,2	393.19	35.229
9114	C6H14S	methyl pentyl sulfide	1741-83-9	55.5580	587.98	0.3800	179.16	587.98	1,2	401.16	35.936
9115	C6H14S	ethyl butyl sulfide	638-46-0	57.0092	609.00	0.3800	178.03	609.00	1,2	417.41	36.736
9116	C6H14S	3-methyl-2-thiahexane	13286-91-4	55.1314	608.92	0.3800	176.28	608.92	1,2	412.15	35.890
9117	C6H14S	4-methyl-2-thiahexane	15013-37-3	55.2715	610.40	0.3800	176.28	610.40	1,2	413.15	35.981
9118	C6H14S	5-methyl-2-thiahexane	13286-90-3	54.9912	607.44	0.3800	176.28	607.44	1,2	411.15	35.798
9119	C6H14S	2-methyl-3-thiahexane	5008-73-1	54.1577	598.65	0.3800	176.28	598.65	1,2	405.20	35.256

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
9120	C6H14S	4-methyl-3-thiahexane	5008-72-0	54.3818	601.01	0.3800	176.28	601.01	1,2	406.80	35.402
9121	C6H14S	5-methyl-3-thiahexane	1613-45-2	54.4616	601.86	0.3800	176.28	601.86	1,2	407.37	35.454
9122	C6H14S	3-ethyl-2-thiapentane	57093-84-2	54.1325	598.38	0.3800	176.28	598.38	2	405.02	35.239
9123	C6H14S	3,3-dimethyl-2-thiapentane	13286-92-5	51.9198	602.51	0.3800	193.70	602.51	1,2	401.15	34.234
9124	C6H14S	3,4-dimethyl-2-thiapentane	53897-51-1	52.7702	597.54	0.3800	161.28	597.54	1,2	401.15	34.574
9125	C6H14S	4,4-dimethyl-2-thiapentane	6079-57-8	51.9198	602.51	0.3800	193.70	602.51	1,2	401.15	34.234
9126	C6H14S	2,2-dimethyl-3-thiapentane	14290-92-7	50.8900	591.11	0.3800	184.20	591.11	1,2	393.56	33.555
9127	C6H14S2	1,1-bis(ethylthio)ethane	14252-42-7	58.7362	673.00	0.3800	357.15	673.00	1,2	457.15	38.127
9128	C6H14S2	1,2-bis(ethylthio)ethane	5395-75-5	70.4526	673.00	0.3800	453.15	673.00	1,2	490.15	42.939
9129	C6H14S2	diisopropyl disulfide	4253-89-8	54.8636	673.00	0.3800	204.15	673.00	1,2	450.15	36.048
9130	C6H14S2	dipropyl disulfide	629-19-6	65.4586	673.00	0.3800	187.68	673.00	1,2	464.65	41.924
9135	C6H15Al	triethyl aluminum	97-93-8	89.1029	720.15	0.3800	233.15	720.15	1,2	467.15	60.677
9173	C6H15N	hexylamine	111-26-2	56.2733	583.00	0.3420	251.85	583.00	1,2	404.65	37.530
9174	C6H15N	2-aminohexane	5329-79-3	56.6781	584.76	0.3800	254.15	584.76	1,2	403.15	36.344
9175	C6H15N	3-aminohexane	16751-58-9	57.5049	592.91	0.3800	225.14	592.91	2	408.77	36.874
9176	C6H15N	1-amino-2-methylpentane	13364-16-4	56.2149	580.19	0.3800	225.14	580.19	2	400.00	36.047
9177	C6H15N	1-amino-3-methylpentane	42245-37-4	56.2149	580.19	0.3800	225.14	580.19	1,2	395.15	36.413
9178	C6H15N	1-amino-4-methylpentane	5344-20-7	55.7812	575.91	0.3800	178.75	575.91	1,2	397.05	35.769
9179	C6H15N	2-amino-2-methylpentane	53310-02-4	51.1748	555.56	0.3800	242.56	555.56	1,2	377.15	33.235
9180	C6H15N	2-amino-3-methylpentane	35399-81-6	56.5439	596.83	0.3800	210.14	596.83	2	408.33	36.491
9181	C6H15N	2-amino-4-methylpentane	108-09-8	52.6833	557.83	0.3800	210.14	557.83	1,2	381.65	33.999
9182	C6H15N	3-amino-2-methylpentane	54287-41-1	56.5439	596.83	0.3800	210.14	596.83	2	408.33	36.491
9183	C6H15N	3-amino-3-methylpentane	3495-46-3	54.2051	586.93	0.3800	242.56	586.93	1,2	398.45	35.203
9184	C6H15N	1-amino-2,2-dimethylbutane	41781-17-3	52.5254	569.55	0.3800	242.56	569.55	1,2	386.65	34.112
9185	C6H15N	1-amino-2,3-dimethylbutane	66553-05-7	52.1777	552.72	0.3800	210.14	552.72	1,2	378.15	33.673
9186	C6H15N	1-amino-3,3-dimethylbutane	15673-00-4	55.2781	598.02	0.3800	242.56	598.02	2	405.98	35.900
9187	C6H15N	2-amino-2,3-dimethylbutane	4358-75-2	50.0825	556.88	0.3800	227.56	556.88	1,2	377.65	32.553
9188	C6H15N	2-amino-3,3-dimethyl butane	3850-30-4	50.1034	557.10	0.3800	227.56	557.10	1,2	375.15	32.749
9189	C6H15N	1-amino-2-ethylbutane	617-79-8	57.5049	592.91	0.3800	225.14	592.91	2	408.77	36.874
9190	C6H15N	2-hexanamine, (±)	68107-05-1	59.6675	559.92	0.3800	254.15	559.92	1,2	390.65	37.871
9191	C6H15N	methylpentylamine	25419-06-1	55.4406	561.00	0.3800	209.54	561.00	1,2	390.55	35.256
9192	C6H15N	methyl-1-methylbutylamine	51932-19-5	53.6982	560.25	0.3800	194.54	560.25	2	386.41	34.421
9193	C6H15N	methyl-2-methylbutylamine	90023-96-4	53.6982	560.25	0.3800	194.54	560.25	2	386.41	34.421
9194	C6H15N	methyl-3-methylbutylamine	52317-98-3	52.9334	552.62	0.3800	194.54	552.62	1,2	381.15	33.931
9195	C6H15N	methyl-1,1-dimethylpropylamine	---	51.6032	564.84	0.3800	211.96	564.84	2	383.62	33.501
9196	C6H15N	methyl-1,2-dimethylpropylamine	34317-39-0	53.6982	560.25	0.3800	194.54	560.25	2	386.41	34.421
9197	C6H15N	methyl-2,2-dimethylpropylamine	26153-91-3	51.6032	564.84	0.3800	211.96	564.84	2	383.62	33.501
9198	C6H15N	ethylbutylamine	13360-63-9	53.7737	548.52	0.3800	209.54	548.52	1,2	381.15	34.251
9199	C6H15N	ethyl-sec-butylamine	21035-44-9	51.4806	538.12	0.3800	194.54	538.12	1,2	371.15	33.000
9200	C6H15N	ethylisobutylamine	13205-60-2	51.4806	538.12	0.3800	194.54	538.12	1,2	371.15	33.000
9201	C6H15N	ethyl-tert-butylamine	4432-77-3	47.0366	517.03	0.3800	211.96	517.03	1,2	351.15	30.537
9202	C6H15N	di-propylamine	142-84-7	54.4700	555.80	0.3770	210.15	555.80	1,2	382.00	35.142
9203	C6H15N	diisopropylamine	108-18-9	50.0585	523.10	0.4360	176.85	523.10	1,2	357.05	30.353
9204	C6H15N	propylisopropylamine	21968-17-2	51.5241	538.56	0.3800	194.54	538.56	1,2	371.45	33.028
9205	C6H15N	N-ethyl-2-butanamine, (±)	116724-10-8	47.2978	559.92	0.3800	168.85	559.92	1,2	371.15	31.290
9206	C6H15N	methylethylpropylamine	4458-32-6	49.5223	534.36	0.3800	189.35	534.36	1,2	364.65	32.026
9207	C6H15N	methylethylisopropylamine	39198-07-7	48.7558	538.62	0.3800	174.35	538.62	1,2	364.65	31.734
9208	C6H15N	dimethylbutylamine	927-62-8	46.0981	556.70	0.3800	189.35	556.70	1,2	367.15	30.611
9209	C6H15N	dimethyl-sec-butylamine	921-04-0	49.1061	542.32	0.3800	174.35	542.32	1,2	367.15	31.962
9210	C6H15N	dimethylisobutylamine	7239-24-9	47.2858	523.11	0.3800	174.35	523.11	1,2	354.15	30.777
9211	C6H15N	dimethyl-tert-butylamine	918-02-5	47.0235	545.31	0.3800	183.15	545.31	1,2	363.15	31.000
9212	C6H15N	triethylamine	121-44-8	46.7263	535.15	0.3670	158.45	535.15	1,2	361.92	30.888
9213	C6H15NO	6-aminohexanol	4048-33-3	102.4065	681.00	0.3800	331.00	681.00	1,2	508.00	60.840
9214	C6H15NO	2-amino-4-methyl-1-pentanol, (±)	16369-17-8	71.7259	681.00	0.3800	317.15	681.00	1,2	472.15	45.774
9215	C6H15NO	2-(butylamino)ethanol	111-75-1	71.7259	681.00	0.3800	372.15	681.00	1,2	472.15	45.774
9216	C6H15NO	2-[tert-butylamino]ethanol	4620-70-6	57.6547	681.00	0.3800	317.15	681.00	1,2	449.65	38.253
9217	C6H15NO	2-diethylaminoethanol	100-37-8	50.9842	681.00	0.3800	336.15	681.00	1,2	436.15	34.564
9220	C6H15NO	2-(isobutylamino)ethanol	17091-40-6	71.7259	681.00	0.3800	372.15	681.00	1,2	472.15	45.774
9221	C6H15NO	DL-2-amino-1-hexanol	5665-74-7	66.2236	681.00	0.3800	364.15	681.00	1,2	464.15	42.870
9222	C6H15NO	2-dimethylamino-2-methyl-1-propanol	7005-47-2	49.6444	681.00	0.3800	292.15	681.00	1,2	433.15	33.812
9228	C6H15NO	4-amino-4-methyl-2-pentanol	4404-98-2	56.5161	681.00	0.3800	347.50	681.00	1,2	447.50	37.629
9230	C6H15NO2	diisopropanolamine	110-97-4	124.8561	672.00	0.3760	318.15	672.00	1,2	521.90	71.062
9239	C6H15NO3	triethanolamine	102-71-6	120.6000	787.00	0.3540	294.35	787.00	1,2	613.00	70.685
9247	C6H15N3	N-aminoethyl piperazine	140-31-8	80.4225	708.00	0.3970	254.15	708.00	1,2	493.55	50.055
9268	C6H15O4P	triethyl phosphate	78-40-0	43.7091	794.00	0.3800	216.00	794.00	1,2	488.15	30.418
9292	C6H16N2	hexamethylenediamine	124-09-4	80.4896	663.00	0.3930	313.95	663.00	1,2	475.04	49.045
9293	C6H16N2	N,N-diethyl-1,2-ethanediamine	100-36-7	45.5700	663.00	0.3800	317.15	663.00	1,2	417.15	31.258
9294	C6H16N2	N,N'-diethyl-1,2-ethanediamine	111-74-0	46.3960	663.00	0.3800	319.15	663.00	1,2	419.15	31.726
9295	C6H16N2	N,N,N',N'-tetramethyl-1,2-ethanediamine	110-18-9	37.3154	663.00	0.3800	218.15	663.00	1,2	394.15	26.481
9297	C6H16N2	N-butylethylenediamine	19522-69-1	51.7964	663.00	0.3800	331.15	663.00	1,2	431.15	34.746
9298	C6H16N2	1,5-diamino-2-methylpentane	15520-10-2	64.4723	663.00	0.3800	366.15	663.00	1,2	466.15	40.641
9299	C6H16N2	N-isopropyl-1,3-propanediamine	3360-16-5	53.7839	663.00	0.3800	335.15	663.00	1,2	435.15	35.841
9300	C6H16N2	N-propyl-1,3-propanediamine	23764-31-0	57.5201	663.00	0.3800	342.15	663.00	1,2	442.15	37.879
9301	C6H16N2	N,N,N'-trimethyl-1,3-propanediamine	4543-96-8	44.3668	663.00	0.3800	314.15	663.00	1,2	414.15	30.573
9302	C6H16N2	2-methyl-2,4-pentanediamine	21586-21-0	50.8819	663.00	0.3800	329.24	663.00	2	429.24	34.239
9359	C6H18N4	triethylene tetramine	112-24-3	110.1300	718.00	0.3990	285.15	718.00	1,2	539.65	63.179
9362	C6H18OSi2	hexamethyldisiloxane	107-46-0	49.4648	518.70	0.3630	204.93	518.70	1,2	373.67	31.145
9366	C6H18O3Si3	hexamethylcyclotrisiloxane	541-05-9	61.9300	554.20	0.4260	337.15	554.20	1,2	408.26	35.078
9378	C6H19NSi2	hexamethyldisilazane	999-97-3	54.0500	544.00	0.3380	299.15	544.00	1,2	399.15	34.558
9508	C7H3ClF3NO2	4-chloro-3-nitrobenzotrifluoride	121-17-5	80.1515	686.00	0.3860	395.15	686.00	1,2	495.15	48.915

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
9519	C7H3Cl2F3	2,4-dichlorobenzotrifluoride	320-60-5	65.0729	646.00	0.3840	247.55	646.00	1,2	450.65	41.110
9527	C7H3Cl2NO	3,4-dichlorophenyl isocyanate	102-36-3	68.7652	733.00	0.4150	316.15	733.00	1,2	501.00	42.661
9684	C7H4ClF3	p-chlorobenzotrifluoride	98-56-6	52.6876	601.00	0.3130	237.15	601.00	1,2	412.15	36.673
9736	C7H4Cl2O	m-chlorobenzoyl chloride	618-46-2	70.3000	724.00	0.3520	280.00	724.00	1,2	498.00	46.663
9799	C7H4F3NO2	3-nitrobenzotrifluoride	98-46-4	72.1751	667.00	0.3730	272.00	667.00	1,2	475.93	45.277
9927	C7H5ClO	benzoyl chloride	98-88-4	66.8395	697.00	0.3800	272.65	697.00	1,2	470.15	43.630
9932	C7H5ClO2	o-chlorobenzoic acid	118-91-2	88.5289	792.00	0.3800	415.15	792.00	1,2	560.15	55.507
9967	C7H5Cl3	benzotrichloride	98-07-7	61.2898	737.00	0.3710	268.40	737.00	1,2	486.65	41.060
9968	C7H5Cl3	1,2-dichloro-4-(chloromethyl)benzene	102-47-6	79.0482	737.00	0.3800	310.65	737.00	1,2	514.15	50.176
9969	C7H5Cl3	1,3-dichloro-5-(chloromethyl)benzene	3290-06-0	60.1153	737.00	0.3800	309.15	737.00	2	483.65	40.065
9970	C7H5Cl3	1,2,3-trichloro-4-methylbenzene	7359-72-0	72.1056	737.00	0.3800	316.65	737.00	1,2	517.15	45.534
9971	C7H5Cl3	1,2,3-trichloro-5-methylbenzene	21472-86-6	72.6627	737.00	0.3800	318.65	737.00	1,2	519.15	45.727
9972	C7H5Cl3	1,2,4-trichloro-5-methylbenzene	6639-30-1	72.0230	737.00	0.3800	355.55	737.00	1,2	504.15	46.486
9973	C7H5Cl3	1,2,5-trichloro-3-methylbenzene	56961-86-5	71.3695	737.00	0.3800	318.65	737.00	1,2	503.15	46.139
9974	C7H5Cl3	3-chlorobenzal chloride	15145-69-4	60.1153	737.00	0.3800	383.65	737.00	2	483.65	40.065
9975	C7H5Cl3	2,6-dichlorobenzyl chloride	2014-83-7	29.6167	737.00	0.3800	310.65	737.00	1,2	391.15	22.217
9976	C7H5Cl3	dichlorobenzyl chloride	38721-71-0	30.6831	737.00	0.3800	296.15	737.00	1,2	396.15	22.889
9977	C7H5Cl3	2,4-dichlorobenzyl chloride	94-99-5	73.2253	737.00	0.3800	270.80	737.00	1,2	521.15	45.920
9978	C7H5Cl3	2,3,6-trichlorotoluene	2077-46-5	60.1153	737.00	0.3800	383.65	737.00	2	483.65	40.065
9979	C7H5Cl3	a-a-p-trichlorotoluene	13940-94-8	60.1153	737.00	0.3800	383.65	737.00	2	483.65	40.065
10003	C7H5F3	benzotrifluoride	98-08-8	50.6055	565.00	0.3950	244.14	565.00	1,2	375.20	32.890
10045	C7H5N	benzonitrile	100-47-0	71.1384	699.35	0.4720	260.40	699.35	1,2	464.15	42.533
10049	C7H5NO	phenyl isocyanate	103-71-9	61.5233	648.00	0.3800	243.15	648.00	1,2	438.75	40.040
10118	C7H5N3O6	2,4,6-trinitrotoluene	118-96-7	81.5490	795.00	0.3800	354.00	795.00	2	573.00	50.222
10252	C7H6Cl2	benzyl dichloride	98-87-3	58.5257	710.00	0.3090	257.00	731.00	1,2	487.00	41.697
10253	C7H6Cl2	2,4-dichlorotoluene	95-73-8	66.0057	705.00	0.3800	259.65	705.00	1,2	474.25	49.981
10254	C7H6Cl2	1-chloro-2-(chloromethyl)benzene	611-19-8	72.4254	710.00	0.3800	256.15	710.00	1,2	490.15	46.390
10255	C7H6Cl2	1-chloro-3-(chloromethyl)benzene	620-20-2	71.7491	710.00	0.3800	389.15	710.00	1,2	489.15	46.036
10256	C7H6Cl2	1-chloro-4-(chloromethyl)benzene	104-83-6	76.6775	710.00	0.3800	304.15	710.00	1,2	496.15	48.599
10257	C7H6Cl2	2,3-dichlorotoluene	32768-54-0	66.3403	710.00	0.3800	279.15	710.00	1,2	480.65	43.181
10258	C7H6Cl2	2,5-dichlorotoluene	19398-61-9	62.0250	710.00	0.3800	275.65	710.00	1,2	473.15	40.869
10259	C7H6Cl2	2,6-dichlorotoluene	118-69-4	60.9395	710.00	0.3800	298.95	710.00	1,2	471.15	40.282
10260	C7H6Cl2	3,4-dichlorotoluene	95-75-0	67.1913	710.00	0.3800	257.95	710.00	1,2	482.05	43.633
10261	C7H6Cl2	3,5-dichlorotoluene	25186-47-4	62.8566	710.00	0.3800	299.15	710.00	1,2	474.65	41.317
10363	C7H6N2O4	2,4-dinitrotoluene	121-14-2	109.5872	814.00	0.3800	343.00	814.00	1,2	590.00	67.115
10364	C7H6N2O4	2,5-dinitrotoluene	619-15-8	105.6205	814.00	0.3890	325.65	814.00	1,2	590.00	63.938
10365	C7H6N2O4	2,6-dinitrotoluene	606-20-2	99.5528	770.00	0.3880	339.00	770.00	1,2	558.00	60.355
10366	C7H6N2O4	3,4-dinitrotoluene	610-39-9	109.0175	842.00	0.3890	332.00	842.00	1,2	610.00	66.027
10367	C7H6N2O4	3,5-dinitrotoluene	618-85-9	96.2404	814.00	0.3800	365.65	814.00	1,2	588.00	59.140
10404	C7H6O	benzaldehyde	100-52-7	62.7982	695.00	0.3800	247.15	695.00	1,2	451.90	42.130
10408	C7H6O2	benzoic acid	65-85-0	79.5540	751.00	0.3800	395.52	751.00	1,2	522.40	50.625
10409	C7H6O2	p-hydroxybenzaldehyde	123-08-0	95.8665	844.00	0.3800	390.15	844.00	1,2	583.15	61.360
10410	C7H6O2	salicylaldehyde	90-02-8	82.1289	680.00	0.4060	266.15	680.00	1,2	469.65	51.005
10420	C7H6O3	salicylic acid	69-72-7	90.7663	739.00	0.3800	431.75	739.00	1,2	529.00	56.271
10462	C7H7Br	p-bromotoluene	106-38-7	58.5311	699.00	0.3440	299.95	699.00	1,2	457.50	40.608
10463	C7H7Br	(bromomethyl)benzene	100-39-0	72.8254	699.00	0.3800	271.65	699.00	1,2	474.15	47.326
10464	C7H7Br	o-bromotoluene	95-46-5	61.0149	699.00	0.3800	245.35	699.00	1,2	454.85	40.911
10465	C7H7Br	m-bromotoluene	591-17-3	62.1113	699.00	0.3800	233.35	699.00	1,2	456.85	41.517
10492	C7H7Cl	benzyl chloride	100-44-7	61.1202	686.00	0.3800	234.15	686.00	1,2	452.55	40.578
10493	C7H7Cl	o-chlorotoluene	95-49-8	57.5944	656.00	0.3780	236.65	656.00	1,2	432.30	38.350
10494	C7H7Cl	p-chlorotoluene	106-43-4	58.9414	660.00	0.3840	280.65	660.00	1,2	435.65	38.947
10495	C7H7Cl	m-chlorotoluene	108-41-8	57.4775	660.18	0.3800	225.35	660.18	1,2	435.45	38.164
10555	C7H7F	p-fluorotoluene	352-32-9	58.3306	590.48	0.3800	216.36	590.48	1,2	389.76	38.710
10556	C7H7F	(fluoromethyl)benzene	350-50-5	67.6782	590.48	0.3800	238.15	590.48	1,2	413.15	42.848
10557	C7H7F	o-fluorotoluene	95-52-3	51.0841	590.48	0.3800	211.15	590.48	1,2	388.15	34.004
10558	C7H7F	m-fluorotoluene	352-70-5	51.0841	590.48	0.3800	186.15	590.48	1,2	388.15	34.004
10611	C7H7NO	formanilide	103-70-8	87.3622	787.00	0.3850	323.15	787.00	1,2	544.15	55.556
10626	C7H7NO2	m-nitrotoluene	99-08-1	70.8490	734.00	0.3800	289.20	734.00	1,2	505.00	45.510
10627	C7H7NO2	o-nitrotoluene	88-72-2	71.6604	720.00	0.3800	269.98	720.00	1,2	495.64	46.010
10628	C7H7NO2	p-nitrotoluene	99-99-0	73.2521	736.00	0.3800	324.75	736.00	1,2	511.65	46.640
10660	C7H7NO3	o-nitroanisole	91-23-6	88.3353	782.00	0.3880	283.60	782.00	1,2	546.15	55.482
10724	C7H8	1,3,5-cycloheptatriene	544-25-2	52.8844	593.90	0.3800	193.66	593.90	1,2	388.65	35.317
10725	C7H8	toluene	108-88-3	50.1390	591.79	0.3830	178.18	591.79	1,2	383.78	33.594
10850	C7H8O	anisole	100-66-3	58.5300	641.65	0.3640	235.65	641.65	1,2	426.73	39.307
10851	C7H8O	benzyl alcohol	100-51-6	81.4400	677.00	0.3720	257.85	677.00	1,2	477.85	51.660
10852	C7H8O	m-cresol	108-39-4	81.6500	705.85	0.4620	285.39	705.85	1,2	475.43	48.678
10853	C7H8O	o-cresol	95-48-7	79.2057	697.55	0.5030	304.19	697.55	1,2	464.15	45.666
10854	C7H8O	p-cresol	106-44-5	78.7000	704.65	0.4110	307.93	704.65	1,2	475.13	49.631
10855	C7H8O	cresol mixture	1319-77-3	71.7859	702.68	0.3800	296.35	702.68	1,2	470.15	47.156
10866	C7H8O2	guaiacol	90-05-1	71.5935	697.00	0.3800	304.65	697.00	1,2	478.15	46.100
10867	C7H8O2	p-methoxyphenol	150-76-5	84.1399	758.00	0.3900	329.00	758.00	1,2	516.00	53.904
10868	C7H8O2	1,2-dihydroxy-3-methylbenzene	488-17-5	78.3821	776.37	0.3800	341.15	776.37	1,2	521.15	51.359
10869	C7H8O2	1,2-dihydroxy-4-methylbenzene	452-86-8	79.9502	791.27	0.3800	338.15	791.27	1,2	531.15	52.387
10870	C7H8O2	1,3-dihydroxy-2-methylbenzene	608-25-3	81.0485	801.70	0.3800	393.15	801.70	1,2	538.15	53.106
10871	C7H8O2	1,3-dihydroxy-4-methylbenzene	496-73-1	81.8334	809.15	0.3800	378.15	809.15	1,2	543.15	53.621
10872	C7H8O2	1,3-dihydroxy-5-methylbenzene	504-15-4	84.5043	834.47	0.3800	380.15	834.47	1,2	560.15	55.371
10873	C7H8O2	1,4-dihydroxy-2-methylbenzene	95-71-6	83.8755	828.51	0.3800	398.15	828.51	1,2	556.15	54.959
10918	C7H8S	o-methylthiophenol	137-06-4	62.3150	714.96	0.3800	288.15	714.96	1,2	467.35	41.648
10919	C7H8S	m-methylthiophenol	108-40-7	62.4406	716.34	0.3800	253.11	716.34	1,2	468.25	41.732
10920	C7H8S	p-methylthiophenol	106-45-6	62.4127	716.03	0.3800	317.15	716.03	1,2	468.05	41.714

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
10921	C7H8S	methyl phenyl sulfide	100-68-5	62.0627	710.76	0.3800	116.90	710.76	1,2	466.15	41.381
10922	C7H8S	benzenemethanethiol	100-53-8	63.5931	715.78	0.3800	243.15	715.78	1,2	467.65	42.518
10953	C7H9N	benzylamine	100-46-9	67.1200	683.50	0.3840	227.15	683.50	1,2	457.65	43.871
10954	C7H9N	N-methylaniline	100-61-8	63.8318	701.55	0.3100	216.15	701.55	1,2	469.02	45.328
10955	C7H9N	m-toluidine	108-44-1	67.8549	709.15	0.3650	242.75	709.15	1,2	476.55	45.173
10956	C7H9N	o-toluidine	95-53-4	71.2118	694.15	0.3970	249.47	694.15	1,2	473.55	45.176
10957	C7H9N	p-toluidine	106-49-0	70.2481	693.15	0.4000	316.90	693.15	1,2	473.40	44.369
10958	C7H9N	2,3-dimethylpyridine	583-61-9	58.5339	655.40	0.3800	257.95	655.40	1,2	434.35	38.729
10959	C7H9N	2,4-dimethylpyridine	108-47-4	58.2844	647.00	0.3800	209.25	647.00	1,2	431.55	38.378
10960	C7H9N	2,5-dimethylpyridine	589-93-5	58.5348	644.20	0.3800	257.65	644.20	1,2	430.15	38.511
10961	C7H9N	2,6-dimethylpyridine	108-48-5	59.4700	623.75	0.3970	267.00	623.75	1,2	417.20	38.348
10962	C7H9N	3,4-dimethylpyridine	583-58-4	60.8114	683.80	0.3800	262.15	683.80	1,2	452.25	40.297
10963	C7H9N	3,5-dimethylpyridine	591-22-0	60.2017	667.20	0.3800	266.65	667.20	1,2	445.05	39.638
10964	C7H9N	2-ethylpyridine	100-71-0	56.8262	636.20	0.3800	210.05	636.20	1,2	422.55	37.538
10965	C7H9N	3-ethylpyridine	536-78-7	60.2408	657.70	0.3800	196.25	657.70	1,2	440.15	39.565
10966	C7H9N	4-ethylpyridine	536-75-4	59.2228	668.20	0.3800	182.65	668.20	1,2	442.35	39.217
11047	C7H10	2-norbornene	498-66-8	44.5284	583.00	0.3900	319.40	583.00	1,2	368.65	30.141
11049	C7H10	1-hepten-3-yne	2384-73-8	51.9976	545.00	0.3800	283.15	545.00	1,2	383.15	32.780
11050	C7H10	3-ethyl-3-penten-1-yne	14272-54-9	48.4917	545.00	0.3800	269.65	545.00	1,2	369.65	31.515
11056	C7H10	2-methyl-1-hexen-3-yne	23056-94-2	53.7976	545.00	0.3800	289.65	545.00	1,2	389.65	33.391
11057	C7H10	1-methyl-1,3-cyclohexadiene	1489-56-1	48.8795	545.00	0.3800	271.20	545.00	1,2	371.20	31.660
11079	C7H10N2	m-toluenediamine	95-80-7	86.1140	804.00	0.3530	420.00	804.00	1,2	557.15	76.016
11147	C7H10O	2-ethyl-5-methylfuran	1703-52-2	51.4856	580.00	0.3800	291.65	580.00	1,2	391.65	33.579
11151	C7H10O	2-propylfuran	4229-91-8	50.3829	580.00	0.3800	287.15	580.00	1,2	387.15	33.156
11225	C7H10S	2-propylthiophene	1551-27-5	57.6591	649.23	0.3800	252.35	649.23	1,2	431.65	38.059
11226	C7H10S	3-propylthiophene	1518-75-8	58.0089	652.99	0.3800	252.35	652.99	1,2	434.15	38.289
11227	C7H10S	2-isopropylthiophene	4095-22-1	56.8900	640.96	0.3800	252.35	640.96	1,2	426.15	37.551
11228	C7H10S	3-isopropylthiophene	29488-27-5	56.5702	652.61	0.3800	237.35	652.61	1,2	430.15	37.582
11229	C7H10S	2-methyl-3-ethylthiophene	53119-51-0	57.4215	645.99	0.3800	235.98	645.99	1,2	430.15	37.858
11230	C7H10S	2-methyl-4-ethyl thiophene	13678-54-1	58.2605	655.00	0.3800	214.15	655.00	1,2	436.15	38.411
11231	C7H10S	2-methyl-5-ethyl thiophene	40323-88-4	57.8549	650.65	0.3800	204.65	650.65	1,2	433.25	38.144
11232	C7H10S	3-methyl-2-ethylthiophene	31805-48-8	57.9808	652.00	0.3800	235.98	652.00	1,2	434.15	38.227
11233	C7H10S	3-methyl-4-ethyl thiophene	---	57.0301	641.79	0.3800	235.98	641.79	1,2	438.65	36.835
11234	C7H10S	3-methyl-5-ethylthiophene	---	57.0301	641.79	0.3800	235.98	641.79	2	427.35	37.600
11235	C7H10S	2,3,4-trimethylthiophene	1795-04-6	62.3524	654.54	0.3800	230.88	654.54	1,2	445.85	40.384
11236	C7H10S	2,3,5-trimethylthiophene	1795-05-7	58.4427	656.26	0.3800	219.61	656.26	1,2	437.65	38.487
11267	C7H11N	3-ethyl-4-methyl-1H-pyrrole	488-92-6	58.3323	650.00	0.3800	274.65	650.00	2	438.90	38.046
11268	C7H11N	2-isopropylpyrrole	7696-51-7	59.9237	650.00	0.3800	345.15	650.00	1,2	445.15	38.640
11269	C7H11N	1-propyl-1H-pyrrole	5145-64-2	53.4941	650.00	0.3800	318.65	650.00	1,2	418.65	36.126
11270	C7H11N	3-propyl-1H-pyrrole	1551-09-3	58.3323	650.00	0.3800	338.90	650.00	2	438.90	38.046
11271	C7H11N	1,2,5-trimethyl-1H-pyrrole	930-87-0	59.6657	650.00	0.3800	344.15	650.00	1,2	444.15	38.545
11275	C7H11NO	cyclohexyl isocyanate	3173-53-3	69.5133	633.00	0.3870	342.15	633.00	1,2	442.15	43.707
11323	C7H12	1-ethylcyclopentene	2146-38-5	48.5215	578.40	0.3800	154.75	578.40	1,2	379.48	32.343
11324	C7H12	3-ethylcyclopentene	694-35-9	47.3744	565.35	0.3800	144.24	565.35	1,2	370.92	31.579
11325	C7H12	4-ethylcyclopentene	3742-38-9	47.4332	566.02	0.3800	144.24	566.02	1,2	371.36	31.618
11326	C7H12	1,2-dimethylcyclopentene	765-47-9	47.7918	579.44	0.3800	182.75	579.44	1,2	378.95	31.930
11327	C7H12	1,3-dimethylcyclopentene	62184-82-1	45.9671	558.34	0.3800	127.87	558.34	1,2	365.15	30.711
11328	C7H12	1,4-dimethylcyclopentene	19550-48-2	46.1256	560.17	0.3800	127.87	560.17	1,2	366.35	30.817
11329	C7H12	1,5-dimethylcyclopentene	16491-15-9	47.2890	573.63	0.3800	155.15	573.63	1,2	375.15	31.595
11330	C7H12	3,3-dimethylcyclopentene	58049-91-5	45.1782	559.35	0.3800	127.87	559.35	1,2	361.15	30.459
11331	C7H12	3,cis-4-dimethylcyclopentene	56039-55-5	45.8878	557.42	0.3800	127.87	557.42	2	364.55	30.658
11332	C7H12	3,trans-4-dimethylcyclopentene	53225-40-4	45.8878	557.42	0.3800	127.87	557.42	2	364.55	30.658
11333	C7H12	3,cis-5-dimethylcyclopentene	30213-29-7	45.8878	557.42	0.3800	127.87	557.42	2	364.55	30.658
11334	C7H12	3,trans-5-dimethylcyclopentene	61394-27-2	45.8878	557.42	0.3800	127.87	557.42	2	364.55	30.658
11335	C7H12	4,4-dimethylcyclopentene	19037-72-0	45.1782	559.35	0.3800	127.87	559.35	1,2	361.15	30.459
11336	C7H12	1-methylcyclohexene	591-49-1	48.3232	590.94	0.3800	153.75	590.94	1,2	383.45	32.466
11337	C7H12	3-methylcyclohexene	591-48-0	47.2891	578.88	0.3800	149.64	578.88	1,2	375.62	31.772
11338	C7H12	4-methylcyclohexene	591-47-9	47.3246	579.30	0.3800	157.74	579.30	1,2	375.89	31.795
11339	C7H12	3-methylcyclohexene, (±)	56688-75-6	46.5951	583.04	0.3800	157.65	583.04	1,2	377.15	31.373
11340	C7H12	1-heptyne	628-71-7	48.3684	559.69	0.3800	192.26	559.69	1,2	372.86	31.878
11341	C7H12	2-heptyne	1119-65-9	49.4877	581.90	0.3800	274.25	581.90	1,2	385.15	32.775
11342	C7H12	3-heptyne	2586-89-2	48.8356	574.59	0.3800	142.65	574.59	1,2	380.31	32.343
11343	C7H12	3-methyl-1-hexyne	40276-93-5	45.6197	542.27	0.3800	200.12	542.27	1,2	358.15	30.261
11344	C7H12	4-methyl-1-hexyne	52713-81-2	46.4219	551.35	0.3800	200.12	551.35	1,2	364.15	30.793
11345	C7H12	5-methyl-1-hexyne	2203-80-7	46.5356	552.64	0.3800	149.15	552.64	1,2	365.00	30.869
11346	C7H12	4-methyl-2-hexyne	20198-49-6	47.0870	568.05	0.3800	165.55	568.05	1,2	372.69	31.387
11347	C7H12	5-methyl-2-hexyne	53566-37-3	47.4742	572.50	0.3800	180.25	572.50	1,2	375.61	31.645
11348	C7H12	2-methyl-3-hexyne	36566-80-0	46.5118	561.44	0.3800	156.55	561.44	1,2	368.35	31.004
11349	C7H12	3-ethyl-1-pentyne	21020-26-8	45.4861	540.76	0.3800	200.12	540.76	1,2	357.15	30.173
11350	C7H12	3,3-dimethyl-1-pentyne	918-82-1	42.2747	528.91	0.3800	217.54	528.91	1,2	343.15	28.405
11351	C7H12	3,4-dimethyl-1-pentyne	61064-08-2	44.2727	539.46	0.3800	185.12	539.46	1,2	353.15	29.558
11352	C7H12	4,4-dimethyl-1-pentyne	13361-63-2	43.0617	538.28	0.3800	198.15	538.28	1,2	349.23	28.934
11353	C7H12	4,4-dimethyl-2-pentyne	999-78-0	43.5224	552.81	0.3800	276.67	552.81	1,2	356.15	29.387
11358	C7H12	1,2-heptadiene	2384-90-9	49.9526	556.00	0.3800	278.65	556.00	1,2	378.65	32.358
11359	C7H12	1,4-heptadiene	5675-22-9	46.9157	556.00	0.3800	266.15	556.00	1,2	366.15	31.188
11360	C7H12	1,5-heptadiene	1541-23-7	47.1509	556.00	0.3800	267.15	556.00	1,2	367.15	31.281
11361	C7H12	1,6-heptadiene	3070-53-9	47.8636	556.00	0.3800	270.15	556.00	2	370.15	31.562
11362	C7H12	2,4-heptadiene	628-72-8	50.5868	556.00	0.3800	281.15	556.00	1,2	381.15	32.593
11363	C7H12	2-methyl-1,5-hexadiene	4049-81-4	45.7815	556.00	0.3800	144.35	556.00	1,2	361.25	30.730
11364	C7H12	2-methyl-2,4-hexadiene	28823-41-8	51.4908	556.00	0.3800	198.95	556.00	1,2	384.65	32.921

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
11365	C7H12	2,4-dimethyl-1,3-pentadiene	1000-86-8	46.9627	556.00	0.3800	159.15	556.00	1,2	366.35	31.207
11369	C7H12	2,4-dimethyl-2,3-pentadiene	1000-87-9	45.1691	556.00	0.3800	258.55	556.00	1,2	358.55	30.478
11413	C7H12O	2-heptenal	2463-63-0	61.7462	610.00	0.3800	339.15	610.00	1,2	439.15	38.070
11414	C7H12O	3-heptenal	89896-73-1	57.5677	610.00	0.3800	324.15	610.00	1,2	424.15	36.647
11415	C7H12O	1-hepten-3-one	2918-13-0	58.0106	615.00	0.3800	327.35	615.00	2	427.35	36.950
11416	C7H12O	4-hepten-2-one	24332-22-7	58.0106	615.00	0.3800	327.35	615.00	2	427.35	36.950
11417	C7H12O	6-hepten-2-one	21889-88-3	55.6229	615.00	0.3800	318.15	615.00	1,2	418.15	36.079
11418	C7H12O	6-hepten-3-one	2565-39-1	54.8692	615.00	0.3800	315.15	615.00	1,2	415.15	35.795
11419	C7H12O	cis-3-hepten-2-one	69668-88-8	58.0106	615.00	0.3800	327.35	615.00	2	427.35	36.950
11420	C7H12O	trans-3-hepten-2-one	5609-09-6	57.9582	615.00	0.3800	327.15	615.00	1,2	427.15	36.931
11421	C7H12O	trans-5-hepten-2-one	1071-94-9	57.6930	615.00	0.3800	326.15	615.00	1,2	426.15	36.836
11422	C7H12O	2-methyl-4-hexen-3-one	53252-19-0	56.3886	615.00	0.3800	321.15	615.00	1,2	421.15	36.363
11423	C7H12O	3-methyl-5-hexen-2-one	2550-22-3	53.6390	615.00	0.3800	310.15	615.00	1,2	410.15	35.323
11424	C7H12O	4-methyl-5-hexen-2-one	61675-14-7	53.7606	615.00	0.3800	310.65	615.00	1,2	410.65	35.370
11425	C7H12O	5-methyl-1-hexen-3-one	2177-32-4	58.0106	615.00	0.3800	327.35	615.00	2	427.35	36.950
11426	C7H12O	5-methyl-3-hexen-2-one	5166-53-0	58.0106	615.00	0.3800	327.35	615.00	2	427.35	36.950
11427	C7H12O	5-methyl-4-hexen-2-one	28332-44-7	57.4292	615.00	0.3800	325.15	615.00	1,2	425.15	36.741
11428	C7H12O	5-methyl-5-hexen-2-one	3240-09-3	56.9061	615.00	0.3800	323.15	615.00	1,2	423.15	36.552
11429	C7H12O	2-methylcyclohexanone, (±)	24965-84-2	58.1447	650.00	0.3800	259.25	650.00	1,2	438.15	37.975
11430	C7H12O	3-methylcyclohexanone, (±)	625-96-7	59.1536	650.00	0.3800	199.65	650.00	1,2	442.15	38.355
11431	C7H12O	4-methylcyclohexanone	589-92-4	59.4090	650.00	0.3800	232.55	650.00	1,2	443.15	38.450
11433	C7H12O	2,2-dimethyl-4-pentenal	5497-67-6	50.9868	610.00	0.3800	297.65	610.00	1,2	397.65	34.144
11436	C7H12O	trans-2-heptenal	18829-55-5	58.4275	610.00	0.3800	327.35	610.00	2	427.35	36.950
11437	C7H12O	(Z)-hept-4-enal	6728-31-0	58.4275	610.00	0.3800	327.35	610.00	2	427.35	36.950
11439	C7H12O	methylcyclohexanone	1331-22-2	58.1447	650.00	0.3800	255.45	650.00	1,2	438.15	37.975
11440	C7H12O	(R)-(+)-3-methylcyclohexanone	13368-65-5	59.0391	650.00	0.3800	280.00	650.00	1,2	441.70	38.312
11441	C7H12O	2-methylcyclohexanone	583-60-8	57.7839	650.00	0.3800	260.10	650.00	1,2	436.70	37.837
11442	C7H12O	3-methylcyclohexanone	591-24-2	59.2811	650.00	0.3800	191.70	650.00	1,2	442.65	38.402
11445	C7H12O	(Z)-5-hepten-2-one	4535-61-9	56.7892	615.00	0.3800	322.70	615.00	1,2	422.70	36.509
11446	C7H12O	(S)-3-methylcyclohexanone	24965-87-5	58.4076	650.00	0.3800	280.00	650.00	1,2	439.20	38.074
11450	C7H12O2	butyl acrylate	141-32-2	55.7839	598.00	0.3270	208.55	598.00	1,2	421.00	37.464
11450.1	C7H12O2	sec-butyl acrylate	2998-08-5	55.8260	580.00	0.1934	210.85	580.00	1,2	404.15	44.320
11451	C7H12O2	isobutyl acrylate	106-63-8	59.8139	580.00	0.3880	212.00	580.00	1,2	405.15	37.562
11452	C7H12O2	propyl methacrylate	2210-28-8	57.0340	599.00	0.3540	314.00	599.00	1,2	414.00	37.627
11453	C7H12O2	isopropyl methacrylate	4655-34-9	49.9496	592.33	0.3800	298.15	592.33	1,2	398.15	32.695
11454	C7H12O2	allyl butanoate	2051-78-7	56.6237	592.33	0.3800	315.15	592.33	1,2	415.15	35.795
11466	C7H12O2	2,2-dimethyl-4-pentenoic acid	16386-93-9	66.5284	716.00	0.3800	390.00	716.00	2	490.00	42.924
11467	C7H12O2	2-heptenoic acid	18999-28-5	69.1006	716.00	0.3800	254.15	716.00	1,2	499.65	43.850
11468	C7H12O2	4-heptenoic acid	35194-37-7	66.5284	716.00	0.3800	390.00	716.00	2	490.00	42.924
11469	C7H12O2	5-heptenoic acid	3593-00-8	68.1540	716.00	0.3800	396.15	716.00	1,2	496.15	43.514
11470	C7H12O2	6-heptenoic acid	1119-60-4	68.9644	716.00	0.3800	266.65	716.00	1,2	499.15	43.802
11471	C7H12O2	2-methyl-3-hexenoic acid	73513-50-5	66.5284	716.00	0.3800	390.00	716.00	2	490.00	42.924
11472	C7H12O2	3-methyl-3-hexenoic acid	35205-71-1	66.5284	716.00	0.3800	390.00	716.00	2	490.00	42.924
11473	C7H12O2	4-methyl-2-hexenoic acid	37549-83-0	66.5284	716.00	0.3800	390.00	716.00	2	490.00	42.924
11474	C7H12O2	4-methyl-3-hexenoic acid	55665-79-7	66.5284	716.00	0.3800	390.00	716.00	2	490.00	42.924
11475	C7H12O2	5-methyl-2-hexenoic acid	41653-96-7	69.1006	716.00	0.3800	289.65	716.00	1,2	499.65	43.850
11476	C7H12O2	5-methyl-4-hexenoic acid	5636-65-7	66.5675	716.00	0.3800	245.15	716.00	1,2	490.15	42.939
11477	C7H12O2	trans-2-methyl-2-hexenoic acid	97961-66-5	63.5230	716.00	0.3800	378.15	716.00	1,2	478.15	41.789
11480	C7H12O2	ethyl 3-methyl-2-butenoate	638-10-8	59.8525	592.33	0.3800	326.65	592.33	1,2	426.65	36.884
11481	C7H12O2	ethyl trans-2-methyl-2-butenoate	5837-78-5	60.5861	592.33	0.3800	329.15	592.33	1,2	429.15	37.121
11483	C7H12O2	methyl 3-hexenoate	2396-78-3	66.4361	592.33	0.3800	347.69	592.33	2	447.69	38.882
11484	C7H12O2	methyl 2-methyl-2-pentenoate	10478-12-3	66.4361	592.33	0.3800	347.69	592.33	2	447.69	38.882
11485	C7H12O2	methyl 3-methyl-3-pentenoate	2258-58-4	66.4361	592.33	0.3800	347.69	592.33	2	447.69	38.882
11486	C7H12O2	methyl cis-3-methyl-2-pentenoate	17447-00-6	66.4361	592.33	0.3800	347.69	592.33	2	447.69	38.882
11487	C7H12O2	methyl trans-3-methyl-2-pentenoate	17447-01-7	59.1307	592.33	0.3800	324.15	592.33	1,2	424.15	36.647
11488	C7H12O2	tert-butyl acrylate	1663-39-4	66.4361	592.33	0.3800	347.69	592.33	2	447.69	38.882
11491	C7H12O2	methyl trans-2-methyl-2-pentenoate	1567-14-2	66.4361	592.33	0.3800	347.69	592.33	2	447.69	38.882
11492	C7H12O2	4-pentenyl acetate	1576-85-8	57.4440	592.33	0.3800	318.15	592.33	1,2	418.15	36.079
11497	C7H12O2	3,3-dimethylallyl acetate	1191-16-8	66.4361	592.33	0.3800	347.69	592.33	2	447.69	38.882
11500	C7H12O2	cis-3-hexenyl formate	33467-73-1	66.4361	592.33	0.3800	347.69	592.33	2	447.69	38.882
11530	C7H12O4	diethyl malonate	105-53-3	73.1500	653.00	0.3600	224.25	653.00	1,2	472.05	46.086
11569	C7H13Br	cis-1-bromo-1-heptene	39924-57-7	61.4241	630.55	0.3800	175.15	630.55	1,2	436.15	39.278
11570	C7H13Br	trans-1-bromo-1-heptene	53434-74-5	61.4241	630.55	0.3800	175.15	630.55	1,2	436.15	39.278
11586	C7H13Br3	1,1,1-tribromoheptane	62127-64-4	83.5862	756.89	0.3800	349.97	756.89	1,2	537.15	52.243
11587	C7H13Cl	cis-1-chloro-1-heptene	53268-66-9	57.6567	613.52	0.3800	192.99	613.52	1,2	423.15	36.959
11588	C7H13Cl	trans-1-chloro-1-heptene	53268-67-0	57.6567	613.52	0.3800	192.99	613.52	1,2	423.15	36.959
11589	C7H13Cl	1-chloro-1-heptene	2384-75-0	61.6715	613.52	0.3800	328.15	613.52	1,2	428.15	39.135
11590	C7H13Cl	2-chloro-1-heptene	65786-11-0	51.7179	613.52	0.3800	312.15	613.52	1,2	412.15	33.867
11591	C7H13Cl	4-chloro-3-heptene	2431-24-5	51.7179	613.52	0.3800	312.15	613.52	1,2	412.15	33.867
11612	C7H13Cl3	1,1,1-trichloroheptane	3922-26-7	66.8711	676.24	0.3800	260.33	676.24	1,2	476.15	42.099
11613	C7H13F	cis-1-fluoro-1-heptene	28028-91-3	49.0774	525.96	0.3800	195.22	525.96	2	362.99	31.443
11614	C7H13F	trans-1-fluoro-1-heptene	28028-92-4	49.0774	525.96	0.3800	195.22	525.96	2	362.99	31.443
11618	C7H13F3	1,1,1-trifluoroheptane	693-09-4	52.1011	527.90	0.3800	267.02	527.90	1,2	374.15	32.604
11619	C7H13I	cis-1-iodo-1-heptene	63318-29-6	63.3281	677.01	0.3800	221.13	677.01	1,2	465.15	40.726
11620	C7H13I	trans-1-iodo-1-heptene	60595-37-1	63.3281	677.01	0.3800	221.13	677.01	1,2	465.15	40.726
11621	C7H13I3	1,1,1-triiodoheptane	---	89.0760	912.73	0.3800	344.75	912.73	2	635.75	56.619
11622	C7H13N	heptanenitrile	629-08-3	66.9663	643.10	0.3800	210.55	643.10	1,2	457.65	41.748
11696	C7H14	ethylcyclopentane	1640-89-7	49.2393	569.52	0.3910	134.71	569.52	1,2	376.62	32.246
11697	C7H14	1,1-dimethylcyclopentane	1638-26-2	46.1661	547.00	0.3800	300.00	547.00	1,2	361.00	35.636
11698	C7H14	1,2-dimethylcyclopentane	2452-99-5	48.5062	556.47	0.3800	270.00	556.47	1,2	370.00	32.016

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
11699	C7H14	cis-1,2-dimethylcyclopentane	1192-18-3	47.5969	565.15	0.3770	219.26	565.15	1,2	372.68	31.712
11700	C7H14	trans-1,2-dimethylcyclopentane	822-50-4	47.5600	553.15	0.3910	155.58	553.15	1,2	365.02	31.196
11701	C7H14	1,3-dimethylcyclopentane	2453-00-1	45.8707	556.47	0.3800	134.60	556.47	1,2	365.10	30.576
11702	C7H14	cis-1,3-dimethylcyclopentane	2532-58-3	45.5200	551.00	0.3630	139.45	551.00	1,2	363.92	30.755
11703	C7H14	trans-1,3-dimethylcyclopentane	1759-58-6	48.6000	553.00	0.4060	139.18	553.00	1,2	364.88	31.370
11704	C7H14	methylcyclohexane	108-87-2	49.4195	572.19	0.4150	146.58	572.19	1,2	374.08	31.823
11705	C7H14	cycloheptane	291-64-5	50.0209	604.30	0.3820	265.12	604.30	1,2	391.94	33.547
11706	C7H14	1-heptene	592-76-7	49.7172	537.29	0.3910	154.27	537.29	1,2	366.79	31.739
11707	C7H14	2-heptene	592-77-8	52.4185	537.61	0.3800	271.40	537.61	1,2	371.40	33.555
11708	C7H14	cis-2-heptene	6443-92-1	47.5907	549.00	0.3750	164.00	549.00	1,2	371.56	31.159
11709	C7H14	trans-2-heptene	14686-13-6	48.4433	543.00	0.3680	163.67	543.00	1,2	371.10	31.726
11710	C7H14	3-heptene	592-78-9	50.8477	537.61	0.3800	269.00	537.61	1,2	369.00	32.727
11711	C7H14	3-heptene (mixed isomers)	25339-56-4	47.6016	537.61	0.3800	263.69	537.61	2	363.69	31.001
11712	C7H14	cis-3-heptene	7642-10-6	50.9870	545.00	0.4240	136.51	545.00	1,2	368.90	31.581
11713	C7H14	trans-3-heptene	14686-14-7	48.1645	540.00	0.3700	136.52	540.00	1,2	368.82	31.486
11714	C7H14	2-methyl-1-hexene	6094-02-6	48.1619	538.00	0.3860	170.28	538.00	1,2	364.99	31.083
11715	C7H14	3-methyl-1-hexene	3404-61-3	48.6310	528.00	0.4070	145.00	528.00	1,2	357.05	30.731
11716	C7H14	4-methyl-1-hexene	3769-23-1	46.8284	534.00	0.3790	131.70	534.00	1,2	359.88	30.623
11717	C7H14	5-methyl-1-hexene	3524-73-0	46.6538	530.65	0.3800	151.39	530.65	1,2	358.46	30.419
11718	C7H14	2-methyl-2-hexene	2738-19-4	47.8960	546.77	0.3800	142.80	546.77	1,2	368.56	31.281
11719	C7H14	3-methyl-cis-2-hexene	10574-36-4	48.1482	549.51	0.3800	154.65	549.51	1,2	370.41	31.446
11720	C7H14	3-methyl-trans-2-hexene	20710-38-7	47.8646	546.42	0.3800	143.85	546.42	1,2	368.33	31.261
11721	C7H14	4-methyl-cis-2-hexene	3683-19-0	46.5456	534.04	0.3800	148.07	534.04	1,2	359.46	30.434
11722	C7H14	4-methyl-trans-2-hexene	3683-22-5	46.7156	535.90	0.3800	147.46	535.90	1,2	360.71	30.545
11723	C7H14	5-methyl-cis-2-hexene	13151-17-2	46.9791	538.78	0.3800	148.07	538.78	1,2	362.65	30.718
11724	C7H14	5-methyl-trans-2-hexene	7385-82-2	46.7902	536.72	0.3800	148.81	536.72	1,2	361.26	30.594
11725	C7H14	2-methyl-cis-3-hexene	15840-60-5	46.5035	533.58	0.3800	148.07	533.58	1,2	359.15	30.407
11726	C7H14	2-methyl-trans-3-hexene	692-24-0	46.4899	533.44	0.3800	131.59	533.44	1,2	359.05	30.398
11727	C7H14	3-methyl-cis-3-hexene	4914-89-0	47.8947	546.75	0.3800	149.11	546.75	1,2	368.55	31.280
11728	C7H14	3-methyl-trans-3-hexene	3899-36-3	47.6413	543.99	0.3800	149.11	543.99	1,2	366.69	31.115
11729	C7H14	2-ethyl-1-pentene	3404-71-5	49.2362	543.00	0.4010	168.00	543.00	1,2	367.15	31.328
11730	C7H14	3-ethyl-1-pentene	4038-04-4	47.9254	530.00	0.3980	145.67	530.00	1,2	357.26	30.675
11731	C7H14	2,3-dimethyl-1-pentene	3404-72-6	45.9145	532.72	0.3800	138.85	532.72	1,2	357.43	30.096
11732	C7H14	2,4-dimethyl-1-pentene	2213-32-3	45.5547	528.74	0.3800	149.09	528.74	1,2	354.76	29.860
11733	C7H14	3,3-dimethyl-1-pentene	3404-73-7	44.1739	527.74	0.3800	138.77	527.74	1,2	350.63	29.173
11734	C7H14	3,4-dimethyl-1-pentene	7385-78-6	45.3382	528.31	0.3800	136.39	528.31	1,2	353.95	29.752
11735	C7H14	4,4-dimethyl-1-pentene	762-62-9	43.5178	520.28	0.3800	136.55	520.28	1,2	345.67	28.740
11736	C7H14	3-ethyl-2-pentene	816-79-5	47.9777	547.66	0.3800	149.11	547.66	1,2	369.16	31.335
11737	C7H14	2,3-dimethyl-2-pentene	10574-37-5	47.5485	553.47	0.3800	154.88	553.47	1,2	370.55	31.219
11738	C7H14	2,4-dimethyl-2-pentene	625-65-0	45.5440	533.21	0.3800	145.45	533.21	1,2	356.45	29.937
11739	C7H14	3,4-dimethyl-cis-2-pentene	4914-91-4	46.3422	542.11	0.3800	159.76	542.11	1,2	362.40	30.462
11740	C7H14	3,4-dimethyl-trans-2-pentene	4914-92-5	46.6442	545.47	0.3800	148.92	545.47	1,2	364.65	30.660
11741	C7H14	4,4-dimethyl-cis-2-pentene	762-63-0	44.3797	534.97	0.3800	137.69	534.97	1,2	353.58	29.423
11742	C7H14	4,4-dimethyl-trans-2-pentene	690-08-4	43.8480	528.63	0.3800	157.92	528.63	1,2	349.89	29.040
11743	C7H14	3-methyl-2-ethyl-1-butene	7357-93-9	46.1956	535.82	0.3800	137.43	535.82	1,2	359.52	30.280
11744	C7H14	2,3,3-trimethyl-1-butene	594-56-9	45.3506	531.00	0.4040	163.30	531.00	1,2	351.04	29.291
11745	C7H14	3,4-dimethylpent-2-ene	24910-63-2	45.9518	537.61	0.3800	149.05	537.61	1,2	360.80	30.115
11746	C7H14	1,1,2,2-tetramethylcyclopropane	4127-47-3	48.0903	530.00	0.3800	263.69	530.00	2	363.69	30.958
11747	C7H14	1,1-diethylcyclopropane	1003-19-6	47.6101	530.00	0.3800	167.25	530.00	1,2	361.80	30.781
11751	C7H14Br2	1,1-dibromoheptane	59104-79-9	74.5863	700.05	0.3800	272.75	700.05	1,2	495.15	46.762
11752	C7H14Br2	1,2-dibromoheptane	42474-21-5	70.9693	700.05	0.3800	401.15	700.05	1,2	501.15	43.995
11753	C7H14Br2	1,5-dibromoheptane	1622-10-2	73.8542	700.05	0.3800	410.82	700.05	2	510.82	44.924
11754	C7H14Br2	1,7-dibromoheptane	4549-31-9	82.2430	700.05	0.3800	314.85	700.05	1,2	536.15	47.368
11755	C7H14Br2	2,3-dibromoheptane	21266-88-6	73.8542	700.05	0.3800	410.82	700.05	2	510.82	44.924
11756	C7H14Br2	3,4-dibromoheptane	21266-90-0	73.8542	700.05	0.3800	410.82	700.05	2	510.82	44.924
11763	C7H14Cl2	1,1-dichloroheptane	821-25-0	64.7852	654.02	0.3800	212.99	654.02	1,2	460.15	40.814
11764	C7H14Cl2	1,2-dichloro-4,4-dimethylpentane	6065-90-3	58.0901	654.02	0.3800	348.15	654.02	1,2	448.15	37.440
11765	C7H14Cl2	1,5-dichloro-3,3-dimethylpentane	62496-53-1	61.8513	654.02	0.3800	354.15	654.02	2	454.15	39.419
11766	C7H14Cl2	2,4-dichloro-2,4-dimethylpentane	33553-93-4	61.8513	654.02	0.3800	296.65	654.02	2	454.15	39.419
11767	C7H14Cl2	1,2-dichloroheptane	10575-87-8	61.8513	654.02	0.3800	354.15	654.02	2	454.15	39.419
11768	C7H14Cl2	1,7-dichloroheptane	821-76-1	61.8513	654.02	0.3800	354.15	654.02	2	454.15	39.419
11769	C7H14Cl2	2,2-dichloroheptane	65786-09-6	61.8513	654.02	0.3800	354.15	654.02	2	454.15	39.419
11770	C7H14Cl2	4,4-dichloroheptane	89796-76-9	61.8513	654.02	0.3800	354.15	654.02	1,2	454.15	39.419
11772	C7H14F2	1,1-difluoroheptane	407-96-5	54.6420	556.10	0.3800	191.15	556.10	1,2	392.85	34.297
11774	C7H14I2	1,1-diiodoheptane	66675-46-5	76.5825	780.77	0.3800	269.27	780.77	2	545.40	48.555
11827	C7H14O	1-heptanal	111-71-7	61.8128	603.00	0.3800	230.15	603.00	1,2	425.95	38.800
11828	C7H14O	3-methylhexanal	19269-28-4	57.0691	603.00	0.3800	316.15	603.00	1,2	416.15	36.564
11828.1	C7H14O	2-methylhexanal	925-54-2	61.4470	593.00	0.3860	235.00	593.00	1,2	416.00	38.532
11829	C7H14O	2-heptanone	110-43-0	62.1903	611.55	0.4030	238.15	611.55	1,2	424.05	38.620
11830	C7H14O	3-heptanone	106-35-4	60.1726	600.16	0.3800	234.15	600.16	1,2	420.55	38.045
11831	C7H14O	4-heptanone	123-19-3	59.6639	595.31	0.3800	240.65	595.31	1,2	417.15	37.724
11832	C7H14O	3-methyl-2-hexanone	2550-21-2	58.1443	593.86	0.3800	203.08	593.86	1,2	413.15	36.997
11833	C7H14O	4-methyl-2-hexanone	105-42-0	57.9970	592.42	0.3800	203.08	592.42	1,2	412.15	36.903
11834	C7H14O	5-methyl-2-hexanone	110-12-3	61.6100	601.00	0.3970	199.25	601.00	1,2	417.95	38.431
11835	C7H14O	2-methyl-3-hexanone	7379-12-6	57.1138	583.80	0.3800	203.08	583.80	1,2	406.15	36.341
11836	C7H14O	4-methyl-3-hexanone	17042-16-9	57.5554	588.11	0.3800	203.08	588.11	1,2	409.15	36.622
11837	C7H14O	5-methyl-3-hexanone	623-56-3	57.5554	588.11	0.3800	203.08	588.11	1,2	409.15	36.622
11838	C7H14O	3-ethyl-2-pentanone	6137-03-7	57.8498	590.99	0.3800	203.08	590.99	1,2	411.15	36.809
11839	C7H14O	3,3-dimethyl-2-pentanone	20669-04-9	54.9623	589.07	0.3800	220.50	589.07	1,2	403.75	35.417
11840	C7H14O	3,4-dimethyl-2-pentanone	565-78-6	56.0812	586.69	0.3800	188.08	586.69	1,2	405.15	35.911

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
11841	C7H14O	4,4-dimethyl-2-pentanone	590-50-1	54.1641	580.90	0.3800	220.50	580.90	1,2	398.15	34.903
11842	C7H14O	2,2-dimethyl-3-pentanone	564-04-5	54.1641	580.90	0.3800	220.50	580.90	1,2	398.15	34.903
11843	C7H14O	2,4-dimethyl-3-pentanone	565-80-0	55.9538	576.00	0.3770	204.81	576.00	1,2	397.55	35.973
11844	C7H14O	1-methylcyclohexanol	590-67-0	71.9222	635.00	0.3960	299.15	603.00	1,2	430.15	45.951
11845	C7H14O	cis-2-methylcyclohexanol	7443-70-1	73.7566	635.00	0.4000	280.15	614.00	1,2	438.15	46.168
11846	C7H14O	trans-2-methylcyclohexanol	7443-52-9	76.1799	635.00	0.4170	269.15	616.00	1,2	439.65	46.596
11847	C7H14O	cis-3-methylcyclohexanol	5454-79-5	78.4935	635.00	0.4250	267.65	618.00	1,2	441.15	47.405
11848	C7H14O	trans-3-methylcyclohexanol	7443-55-2	77.6697	635.00	0.4230	272.65	617.00	1,2	441.15	47.019
11849	C7H14O	cis-4-methylcyclohexanol	7731-28-4	83.1734	635.00	0.4470	344.15	622.00	1,2	444.15	48.597
11850	C7H14O	trans-4-methylcyclohexanol	7731-29-5	81.3038	635.00	0.4310	344.15	622.00	1,2	444.15	48.428
11851	C7H14O	trans-2-methylcyclohexanol, (±)	615-39-4	59.9230	635.00	0.3800	271.15	635.00	1,2	440.65	38.212
11855	C7H14O	1-hepten-4-ol	3521-91-3	58.6382	601.00	0.3800	325.25	601.00	1,2	425.25	36.751
11856	C7H14O	2-hepten-4-ol, (±)	115113-98-9	58.8890	601.00	0.3800	326.15	601.00	1,2	426.15	36.836
11857	C7H14O	3-hepten-2-ol	98991-54-9	58.2005	601.00	0.3800	323.67	601.00	2	423.67	36.601
11858	C7H14O	6-hepten-2-ol	24395-10-6	58.2005	601.00	0.3800	323.67	601.00	2	423.67	36.601
11859	C7H14O	6-hepten-3-ol	19781-77-2	58.2005	601.00	0.3800	323.67	601.00	2	423.67	36.601
11860	C7H14O	cis-2-hepten-1-ol	55454-22-3	66.4708	601.00	0.3800	351.15	601.00	1,2	451.15	39.211
11861	C7H14O	trans-2-hepten-1-ol	33467-76-4	66.4708	601.00	0.3800	351.15	601.00	1,2	451.15	39.211
11862	C7H14O	2-methyl-3-hexen-2-ol	18812-62-9	58.2005	601.00	0.3800	323.67	601.00	2	423.67	36.601
11863	C7H14O	2-methyl-4-hexen-3-ol	4798-60-1	55.2628	601.00	0.3800	312.65	601.00	1,2	412.65	35.559
11864	C7H14O	2-methyl-5-hexen-2-ol	16744-89-1	56.0444	601.00	0.3800	251.15	601.00	1,2	415.65	35.842
11865	C7H14O	3-methyl-3-hexen-2-ol	110383-31-8	58.2005	601.00	0.3800	323.67	601.00	2	423.67	36.601
11866	C7H14O	3-methyl-4-hexen-3-ol	60111-14-0	58.2005	601.00	0.3800	323.67	601.00	2	423.67	36.601
11867	C7H14O	3-methyl-5-hexen-3-ol	1569-44-4	55.1338	601.00	0.3800	312.15	601.00	1,2	412.15	35.512
11868	C7H14O	4-methyl-5-hexen-3-ol	1838-77-3	55.5219	601.00	0.3800	313.65	601.00	1,2	413.65	35.653
11869	C7H14O	5-methyl-1-hexen-3-ol	4798-46-3	51.6603	601.00	0.3800	298.15	601.00	1,2	398.15	34.191
11870	C7H14O	5-methyl-2-hexenol	77053-92-0	63.5940	601.00	0.3800	342.15	601.00	1,2	442.15	38.355
11871	C7H14O	isopentyl vinyl ether	39782-38-2	51.3613	561.00	0.3800	285.65	561.00	1,2	385.65	33.015
11875	C7H14O	1-hepten-3-ol	4938-52-7	59.3101	601.00	0.3800	327.65	601.00	1,2	427.65	36.978
11876	C7H14O	cis-4-hepten-1-ol	6191-71-5	58.2005	601.00	0.3800	323.67	601.00	2	423.67	36.601
11877	C7H14O	methylcyclohexanol	25639-42-3	59.9230	635.00	0.3800	223.25	635.00	1,2	440.65	38.212
11878	C7H14O	2-methylcyclohexanol; (cis+trans)	583-59-5	59.4594	635.00	0.3800	298.15	635.00	1,2	438.90	38.046
11879	C7H14O	4-methylcyclohexanol; (cis+trans)	589-91-3	61.1357	635.00	0.3800	223.25	635.00	1,2	445.15	38.640
11880	C7H14O	3-methylcyclohexanol; (cis+trans)	591-23-1	59.8166	635.00	0.3800	199.25	635.00	1,2	440.25	38.174
11881	C7H14O	tert-pentyl vinyl ether	29281-39-8	49.7198	561.00	0.3800	279.15	561.00	1,2	379.15	32.405
11882	C7H14O	1-(2-propenyloxy)butane	3739-64-8	62.4807	561.00	0.3800	323.67	561.00	2	423.67	36.601
11884	C7H14O2	heptanoic acid	111-14-8	91.5000	680.00	0.4360	265.83	680.00	1,2	496.15	51.731
11885	C7H14O2	2-ethyl-2-methylbutanoic acid	19889-37-3	66.8545	680.00	0.3800	380.15	680.00	1,2	480.15	41.980
11886	C7H14O2	2-ethylpentanoic acid, (±)	116908-83-9	67.4732	680.00	0.3800	382.35	680.00	1,2	482.35	42.191
11887	C7H14O2	2-methylhexanoic acid, (±)	22160-12-9	69.2864	680.00	0.3800	388.65	680.00	1,2	488.65	42.795
11888	C7H14O2	3-methylhexanoic acid	3780-58-3	68.5594	680.00	0.3800	386.15	680.00	1,2	486.15	42.555
11889	C7H14O2	4-methylhexanoic acid, (±)	22160-41-4	69.8754	680.00	0.3800	193.15	680.00	1,2	490.65	42.986
11890	C7H14O2	5-methylhexanoic acid	628-46-6	69.4331	680.00	0.3800	389.15	680.00	1,2	489.15	42.843
11891	C7H14O2	hexyl formate	629-33-4	60.4312	612.30	0.3800	230.53	612.30	1,2	428.65	38.241
11892	C7H14O2	pentyl acetate	628-63-7	66.1200	598.00	0.4410	202.35	598.00	1,2	422.15	38.540
11893	C7H14O2	1-methylbutyl acetate	626-38-0	57.3532	579.00	0.3800	195.48	579.00	1,2	406.15	36.229
11894	C7H14O2	2-methylbutyl acetate	624-41-9	58.3830	589.00	0.3800	195.48	589.00	1,2	413.15	36.880
11895	C7H14O2	isopentyl acetate	123-92-2	59.5462	599.00	0.3890	194.65	599.00	1,2	415.25	37.603
11896	C7H14O2	1-ethylpropyl acetate	620-11-1	57.3472	577.00	0.3800	195.48	577.00	1,2	405.15	36.193
11897	C7H14O2	tert-pentyl acetate	625-16-1	54.9029	572.00	0.3800	212.90	572.00	1,2	397.15	34.994
11898	C7H14O2	1,2-dimethylpropyl acetate	5343-96-4	56.0001	576.00	0.3800	180.48	576.00	1,2	401.65	35.561
11899	C7H14O2	neopentyl acetate	926-41-0	55.0019	577.00	0.3800	212.90	577.00	1,2	401.15	35.017
11900	C7H14O2	sec-pentyl acetate (R)	54638-10-7	57.4177	583.38	0.3800	315.15	583.38	1,2	415.15	35.795
11901	C7H14O2	butyl propanoate	590-01-2	62.5283	594.00	0.3920	183.63	594.00	1,2	419.75	38.663
11902	C7H14O2	isobutyl propanoate	540-42-1	55.6986	592.00	0.3800	201.75	592.00	1,2	409.75	35.597
11903	C7H14O2	sec-butyl propanoate	591-34-4	63.4191	579.00	0.3800	195.48	579.00	1,2	406.15	40.061
11904	C7H14O2	tert-butyl propanoate	20487-40-5	68.9927	557.00	0.3800	212.90	557.00	2	414.55	41.093
11905	C7H14O2	propyl butanoate	105-66-8	57.6919	594.00	0.3570	177.95	594.00	1,2	416.45	37.487
11906	C7H14O2	isopropyl butanoate	638-11-9	57.2212	574.00	0.3800	195.48	574.00	1,2	404.15	36.024
11907	C7H14O2	isopropyl isobutanoate	617-50-5	49.4719	584.00	0.3800	293.85	584.00	1,2	393.85	32.298
11908	C7H14O2	propyl isobutanoate	644-49-5	58.6916	584.00	0.3800	308.55	584.00	1,2	408.55	37.164
11909	C7H14O2	ethyl isovalerate	108-64-5	57.3503	587.95	0.3800	173.85	587.95	1,2	407.45	36.614
11910	C7H14O2	ethyl 2,2-dimethylpropanoate	3938-95-2	49.2090	580.50	0.3800	183.65	580.50	1,2	391.55	32.123
11911	C7H14O2	ethyl 2-methylbutanoate, (+)	10307-61-6	56.3563	584.00	0.3800	305.15	584.00	1,2	405.15	35.946
11912	C7H14O2	ethyl pentanoate	539-82-2	58.1499	587.95	0.3800	181.95	587.95	1,2	419.25	36.183
11913	C7H14O2	methyl 2-ethylbutanoate	816-11-5	55.7077	584.00	0.3800	309.15	584.00	1,2	409.15	35.228
11914	C7H14O2	methyl hexanoate	106-70-7	59.1227	587.95	0.3800	202.15	587.95	1,2	422.65	36.505
11923	C7H14O2	ethyl 2-methylbutyrate	7452-79-1	56.0742	587.95	0.3800	305.90	587.95	1,2	405.90	35.916
11925	C7H14O2	2-methylhexanoic acid	4536-23-6	67.5581	680.00	0.3800	382.65	680.00	1,2	482.65	42.220
11926	C7H14O2	neoheptanoic acid	33113-10-9	44.9221	680.00	0.3800	327.81	680.00	2	427.81	30.815
11927.1	C7H14O2	allyl-tert-butylperoxide	39972-78-6	55.1360	563.00	0.3804	213.00	563.00	1,2	389.94	35.200
11927.2	C7H14O2	neoheptanoic acid	1185-39-3	88.6150	662.00	0.4368	230.00	662.00	1,2	475.65	50.938
11931	C7H14O3	ethyl-3-ethoxypropionate	763-69-9	70.2296	609.00	0.3940	338.15	609.00	1,2	438.15	42.563
11934.1	C7H14O3	propylene glycol ethyl ether acetate	54839-24-6	68.6880	613.00	0.3947	213.00	613.00	1,2	438.00	41.879
11960	C7H14S	thiacyclooctane	6572-99-2	60.4344	726.84	0.3800	256.18	726.84	1,2	471.15	40.632
11961	C7H14S	2-ethylthiacyclohexane	1613-52-1	55.3969	646.42	0.3800	258.98	646.42	2	426.94	36.747
11962	C7H14S	3-ethylthiacyclohexane	61568-48-7	55.3969	646.42	0.3800	258.98	646.42	2	426.94	36.747
11963	C7H14S	4-ethylthiacyclohexane	40324-31-0	55.3969	646.42	0.3800	258.98	646.42	2	426.94	36.747
11964	C7H14S	2,2-dimethylthiacyclohexane	---	54.3594	657.02	0.3800	282.88	657.02	2	427.18	36.470
11965	C7H14S	2,cis-3-dimethylthiacyclohexane	---	54.0185	641.36	0.3800	254.74	641.36	2	422.27	35.915

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
11966	C7H14S	2,trans-3-dimethylthiacyclohexane	---	54.0185	641.36	0.3800	254.74	641.36	2	422.27	35.915
11967	C7H14S	2,cis-4-dimethylthiacyclohexane	---	54.0185	641.36	0.3800	254.74	641.36	2	422.27	35.915
11968	C7H14S	2,trans-4-dimethylthiacyclohexane	---	54.0185	641.36	0.3800	254.74	641.36	2	422.27	35.915
11969	C7H14S	2,cis-5-dimethylthiacyclohexane	---	54.0185	641.36	0.3800	254.74	641.36	2	422.27	35.915
11970	C7H14S	2,trans-5-dimethylthiacyclohexane	---	54.0185	641.36	0.3800	254.74	641.36	2	422.27	35.915
11971	C7H14S	2,cis-6-dimethylthiacyclohexane	---	54.0185	641.36	0.3800	254.74	641.36	2	422.27	35.915
11972	C7H14S	2,trans-6-dimethylthiacyclohexane	---	54.0185	641.36	0.3800	254.74	641.36	2	422.27	35.915
11973	C7H14S	3,3-dimethylthiacyclohexane	---	54.3594	657.02	0.3800	282.88	657.02	2	427.18	36.470
11974	C7H14S	3,cis-4-dimethylthiacyclohexane	---	54.0185	641.36	0.3800	254.74	641.36	2	422.27	35.915
11975	C7H14S	3,trans-4-dimethylthiacyclohexane	---	54.0185	641.36	0.3800	254.74	641.36	2	422.27	35.915
11976	C7H14S	3,cis-5-dimethylthiacyclohexane	---	54.0185	641.36	0.3800	254.74	641.36	2	422.27	35.915
11977	C7H14S	3,trans-5-dimethylthiacyclohexane	---	54.0185	641.36	0.3800	254.74	641.36	2	422.27	35.915
11978	C7H14S	4,4-dimethylthiacyclohexane	---	54.3594	657.02	0.3800	282.88	657.02	2	427.18	36.470
11982	C7H15Br	1-bromoheptane	629-04-9	61.8873	651.00	0.3480	217.05	651.00	1,2	452.05	40.967
11983	C7H15Br	2-bromoheptane	1974-04-5	57.7941	651.00	0.3800	320.15	651.00	1,2	439.15	37.724
11984	C7H15Br	4-bromoheptane	998-93-6	54.9787	651.00	0.3800	334.15	651.00	1,2	434.15	36.205
11988	C7H15Cl	1-chloroheptane	629-06-1	60.1307	621.08	0.3800	203.65	621.08	1,2	433.59	38.144
11989	C7H15Cl	2-chloro-2,3-dimethylpentane	59889-45-1	49.1377	621.08	0.3800	313.42	621.08	2	413.42	32.405
11990	C7H15Cl	2-chloro-2,4-dimethylpentane	35951-33-8	43.4077	621.08	0.3800	301.15	621.08	1,2	401.15	29.258
11991	C7H15Cl	3-chloro-2,3-dimethylpentane	595-38-0	43.4077	621.08	0.3800	301.15	621.08	2	401.15	29.258
11992	C7H15Cl	4-chloro-2,2-dimethylpentane	33429-72-0	43.4077	621.08	0.3800	301.15	621.08	1,2	401.15	29.258
11993	C7H15Cl	3-chloro-3-ethylpentane	994-25-2	50.8187	621.08	0.3800	316.65	621.08	1,2	416.65	33.314
11994	C7H15Cl	2-chloroheptane	1001-89-4	49.1377	621.08	0.3800	313.42	621.08	2	413.42	32.405
11995	C7H15Cl	3-chloroheptane	999-52-0	51.0857	621.08	0.3800	317.15	621.08	1,2	417.15	33.458
11996	C7H15Cl	4-chloroheptane	998-95-8	51.0857	621.08	0.3800	317.15	621.08	1,2	417.15	33.458
11997	C7H15Cl	1-chloro-3-methylhexane	101257-63-0	55.0381	621.08	0.3800	324.15	621.08	1,2	424.15	35.572
11998	C7H15Cl	2-chloro-2-methylhexane	4398-65-6	46.5584	621.08	0.3800	308.15	621.08	2	408.15	30.998
11999	C7H15Cl	2-chloro-5-methylhexane	58766-17-9	48.0041	621.08	0.3800	311.15	621.08	2	411.15	31.788
12000	C7H15Cl	3-chloro-3-methylhexane	43197-78-0	46.5584	621.08	0.3800	308.15	621.08	1,2	408.15	30.998
12001	C7H15Cl	2-chloro-2,3,3-trimethylbutane	918-07-0	49.1377	621.08	0.3800	409.15	621.08	2	413.42	32.405
12015	C7H15F	1-fluoroheptane	661-11-0	54.4760	555.80	0.3800	200.15	555.80	1,2	391.05	34.319
12020	C7H15I	1-iodoheptane	4282-40-0	80.7470	646.56	0.3800	224.95	646.56	1,2	477.10	48.545
12021	C7H15I	2-iodoheptane	18589-29-2	69.3422	646.56	0.3800	377.10	646.56	2	477.10	41.688
12022	C7H15I	3-iodoheptane	31294-92-5	69.3422	646.56	0.3800	377.10	646.56	2	477.10	41.688
12023	C7H15I	4-iodoheptane	31294-93-6	69.3422	646.56	0.3800	377.10	646.56	2	477.10	41.688
12024	C7H15N	N-methylcyclohexylamine	100-60-7	59.8572	622.00	0.3860	264.65	622.00	1,2	422.00	38.629
12025	C7H15N	cyclohexanemethanamine	3218-02-8	67.3016	622.00	0.3800	333.15	622.00	1,2	433.15	42.787
12026	C7H15N	cis-2-methylcyclohexylamine	2164-19-4	62.6425	622.00	0.3800	326.65	622.00	1,2	426.65	40.340
12027	C7H15N	trans-2-methylcyclohexylamine	931-10-2	60.3201	622.00	0.3800	323.15	622.00	1,2	423.15	39.108
12028	C7H15N	cis-3-methylcyclohexylamine	1193-16-4	62.3031	622.00	0.3800	326.15	622.00	1,2	426.15	40.161
12029	C7H15N	trans-3-methylcyclohexylamine	1193-17-5	61.3004	622.00	0.3800	324.65	622.00	1,2	424.65	39.629
12030	C7H15N	cis-4-methylcyclohexylamine	2523-56-0	62.6425	622.00	0.3800	326.65	622.00	1,2	426.65	40.340
12031	C7H15N	trans-4-methylcyclohexylamine	2523-55-9	61.6321	622.00	0.3800	325.15	622.00	1,2	425.15	39.805
12049	C7H15N	3-methylcyclohexylamine	6850-35-7	60.3201	622.00	0.3800	323.15	622.00	1,2	423.15	39.108
12050	C7H15N	2-methylcyclohexylamine; (cis+trans)	7003-32-9	59.9982	622.00	0.3800	322.65	622.00	1,2	422.65	38.936
12051	C7H15N	4-methylcyclohexylamine	6321-23-9	61.9664	622.00	0.3800	325.65	622.00	1,2	425.65	39.982
12075	C7H15NO2	1-nitroheptane	693-39-0	74.2695	675.30	0.3800	311.76	675.30	1,2	486.15	45.792
12112	C7H16	heptane	142-82-5	49.7300	540.26	0.3860	182.56	540.26	1,2	371.58	31.731
12113	C7H16	2-methylhexane	591-76-4	49.9169	530.37	0.4080	154.90	530.37	1,2	363.20	31.165
12114	C7H16	3-methylhexane	589-34-4	48.9244	535.25	0.3930	153.75	535.25	1,2	365.00	31.190
12115	C7H16	3-ethylpentane	617-78-7	47.3253	540.64	0.3730	154.55	540.64	1,2	366.62	31.007
12116	C7H16	2,2-dimethylpentane	590-35-2	44.8019	520.50	0.3770	149.34	520.50	1,2	352.34	29.262
12117	C7H16	2,3-dimethylpentane	565-59-3	46.8658	537.35	0.3820	160.00	537.35	1,2	362.93	30.492
12118	C7H16	2,4-dimethylpentane	108-08-7	46.8600	519.79	0.3970	153.91	519.79	1,2	353.64	29.796
12119	C7H16	3,3-dimethylpentane	562-49-2	45.3501	536.40	0.3810	138.70	536.40	1,2	359.21	29.737
12120	C7H16	2,2,3-trimethylbutane	464-06-2	43.5996	531.17	0.3720	248.57	531.17	1,2	354.03	28.978
12121	C7H16	3-methylhexane, (S)-	6131-24-4	49.1817	532.41	0.3800	154.15	532.41	1,2	365.15	31.675
12164	C7H16O	1-heptanol	111-70-6	100.7500	631.90	0.6100	239.15	631.90	1,2	449.45	45.769
12165	C7H16O	2-heptanol	543-49-7	93.6950	588.00	0.6370	243.00	588.00	1,2	432.35	30.501
12166	C7H16O	3-heptanol	589-82-2	70.6908	585.83	0.3800	203.15	585.83	1,2	429.85	42.754
12167	C7H16O	4-heptanol	589-55-9	70.3482	583.10	0.3800	231.15	583.10	1,2	427.85	42.547
12168	C7H16O	2-methyl-1-hexanol	624-22-6	71.7705	594.41	0.3800	213.97	594.41	1,2	436.15	43.407
12169	C7H16O	3-methyl-1-hexanol	13231-81-7	73.3139	606.68	0.3800	213.97	606.68	1,2	445.15	44.340
12170	C7H16O	4-methyl-1-hexanol	818-49-5	73.4855	608.04	0.3800	213.97	608.04	1,2	446.15	44.444
12171	C7H16O	5-methyl-1-hexanol	627-98-5	81.6400	605.00	0.3980	293.15	605.00	1,2	445.15	48.066
12172	C7H16O	2-methyl-2-hexanol	625-23-0	66.0818	573.58	0.3800	231.39	573.58	1,2	415.95	40.450
12173	C7H16O	3-methyl-2-hexanol	2313-65-7	68.7726	582.81	0.3800	198.97	582.81	1,2	425.15	41.845
12174	C7H16O	4-methyl-2-hexanol	2313-61-3	68.6040	581.44	0.3800	198.97	581.44	1,2	424.15	41.743
12175	C7H16O	5-methyl-2-hexanol	627-59-8	68.6040	581.44	0.3800	198.97	581.44	1,2	424.15	41.743
12176	C7H16O	2-methyl-3-hexanol	617-29-8	67.5929	573.21	0.3800	198.97	573.21	1,2	418.15	41.128
12177	C7H16O	3-methyl-3-hexanol	597-96-6	66.0818	573.58	0.3800	231.39	573.58	1,2	415.95	40.450
12178	C7H16O	4-methyl-3-hexanol	615-29-2	68.2669	578.70	0.3800	198.97	578.70	1,2	422.15	41.538
12179	C7H16O	5-methyl-3-hexanol	623-55-2	68.0984	577.32	0.3800	198.97	577.32	1,2	421.15	41.435
12180	C7H16O	2-ethyl-1-pentanol	27522-11-8	72.2848	598.50	0.3800	213.97	598.50	1,2	439.15	43.718
12181	C7H16O	3-ethyl-1-pentanol	66225-51-2	72.2848	598.50	0.3800	213.97	598.50	1,2	439.15	43.718
12182	C7H16O	2,2-dimethyl-1-pentanol	2370-12-9	67.7723	587.65	0.3800	231.39	587.65	1,2	426.15	41.485
12183	C7H16O	2,3-dimethyl-1-pentanol	10143-23-4	70.7969	599.26	0.3800	198.97	599.26	1,2	437.15	43.077
12184	C7H16O	2,4-dimethyl-1-pentanol	6305-71-1	69.9532	592.40	0.3800	198.97	592.40	1,2	432.15	42.564
12185	C7H16O	3,3-dimethyl-1-pentanol	19264-94-9	69.7634	604.20	0.3800	231.39	604.20	1,2	438.15	42.704
12186	C7H16O	3,4-dimethyl-1-pentanol	6570-87-2	70.9657	600.63	0.3800	198.97	600.63	1,2	438.15	43.180

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
12187	C7H16O	4,4-dimethyl-1-pentanol	3121-79-7	68.9335	597.30	0.3800	231.39	597.30	1,2	433.15	42.196
12188	C7H16O	3-ethyl-2-pentanol	609-27-8	68.7726	582.81	0.3800	198.97	582.81	1,2	425.15	41.845
12189	C7H16O	2,3-dimethyl-2-pentanol	4911-70-0	64.4089	571.87	0.3800	216.39	571.87	1,2	412.15	39.669
12190	C7H16O	2,4-dimethyl-2-pentanol	625-06-9	63.4311	563.54	0.3800	216.39	563.54	1,2	406.15	39.067
12191	C7H16O	3,3-dimethyl-2-pentanol	19781-24-9	65.7137	582.97	0.3800	216.39	582.97	1,2	420.15	40.472
12192	C7H16O	3,4-dimethyl-2-pentanol	64502-86-9	67.8424	587.70	0.3800	183.97	587.70	1,2	426.15	41.531
12193	C7H16O	4,4-dimethyl-2-pentanol	6144-93-0	64.2459	570.48	0.3800	213.15	570.48	1,2	411.15	39.568
12194	C7H16O	3-ethyl-3-pentanol	597-49-9	66.0321	573.17	0.3800	260.75	573.17	1,2	415.65	40.420
12195	C7H16O	2,2-dimethyl-3-pentanol	3970-62-5	63.9199	567.71	0.3800	278.15	567.71	1,2	409.15	39.368
12196	C7H16O	2,3-dimethyl-3-pentanol	595-41-5	64.5720	573.26	0.3800	216.39	573.26	1,2	413.15	39.769
12197	C7H16O	2,4-dimethyl-3-pentanol	600-36-2	65.4870	568.11	0.3800	265.15	568.11	1,2	411.95	40.089
12198	C7H16O	2-methyl-2-ethyl-1-butanol	18371-13-6	68.4358	593.16	0.3800	231.39	593.16	1,2	430.15	41.891
12199	C7H16O	3-methyl-2-ethyl-1-butanol	32444-34-1	70.4593	596.52	0.3800	198.97	596.52	1,2	435.15	42.872
12200	C7H16O	2,2,3-trimethyl-1-butanol	55505-23-2	67.3460	596.85	0.3800	216.39	596.85	1,2	430.15	41.478
12201	C7H16O	2,3,3-trimethyl-1-butanol	36794-64-6	67.8360	601.01	0.3800	216.39	601.01	1,2	433.15	41.780
12202	C7H16O	2,3,3-trimethyl-2-butanol	594-83-2	61.0497	568.02	0.3800	290.15	568.02	1,2	404.15	38.066
12203	C7H16O	2,4-dimethyl-1-pentanol, (±)	111768-02-6	62.0430	587.20	0.3800	332.15	587.20	1,2	432.15	37.405
12204	C7H16O	2-heptanol, (±)	52390-72-4	62.0430	587.20	0.3800	332.15	587.20	1,2	432.15	37.405
12205	C7H16O	3-heptanol, (S)	26549-25-7	61.4284	587.20	0.3800	203.15	587.20	1,2	430.15	37.215
12206	C7H16O	2-methyl-1-hexanol, (±)	111768-04-8	63.6177	587.20	0.3800	337.15	587.20	1,2	437.15	37.880
12207	C7H16O	3-methyl-1-hexanol, (±)	111768-08-2	65.5844	587.20	0.3800	343.15	587.20	1,2	443.15	38.450
12208	C7H16O	4-methyl-1-hexanol, (±)	111768-05-9	66.6017	587.20	0.3800	346.15	587.20	1,2	446.15	38.735
12209	C7H16O	2-methyl-3-hexanol, (±)	100295-82-7	57.3487	587.20	0.3800	316.15	587.20	1,2	416.15	35.890
12210	C7H16O	5-methyl-3-hexanol, (±)	100295-83-8	58.4768	587.20	0.3800	320.15	587.20	1,2	420.15	36.268
12211	C7H16O	isopropyl-tert-butyl-ether	17348-59-3	49.0166	558.21	0.3800	177.80	558.21	1,2	378.66	31.853
12212	C7H16O	butyl propyl ether	3073-92-5	53.0607	558.21	0.3800	291.25	558.21	1,2	391.25	33.542
12212.1	C7H16O	isopropyl isobutyl ether	78448-33-6	49.7060	537.00	0.3802	180.00	537.00	1,2	371.20	31.795
12213	C7H16O	2-ethoxy-2-methylbutane	919-94-8	47.0302	558.21	0.3800	275.15	558.21	1,2	375.15	30.788
12214	C7H16O	ethyl isopentyl ether	628-04-6	53.3332	558.21	0.3800	285.65	558.21	1,2	385.65	34.139
12215	C7H16O	ethyl pentyl ether	17952-11-3	52.9262	558.21	0.3800	290.75	558.21	1,2	390.75	33.495
12216	C7H16O	hexyl methyl ether	4747-07-3	55.2737	558.21	0.3800	299.25	558.21	1,2	399.25	34.295
12217	C7H16O	1-(1-methylethoxy)butane	1860-27-1	50.4955	558.21	0.3800	281.15	558.21	1,2	381.15	32.640
12218	C7H16O	2-methyl-1-propoxypropane	15268-49-2	48.7200	558.21	0.3800	278.15	558.21	1,2	378.15	31.694
12219	C7H16O	2-methyl-2-propoxypropane	29072-93-3	45.9484	558.21	0.3800	273.15	558.21	1,2	373.15	30.204
12220	C7H16O	(S)-(+)-2-heptanol	6033-23-4	60.4177	587.20	0.3800	326.80	587.20	1,2	426.80	36.898
12221	C7H16O	(R)-(-)-2-heptanol	6033-24-5	58.6488	587.20	0.3800	320.75	587.20	2	420.75	36.325
12224	C7H16O2	1,2-heptanediol	3710-31-4	105.3210	661.26	0.3800	274.79	661.26	2	511.15	59.952
12225	C7H16O2	1,3-heptanediol	23433-04-7	107.6687	675.49	0.3800	274.79	675.49	2	522.15	61.289
12226	C7H16O2	1,4-heptanediol	40646-07-9	112.1554	702.65	0.3800	274.79	702.65	1,2	515.15	67.889
12227	C7H16O2	1,5-heptanediol	60096-09-5	71.7299	660.61	0.3800	389.79	660.61	2	489.79	42.904
12228	C7H16O2	1,6-heptanediol	13175-27-4	99.8384	627.98	0.3800	274.79	627.98	2	485.43	56.831
12229	C7H16O2	1,7-heptanediol	629-30-1	111.0104	683.18	0.3800	293.15	683.18	1,2	535.15	62.083
12230	C7H16O2	2,3-heptanediol	21508-07-6	103.1276	660.11	0.3800	259.79	660.11	2	508.21	59.008
12231	C7H16O2	2,4-heptanediol	20748-86-1	103.1276	660.11	0.3800	259.79	660.11	2	508.21	59.008
12232	C7H16O2	2,6-heptanediol	5969-12-0	103.1276	660.11	0.3800	259.79	660.11	2	508.21	59.008
12233	C7H16O2	2-methyl-1,2-hexanediol	56255-50-6	98.5559	644.63	0.3800	292.21	644.63	2	494.25	56.686
12234	C7H16O2	2-methyl-2,4-hexanediol	66225-35-2	101.6826	677.27	0.3800	277.21	677.27	2	517.03	58.799
12235	C7H16O2	2-methyl-2,5-hexanediol	29044-06-2	101.6826	677.27	0.3800	309.65	677.27	2	517.03	58.799
12236	C7H16O2	3-methyl-1,6-hexanediol	4089-71-8	99.8384	627.98	0.3800	274.79	627.98	2	485.43	56.831
12237	C7H16O2	3-methyl-2,4-hexanediol	---	106.2840	692.59	0.3800	244.79	692.59	2	530.99	61.135
12238	C7H16O2	3-methyl-3,4-hexanediol	18938-47-1	101.6826	677.27	0.3800	277.21	677.27	2	517.03	58.799
12239	C7H16O2	4-methyl-1,5-hexanediol	66225-37-4	103.1276	660.11	0.3800	259.79	660.11	2	508.21	59.008
12240	C7H16O2	4-methyl-2,4-hexanediol	38836-25-8	101.6826	677.27	0.3800	271.15	677.27	2	517.03	58.799
12241	C7H16O2	5-methyl-1,5-hexanediol	1462-11-9	98.5559	644.63	0.3800	292.21	644.63	2	494.25	56.686
12242	C7H16O2	5-methyl-2,4-hexanediol	54877-00-8	106.2840	692.59	0.3800	244.79	692.59	2	530.99	61.135
12243	C7H16O2	2-ethyl-1,3-pentanediol	29887-11-4	100.9477	645.60	0.3800	258.42	645.60	2	497.74	57.658
12244	C7H16O2	2-ethyl-1,5-pentanediol	14189-13-0	99.8384	627.98	0.3800	274.79	627.98	2	485.43	56.831
12245	C7H16O2	3-ethyl-2,3-pentanediol	66225-32-9	94.1436	628.77	0.3800	277.21	628.77	2	480.00	54.440
12246	C7H16O2	3-ethyl-2,4-pentanediol	66225-33-0	95.8619	626.93	0.3800	244.79	626.93	1,2	480.65	55.141
12247	C7H16O2	2,2-dimethyl-1,3-pentanediol	2157-31-5	95.2926	636.17	0.3800	331.15	636.17	1,2	485.65	55.104
12248	C7H16O2	2,2-dimethyl-1,5-pentanediol	3121-82-2	98.5559	644.63	0.3800	292.21	644.63	2	494.25	56.686
12249	C7H16O2	2,3-dimethyl-1,3-pentanediol	66225-52-3	101.6826	677.27	0.3800	277.21	677.27	2	517.03	58.799
12250	C7H16O2	2,3-dimethyl-2,3-pentanediol	6931-70-0	100.1671	695.12	0.3800	294.63	695.12	2	525.85	58.560
12251	C7H16O2	DL-2,4-dimethyl-1,5-pentanediol	54630-82-9	103.1276	660.11	0.3800	259.79	660.11	2	508.21	59.008
12252	C7H16O2	meso-2,4-dimethyl-1,5-pentanediol	2121-69-9	103.1276	660.11	0.3800	259.79	660.11	2	508.21	59.008
12253	C7H16O2	2,4-dimethyl-2,3-pentanediol	66225-53-4	88.5097	604.17	0.3800	332.15	604.17	1,2	459.15	51.462
12254	C7H16O2	2,4-dimethyl-2,4-pentanediol	24892-49-7	89.1532	621.29	0.3800	271.15	621.29	2	470.00	52.121
12255	C7H16O2	3,3-dimethyl-1,5-pentanediol	53120-74-4	98.5559	644.63	0.3800	292.21	644.63	2	494.25	56.686
12256	C7H16O2	3,4-dimethyl-1,4-pentanediol	63521-36-8	101.6826	677.27	0.3800	277.21	677.27	2	517.03	58.799
12257	C7H16O2	4,4-dimethyl-1,2-pentanediol	66225-54-5	101.6826	677.27	0.3800	277.21	677.27	2	517.03	58.799
12258	C7H16O2	erythro-4,4-dimethyl-2,3-pentanediol	23646-57-3	104.6830	710.30	0.3800	347.15	710.30	2	539.81	60.866
12259	C7H16O2	threo-4,4-dimethyl-2,3-pentanediol	23646-58-4	104.6830	710.30	0.3800	350.15	710.30	2	539.81	60.866
12260	C7H16O2	2-propyl-1,4-butanediol	62946-68-3	99.8384	627.98	0.3800	274.79	627.98	2	485.43	56.831
12261	C7H16O2	2-isopropyl-1,4-butanediol	39497-66-0	103.1276	660.11	0.3800	259.79	660.11	2	508.21	59.008
12262	C7H16O2	2-methyl-3-ethyl-1,4-butanediol	---	103.1276	660.11	0.3800	259.79	660.11	2	508.21	59.008
12263	C7H16O2	2-sec-butyl-1,3-propanediol	33673-01-7	103.1276	660.11	0.3800	322.15	660.11	2	508.21	59.008
12264	C7H16O2	2-methyl-2-propyl-1,3-propanediol	78-26-2	101.7811	664.98	0.3800	328.85	664.98	1,2	509.85	58.541
12265	C7H16O2	2,2-diethyl-1,3-propanediol	115-76-4	101.2227	661.45	0.3800	334.55	661.45	1,2	507.15	58.220
12266	C7H16O2	1-butoxy-2-propanol	5131-66-8	62.5586	618.00	0.3800	344.65	618.00	1,2	444.65	38.592
12270	C7H16O2	2-(pentyloxy)ethanol	6196-58-3	66.6652	618.00	0.3800	358.15	618.00	1,2	458.15	39.878

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
12272	C7H16O2	1-tert-butoxy-2-propanol	57018-52-7	55.9230	618.00	0.3800	217.25	618.00	1,2	420.20	36.273
12274	C7H16O2	1-isobutoxy-2-propanol	23436-19-3	60.7020	618.00	0.3800	298.15	618.00	1,2	438.15	37.975
12275	C7H16O2	propylene glycol butyl ether, isomers	29387-86-8	62.1236	618.00	0.3800	343.15	618.00	1,2	443.15	38.450
12275.1	C7H16O2	propylene glycol 2-tert-butyl ether	94023-15-1	77.5340	578.00	0.4001	215.00	578.00	1,2	425.15	45.541
12275.2	C7H16O2	diethylene glycol monopropyl ether	6881-94-3	84.3200	679.00	0.4474	220.85	679.00	1,2	487.99	47.808
12276	C7H16O2	1-butoxy-2-methoxyethane	13343-98-1	55.8913	618.00	0.3800	320.08	618.00	1,2	420.08	36.261
12277	C7H16O2	3-butoxy-1-propanol	10215-33-5	77.9923	618.00	0.3800	389.79	618.00	2	489.79	42.904
12278	C7H16O2	n-butoxypropanol (mixed isomers)	63716-40-5	77.9923	618.00	0.3800	389.79	618.00	2	489.79	42.904
12279	C7H16O2	isobutoxypropanol, mixed isomers	63716-39-2	77.9923	618.00	0.3800	389.79	618.00	2	489.79	42.904
12300	C7H16S	heptyl mercaptan	1639-09-4	64.1793	645.00	0.3870	229.92	645.00	1,2	450.09	40.389
12301	C7H16S	2-heptanethiol	1628-00-2	59.6633	632.00	0.3800	132.15	632.00	1,2	436.75	38.182
12302	C7H16S	methyl hexyl sulfide	20291-60-5	63.3024	638.37	0.3800	206.66	638.37	2	440.00	40.601
12303	C7H16S	ethyl pentyl sulfide	26158-99-6	63.3024	638.37	0.3800	206.66	638.37	2	440.00	40.601
12304	C7H16S	propyl butyl sulfide	1613-46-3	58.0754	653.50	0.3800	206.66	653.50	1,2	431.00	38.564
12315	C7H17N	heptylamine	111-68-2	62.4146	607.00	0.3580	254.15	607.00	1,2	430.05	40.145
12316	C7H17N	2,4-dimethyl-2-pentanamine	64379-30-2	57.8976	565.35	0.3800	295.15	565.35	1,2	395.15	36.690
12317	C7H17N	2-heptanamine	123-82-0	59.2338	565.35	0.3800	315.15	565.35	1,2	415.15	35.795
12318	C7H17N	4-heptanamine	16751-59-0	58.4748	565.35	0.3800	312.65	565.35	1,2	412.65	35.559
12319	C7H17N	3-methyl-1-hexanamine	65530-93-0	61.4338	565.35	0.3800	322.15	565.35	1,2	422.15	36.457
12320	C7H17N	4-methyl-2-hexanamine	105-41-9	56.4188	565.35	0.3800	305.65	565.35	1,2	405.65	34.898
12321	C7H17N	4-methyl-1-hexylamine	34263-68-8	62.7440	565.35	0.3800	326.15	565.35	1,2	426.15	36.836
12322	C7H17N	methylhexylamine	35161-70-7	60.2045	586.80	0.3800	235.15	586.80	1,2	415.15	37.737
12323	C7H17N	ethylpentylamine	17839-26-8	58.6011	575.00	0.3800	220.81	575.00	1,2	407.15	36.703
12324	C7H17N	dimethylpentylamine	26153-88-8	51.2766	584.20	0.3800	200.62	584.20	1,2	395.15	33.398
12325	C7H17N	dimethyl-2-pentylamine	57303-85-2	52.3811	553.21	0.3800	185.62	553.21	1,2	382.15	33.533
12326	C7H17N	dimethyl-3-pentylamine	18636-94-7	53.3865	563.35	0.3800	185.62	563.35	1,2	389.15	34.177
12327	C7H17N	dimethyl-2-methylbutylamine	66225-39-6	53.2213	561.68	0.3800	185.62	561.68	2	388.00	34.071
12328	C7H17N	dimethyl-3-methylbutylamine	2315-43-7	53.0273	559.73	0.3800	185.62	559.73	1,2	386.65	33.947
12329	C7H17N	dimethyl-1,1-dimethylpropylamine	57757-60-5	51.9865	574.99	0.3800	203.04	574.99	1,2	391.15	33.706
12330	C7H17N	dimethyl-1,2-dimethylpropylamine	66225-38-5	53.5805	565.30	0.3800	185.62	565.30	2	390.50	34.301
12331	C7H17N	dimethyl-2,2-dimethylpropylamine	10076-31-0	51.8960	574.03	0.3800	203.04	574.03	2	390.50	33.647
12332	C7H17N	methylethylbutylamine	66225-40-9	54.3730	560.63	0.3800	200.62	560.63	1,2	390.15	34.588
12333	C7H17N	methylethyl-sec-butylamine	66225-41-0	51.5201	544.53	0.3800	185.62	544.53	1,2	376.15	32.982
12334	C7H17N	methylethylisobutylamine	60247-14-5	52.0940	550.32	0.3800	185.62	550.32	1,2	380.15	33.349
12335	C7H17N	methylethyl-tert-butylamine	52841-28-8	50.8725	563.23	0.3800	203.04	563.23	1,2	383.15	32.984
12336	C7H17N	methyldipropylamine	3405-42-3	53.9500	556.46	0.3800	200.62	556.46	1,2	387.25	34.319
12337	C7H17N	methylpropylisopropylamine	66225-42-1	52.9340	558.79	0.3800	185.62	558.79	2	386.00	33.887
12338	C7H17N	methyldiisopropylamine	10342-97-9	51.9966	561.82	0.3800	170.62	561.82	1,2	385.15	33.500
12339	C7H17N	diethylpropylamine	4458-31-5	53.6438	553.45	0.3800	200.62	553.45	1,2	385.15	34.124
12340	C7H17N	diethylisopropylamine	6006-15-1	52.3094	552.49	0.3800	185.62	552.49	1,2	381.65	33.487
12341	C7H17N	N-tert-butylisopropylamine	7515-80-2	43.6943	565.35	0.3800	271.15	565.35	1,2	371.15	29.112
12342	C7H17N	(S)-2-heptylamine	44745-29-1	59.5412	565.35	0.3800	316.15	565.35	1,2	416.15	35.890
12343	C7H17N	(R)-2-heptylamine	6240-90-0	59.5412	565.35	0.3800	316.15	565.35	1,2	416.15	35.890
12344	C7H17N	N-propylbutylamine	20193-21-9	56.7066	565.35	0.3800	306.65	565.35	1,2	406.65	34.992
12345	C7H17N	3-aminoheptane	28292-42-4	58.9286	565.35	0.3800	314.15	565.35	1,2	414.15	35.701
12346	C7H17N	5-methyl-2-hexylamine	28292-43-5	54.1347	565.35	0.3800	297.47	565.35	2	397.47	34.127
12347	C7H17NO	1-(diethylamino)-2-propanol, (±)	78738-36-0	53.1647	716.00	0.3800	286.65	716.00	1,2	432.15	37.405
12348	C7H17NO	2-(diethylamino)-1-propanol	611-12-1	54.6252	716.00	0.3800	339.15	716.00	1,2	439.15	38.070
12349	C7H17NO	3-(diethylamino)-1-propanol	622-93-5	59.8187	716.00	0.3800	362.65	716.00	1,2	462.65	40.307
12350	C7H17NO	2-[isopentylamino]ethanol	34240-76-1	63.5230	716.00	0.3800	378.15	716.00	1,2	478.15	41.789
12351	C7H17NO	3-butoxypropylamine	16499-88-0	56.1236	716.00	0.3800	208.25	716.00	1,2	446.15	38.735
12352	C7H17NO	1-diethylamino-2-propanol	4402-32-8	57.3290	716.00	0.3800	286.65	716.00	2	451.65	39.259
12353	C7H17NO	4-amino-2-methyl-3-hexanol	63765-80-0	57.3290	716.00	0.3800	351.65	716.00	2	451.65	39.259
12375	C7H18N2	N,N-diethyl-1,3-propanediamine	104-78-9	56.5386	689.00	0.3800	341.65	689.00	1,2	441.65	38.307
12376	C7H18N2	1,7-heptanediamine	646-19-5	70.8904	689.00	0.3800	302.05	689.00	1,2	497.15	43.610
12377	C7H18N2	N,N,N',N'-tetramethyl-1,3-propanediamine	110-95-2	51.2378	689.00	0.3800	317.15	689.00	1,2	417.15	35.984
12378	C7H18N2	N,N-diethyl-N'-methylethylenediamine	104-79-0	54.3130	689.00	0.3800	331.65	689.00	1,2	431.65	37.358
12379	C7H18N2	N,N,2,2-tetramethyl-1,3-propanediamine	53369-71-4	53.8785	689.00	0.3800	329.65	689.00	1,2	429.65	37.168
12380	C7H18N2	3-diethylaminopropylamine	14642-66-1	56.9490	689.00	0.3800	343.45	689.00	2	443.45	38.478
12520	C8H4Cl2O2	isophthaloyl chloride	99-63-8	92.3268	768.00	0.3860	317.00	768.00	1,2	549.00	56.884
12594	C8H4O3	phthalic anhydride	85-44-9	84.2512	791.00	0.3800	404.15	791.00	1,2	557.65	52.980
12713	C8H6	ethynylbenzene	536-74-3	53.1661	655.43	0.3800	242.53	655.43	1,2	416.20	36.250
12934	C8H6O4	isophthalic acid	121-91-5	142.3269	1007.00	0.3800	619.15	1007.00	1,2	753.00	84.328
12935	C8H6O4	phthalic acid	88-99-3	124.1397	800.00	0.3740	464.15	800.00	1,2	598.00	74.192
12936	C8H6O4	terephthalic acid	100-21-0	157.6644	1113.00	0.3800	700.15	1113.00	1,2	832.00	93.449
12947	C8H6S	benzothiophene	95-15-8	65.5239	754.00	0.3750	304.50	754.00	1,2	493.05	44.014
13107	C8H7N	indole	120-72-9	75.8000	790.00	0.4050	273.68	790.00	1,2	526.15	48.616
13237	C8H8	styrene	100-42-5	57.2600	648.00	0.4050	350.00	648.00	1,2	418.31	42.920
13238	C8H8	1,3,5,7-cyclooctatetraene	629-20-9	53.8393	642.55	0.3800	266.16	642.55	1,2	413.16	36.401
13281	C8H8Cl2	1,2-bis(chloromethyl)benzene	612-12-4	71.0395	735.00	0.3800	328.15	735.00	1,2	512.65	45.101
13282	C8H8Cl2	1,3-bis(chloromethyl)benzene	626-16-4	74.4138	735.00	0.3800	307.35	735.00	1,2	524.65	46.258
13283	C8H8Cl2	1,4-bis(chloromethyl)benzene	623-25-6	74.4138	735.00	0.3800	373.15	735.00	2	524.65	46.258
13284	C8H8Cl2	1,2-dichloro-3,4-dimethylbenzene	68266-67-1	68.7640	735.00	0.3800	282.15	735.00	1,2	504.15	44.283
13285	C8H8Cl2	1,3-dichloro-2,5-dimethylbenzene	38204-89-6	66.4485	735.00	0.3800	288.15	735.00	1,2	495.15	43.418
13286	C8H8Cl2	1,4-dichloro-2,5-dimethylbenzene	1124-05-6	66.4485	735.00	0.3800	344.15	735.00	1,2	495.15	43.418
13287	C8H8Cl2	1,5-dichloro-2,4-dimethylbenzene	2084-45-9	66.7012	735.00	0.3800	341.65	735.00	1,2	496.15	43.514
13288	C8H8Cl2	2,3-dichloro-1,4-dimethylbenzene	34840-79-4	68.5021	735.00	0.3800	272.15	735.00	1,2	503.15	44.187
13289	C8H8Cl2	(1,2-dichloroethyl)benzene	1074-11-9	69.4240	735.00	0.3800	406.65	735.00	1,2	506.65	44.523
13290	C8H8Cl2	1,4-dichloro-2-ethylbenzene	54484-63-8	64.3434	735.00	0.3800	386.65	735.00	1,2	486.65	42.603
13291	C8H8Cl2	1-(dichloromethyl)-4-methylbenzene	23063-36-7	64.3147	735.00	0.3800	321.65	735.00	2	486.53	42.592

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
13292	C8H8Cl2	ethyldichlorobenzene	1331-29-9	64.3147	735.00	0.3800	<343	735.00	2	486.53	42.592
13293	C8H8Cl2	xylene chloride	28347-13-9	64.3147	735.00	0.3800	386.53	735.00	2	486.53	42.592
13391	C8H8O	acetophenone	98-86-2	64.6000	701.00	0.3340	292.81	701.00	1,2	475.15	44.253
13392	C8H8O	p-tolualdehyde	104-87-0	70.6266	698.00	0.3800	377.15	698.00	1,2	477.15	45.610
13412	C8H8O2	methyl benzoate	93-58-3	68.4322	693.00	0.3850	260.75	693.00	1,2	472.65	44.023
13413	C8H8O2	o-toluic acid	118-90-1	91.4441	751.00	0.3880	376.85	751.00	1,2	532.00	56.689
13414	C8H8O2	p-toluic acid	99-94-5	93.5773	773.00	0.3820	452.75	773.00	1,2	548.15	58.386
13445	C8H8O3	methyl salicylate	119-36-8	83.8600	701.00	0.3920	265.15	701.00	1,2	493.65	52.021
13446	C8H8O3	vanillin	121-33-5	101.2848	777.00	0.3860	355.00	777.00	1,2	558.00	62.123
13671	C8H9NO	acetanilide	103-84-4	91.9576	825.00	0.3780	386.65	825.00	1,2	576.95	58.385
13789	C8H10	ethylbenzene	100-41-4	54.7881	617.17	0.3880	178.15	617.17	1,2	409.35	35.915
13790	C8H10	o-xylene	95-47-6	55.6060	630.37	0.3750	247.98	630.37	1,2	417.58	37.005
13791	C8H10	m-xylene	108-38-3	60.2162	617.05	0.4580	225.30	617.05	1,2	412.27	36.334
13792	C8H10	p-xylene	106-42-3	52.9100	616.26	0.3540	286.41	616.26	1,2	411.51	35.821
13793	C8H10	xylenes	1330-20-7	55.4853	620.21	0.3800	243.75	620.21	1,2	413.15	36.570
13912	C8H10O	phenetole	103-73-1	63.5377	647.15	0.3790	243.63	647.15	1,2	443.15	41.021
13913	C8H10O	2-phenylethanol	60-12-8	82.5760	684.00	0.3800	247.00	684.00	1,2	492.05	50.950
13918	C8H10O	o-ethylphenol	90-00-6	68.8461	703.00	0.3800	269.84	703.00	1,2	477.67	44.679
13919	C8H10O	m-ethylphenol	620-17-7	65.1924	718.80	0.3800	269.15	718.80	1,2	477.66	43.048
13920	C8H10O	p-ethylphenol	123-07-9	78.4063	716.45	0.3910	318.23	716.45	1,2	491.14	49.878
13921	C8H10O	2,3-xylenol	526-75-0	74.2600	722.95	0.3600	345.71	722.95	1,2	490.07	49.391
13922	C8H10O	2,4-xylenol	105-67-9	75.8300	707.65	0.3830	345.71	707.65	1,2	484.13	48.770
13923	C8H10O	2,5-xylenol	95-87-4	72.3284	707.05	0.3330	347.99	707.05	1,2	484.33	49.232
13924	C8H10O	2,6-xylenol	576-26-1	68.5387	701.05	0.3590	318.76	701.05	1,2	474.22	45.710
13925	C8H10O	3,4-xylenol	95-65-8	80.6186	729.95	0.3720	338.25	729.95	1,2	500.15	52.446
13926	C8H10O	3,5-xylenol	108-68-9	85.4298	715.65	0.4560	336.59	715.65	1,2	494.89	49.968
13934	C8H10O	dimethyl phenol	1300-71-6	40.8068	713.62	0.3800	311.65	713.62	1,2	411.65	29.431
13985.1	C8H10O2	ethylbenzene hydroperoxide	3071-32-7	100.6000	737.00	0.3928	290.00	737.00	1,2	536.00	60.388
14039	C8H10S	o-ethylthiophenol	4500-58-7	65.9428	722.65	0.3800	264.38	722.65	1,2	483.15	43.342
14040	C8H10S	m-ethylthiophenol	62154-77-2	66.0857	724.15	0.3800	264.38	724.15	1,2	484.15	43.436
14041	C8H10S	p-ethylthiophenol	4946-13-8	66.0857	724.15	0.3800	264.38	724.15	1,2	484.15	43.436
14042	C8H10S	2,3-dimethylthiophenol	18800-51-6	66.8092	730.98	0.3800	248.01	730.98	2	489.45	43.861
14043	C8H10S	2,4-dimethylthiophenol	13616-82-5	65.6242	718.58	0.3800	248.01	718.58	1,2	481.15	43.083
14044	C8H10S	2,5-dimethylthiophenol	4001-61-0	65.1961	714.10	0.3800	248.01	714.10	1,2	478.15	42.802
14045	C8H10S	2,6-dimethylthiophenol	118-72-9	66.8092	730.98	0.3800	248.01	730.98	2	489.45	43.861
14046	C8H10S	3,4-dimethylthiophenol	18800-53-8	66.8092	730.98	0.3800	248.01	730.98	2	489.45	43.861
14047	C8H10S	3,5-dimethylthiophenol	38360-81-5	66.8092	730.98	0.3800	248.01	730.98	2	489.45	43.861
14048	C8H10S	(1-thiapropyl)-benzene	622-38-8	65.1482	712.96	0.3800	128.17	712.96	1,2	478.15	42.718
14049	C8H10S	2-methyl-(1-thiaethyl)-benzene	---	65.7912	718.95	0.3800	111.80	718.95	2	482.88	43.090
14050	C8H10S	3-methyl-(1-thiaethyl)-benzene	4886-77-5	65.7912	718.95	0.3800	111.80	718.95	2	482.88	43.090
14051	C8H10S	4-methyl-(1-thiaethyl)-benzene	623-13-2	66.8282	729.78	0.3800	111.80	729.78	1,2	490.15	43.769
14052	C8H10S	[(methylthio)methyl]benzene	766-92-7	66.4587	725.28	0.3800	243.15	725.28	1,2	483.15	43.803
14053	C8H10S	alpha-methylbenzenemethanethiol, (S)	33877-11-1	60.3872	725.28	0.3800	372.15	725.28	1,2	472.15	40.479
14054	C8H10S	2-phenylethanethiol	4410-99-5	71.0883	725.28	0.3800	390.65	725.28	1,2	490.65	46.297
14082	C8H11N	N,N-dimethylaniline	121-69-7	67.8768	687.15	0.4050	275.60	687.15	1,2	466.69	42.832
14083	C8H11N	o-ethylaniline	578-54-1	72.4566	704.00	0.3780	226.55	704.00	1,2	482.65	46.788
14084	C8H11N	N,2-dimethylaniline	611-21-2	74.0595	695.58	0.3800	380.65	695.58	1,2	480.65	47.398
14085	C8H11N	N,3-dimethylaniline	696-44-6	73.3340	695.58	0.3800	379.65	695.58	1,2	479.65	47.016
14086	C8H11N	N,4-dimethylaniline	623-08-5	75.9181	695.58	0.3800	383.15	695.58	1,2	483.15	48.372
14087	C8H11N	2,3-dimethylaniline	87-59-2	69.5233	695.58	0.3800	394.65	695.58	1,2	494.65	43.370
14088	C8H11N	2,4-dimethylaniline	95-68-1	67.4245	695.58	0.3800	258.85	695.58	1,2	487.15	42.651
14089	C8H11N	2,5-dimethylaniline	95-78-3	67.4245	695.58	0.3800	288.65	695.58	1,2	487.15	42.651
14090	C8H11N	2,6-dimethylaniline	87-62-7	67.6996	695.58	0.3800	284.35	695.58	1,2	488.15	42.747
14091	C8H11N	3,4-dimethylaniline	95-64-7	71.4109	695.58	0.3800	324.15	695.58	1,2	501.15	43.995
14092	C8H11N	3,5-dimethylaniline	108-69-0	69.2387	695.58	0.3800	282.95	695.58	1,2	493.65	43.274
14093	C8H11N	m-ethylaniline	587-02-0	67.4245	695.58	0.3800	209.15	695.58	1,2	487.15	42.651
14094	C8H11N	p-ethylaniline	589-16-2	68.3938	695.58	0.3800	270.75	695.58	1,2	490.65	42.986
14095	C8H11N	N-ethylaniline	103-69-5	70.8722	695.58	0.3800	209.65	695.58	1,2	476.15	45.717
14096	C8H11N	2,4,6-trimethylpyridine	108-75-8	66.2737	653.00	0.4540	229.00	653.00	1,2	444.00	39.511
14097	C8H11N	2-ethyl-4-methylpyridine	2150-18-7	64.0412	653.00	0.3800	347.15	653.00	1,2	447.15	41.299
14098	C8H11N	2-ethyl-6-methylpyridine	1122-69-6	55.9130	653.00	0.3800	333.65	653.00	1,2	433.65	36.938
14099	C8H11N	3-ethyl-4-methylpyridine	529-21-5	66.8376	653.00	0.3800	371.15	653.00	1,2	471.15	41.119
14100	C8H11N	4-ethyl-2-methylpyridine	536-88-9	67.4719	653.00	0.3800	352.15	653.00	1,2	452.15	43.107
14101	C8H11N	2-isopropylpyridine	644-98-4	55.5313	653.00	0.3800	132.15	653.00	1,2	432.95	36.731
14102	C8H11N	3-isopropylpyridine	6304-18-3	66.4160	653.00	0.3800	227.35	653.00	1,2	450.65	42.553
14103	C8H11N	4-isopropylpyridine	696-30-0	66.7654	653.00	0.3800	218.25	653.00	1,2	451.15	42.736
14104	C8H11N	4-propylpyridine	1122-81-2	63.1415	653.00	0.3800	358.15	653.00	1,2	458.15	39.878
14105	C8H11N	2-propylpyridine	622-39-9	59.6359	653.00	0.3800	274.15	653.00	1,2	440.15	38.950
14106	C8H11N	2,3,4-trimethylpyridine	2233-29-6	65.2406	653.00	0.3800	365.65	653.00	1,2	465.65	40.594
14107	C8H11N	2,3,5-trimethylpyridine	695-98-7	62.8681	653.00	0.3800	357.15	653.00	1,2	457.15	39.783
14108	C8H11N	2,3,6-trimethylpyridine	1462-84-6	62.4811	653.00	0.3800	344.75	653.00	1,2	444.75	40.471
14109	C8H11N	2,4,5-trimethylpyridine	1122-39-0	63.9707	653.00	0.3800	361.15	653.00	1,2	461.15	40.164
14124	C8H11NO	p-phenetidine	156-43-4	84.6810	754.00	0.3890	277.00	754.00	1,2	528.00	52.995
14228	C8H12	1,5-cyclooctadiene	111-78-4	57.4106	645.00	0.4000	203.98	645.00	1,2	423.27	37.454
14229	C8H12	1,4-cyclooctadiene	1073-07-0	53.1811	645.00	0.3800	220.15	645.00	1,2	418.15	35.752
14230	C8H12	cis,cis-1,5-cyclooctadiene	1552-12-1	56.3574	645.00	0.3800	203.15	645.00	1,2	424.15	37.504
14230.1	C8H12	methylnorbornene	694-92-8	46.9340	600.00	0.3652	220.00	600.00	1,2	390.15	31.979
14231	C8H12	vinylcyclohexene	100-40-3	53.7500	599.00	0.3820	164.00	599.00	1,2	401.00	35.215
14245	C8H12	1-octen-3-yne	17679-92-4	56.4041	570.00	0.3800	307.15	570.00	1,2	407.15	35.039
14247	C8H12	1,3-cyclooctadiene	1700-10-3	52.1761	645.00	0.3800	220.25	645.00	1,2	416.15	35.194

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
14248	C8H12	cis,cis-1,3-cyclooctadiene	3806-59-5	24.3881	645.00	0.3800	221.25	645.00	1,2	327.15	18.638
14252	C8H12	(Z,E)-1,3-cyclooctadiene	3806-60-8	47.6898	645.00	0.3800	306.55	645.00	2	406.55	32.674
14325	C8H12O	2-tert-butylfuran	7040-43-9	50.4237	600.00	0.3800	292.65	600.00	1,2	392.65	33.673
14379	C8H12O4	1,4-cyclohexanedicarboxylic acid	619-82-9	134.0813	889.00	0.3630	585.65	889.00	1,2	669.00	80.764
14380	C8H12O4	diethyl maleate	141-05-9	79.7938	680.00	0.3800	264.35	680.00	1,2	498.15	48.340
14410	C8H12S	2-butylthiophene	1455-20-5	61.2406	665.00	0.3800	354.65	665.00	1,2	454.65	39.544
14411	C8H12S	3-butylthiophene	34722-01-5	61.3699	665.00	0.3800	355.15	665.00	1,2	455.15	39.592
14412	C8H12S	2-(1,1-dimethylethyl)thiophene	1689-78-7	56.9078	665.00	0.3800	214.05	665.00	1,2	437.15	37.880
14413	C8H12S	3-(1,1-dimethylethyl)thiophene	1689-79-8	58.1094	665.00	0.3800	218.45	665.00	1,2	442.15	38.355
14413.1	C8H12S	3-ethyl-2,5-dimethylthiophene	55735-23-4	62.7040	669.00	0.3686	195.00	669.00	1,2	456.15	41.113
14426	C8H13N	1-butyl-1H-pyrrole	589-33-3	58.1464	670.00	0.3800	343.65	670.00	1,2	443.65	38.497
14427	C8H13N	3-ethyl-2,4-dimethyl-1H-pyrrole	517-22-6	65.5170	670.00	0.3800	372.15	670.00	1,2	472.15	41.215
14428	C8H13N	4-ethyl-2,3-dimethyl-1H-pyrrole	491-18-9	65.7956	670.00	0.3800	289.65	670.00	1,2	473.15	41.310
14429	C8H13N	2,3,4,5-tetramethyl-1H-pyrrole	1003-90-3	63.3701	670.00	0.3800	384.15	670.00	2	464.26	40.461
14433	C8H13N	2,5-diethyl-1H-pyrrole	766-95-0	62.0384	670.00	0.3800	359.20	670.00	1,2	459.20	39.978
14463	C8H14	1-propylcyclopentene	3074-61-1	53.0260	602.71	0.3800	155.51	602.71	1,2	404.35	34.760
14464	C8H14	1,2,3-trimethylcyclopentene	473-91-6	47.8804	602.71	0.3800	294.75	602.71	1,2	394.75	31.956
14465	C8H14	1,5,5-trimethylcyclopentene	62184-83-2	42.1257	602.71	0.3800	282.15	602.71	1,2	382.15	28.751
14466	C8H14	1-ethylcyclohexene	1453-24-3	53.0131	617.68	0.3800	163.19	617.68	1,2	410.14	35.026
14467	C8H14	3-ethylcyclohexene	2808-71-1	52.2838	609.58	0.3800	175.81	609.58	1,2	404.76	34.544
14468	C8H14	4-ethylcyclohexene	3742-42-5	52.4721	611.67	0.3800	175.81	611.67	1,2	406.15	34.669
14469	C8H14	1,2-dimethylcyclohexene	1674-10-8	52.4308	621.08	0.3800	189.00	621.08	1,2	411.13	34.721
14470	C8H14	1,3-dimethylcyclohexene	2808-76-6	50.9757	604.64	0.3800	159.44	604.64	1,2	400.25	33.757
14471	C8H14	1,4-dimethylcyclohexene	2808-79-9	51.0960	606.00	0.3800	214.15	606.00	1,2	401.65	33.806
14472	C8H14	1,5-dimethylcyclohexene	2808-77-7	51.0960	606.00	0.3800	159.44	606.00	1,2	401.15	33.837
14473	C8H14	1,6-dimethylcyclohexene	1759-64-4	51.5104	610.68	0.3800	159.44	610.68	1,2	404.25	34.112
14474	C8H14	3,3-dimethylcyclohexene	695-28-3	49.5964	599.77	0.3800	159.44	599.77	1,2	392.15	33.142
14475	C8H14	3,cis-4-dimethylcyclohexene	---	50.3812	597.92	0.3800	159.44	597.92	2	395.80	33.364
14476	C8H14	3,trans-4-dimethylcyclohexene	---	50.3812	597.92	0.3800	159.44	597.92	2	395.80	33.364
14477	C8H14	3,cis-5-dimethylcyclohexene	---	50.3812	597.92	0.3800	159.44	597.92	1,2	397.65	33.247
14478	C8H14	3,trans-5-dimethylcyclohexene	56021-63-7	50.3812	597.92	0.3800	159.44	597.92	2	395.80	33.364
14479	C8H14	3,cis-6-dimethylcyclohexene	---	50.3812	597.92	0.3800	159.44	597.92	1,2	398.15	33.216
14480	C8H14	3,trans-6-dimethylcyclohexene	3685-00-5	50.3812	597.92	0.3800	159.44	597.92	2	395.80	33.364
14481	C8H14	4,4-dimethylcyclohexene	14072-86-7	49.3630	597.08	0.3800	198.68	597.08	1,2	390.39	32.986
14482	C8H14	4,cis-5-dimethylcyclohexene	---	51.0706	605.71	0.3800	159.44	605.71	1,2	400.96	33.820
14483	C8H14	4,trans-5-dimethylcyclohexene	---	50.3812	597.92	0.3800	159.44	597.92	2	395.80	33.364
14484	C8H14	1-octyne	629-05-0	55.4860	574.20	0.3800	193.85	574.20	1,2	399.35	35.314
14485	C8H14	2-octyne	2809-67-8	54.1583	607.45	0.3800	285.52	607.45	1,2	410.88	35.275
14486	C8H14	3-octyne	15232-76-5	53.5242	600.66	0.3800	169.15	600.66	1,2	406.29	34.862
14487	C8H14	4-octyne	1942-45-6	54.2250	594.10	0.3800	172.15	594.10	1,2	404.75	35.115
14488	C8H14	3-ethyl-3-methyl-1-pentyne	919-12-0	39.4251	594.10	0.3800	274.65	594.10	1,2	374.65	27.003
14493	C8H14	1,7-octadiene	3710-30-3	50.3521	586.00	0.3800	288.65	586.00	1,2	388.65	33.297
14494	C8H14	2,6-octadiene	4974-27-0	52.5565	586.00	0.3800	197.15	586.00	1,2	397.65	34.144
14495	C8H14	3-methyl-1,5-heptadiene	4894-62-6	49.2887	586.00	0.3800	216.15	586.00	1,2	384.15	32.874
14496	C8H14	2,5-dimethyl-1,5-hexadiene	627-58-7	50.0661	586.00	0.3800	197.55	586.00	1,2	387.45	33.184
14497	C8H14	2,5-dimethyl-2,4-hexadiene	764-13-6	55.1391	586.00	0.3800	287.15	586.00	1,2	407.65	35.087
14547	C8H14O	2,2-dimethylcyclohexanone	1193-47-1	58.5095	670.00	0.3800	252.65	670.00	1,2	445.15	38.640
14548	C8H14O	cis-2,3-dimethylcyclohexanone	1551-88-8	60.1126	670.00	0.3800	280.00	670.00	1,2	451.65	39.259
14549	C8H14O	trans-2,3-dimethylcyclohexanone	1551-89-9	58.0672	670.00	0.3800	280.00	670.00	2	443.32	38.466
14550	C8H14O	cis-2,4-dimethylcyclohexanone	116783-29-0	59.7383	670.00	0.3800	280.00	670.00	1,2	450.15	39.116
14551	C8H14O	trans-2,4-dimethylcyclohexanone, (2S)	93921-42-7	60.2380	670.00	0.3800	280.00	670.00	1,2	452.15	39.306
14552	C8H14O	trans-2,5-dimethylcyclohexanone, (±)	66395-23-1	58.5095	670.00	0.3800	280.00	670.00	1,2	445.15	38.640
14553	C8H14O	2,6-dimethylcyclohexanone	2816-57-1	59.2433	670.00	0.3800	280.00	670.00	1,2	448.15	38.925
14554	C8H14O	3,3-dimethylcyclohexanone	2979-19-3	60.4896	670.00	0.3800	280.00	670.00	1,2	453.15	39.402
14555	C8H14O	3,4-dimethylcyclohexanone	5465-09-8	62.2859	670.00	0.3800	280.00	670.00	1,2	460.15	40.069
14556	C8H14O	3,5-dimethylcyclohexanone	2320-30-1	61.1241	670.00	0.3800	280.00	670.00	1,2	455.65	39.640
14557	C8H14O	4,4-dimethylcyclohexanone	4255-62-3	58.0672	670.00	0.3800	312.15	670.00	2	443.32	38.466
14558	C8H14O	3,4-dimethyl-3-hexen-2-one	1635-02-5	57.7109	635.00	0.3800	332.15	635.00	1,2	432.15	37.405
14559	C8H14O	3,4-dimethyl-4-hexen-2-one	53252-21-4	56.4547	635.00	0.3800	327.15	635.00	1,2	427.15	36.931
14560	C8H14O	3-methyl-5-hepten-2-one	38552-72-6	60.6394	635.00	0.3800	343.32	635.00	2	443.32	38.466
14561	C8H14O	5-methyl-5-hepten-2-one	10339-67-0	60.6394	635.00	0.3800	343.32	635.00	2	443.32	38.466
14562	C8H14O	6-methyl-3-hepten-2-one	2009-74-7	63.0841	635.00	0.3800	352.15	635.00	1,2	452.15	39.306
14563	C8H14O	6-methyl-4-hepten-2-one	39273-81-9	58.7395	635.00	0.3800	336.15	635.00	1,2	436.15	37.785
14564	C8H14O	6-methyl-5-hepten-2-one	110-93-0	58.7395	635.00	0.3800	446.65	635.00	2	436.15	37.785
14565	C8H14O	2-methyl-5-hepten-3-one	77958-21-5	58.3513	635.00	0.3800	334.65	635.00	1,2	434.65	37.642
14566	C8H14O	5-methyl-1-hepten-3-one	44829-76-7	60.6394	635.00	0.3800	343.32	635.00	2	443.32	38.466
14567	C8H14O	5-methyl-4-hepten-3-one	1447-26-3	59.6575	635.00	0.3800	339.65	635.00	1,2	439.65	38.117
14568	C8H14O	5-methyl-5-hepten-3-one	1190-34-7	60.6394	635.00	0.3800	343.32	635.00	2	443.32	38.466
14569	C8H14O	5-methyl-2-hepten-4-one	81925-81-7	60.8636	635.00	0.3800	344.15	635.00	1,2	444.15	38.545
14570	C8H14O	6-methyl-2-hepten-4-one	49852-35-9	60.5930	635.00	0.3800	343.15	635.00	1,2	443.15	38.450
14571	C8H14O	4-ethylcyclohexanone	5441-51-0	63.8763	670.00	0.3800	280.00	670.00	1,2	466.15	40.641
14588	C8H14O	2-ethyl-2-hexenal	645-62-5	61.0678	630.00	0.3800	343.32	630.00	2	443.32	38.466
14589	C8H14O	methylheptenone	409-02-9	61.5467	635.00	0.3800	206.25	635.00	1,2	446.65	38.783
14591	C8H14O	trans-2-octenal	2548-87-0	61.0678	630.00	0.3800	343.32	630.00	2	443.32	38.466
14592	C8H14O	3-octen-2-one	1669-44-9	60.6394	635.00	0.3800	343.32	635.00	2	443.32	38.466
14597	C8H14O	2-ethyl hexenal	26266-68-2	61.0678	630.00	0.3800	343.32	630.00	2	443.32	38.466
14599	C8H14O2	butyl methacrylate	97-88-1	63.8910	616.00	0.3800	334.00	616.00	1,2	434.00	40.200
14613	C8H14O2	ethyl 2,3-dimethyl-2-butenoate	13979-28-7	58.1429	616.00	0.3800	328.15	616.00	1,2	428.15	37.026
14614	C8H14O2	ethyl 2-hexenoate	1552-67-6	63.6476	616.00	0.3800	347.65	616.00	1,2	447.65	38.878
14615	C8H14O2	ethyl 3-hexenoate	2396-83-0	61.3110	616.00	0.3800	339.65	616.00	1,2	439.65	38.117

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
14616	C8H14O2	ethyl 3-methyl-3-pentenoate	86623-80-5	65.7667	616.00	0.3800	354.57	616.00	2	454.57	39.537
14617	C8H14O2	ethyl 4-methyl-2-pentenoate	2351-97-5	63.4981	616.00	0.3800	347.15	616.00	1,2	447.15	38.830
14618	C8H14O2	ethyl 4-methyl-3-pentenoate	6849-18-9	65.7667	616.00	0.3800	354.57	616.00	2	454.57	39.537
14620	C8H14O2	3-hydroxy-2,2-dimethylhexanoic acid, beta-lactone	90112-82-6	70.2383	736.00	0.3800	416.65	736.00	2	510.00	44.846
14621	C8H14O2	2-methylbutyl acrylate	44914-03-6	59.4943	616.00	0.3800	333.15	616.00	1,2	433.15	37.500
14624	C8H14O2	6-methyl-2-heptenoic acid	90112-75-7	70.9552	736.00	0.3800	274.65	736.00	1,2	512.65	45.101
14627	C8H14O2	tert-butyl methacrylate	585-07-9	52.3773	616.00	0.3800	305.15	616.00	1,2	405.15	34.851
14633	C8H14O2	2-ethyl-2-hexenoic acid	5309-52-4	70.2383	736.00	0.3800	271.25	736.00	2	510.00	44.846
14634	C8H14O2	ethyl 4-methyl-4-pentenoate	4911-54-0	65.7667	616.00	0.3800	354.57	616.00	2	454.57	39.537
14635	C8H14O2	ethyl 2-methyl-4-pentenoate	53399-81-8	57.8771	616.00	0.3800	327.15	616.00	1,2	427.15	36.931
14636	C8H14O2	trans-2-hexenyl acetate	2497-18-9	61.0127	616.00	0.3800	338.60	616.00	1,2	438.60	38.017
14637	C8H14O2	isoamyl acrylate	4245-35-6	58.9491	616.00	0.3800	331.15	616.00	1,2	431.15	37.310
14642	C8H14O2	2-octenoic acid	1871-67-6	70.2383	736.00	0.3800	278.65	736.00	2	510.00	44.846
14653	C8H14O2	isovaleric acid, allyl ester	2835-39-4	70.2383	736.00	0.3800	410.00	736.00	2	510.00	44.846
14654.1	C8H14O2	2-oxolan-2-yloxolane	106538-38-9	68.8680	738.00	0.3622	235.00	738.00	1,2	497.00	45.920
14659	C8H14O3	butyric anhydride	106-31-0	80.9000	639.00	0.4160	199.85	639.00	1,2	468.15	46.733
14688	C8H14O4	diethyl succinate	123-25-1	87.6393	660.00	0.4060	252.35	660.00	1,2	489.65	50.570
14736	C8H15Br	cis-1-bromo-1-octene	42843-49-2	65.3964	643.03	0.3800	234.14	643.03	1,2	453.15	41.138
14737	C8H15Br	trans-1-bromo-1-octene	51751-87-2	65.3964	643.03	0.3800	234.14	643.03	1,2	453.15	41.138
14748	C8H15Br3	1,1,1-tribromooctane	62127-65-5	88.2981	767.84	0.3800	361.24	767.84	1,2	554.15	54.309
14749	C8H15Cl	cis-1-chloro-1-octene	64531-23-3	62.9286	640.48	0.3800	204.26	640.48	1,2	450.15	39.682
14750	C8H15Cl	trans-1-chloro-1-octene	59871-24-8	62.9286	640.48	0.3800	204.26	640.48	1,2	450.15	39.682
14751	C8H15Cl	1-chloro-4-ethyl-3-hexene	82507-04-8	61.0813	640.48	0.3800	346.15	640.48	1,2	446.15	38.822
14752	C8H15Cl	6-chloro-2-methyl-2-heptene	80325-37-7	58.3944	640.48	0.3800	341.98	640.48	2	441.98	37.415
14753	C8H15Cl	2-chloro-1-octene	31283-43-9	58.5015	640.48	0.3800	342.15	640.48	1,2	442.15	37.472
14754	C8H15Cl	2-chloro-2-octene	90202-21-4	57.5737	640.48	0.3800	340.65	640.48	1,2	440.65	36.983
14755	C8H15Cl	4-chloro-2-octene	116668-50-9	49.5785	640.48	0.3800	326.15	640.48	1,2	426.15	32.706
14756	C8H15Cl	cis-4-chloro-4-octene	7321-48-4	56.2500	640.48	0.3800	338.45	640.48	1,2	438.45	36.283
14765	C8H15Cl3	1,1,1-trichlorooctane	4905-79-7	71.5610	693.91	0.3800	271.60	693.91	1,2	497.15	44.328
14766	C8H15F	cis-1-fluoro-1-octene	32814-16-7	53.5278	548.71	0.3800	206.49	548.71	2	385.87	33.736
14767	C8H15F	trans-1-fluoro-1-octene	32814-17-8	53.5278	548.71	0.3800	206.49	548.71	2	385.87	33.736
14770	C8H15F3	1,1,1-trifluorooctane	53392-86-2	56.4117	554.50	0.3800	278.29	554.50	1,2	398.15	34.869
14772	C8H15I	cis-1-iodo-1-octene	52356-93-1	67.7003	692.75	0.3800	232.40	692.75	1,2	485.15	42.827
14773	C8H15I	trans-1-iodo-1-octene	42599-17-7	67.7003	692.75	0.3800	232.40	692.75	1,2	485.15	42.827
14774	C8H15I3	1,1,1-triiodooctane	---	94.5449	928.58	0.3800	356.02	928.58	2	658.63	59.123
14775	C8H15N	octanenitrile	124-12-9	71.7342	661.13	0.3800	227.55	661.13	1,2	478.35	44.010
14861	C8H16	propylcyclopentane	2040-96-2	55.4877	603.00	0.4260	155.81	603.00	1,2	404.11	34.593
14862	C8H16	isopropylcyclopentane	3875-51-2	51.6518	596.40	0.3800	161.78	596.40	1,2	399.57	33.895
14863	C8H16	1-methyl-1-ethylcyclopentane	16747-50-5	50.4814	582.00	0.3690	129.35	582.00	1,2	394.67	33.225
14864	C8H16	1-methyl-cis-2-ethylcyclopentane	930-89-2	51.8932	597.34	0.3800	167.20	597.34	1,2	401.20	33.988
14865	C8H16	1-methyl-trans-2-ethylcyclopentane	930-90-5	50.9641	587.14	0.3800	186.08	587.14	1,2	394.35	33.379
14866	C8H16	1-methyl-cis-3-ethylcyclopentane	2613-66-3	50.9505	586.99	0.3800	186.08	586.99	1,2	394.25	33.370
14867	C8H16	1-methyl-trans-3-ethylcyclopentane	2613-65-2	50.9505	586.99	0.3800	186.08	586.99	1,2	394.25	33.370
14868	C8H16	1,1,2-trimethylcyclopentane	4259-00-1	48.9787	584.65	0.3800	251.51	584.65	1,2	386.88	32.444
14869	C8H16	1,1,3-trimethylcyclopentane	4516-69-2	47.8053	571.30	0.3800	130.71	571.30	1,2	378.04	31.666
14870	C8H16	1,cis-2,cis-3-trimethylcyclopentane	2613-69-6	50.5238	591.57	0.3800	156.72	591.57	1,2	396.15	33.167
14871	C8H16	1,cis-2,trans-3-trimethylcyclopentane	15890-40-1	49.7878	583.36	0.3800	161.15	583.36	1,2	390.65	32.684
14872	C8H16	1,trans-2,cis-3-trimethylcyclopentane	19374-46-0	48.8116	572.46	0.3800	160.45	572.46	1,2	383.35	32.043
14873	C8H16	1,cis-2,cis-4-trimethylcyclopentane	2613-72-1	49.7209	582.61	0.3800	181.84	582.61	1,2	390.15	32.640
14874	C8H16	1,cis-2,trans-4-trimethylcyclopentane	4850-28-6	49.6849	582.21	0.3800	140.60	582.21	1,2	389.88	32.616
14875	C8H16	1,trans-2,cis-4-trimethylcyclopentane	16883-48-0	48.6900	571.10	0.3800	142.37	571.10	1,2	382.44	31.963
14876	C8H16	1-methyl-3-ethylcyclopentane	3726-47-4	50.6620	585.27	0.3800	142.85	585.27	1,2	394.20	33.109
14877	C8H16	ethylcyclohexane	1678-91-7	54.1241	609.15	0.4210	161.84	609.15	1,2	404.95	34.163
14878	C8H16	1,1-dimethylcyclohexane	590-66-9	50.4240	591.15	0.4040	239.66	591.15	1,2	392.70	32.443
14879	C8H16	1,2-dimethylcyclohexane, (cis+trans)	583-57-3	49.8735	597.51	0.3800	299.05	597.51	1,2	399.05	32.807
14880	C8H16	cis-1,2-dimethylcyclohexane	2207-01-4	52.8480	606.15	0.4160	223.16	606.15	1,2	402.94	33.541
14881	C8H16	trans-1,2-dimethylcyclohexane	6876-23-9	51.1940	596.15	0.4050	184.99	596.15	1,2	396.58	32.865
14882	C8H16	1,3-dimethylcyclohexane, cis and trans	591-21-9	46.8035	597.51	0.3800	293.10	597.51	1,2	393.10	31.136
14883	C8H16	cis-1,3-dimethylcyclohexane	638-04-0	51.5297	591.15	0.4150	197.58	591.15	1,2	393.24	32.722
14884	C8H16	trans-1,3-dimethylcyclohexane	2207-03-6	52.9700	598.00	0.4260	183.05	598.00	1,2	397.61	33.247
14885	C8H16	1,4-dimethylcyclohexane, (cis+trans)	589-90-2	48.2149	597.51	0.3800	295.90	597.51	1,2	395.90	31.907
14886	C8H16	cis-1,4-dimethylcyclohexane	624-29-3	52.6000	598.15	0.4230	185.72	598.15	1,2	397.47	33.140
14887	C8H16	trans-1,4-dimethylcyclohexane	2207-04-7	50.4707	590.15	0.4030	236.21	590.15	1,2	392.51	32.477
14888	C8H16	cyclooctane	292-64-8	53.8579	647.20	0.3800	287.60	647.20	1,2	424.30	35.920
14890	C8H16	1-octene	111-66-0	55.4430	566.60	0.4010	171.45	566.60	1,2	394.44	34.387
14891	C8H16	oct-2-ene	111-67-1	54.3461	564.74	0.3800	186.15	564.74	1,2	398.05	34.182
14892	C8H16	cis-2-octene	7642-04-8	53.9115	576.06	0.3800	172.95	576.06	1,2	398.79	34.450
14893	C8H16	trans-2-octene	13389-42-9	52.1144	577.00	0.3730	185.45	577.00	1,2	398.15	33.668
14894	C8H16	cis-3-octene	14850-22-7	53.5233	572.11	0.3800	174.34	572.11	1,2	396.05	34.202
14895	C8H16	trans-3-octene	14919-01-8	52.4700	574.00	0.3780	163.15	574.00	1,2	396.45	33.673
14896	C8H16	oct-4-ene	592-99-4	54.3324	564.74	0.3800	183.25	564.74	1,2	398.00	34.177
14897	C8H16	cis-4-octene	7642-15-1	53.4723	571.59	0.3800	154.45	571.59	1,2	395.69	34.169
14898	C8H16	trans-4-octene	14850-23-8	53.3640	573.00	0.3920	179.37	573.00	1,2	395.41	33.715
14899	C8H16	2-methyl-1-heptene	15870-10-7	52.6039	568.53	0.3800	183.15	568.53	1,2	392.45	33.696
14900	C8H16	3-methyl-1-heptene	4810-09-7	51.3157	557.26	0.3800	162.66	557.26	1,2	384.15	32.909
14901	C8H16	4-methyl-1-heptene	13151-05-8	51.5678	559.87	0.3800	162.66	559.87	1,2	385.95	33.070
14902	C8H16	5-methyl-1-heptene	13151-04-7	51.6378	560.59	0.3800	162.66	560.59	1,2	386.45	33.115
14903	C8H16	6-methyl-1-heptene	5026-76-6	51.6238	560.45	0.3800	162.66	560.45	1,2	386.35	33.106
14904	C8H16	2-methyl-2-heptene	627-97-4	52.7890	575.22	0.3800	160.38	575.22	1,2	395.75	33.910
14905	C8H16	3-methyl-cis-2-heptene	22768-19-0	52.7051	574.35	0.3800	160.38	574.35	1,2	395.15	33.856

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
14906	C8H16	3-methyl-trans-2-heptene	22768-20-3	52.7051	574.35	0.3800	160.38	574.35	1,2	395.15	33.856
14907	C8H16	4-methyl-cis-2-heptene	66225-16-9	51.4642	563.49	0.3800	159.34	563.49	1,2	387.15	33.096
14908	C8H16	4-methyl-trans-2-heptene	66225-17-0	51.4642	563.49	0.3800	159.34	563.49	1,2	387.15	33.096
14909	C8H16	5-methyl-cis-2-heptene	24608-84-2	52.0219	569.31	0.3800	159.34	569.31	1,2	391.15	33.455
14910	C8H16	5-methyl-trans-2-heptene	24608-85-3	52.0219	569.31	0.3800	159.34	569.31	1,2	391.15	33.455
14911	C8H16	6-methyl-2-heptene	73548-72-8	52.8170	564.74	0.3800	290.15	564.74	1,2	390.15	33.809
14912	C8H16	6-methyl-cis-2-heptene	66225-18-1	51.8824	567.85	0.3800	159.34	567.85	1,2	390.15	33.365
14913	C8H16	6-methyl-trans-2-heptene	51065-65-7	51.8824	567.85	0.3800	159.34	567.85	1,2	390.15	33.365
14914	C8H16	6-methyl-3-heptene	3404-57-7	51.5559	564.74	0.3800	288.15	564.74	1,2	388.15	33.145
14915	C8H16	2-methyl-3-heptene	17618-76-7	49.7422	564.74	0.3800	165.65	564.74	1,2	385.15	32.185
14916	C8H16	2-methyl-cis-3-heptene	20488-34-0	51.1854	560.58	0.3800	159.34	560.58	1,2	385.15	32.917
14917	C8H16	2-methyl-trans-3-heptene	692-96-6	51.1854	560.58	0.3800	159.34	560.58	1,2	385.15	32.917
14918	C8H16	3-methyl-3-heptene	7300-03-0	55.4735	564.74	0.3800	294.15	564.74	1,2	394.15	35.199
14919	C8H16	3-methyl-cis-3-heptene	22768-17-8	52.5653	572.89	0.3800	160.38	572.89	1,2	394.15	33.766
14920	C8H16	3-methyl-trans-3-heptene	22768-18-9	52.5653	572.89	0.3800	160.38	572.89	1,2	394.15	33.766
14921	C8H16	4-methyl-3-heptene	4485-16-9	55.4735	564.74	0.3800	294.15	564.74	1,2	394.15	35.199
14922	C8H16	4-methyl-cis-3-heptene	14255-24-4	52.7051	574.35	0.3800	160.38	574.35	1,2	395.15	33.856
14923	C8H16	4-methyl-trans-3-heptene	13714-85-7	52.7051	574.35	0.3800	160.38	574.35	1,2	395.15	33.856
14924	C8H16	5-methyl-3-heptene	13172-91-3	49.7422	564.74	0.3800	285.15	564.74	1,2	385.15	32.185
14925	C8H16	5-methyl-cis-3-heptene	50422-80-5	51.1854	560.58	0.3800	159.34	560.58	1,2	385.15	32.917
14926	C8H16	5-methyl-trans-3-heptene	53510-18-2	51.1854	560.58	0.3800	159.34	560.58	1,2	385.15	32.917
14927	C8H16	6-methyl-cis-3-heptene	66225-19-2	51.6036	564.94	0.3800	159.34	564.94	1,2	388.15	33.186
14928	C8H16	6-methyl-trans-3-heptene	66225-20-5	51.6036	564.94	0.3800	159.34	564.94	1,2	388.15	33.186
14929	C8H16	2-ethyl-1-hexene	1632-16-2	50.6365	574.00	0.3420	173.00	574.00	1,2	393.15	34.113
14930	C8H16	3-ethyl-1-hexene	3404-58-8	51.2176	556.24	0.3800	162.66	556.24	1,2	383.45	32.846
14931	C8H16	4-ethyl-1-hexene	16746-85-3	51.1756	555.81	0.3800	162.66	555.81	1,2	383.15	32.819
14932	C8H16	2,3-dimethyl-1-hexene	16746-86-4	50.5845	560.04	0.3800	148.70	560.04	1,2	383.65	32.610
14933	C8H16	2,4-dimethyl-1-hexene	16746-87-5	50.6813	561.06	0.3800	148.70	561.06	1,2	384.35	32.673
14934	C8H16	2,5-dimethyl-1-hexene	6975-92-4	50.7366	561.65	0.3800	148.70	561.65	1,2	384.75	32.708
14935	C8H16	3,3-dimethyl-1-hexene	3404-77-1	48.7728	555.62	0.3800	180.08	555.62	1,2	377.15	31.678
14936	C8H16	3,4-dimethyl-1-hexene	16745-94-1	50.6715	563.01	0.3800	147.66	563.01	1,2	385.15	32.704
14937	C8H16	3,5-dimethyl-1-hexene	7423-69-0	49.5681	551.31	0.3800	147.66	551.31	1,2	377.15	31.992
14938	C8H16	4,4-dimethyl-1-hexene	1647-08-1	49.2072	560.33	0.3800	180.08	560.33	1,2	380.35	31.960
14939	C8H16	4,5-dimethyl-1-hexene	16106-59-5	50.2576	558.62	0.3800	147.66	558.62	1,2	382.15	32.437
14940	C8H16	5,5-dimethyl-1-hexene	7116-86-1	48.5692	553.41	0.3800	180.08	553.41	1,2	375.65	31.546
14941	C8H16	3-ethyl-cis-2-hexene	36880-72-5	52.5653	572.89	0.3800	160.38	572.89	1,2	394.15	33.766
14942	C8H16	3-ethyl-trans-2-hexene	66225-15-8	52.5653	572.89	0.3800	160.38	572.89	1,2	394.15	33.766
14943	C8H16	4-ethyl-cis-2-hexene	54616-49-8	51.3248	562.03	0.3800	159.34	562.03	1,2	386.15	33.007
14944	C8H16	4-ethyl-trans-2-hexene	19781-63-6	51.3248	562.03	0.3800	159.34	562.03	1,2	386.15	33.007
14945	C8H16	2,3-dimethyl-2-hexene	7145-20-2	51.9944	577.66	0.3800	158.05	577.66	1,2	394.92	33.575
14946	C8H16	2,4-dimethyl-2-hexene	14255-23-3	50.3334	562.10	0.3800	145.38	562.10	1,2	383.75	32.540
14947	C8H16	2,5-dimethyl-2-hexene	3404-78-2	50.5535	564.45	0.3800	145.38	564.45	1,2	385.35	32.682
14948	C8H16	3,4-dimethyl-cis-2-hexene	19550-81-3	51.0766	570.01	0.3800	145.38	570.01	1,2	389.15	33.020
14949	C8H16	3,4-dimethyl-trans-2-hexene	19550-82-4	51.0766	570.01	0.3800	145.38	570.01	1,2	389.15	33.020
14950	C8H16	3,5-dimethyl-cis-2-hexene	66225-31-8	50.5260	564.15	0.3800	145.38	564.15	1,2	385.15	32.664
14951	C8H16	3,5-dimethyl-trans-2-hexene	66225-12-5	50.5260	564.15	0.3800	145.38	564.15	1,2	385.15	32.664
14952	C8H16	4,4-dimethyl-cis-2-hexene	19550-83-5	48.7888	560.54	0.3800	176.76	560.54	1,2	379.15	31.778
14953	C8H16	4,4-dimethyl-trans-2-hexene	---	48.7888	560.54	0.3800	176.76	560.54	1,2	379.15	31.778
14954	C8H16	4,5-dimethyl-2-hexene	73548-71-7	48.5823	564.74	0.3800	283.15	564.74	1,2	383.15	31.567
14955	C8H16	4,5-dimethyl-cis-2-hexene	65036-71-7	50.1319	562.01	0.3800	144.34	562.01	1,2	383.15	32.446
14956	C8H16	4,5-dimethyl-trans-2-hexene	66225-14-7	50.1319	562.01	0.3800	144.34	562.01	1,2	383.15	32.446
14957	C8H16	5,5-dimethyl-cis-2-hexene	39761-61-0	48.9104	561.87	0.3800	176.76	561.87	1,2	380.05	31.857
14958	C8H16	5,5-dimethyl-trans-2-hexene	39782-43-9	48.5322	557.73	0.3800	176.76	557.73	1,2	377.25	31.610
14959	C8H16	3-ethyl-3-hexene	16789-51-8	51.8663	565.63	0.3800	160.38	565.63	1,2	389.15	33.317
14960	C8H16	2,2-dimethyl-cis-3-hexene	690-92-6	48.7118	559.69	0.3800	135.80	559.69	1,2	378.58	31.727
14961	C8H16	2,2-dimethyl-trans-3-hexene	690-93-7	48.0934	552.92	0.3800	176.76	552.92	1,2	374.00	31.325
14962	C8H16	2,3-dimethyl-cis-3-hexene	59643-75-3	50.8013	567.08	0.3800	145.38	567.08	1,2	387.15	32.842
14963	C8H16	2,3-dimethyl-trans-3-hexene	66225-30-7	50.8013	567.08	0.3800	145.38	567.08	1,2	387.15	32.842
14964	C8H16	2,4-dimethyl-cis-3-hexene	37549-89-6	50.1132	559.76	0.3800	145.38	559.76	1,2	382.15	32.397
14965	C8H16	2,4-dimethyl-trans-3-hexene	61847-78-7	49.9207	557.71	0.3800	145.38	557.71	1,2	380.75	32.273
14966	C8H16	2,5-dimethyl-cis-3-hexene	10557-44-5	49.0343	550.28	0.3800	144.34	550.28	1,2	375.15	31.736
14967	C8H16	2,5-dimethyl-trans-3-hexene	692-70-6	49.0343	550.28	0.3800	144.34	550.28	1,2	375.15	31.736
14968	C8H16	3,4-dimethyl-cis-3-hexene	19550-87-9	52.0262	578.00	0.3800	146.42	578.00	1,2	395.15	33.596
14969	C8H16	3,4-dimethyl-trans-3-hexene	19550-88-0	52.0262	578.00	0.3800	146.42	578.00	1,2	395.15	33.596
14970	C8H16	2-propyl-1-pentene	15918-08-8	52.3791	566.22	0.3800	163.70	566.22	1,2	390.85	33.552
14971	C8H16	2-isopropyl-1-pentene	16746-02-4	50.9303	563.69	0.3800	148.70	563.69	1,2	386.15	32.833
14972	C8H16	3-methyl-2-ethyl-1-pentene	3404-67-9	50.7228	561.50	0.3800	148.70	561.50	1,2	384.65	32.700
14973	C8H16	4-methyl-2-ethyl-1-pentene	3404-80-6	50.5568	559.75	0.3800	148.70	559.75	1,2	383.45	32.593
14974	C8H16	2-methyl-3-ethyl-1-pentene	19780-66-6	50.5153	559.31	0.3800	148.70	559.31	1,2	383.15	32.566
14975	C8H16	3-methyl-3-ethyl-1-pentene	6196-60-7	49.8591	567.40	0.3800	180.08	567.40	1,2	385.15	32.383
14976	C8H16	4-methyl-3-ethyl-1-pentene	61847-80-1	50.0507	556.43	0.3800	147.66	556.43	1,2	380.65	32.303
14977	C8H16	2,3,3-trimethyl-1-pentene	560-23-6	48.7281	565.71	0.3800	204.15	565.71	1,2	381.46	31.816
14978	C8H16	2,3,4-trimethyl-1-pentene	565-76-4	49.6111	557.76	0.3800	130.96	557.76	1,2	381.15	32.047
14979	C8H16	2,4,4-trimethyl-1-pentene	107-39-1	48.9377	553.00	0.4040	179.70	553.00	1,2	374.59	30.985
14980	C8H16	3,3,4-trimethyl-1-pentene	560-22-5	48.1710	561.62	0.3800	165.08	561.62	1,2	378.15	31.489
14981	C8H16	3,4,4-trimethyl-1-pentene	564-03-4	48.0373	560.14	0.3800	165.08	560.14	1,2	377.15	31.401
14982	C8H16	2-methyl-3-ethyl-2-pentene	19780-67-7	51.3359	570.68	0.3800	146.42	570.68	1,2	390.15	33.150
14983	C8H16	4-methyl-3-ethyl-cis-2-pentene	42067-48-1	51.0766	570.01	0.3800	145.38	570.01	1,2	389.15	33.020
14984	C8H16	4-methyl-3-ethyl-trans-2-pentene	42067-49-2	50.8426	567.52	0.3800	145.38	567.52	1,2	387.45	32.869
14985	C8H16	2,3,4-trimethyl-2-pentene	565-77-5	50.4571	574.12	0.3800	159.85	574.12	1,2	389.41	32.792

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
14986	C8H16	2,4,4-trimethyl-2-pentene	107-40-4	52.7700	558.00	0.4440	166.84	558.00	1,2	378.06	31.927
14987	C8H16	3,4,4-trimethyl-cis-2-pentene	39761-64-3	48.9679	573.25	0.3800	162.80	573.25	1,2	385.15	32.063
14988	C8H16	3,4,4-trimethyl-trans-2-pentene	39761-57-4	48.9679	573.25	0.3800	162.80	573.25	1,2	385.15	32.063
14989	C8H16	3,4,4-trimethyl-2-pentene	598-96-9	49.7422	564.74	0.3800	285.15	564.74	1,2	385.15	32.185
14990	C8H16	2,4,4-trimethylpentene	25167-70-8	44.8062	564.74	0.3800	173.30	564.74	1,2	376.15	29.535
14991	C8H16	3-methyl-2-isopropyl-1-butene	111823-35-9	48.9315	554.89	0.3800	133.70	554.89	1,2	377.15	31.747
14992	C8H16	3,3-dimethyl-2-ethyl-1-butene	18231-53-3	48.9548	568.22	0.3800	166.12	568.22	1,2	383.15	31.964
14994	C8H16Br2	1,1-dibromooctane	62168-26-7	79.5039	716.02	0.3800	284.02	716.02	1,2	515.15	49.048
14995	C8H16Br2	1,2-dibromooctane	6269-92-7	73.2011	716.02	0.3800	414.15	716.02	1,2	514.15	45.245
14996	C8H16Br2	1,4-dibromooctane	70690-24-3	76.3215	716.02	0.3800	424.48	716.02	2	524.48	46.241
14997	C8H16Br2	1,5-dibromooctane	17912-17-3	76.3215	716.02	0.3800	424.48	716.02	2	524.48	46.241
14998	C8H16Br2	1,8-dibromooctane	4549-32-0	82.7977	716.02	0.3800	288.65	716.02	1,2	544.15	48.142
14999	C8H16Br2	4,5-dibromooctane	61539-75-1	76.3215	716.02	0.3800	424.48	716.02	2	524.48	46.241
15005	C8H16Cl2	1,1-dichlorooctane	20395-24-8	69.4368	672.06	0.3800	224.26	672.06	1,2	481.15	43.042
15006	C8H16Cl2	2,5-dichloro-2,5-dimethylhexane	6223-78-5	70.9618	672.06	0.3800	340.65	672.06	2	491.48	43.066
15007	C8H16Cl2	1,8-dichlorooctane	2162-99-4	78.4505	672.06	0.3800	414.15	672.06	1,2	514.15	45.245
15008	C8H16Cl2	2,3-dichlorooctane	21948-47-0	67.3031	672.06	0.3800	218.05	672.06	1,2	479.15	41.884
15016	C8H16F2	1,1-difluorooctane	61350-03-6	58.6179	580.30	0.3800	228.72	580.30	1,2	415.15	36.361
15017	C8H16I2	1,1-diiodooctane	66225-22-7	81.7773	799.06	0.3800	280.54	799.06	2	568.28	51.012
15018	C8H16I2	1,8-diiodooctane	24772-63-2	80.9276	799.06	0.3800	291.65	799.06	2	568.28	50.482
15062	C8H16O	2-ethylhexanal	123-05-7	65.9669	607.00	0.3860	333.80	607.00	1,2	433.80	40.653
15063	C8H16O	1-octanal	124-13-0	67.7350	621.00	0.4060	246.00	621.00	1,2	447.15	39.947
15064	C8H16O	5-methylheptanal	75579-88-3	60.2228	614.00	0.3800	335.14	614.00	2	435.14	37.689
15065	C8H16O	2-propylpentanal	18295-59-5	59.6697	614.00	0.3800	333.15	614.00	1,2	433.15	37.500
15066	C8H16O	2-octanone	111-13-7	65.3630	624.00	0.3870	252.85	624.00	1,2	445.75	51.580
15067	C8H16O	2,5-dimethyl-3-hexanone	1888-57-9	51.7045	624.00	0.3800	320.65	624.00	1,2	420.65	33.767
15068	C8H16O	2,2-dimethyl-3-hexanone	5405-79-8	50.8983	624.00	0.3800	319.15	624.00	1,2	419.15	33.333
15069	C8H16O	3,3-dimethyl-2-hexanone	26118-38-7	51.4338	624.00	0.3800	320.15	624.00	1,2	420.15	33.621
15070	C8H16O	3,4-dimethyl-2-hexanone	19550-10-8	57.8798	624.00	0.3800	331.15	624.00	1,2	431.15	37.046
15071	C8H16O	4,4-dimethyl-3-hexanone	19550-14-2	51.9771	624.00	0.3800	321.15	624.00	1,2	421.15	33.913
15072	C8H16O	3-ethyl-4-methyl-2-pentanone	71172-57-1	55.7117	624.00	0.3800	327.65	624.00	1,2	427.65	35.903
15073	C8H16O	2-methyl-3-heptanone	13019-20-0	57.8798	624.00	0.3800	331.15	624.00	1,2	431.15	37.046
15074	C8H16O	2-methyl-4-heptanone	626-33-5	55.4113	624.00	0.3800	327.15	624.00	1,2	427.15	35.744
15075	C8H16O	3-methyl-2-heptanone	2371-19-9	59.8975	624.00	0.3800	337.15	624.00	1,2	437.15	37.880
15076	C8H16O	3-methyl-4-heptanone	15726-15-5	54.8174	624.00	0.3800	326.15	624.00	1,2	426.15	35.429
15077	C8H16O	5-methyl-3-heptanone	541-85-5	60.4993	624.00	0.3800	335.14	624.00	2	435.14	38.416
15078	C8H16O	6-methyl-2-heptanone	928-68-7	60.7205	624.00	0.3800	340.15	624.00	1,2	440.15	38.165
15079	C8H16O	6-methyl-3-heptanone	624-42-0	59.8975	624.00	0.3800	337.15	624.00	1,2	437.15	37.880
15080	C8H16O	3-octanone	106-68-3	60.8590	624.00	0.3800	340.65	624.00	1,2	440.65	38.212
15081	C8H16O	4-octanone	589-63-9	61.1894	624.00	0.3800	336.15	624.00	1,2	436.15	38.775
15082	C8H16O	2,2,4-trimethyl-3-pentanone	5857-36-3	45.5285	624.00	0.3800	308.25	624.00	1,2	408.25	30.410
15095	C8H16O	2,2-dimethylcyclohexanol	1193-46-0	61.6451	645.00	0.3800	281.15	645.00	1,2	450.15	39.116
15096	C8H16O	2,4-dimethylcyclohexanol	69542-91-2	61.7805	645.00	0.3800	350.65	645.00	1,2	450.65	39.163
15097	C8H16O	2,6-dimethylcyclohexanol	5337-72-4	61.3756	645.00	0.3800	305.65	645.00	1,2	449.15	39.021
15098	C8H16O	3,3-dimethylcyclohexanol	767-12-4	63.8557	645.00	0.3800	284.65	645.00	1,2	458.15	39.878
15099	C8H16O	3,4-dimethylcyclohexanol	5715-23-1	64.9990	645.00	0.3800	362.15	645.00	1,2	462.15	40.260
15100	C8H16O	3,5-dimethylcyclohexanol	5441-52-1	64.4240	645.00	0.3800	284.75	645.00	1,2	460.15	40.069
15101	C8H16O	4,4-dimethylcyclohexanol	932-01-4	64.1390	645.00	0.3800	289.15	645.00	1,2	459.15	39.973
15102	C8H16O	cis-1,2-dimethylcyclohexanol	19879-11-9	57.7446	645.00	0.3800	296.35	645.00	2	435.14	37.689
15103	C8H16O	trans-1,2-dimethyl cyclohexanol	19879-12-0	57.7446	645.00	0.3800	286.35	645.00	2	435.14	37.689
15104	C8H16O	cis-1,3-dimethylcyclohexanol	15466-94-1	57.7446	645.00	0.3800	300.65	645.00	2	435.14	37.689
15105	C8H16O	trans-1,3-dimethylcyclohexanol	15466-93-0	57.7446	645.00	0.3800	287.65	645.00	2	435.14	37.689
15106	C8H16O	cis-1,4-dimethylcyclohexanol	16980-61-3	57.7446	645.00	0.3800	297.15	645.00	2	435.14	37.689
15107	C8H16O	2,2-dimethyl-4-hexen-3-ol	37674-67-2	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689
15108	C8H16O	2,5-dimethyl-4-hexen-3-ol	60703-31-3	60.1354	615.00	0.3800	335.15	615.00	1,2	435.15	37.690
15109	C8H16O	3,5-dimethyl-1-hexen-3-ol	3329-48-4	56.0042	615.00	0.3800	319.65	615.00	1,2	419.65	36.221
15110	C8H16O	3,5-dimethyl-4-hexen-3-ol	1569-43-3	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689
15111	C8H16O	2-methyl-3-hepten-2-ol	116668-45-2	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689
15112	C8H16O	2-methyl-4-hepten-2-ol	116668-44-1	60.1325	615.00	0.3800	245.15	615.00	2	435.14	37.689
15113	C8H16O	2-methyl-6-hepten-2-ol	77437-98-0	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689
15114	C8H16O	3-methyl-4-hepten-3-ol	4048-30-0	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689
15115	C8H16O	3-methyl-6-hepten-1-ol	4048-32-2	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689
15116	C8H16O	4-methyl-1-hepten-4-ol	1186-31-8	59.4442	615.00	0.3800	332.65	615.00	1,2	432.65	37.453
15117	C8H16O	4-methyl-4-hepten-3-ol	81280-12-8	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689
15118	C8H16O	5-methyl-2-hepten-4-ol	4048-31-1	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689
15119	C8H16O	6-methyl-2-hepten-4-ol	4798-62-3	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689
15120	C8H16O	6-methyl-5-hepten-2-ol	1569-60-4	63.9031	615.00	0.3800	348.15	615.00	1,2	448.15	38.925
15121	C8H16O	1-octen-4-ol	40575-42-6	63.0064	615.00	0.3800	345.15	615.00	1,2	445.15	38.640
15122	C8H16O	2-octen-1-ol	22104-78-5	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689
15123	C8H16O	2-octen-4-ol	4798-61-2	63.9031	615.00	0.3800	348.15	615.00	1,2	448.15	38.925
15124	C8H16O	4-octen-1-ol	67700-26-9	70.0212	615.00	0.3800	367.15	615.00	1,2	467.15	40.737
15125	C8H16O	5-octen-1-ol	90200-83-2	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689
15127	C8H16O	1-ethylcyclohexanol	1940-18-7	58.7573	645.00	0.3800	307.65	645.00	1,2	439.15	38.070
15128	C8H16O	4-ethylcyclohexanol	4534-74-1	57.7446	645.00	0.3800	335.14	645.00	2	435.14	37.689
15129	C8H16O	cis-2-ethylcyclohexanol, (±)	116697-35-9	62.7381	645.00	0.3800	354.15	645.00	1,2	454.15	39.497
15130	C8H16O	trans-2-ethylcyclohexanol, (±)	89886-25-9	57.7446	645.00	0.3800	335.14	645.00	2	435.14	37.689
15131	C8H16O	hexyl vinyl ether	5363-64-4	57.4573	586.00	0.3800	316.15	586.00	1,2	416.15	35.890
15141	C8H16O	2-ethylcyclohexanol	3760-20-1	57.7446	645.00	0.3800	335.14	645.00	2	435.14	37.689
15142	C8H16O	DL-6-methyl-5-hepten-2-ol	4630-06-2	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689
15143	C8H16O	trans-2-octen-1-ol	18409-17-1	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
15144	C8H16O	1-octen-3-ol	3391-86-4	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689
15145	C8H16O	(R)-(-)-1-octen-3-ol	3687-48-7	60.1325	615.00	0.3800	335.14	615.00	2	435.14	37.689
15147	C8H16O	3-ethyl-3-methyl-2-pentanone	19780-65-5	55.0835	624.00	0.3800	326.60	624.00	1,2	426.60	35.570
15148	C8H16O	5-methyl-2-heptanone	18217-12-4	59.8568	624.00	0.3800	337.00	624.00	1,2	437.00	37.865
15151	C8H16O	6-methyl-6-hepten-2-ol	1335-09-7	45.6239	615.00	0.3800	274.25	615.00	1,2	374.25	31.946
15156	C8H16O2	octanoic acid	124-07-2	107.3400	692.00	0.4770	289.65	692.00	1,2	513.05	56.310
15157	C8H16O2	2-ethylhexanoic acid	149-57-5	71.7756	692.00	0.3800	401.15	692.00	1,2	501.15	43.995
15158	C8H16O2	3-ethylhexanoic acid	41065-91-2	44.0629	692.00	0.3800	336.35	692.00	2	436.35	30.181
15159	C8H16O2	heptyl formate	112-23-2	64.9938	633.60	0.3800	226.75	633.60	1,2	451.25	40.488
15160	C8H16O2	hexyl acetate	142-92-7	65.5350	618.00	0.3630	192.25	618.00	1,2	444.65	41.312
15161	C8H16O2	1,1-dimethylbutyl acetate	34859-98-8	55.8132	618.00	0.3800	326.15	618.00	1,2	426.15	35.784
15162	C8H16O2	2-ethylbutyl acetate	10031-87-5	60.0070	618.00	0.3800	335.65	618.00	1,2	435.65	37.737
15163	C8H16O2	sec-hexyl acetate	108-84-9	52.5588	618.00	0.3800	320.65	618.00	1,2	420.65	34.061
15164	C8H16O2	2-methyl-1-pentyl acetate	7789-99-3	60.1452	618.00	0.3800	336.15	618.00	1,2	436.15	37.785
15165	C8H16O2	2-methyl-3-pentyl acetate	35897-16-6	53.4194	618.00	0.3800	322.15	618.00	1,2	422.15	34.519
15166	C8H16O2	3-methyl-3-pentyl acetate	10250-47-2	52.8435	618.00	0.3800	321.15	618.00	1,2	421.15	34.213
15167	C8H16O2	pentyl propanoate	624-54-4	63.1419	617.80	0.3800	203.05	617.80	1,2	441.90	39.174
15168	C8H16O2	1-methylbutyl propanoate	54004-43-2	70.1379	597.00	0.3800	206.75	597.00	2	440.22	42.198
15169	C8H16O2	2-methylbutyl propanoate	2438-20-2	66.0772	609.00	0.3800	206.75	609.00	2	440.22	40.577
15170	C8H16O2	isopentyl propanoate	105-68-0	61.3810	611.00	0.3800	206.75	611.00	1,2	432.65	38.443
15171	C8H16O2	1-ethylpropyl propanoate	---	70.5394	597.00	0.3800	206.75	597.00	2	440.22	42.440
15172	C8H16O2	1,1-dimethylpropyl propanoate	34949-22-9	71.6429	589.00	0.3800	224.17	589.00	2	437.43	42.772
15173	C8H16O2	1,2-dimethylpropyl propanoate	66576-70-3	71.5736	593.00	0.3800	191.75	593.00	2	439.78	42.797
15174	C8H16O2	2,2-dimethylpropyl propanoate	3581-69-9	69.2071	593.00	0.3800	224.17	593.00	2	437.43	41.622
15175	C8H16O2	butyl butanoate	109-21-7	65.3162	616.00	0.3890	181.15	616.00	1,2	438.15	40.285
15176	C8H16O2	isobutyl butanoate	539-90-2	59.7482	611.00	0.3800	206.75	611.00	1,2	430.05	37.627
15177	C8H16O2	isobutyl isobutyrate	97-85-8	63.2000	602.00	0.4310	192.45	602.00	1,2	420.65	37.682
15178	C8H16O2	sec-butyl butanoate	819-97-6	61.4367	596.00	0.3800	206.75	596.00	1,2	425.15	38.214
15179	C8H16O2	tert-butyl butanoate	2308-38-5	58.4642	574.00	0.3800	224.17	574.00	1,2	409.15	36.391
15180	C8H16O2	sec-butyl butanoate, (S)	116836-55-6	58.7684	599.25	0.3800	181.65	599.25	1,2	425.15	36.741
15181	C8H16O2	tert-butyl 2-methylpropanoate	16889-72-8	46.1950	600.85	0.3800	299.85	600.85	1,2	399.85	30.470
15185	C8H16O2	ethyl hexanoate	123-66-0	62.8702	602.00	0.3800	206.15	602.00	1,2	440.15	38.165
15186	C8H16O2	ethyl 4-methylpentanoate	25415-67-2	61.6696	602.00	0.3800	336.15	602.00	1,2	436.15	37.785
15191	C8H16O2	isopropyl 3-methylbutanoate	32665-23-9	55.0581	599.25	0.3800	315.15	599.25	1,2	415.15	35.160
15192	C8H16O2	isopropyl pentanoate	18362-97-5	61.7296	602.00	0.3800	336.35	602.00	2	436.35	37.804
15193	C8H16O2	propyl 3-methylbutanoate	557-00-6	59.8729	599.25	0.3800	329.05	599.25	1,2	429.05	37.111
15194	C8H16O2	propyl pentanoate	141-06-0	63.0226	602.00	0.3800	202.45	602.00	1,2	440.65	38.212
15195	C8H16O2	methyl heptanoate	106-73-0	65.0505	602.00	0.3800	217.15	602.00	1,2	447.15	38.830
15204	C8H16O2	2-methylheptanoic acid	1188-02-9	44.0629	692.00	0.3800	336.35	692.00	2	436.35	30.181
15205	C8H16O2	2-propylpentanoic acid	99-66-1	69.7179	692.00	0.3800	394.15	692.00	1,2	494.15	43.322
15207	C8H16O2	butyl isobutyrate	97-87-0	61.7296	602.00	0.3800	336.35	602.00	2	436.35	37.804
15232	C8H16O4	diethylene glycol ethyl ether acetate	112-15-2	79.4805	660.00	0.3800	248.15	660.00	1,2	490.55	47.410
15243	C8H16S	thiacyclononane	6007-54-1	63.8329	751.38	0.3800	263.93	751.38	1,2	493.15	42.538
15248	C8H17Br	1-bromooctane	111-83-1	69.6800	665.09	0.3800	218.15	665.09	1,2	473.95	43.384
15249	C8H17Br	2-bromooctane, (±)-	60251-57-2	63.8974	665.09	0.3800	361.65	665.09	1,2	461.65	40.738
15250	C8H17Br	2-ethylhexyl bromide	18908-66-2	64.7445	665.09	0.3800	367.80	665.09	2	467.80	40.799
15252	C8H17Cl	1-chlorooctane	111-85-3	64.9359	642.41	0.3800	215.35	642.41	1,2	456.62	40.527
15253	C8H17Cl	2-chloro-2,5-dimethylhexane	29342-44-7	56.6866	642.41	0.3800	342.45	642.41	2	442.45	36.380
15254	C8H17Cl	3-chloro-2,3-dimethylhexane	101654-30-2	56.6866	642.41	0.3800	342.45	642.41	2	442.45	36.380
15255	C8H17Cl	2-chloro-2-methylheptane	4325-49-9	56.6866	642.41	0.3800	342.45	642.41	2	442.45	36.380
15256	C8H17Cl	2-chloro-6-methylheptane	2350-19-8	56.6866	642.41	0.3800	342.45	642.41	2	442.45	36.380
15257	C8H17Cl	3-chloro-3-methylheptane	5272-02-6	56.6866	642.41	0.3800	342.45	642.41	2	442.45	36.380
15258	C8H17Cl	4-chloro-4-methylheptane	61764-94-1	56.6866	642.41	0.3800	342.45	642.41	2	442.45	36.380
15259	C8H17Cl	3-(chloromethyl)heptane	123-04-6	58.3418	642.41	0.3800	345.15	642.41	1,2	445.15	37.250
15260	C8H17Cl	2-chlorooctane	628-61-5	58.3418	642.41	0.3800	345.15	642.41	1,2	445.15	37.250
15261	C8H17Cl	2-chloro-2,4,4-trimethylpentane	6111-88-2	58.3418	642.41	0.3800	247.15	642.41	2	445.15	37.250
15262	C8H17Cl	(S)-2-chlorooctane	16844-08-9	56.6866	642.41	0.3800	342.45	642.41	2	442.45	36.380
15263	C8H17Cl	(<+->)-2-chlorooctane	51261-14-4	58.3731	642.41	0.3800	345.20	642.41	1,2	445.20	37.266
15264	C8H17Cl	2-ethylhexyl-6-chloride	2350-24-5	56.6866	642.41	0.3800	342.45	642.41	2	442.45	36.380
15273	C8H17F	1-fluorooctane	463-11-6	59.3387	580.50	0.3800	209.15	580.50	1,2	415.45	36.795
15276	C8H17I	1-iodooctane	629-27-6	86.3004	665.98	0.3800	227.45	665.98	1,2	498.26	51.102
15277	C8H17I	2-iodooctane, (±)	36049-78-2	69.0788	665.98	0.3800	383.15	665.98	1,2	483.15	42.268
15278	C8H17I	2-ethylhexyl iodide	1653-16-3	71.3983	665.98	0.3800	390.71	665.98	2	490.71	42.992
15279	C8H17I	2-octyl iodide	557-36-8	71.3983	665.98	0.3800	390.71	665.98	2	490.71	42.992
15282	C8H17N	cyclohexyldimethylamine	98-94-2	57.9613	642.00	0.3800	335.15	642.00	1,2	435.15	37.690
15283	C8H17N	cyclohexylethylamine	5459-93-8	58.4687	642.00	0.3800	337.15	642.00	1,2	437.15	37.880
15285	C8H17N	N,4-dimethylcyclohexylamine	90226-23-6	67.3861	642.00	0.3800	258.15	642.00	1,2	469.15	40.928
15286	C8H17N	2-ethylcyclohexanamine	6850-36-8	60.1547	642.00	0.3800	343.65	642.00	1,2	443.65	38.497
15295	C8H17N	(S)-(+)-1-cyclohexylethylamine	17430-98-7	59.4109	642.00	0.3800	340.81	642.00	2	440.81	38.227
15296	C8H17N	2,3-dimethylcyclohexylamine	42195-92-6	57.2095	642.00	0.3800	332.15	642.00	1,2	432.15	37.405
15297	C8H17N	R-(-)-cyclohexylethylamine	5913-13-3	59.4109	642.00	0.3800	340.81	642.00	2	440.81	38.227
15299	C8H17N	cyclohexaneethylamine	4442-85-7	59.4109	642.00	0.3800	340.81	642.00	2	440.81	38.227
15301	C8H17N	N-methyl-N-(cyclohexylmethyl) amine	25756-29-0	59.4109	642.00	0.3800	340.81	642.00	2	440.81	38.227
15328	C8H17NO2	1-nitrooctane	629-37-8	79.0465	690.75	0.3800	323.03	690.75	1,2	505.15	47.973
15332	C8H17NO2	2-nitrooctane, (±)	116836-12-5	65.5265	690.75	0.3800	380.78	690.75	2	480.78	41.677
15354	C8H18	octane	111-65-9	59.0771	568.83	0.4390	216.38	568.83	1,2	398.83	34.766
15355	C8H18	2-methylheptane	592-27-8	59.5032	559.64	0.4810	164.16	559.64	1,2	390.80	33.436
15356	C8H18	3-methylheptane	589-81-1	55.1669	563.67	0.4060	152.60	563.67	1,2	392.08	34.038
15357	C8H18	4-methylheptane	589-53-7	54.8569	561.74	0.4050	152.20	561.74	1,2	390.86	33.877
15358	C8H18	3-methyl-3-ethylpentane	1067-08-9	50.3500	576.50	0.3770	182.28	576.50	1,2	391.42	32.807

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
15359	C8H18	3-ethylhexane	619-99-8	52.7540	565.40	0.3800	291.69	565.40	1,2	391.69	33.689
15360	C8H18	3-ethyl-2-methylpentane	609-26-7	51.1790	567.00	0.3800	158.20	567.00	1,2	388.81	32.966
15361	C8H18	2,2-dimethylhexane	590-73-8	52.2107	549.80	0.4070	151.97	549.80	1,2	379.99	32.366
15362	C8H18	2,3-dimethylhexane	584-94-1	51.6000	563.40	0.3770	272.04	563.40	1,2	388.76	33.180
15363	C8H18	2,4-dimethylhexane	589-43-5	50.8739	553.50	0.3820	272.04	553.50	1,2	382.58	32.475
15364	C8H18	2,5-dimethylhexane	592-13-2	52.4449	550.00	0.3970	182.00	550.00	1,2	382.26	32.731
15365	C8H18	3,3-dimethylhexane	563-16-6	51.7080	562.00	0.3980	147.05	562.00	1,2	385.12	32.639
15366	C8H18	3,4-dimethylhexane	583-48-2	51.6240	568.80	0.3770	290.88	568.80	1,2	390.88	33.309
15367	C8H18	2,2,3-trimethylpentane	564-02-3	50.4730	563.50	0.3960	160.89	563.50	1,2	383.00	32.157
15368	C8H18	2,2,4-trimethylpentane	540-84-1	48.0916	543.96	0.3800	165.78	543.96	1,2	372.39	31.020
15369	C8H18	2,3,3-trimethylpentane	560-21-4	49.9100	573.50	0.3830	172.22	573.50	1,2	387.92	32.398
15370	C8H18	2,3,4-trimethylpentane	565-75-3	50.7517	566.30	0.3850	163.95	566.30	1,2	386.62	32.622
15371	C8H18	2,2,3,3-tetramethylbutane	594-82-1	47.8049	567.80	0.3800	172.47	567.80	1,2	379.60	31.422
15372	C8H18	octane, mixture	---	45.0004	562.52	0.3800	168.25	562.52	1,2	376.22	29.570
15430	C8H18O	1-octanol	111-87-5	107.3000	652.50	0.6450	257.65	652.50	1,2	468.35	43.505
15431	C8H18O	2-octanol	123-96-6	101.0000	637.15	0.6390	241.55	637.15	1,2	452.95	44.163
15432	C8H18O	2-octanol, (±)	4128-31-8	67.1462	600.92	0.3800	241.55	600.92	1,2	453.15	39.402
15433	C8H18O	3-octanol	589-98-0	75.3937	601.72	0.3800	228.15	601.72	1,2	447.85	44.904
15434	C8H18O	4-octanol	589-62-8	75.7269	604.27	0.3800	232.45	604.27	1,2	449.75	45.102
15435	C8H18O	4-octanol, (±)	74778-22-6	65.9233	600.92	0.3800	232.45	600.92	1,2	449.45	39.049
15436	C8H18O	2-methyl-1-heptanol	60435-70-3	75.5515	602.93	0.3800	161.15	602.93	1,2	448.75	44.998
15437	C8H18O	3-methyl-1-heptanol	1070-32-2	77.3759	616.90	0.3800	183.15	616.90	1,2	459.15	46.084
15438	C8H18O	4-methyl-1-heptanol	817-91-4	76.8845	613.14	0.3800	225.24	613.14	1,2	456.35	45.792
15439	C8H18O	5-methyl-1-heptanol	7212-53-5	77.4812	617.71	0.3800	169.15	617.71	1,2	459.75	46.147
15440	C8H18O	6-methyl-1-heptanol	1653-40-3	77.6742	619.19	0.3800	167.15	619.19	1,2	460.85	46.262
15441	C8H18O	2-methyl-2-heptanol	625-25-2	69.9150	583.83	0.3800	222.75	583.83	1,2	429.85	42.132
15442	C8H18O	3-methyl-2-heptanol	31367-46-1	72.7274	593.34	0.3800	159.15	593.34	1,2	439.25	43.571
15443	C8H18O	4-methyl-2-heptanol	56298-90-9	73.6765	600.77	0.3800	171.15	600.77	1,2	444.75	44.140
15444	C8H18O	5-methyl-2-heptanol	54630-50-1	73.7283	601.18	0.3800	153.15	601.18	1,2	445.05	44.171
15445	C8H18O	6-methyl-2-heptanol	4730-22-7	73.7283	601.18	0.3800	168.15	601.18	1,2	445.05	44.171
15446	C8H18O	2-methyl-3-heptanol	18720-62-2	72.9862	595.37	0.3800	188.15	595.37	1,2	440.75	43.726
15447	C8H18O	3-methyl-3-heptanol	5582-82-1	70.6442	589.67	0.3800	190.15	589.67	1,2	434.15	42.572
15448	C8H18O	4-methyl-3-heptanol	14979-39-6	70.8825	578.89	0.3800	150.15	578.89	1,2	428.55	42.466
15449	C8H18O	5-methyl-3-heptanol	18720-65-5	70.5723	576.46	0.3800	181.95	576.46	1,2	426.75	42.280
15450	C8H18O	6-methyl-3-heptanol	18720-66-6	71.6496	584.90	0.3800	210.24	584.90	2	433.00	42.925
15451	C8H18O	2-methyl-4-heptanol	21570-35-4	72.7274	593.34	0.3800	192.15	593.34	1,2	439.25	43.571
15452	C8H18O	3-methyl-4-heptanol	1838-73-9	72.4859	591.45	0.3800	210.24	591.45	1,2	437.85	43.426
15453	C8H18O	4-methyl-4-heptanol	598-01-6	70.6612	589.80	0.3800	191.15	589.80	1,2	434.25	42.582
15454	C8H18O	2-ethyl-1-hexanol	104-76-7	101.8400	640.25	0.6270	203.15	640.25	1,2	457.75	50.804
15455	C8H18O	3-ethyl-1-hexanol	41065-95-6	76.2968	608.64	0.3800	225.24	608.64	2	453.00	45.442
15456	C8H18O	4-ethyl-1-hexanol	---	76.2968	608.64	0.3800	225.24	608.64	2	453.00	45.442
15457	C8H18O	2,2-dimethyl-1-hexanol	2370-13-0	72.5958	605.29	0.3800	221.15	605.29	1,2	445.65	43.748
15458	C8H18O	2,3-dimethyl-1-hexanol	---	74.0649	603.81	0.3800	210.24	603.81	2	447.00	44.372
15459	C8H18O	2,4-dimethyl-1-hexanol	3965-59-1	74.2634	605.36	0.3800	210.24	605.36	1,2	448.15	44.491
15460	C8H18O	2,5-dimethyl-1-hexanol	6886-16-4	74.9541	610.77	0.3800	210.24	610.77	1,2	452.15	44.905
15461	C8H18O	3,3-dimethyl-1-hexanol	10524-70-6	74.0142	616.63	0.3800	242.66	616.63	2	454.00	44.603
15462	C8H18O	3,4-dimethyl-1-hexanol	---	75.2737	613.27	0.3800	210.24	613.27	2	454.00	45.097
15463	C8H18O	3,5-dimethyl-1-hexanol	13501-73-0	75.6451	616.17	0.3800	210.24	616.17	1,2	456.15	45.319
15464	C8H18O	4,4-dimethyl-1-hexanol	6481-95-4	74.1841	617.99	0.3800	242.66	617.99	2	455.00	44.705
15465	C8H18O	4,5-dimethyl-1-hexanol	---	75.4464	614.62	0.3800	210.24	614.62	2	455.00	45.200
15466	C8H18O	5,5-dimethyl-1-hexanol	2768-18-5	74.1841	617.99	0.3800	242.66	617.99	2	455.00	44.705
15467	C8H18O	3-ethyl-2-hexanol	24448-19-9	73.0552	595.91	0.3800	210.24	595.91	1,2	441.15	43.767
15468	C8H18O	4-ethyl-2-hexanol	---	73.0294	595.71	0.3800	210.24	595.71	2	441.00	43.752
15469	C8H18O	2,3-dimethyl-2-hexanol	19550-03-9	69.3805	591.82	0.3800	227.66	591.82	1,2	433.25	42.062
15470	C8H18O	2,4-dimethyl-2-hexanol	42328-76-7	67.8114	578.98	0.3800	227.66	578.98	1,2	423.85	41.110
15471	C8H18O	2,5-dimethyl-2-hexanol	3730-60-7	68.1117	581.44	0.3800	227.66	581.44	1,2	425.65	41.293
15472	C8H18O	3,3-dimethyl-2-hexanol	22025-20-3	69.3387	591.48	0.3800	227.66	591.48	2	433.00	42.036
15473	C8H18O	3,4-dimethyl-2-hexanol	19550-05-1	72.4157	603.29	0.3800	195.24	603.29	1,2	444.15	43.643
15474	C8H18O	3,5-dimethyl-2-hexanol	66576-27-0	70.5473	588.35	0.3800	195.24	588.35	1,2	433.15	42.517
15475	C8H18O	4,4-dimethyl-2-hexanol	---	69.6727	594.21	0.3800	227.66	594.21	2	435.00	42.239
15476	C8H18O	4,5-dimethyl-2-hexanol	---	70.8614	590.87	0.3800	195.24	590.87	2	435.00	42.706
15477	C8H18O	5,5-dimethyl-2-hexanol	31841-77-7	70.3660	599.88	0.3800	227.66	599.88	1,2	439.15	42.659
15478	C8H18O	3-ethyl-3-hexanol	597-76-2	70.3050	586.95	0.3800	242.66	586.95	1,2	432.15	42.367
15479	C8H18O	4-ethyl-3-hexanol	19780-44-0	72.3652	590.50	0.3800	210.24	590.50	1,2	437.15	43.354
15480	C8H18O	2,2-dimethyl-3-hexanol	4209-90-9	68.7126	586.35	0.3800	227.66	586.35	1,2	429.25	41.657
15481	C8H18O	2,3-dimethyl-3-hexanol	4166-46-5	69.0632	589.22	0.3800	227.66	589.22	1,2	431.35	41.869
15482	C8H18O	2,4-dimethyl-3-hexanol	13432-25-2	70.5473	588.35	0.3800	195.24	588.35	1,2	433.15	42.517
15483	C8H18O	2,5-dimethyl-3-hexanol	19550-07-3	70.3775	587.00	0.3800	195.24	587.00	1,2	432.15	42.414
15484	C8H18O	3,4-dimethyl-3-hexanol	19550-08-4	68.0283	580.75	0.3800	227.66	580.75	1,2	425.15	41.242
15485	C8H18O	3,5-dimethyl-3-hexanol	4209-91-0	68.0283	580.75	0.3800	227.66	580.75	1,2	425.15	41.242
15486	C8H18O	4,4-dimethyl-3-hexanol	19550-09-5	69.1968	590.31	0.3800	227.66	590.31	1,2	432.15	41.950
15487	C8H18O	4,5-dimethyl-3-hexanol	---	69.8429	582.72	0.3800	195.24	582.72	2	429.00	42.092
15488	C8H18O	5,5-dimethyl-3-hexanol	66576-31-6	68.1952	582.12	0.3800	227.66	582.12	1,2	426.15	41.343
15489	C8H18O	2-propyl-1-pentanol	58175-57-8	76.1477	607.50	0.3800	225.24	607.50	1,2	452.15	45.353
15490	C8H18O	2-isopropyl-1-pentanol	---	78.6865	639.93	0.3800	210.24	639.93	2	473.74	47.141
15491	C8H18O	2-methyl-2-ethyl-1-pentanol	5970-63-8	73.3771	611.53	0.3800	242.66	611.53	1,2	450.25	44.219
15492	C8H18O	3-methyl-2-ethyl-1-pentanol	---	74.5828	607.86	0.3800	210.24	607.86	2	450.00	44.683
15493	C8H18O	4-methyl-2-ethyl-1-pentanol	106-67-2	74.5224	607.39	0.3800	210.24	607.39	1,2	449.65	44.646
15494	C8H18O	2-methyl-3-ethyl-1-pentanol	---	74.2375	605.16	0.3800	210.24	605.16	2	448.00	44.476
15495	C8H18O	3-methyl-3-ethyl-1-pentanol	---	72.9949	608.48	0.3800	242.66	608.48	2	448.00	43.988

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
15496	C8H18O	4-methyl-3-ethyl-1-pentanol	---	74.2375	605.16	0.3800	210.24	605.16	2	448.00	44.476
15497	C8H18O	2,2,3-trimethyl-1-pentanol	57409-53-7	71.7868	611.49	0.3800	227.66	611.49	1,2	447.65	43.521
15498	C8H18O	2,2,4-trimethyl-1-pentanol	123-44-4	70.7504	603.02	0.3800	203.15	603.02	1,2	441.45	42.892
15499	C8H18O	2,3,3-trimethyl-1-pentanol	57409-53-7	72.0126	613.33	0.3800	227.66	613.33	2	449.00	43.657
15500	C8H18O	2,3,4-trimethyl-1-pentanol	6570-88-3	74.4561	619.59	0.3800	195.24	619.59	1,2	456.15	44.873
15501	C8H18O	2,4,4-trimethyl-1-pentanol	16325-63-6	71.2017	606.71	0.3800	227.66	606.71	1,2	444.15	43.166
15502	C8H18O	3,3,4-trimethyl-1-pentanol	---	71.1766	606.50	0.3800	227.66	606.50	2	444.00	43.151
15503	C8H18O	3,4,4-trimethyl-1-pentanol	16325-64-7	71.1766	606.50	0.3800	227.66	606.50	2	444.00	43.151
15504	C8H18O	2-methyl-3-ethyl-2-pentanol	19780-63-3	68.9964	588.68	0.3800	227.66	588.68	1,2	430.95	41.829
15505	C8H18O	3-methyl-3-ethyl-2-pentanol	66576-22-5	69.3387	591.48	0.3800	227.66	591.48	2	433.00	42.036
15506	C8H18O	4-methyl-3-ethyl-2-pentanol	66576-23-6	71.2265	593.79	0.3800	195.24	593.79	1,2	437.15	42.926
15507	C8H18O	2,3,3-trimethyl-2-pentanol	23171-85-9	67.1241	598.76	0.3800	272.65	598.76	1,2	433.15	41.188
15508	C8H18O	2,3,4-trimethyl-2-pentanol	66576-26-9	67.9403	592.43	0.3800	212.66	592.43	1,2	431.15	41.439
15509	C8H18O	2,4,4-trimethyl-2-pentanol	690-37-9	64.9259	579.96	0.3800	245.08	579.96	1,2	419.55	39.839
15510	C8H18O	3,3,4-trimethyl-2-pentanol	19411-41-7	69.0915	602.05	0.3800	212.66	602.05	1,2	438.15	42.141
15511	C8H18O	3,4,4-trimethyl-2-pentanol	10575-56-1	67.9403	592.43	0.3800	300.15	592.43	1,2	431.15	41.439
15512	C8H18O	2-methyl-3-ethyl-3-pentanol	597-05-7	69.3638	591.68	0.3800	227.66	591.68	1,2	433.15	42.052
15513	C8H18O	2,2,3-trimethyl-3-pentanol	7294-05-5	65.8307	587.70	0.3800	267.15	587.70	1,2	425.15	40.395
15514	C8H18O	2,2,4-trimethyl-3-pentanol	5162-48-1	66.7899	582.81	0.3800	261.85	582.81	1,2	424.15	40.737
15515	C8H18O	2,3,4-trimethyl-3-pentanol	3054-92-0	67.7759	591.06	0.3800	212.66	591.06	1,2	430.15	41.339
15516	C8H18O	3-methyl-2-isopropyl-1-butanol	18593-92-5	72.7556	606.01	0.3800	195.24	606.01	1,2	446.15	43.848
15517	C8H18O	2,2-diethyl-1-butanol	13023-60-4	72.6553	605.76	0.3800	242.66	605.76	2	446.00	43.784
15518	C8H18O	2,3-dimethyl-2-ethyl-1-butanol	---	71.5109	609.23	0.3800	227.66	609.23	2	446.00	43.353
15519	C8H18O	3,3-dimethyl-2-ethyl-1-butanol	66576-56-5	71.5109	609.23	0.3800	227.66	609.23	2	446.00	43.353
15520	C8H18O	2,2,3,3-tetramethyl-1-butanol	66576-24-7	69.2038	616.52	0.3800	423.15	616.52	2	446.00	42.464
15521	C8H18O	3,5-dimethyl-3-hexanol, (±)	19113-78-1	58.6177	600.92	0.3800	325.15	600.92	1,2	425.15	36.741
15522	C8H18O	2-methyl-1-heptanol, (±)	111675-77-5	65.6956	600.92	0.3800	161.15	600.92	1,2	448.75	38.983
15523	C8H18O	5-methyl-1-heptanol, (±)	111767-95-4	69.4132	600.92	0.3800	169.15	600.92	1,2	459.75	40.031
15524	C8H18O	2-methyl-3-heptanol, (±)	100296-26-2	63.1407	600.92	0.3800	188.15	600.92	1,2	440.65	38.212
15525	C8H18O	6-methyl-3-heptanol, (±)	100295-85-0	63.6031	600.92	0.3800	212.15	600.92	1,2	442.15	38.355
15526	C8H18O	3-methyl-4-heptanol, (R*,S*)-(±)	92737-91-2	61.4841	600.92	0.3800	335.15	600.92	1,2	435.15	37.690
15527	C8H18O	dibutyl ether	142-96-1	61.0303	581.00	0.3950	177.95	581.00	1,2	413.44	37.346
15528	C8H18O	di-sec-butyl ether	6863-58-7	54.5547	559.00	0.3800	173.15	559.00	1,2	394.20	34.297
15529	C8H18O	di-tert-butyl ether	6163-66-2	50.3318	550.00	0.3800	195.00	550.00	1,2	380.40	32.187
15530	C8H18O	butyl isobutyl ether	17071-47-5	62.3395	563.33	0.3800	324.15	563.33	1,2	424.15	36.647
15531	C8H18O	tert-butyl isobutyl ether	33021-02-2	67.9202	563.33	0.3800	339.93	563.33	2	439.93	38.143
15532	C8H18O	di-sec-butyl ether, (±)	17226-28-7	53.9090	563.33	0.3800	293.65	563.33	1,2	393.65	34.169
15533	C8H18O	ethyl hexyl ether	5756-43-4	59.7687	563.33	0.3800	316.15	563.33	1,2	416.15	35.890
15534	C8H18O	1-methoxyheptane	629-32-3	62.3395	563.33	0.3800	324.15	563.33	1,2	424.15	36.647
15535	C8H18O	isooctanol	26952-21-6	69.2024	600.92	0.3800	156.05	600.92	1,2	459.15	39.973
15536	C8H18O	(R)-(-)-2-octanol	5978-70-1	65.7443	600.92	0.3800	348.90	600.92	1,2	448.90	38.997
15537	C8H18O	(S)-(+)-2-octanol	6169-06-8	66.4481	600.92	0.3800	351.05	600.92	1,2	451.05	39.202
15538	C8H18O	octyl alcohol; mixed isomers	29063-28-3	72.4736	600.92	0.3800	257.25	600.92	1,2	468.15	40.833
15539	C8H18O	isobutyl ether	628-55-7	53.8682	563.33	0.3800	295.85	563.33	1,2	395.85	33.974
15544	C8H18O2	1,2-octanediol	1117-86-8	110.0493	672.79	0.3800	303.15	672.79	2	525.15	61.843
15545	C8H18O2	1,3-octanediol	23433-05-8	112.4367	686.88	0.3800	286.06	686.88	2	536.15	63.185
15546	C8H18O2	1,4-octanediol	51916-47-3	116.9990	713.79	0.3800	286.06	713.79	2	557.15	65.749
15547	C8H18O2	1,8-octanediol	629-41-4	115.7817	694.71	0.3800	333.15	694.71	2	544.15	64.756
15548	C8H18O2	2,4-octanediol	90162-24-6	68.7328	692.04	0.3800	378.13	692.04	2	478.13	43.995
15549	C8H18O2	4,5-octanediol, (±)	22520-40-7	68.7328	692.04	0.3800	303.15	692.04	2	478.13	43.995
15550	C8H18O2	3-methyl-2,4-heptanediol	6964-04-1	68.7328	692.04	0.3800	378.13	692.04	2	478.13	43.995
15551	C8H18O2	2-ethyl-1,3-hexanediol	94-96-2	76.7957	692.04	0.3800	233.15	692.04	1,2	517.15	45.534
15552	C8H18O2	2,5-dimethyl-2,5-hexanediol	110-03-2	67.7327	692.04	0.3800	361.65	692.04	1,2	487.15	42.651
15553	C8H18O2	2,2,4-trimethyl-1,4-pentanediol	80864-10-4	72.2756	692.04	0.3800	359.15	692.04	1,2	483.15	45.847
15554	C8H18O2	2,2,4-trimethyl-1,3-pentanediol	144-19-4	73.9112	692.04	0.3800	324.65	692.04	1,2	508.15	44.668
15555	C8H18O2	2-butyl-2-methyl-1,3-propanediol	3121-83-3	83.0846	692.04	0.3800	316.95	692.04	1,2	535.15	47.271
15556	C8H18O2	di-t-butyl peroxide	110-05-4	54.2512	547.00	0.3960	233.15	547.00	1,2	384.15	33.576
15558	C8H18O2	ethylene glycol monohexyl ether	112-25-4	71.9750	636.00	0.3800	228.05	636.00	1,2	481.15	42.076
15561	C8H18O2	(3R,6R)-3,6-octanediol	129619-37-0	68.7328	692.04	0.3800	378.13	692.04	2	478.13	43.995
15562	C8H18O2	(3S,6S)-3,6-octanediol	136705-66-3	68.7328	692.04	0.3800	378.13	692.04	2	478.13	43.995
15567	C8H18O2	2-(2-ethylbutoxy)ethanol	4468-93-3	70.9582	636.00	0.3800	378.13	636.00	2	478.13	41.787
15568	C8H18O2	ethylene glycol mono-2-methylpentyl ether	10137-96-9	68.3211	636.00	0.3800	370.00	636.00	2	470.00	41.009
15570	C8H18O2S	diisobutyl sulfone	10495-45-1	75.3092	767.00	0.3800	290.15	767.00	1,2	538.15	47.561
15571	C8H18O2S	dibutyl sulfone	598-04-9	95.5992	767.00	0.3880	318.00	767.00	1,2	564.00	57.077
15572	C8H18O2S	di-tert-butylsulfone	1886-75-5	64.6564	767.00	0.3800	403.05	767.00	1,2	521.05	41.967
15578	C8H18O3	diethylene glycol diethyl ether	112-36-7	74.7530	624.00	0.3800	228.85	624.00	1,2	462.15	44.763
15579	C8H18O3	diethylene glycol monobutyl ether	112-34-5	100.6555	654.00	0.4220	205.15	654.00	1,2	504.15	54.049
15587.1	C8H18O3	dipropylene glycol monoethyl ether	30025-38-8	74.4510	617.00	0.3050	204.00	617.00	1,2	471.00	47.969
15591	C8H18O4	triethylene glycol dimethyl ether	112-49-2	88.4507	651.00	0.3970	229.35	651.00	1,2	489.15	50.901
15598	C8H18O5	tetraethylene glycol	112-60-7	150.0265	722.00	0.3980	268.15	722.00	1,2	581.00	78.318
15602	C8H18S	octyl mercaptan	111-88-6	68.7000	664.00	0.3860	223.95	664.00	1,2	472.19	42.539
15603	C8H18S	2-octanethiol	3001-66-9	64.0855	653.00	0.3800	194.15	653.00	1,2	459.55	40.364
15604	C8H18S	tert-octyl mercaptan	141-59-3	55.1246	627.00	0.3760	199.00	627.00	1,2	429.00	35.737
15605	C8H18S	2-octanethiol, (±)	10435-81-1	63.9749	648.00	0.3800	194.15	648.00	1,2	459.55	40.012
15606	C8H18S	dibutyl sulfide	544-40-1	62.7592	650.00	0.3800	209.86	650.00	1,2	455.15	39.706
15607	C8H18S	methyl heptyl sulfide	20291-61-6	68.6558	660.72	0.3800	209.86	660.72	1,2	461.70	43.516
15608	C8H18S	ethyl hexyl sulfide	7309-44-6	68.6558	660.72	0.3800	209.86	660.72	2	460.00	43.657
15609	C8H18S	propyl pentyl sulfide	42841-80-5	68.6558	660.72	0.3800	209.86	660.72	2	460.00	43.657
15610	C8H18S	di-sec-butyl sulfide	626-26-6	50.9629	658.04	0.3800	338.15	658.04	1,2	438.15	33.601
15611	C8H18S	di-tert-butyl sulfide	107-47-1	43.8195	658.04	0.3800	264.15	658.04	1,2	422.25	29.668

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
15612	C8H18S	diisobutyl sulfide	592-65-4	54.0731	658.04	0.3800	167.65	658.04	1,2	444.15	35.279
15614	C8H18S2	dibutyl disulfide	629-45-8	75.6311	704.16	0.3800	202.16	704.16	1,2	504.36	46.861
15615	C8H18S2	di-tert-butyl disulfide	110-06-5	74.1816	704.16	0.3800	270.65	704.16	2	513.34	45.167
15617	C8H18S2	disulfide, bis(2-methylpropyl)	1518-72-5	68.2915	704.16	0.3800	393.00	704.16	1,2	493.00	43.212
15618	C8H18S2	disulfide, bis(1-methylpropyl)	5943-30-6	74.1816	704.16	0.3800	413.34	704.16	2	513.34	45.167
15631	C8H19N	octylamine	111-86-4	63.8137	627.00	0.3250	272.75	627.00	1,2	452.75	42.090
15632	C8H19N	2-ethylhexylamine	104-75-6	63.6060	601.45	0.3800	342.35	601.45	1,2	442.35	38.374
15633	C8H19N	6-methyl-2-heptanamine, (±)	5984-58-7	59.4099	601.45	0.3800	328.15	601.45	1,2	428.15	37.026
15634	C8H19N	2-octanamine, (±)	44855-57-4	62.0243	601.45	0.3800	370.15	601.45	1,2	437.15	37.880
15635	C8H19N	methylheptylamine	36343-05-2	64.9500	609.80	0.3800	232.08	609.80	1,2	438.15	40.121
15636	C8H19N	ethylhexylamine	20352-67-4	63.4720	599.80	0.3800	232.08	599.80	1,2	431.15	39.192
15637	C8H19N	dibutylamine	111-92-2	62.3300	607.50	0.3450	211.15	607.50	1,2	432.00	40.612
15638	C8H19N	diisobutylamine	110-96-3	54.2665	580.00	0.3150	203.15	580.00	1,2	412.25	36.713
15639	C8H19N	di-sec-butylamine	626-23-3	50.8768	601.45	0.3800	307.15	601.45	1,2	407.15	33.116
15640	C8H19N	N-methyl-2-heptanamine	540-43-2	59.4099	601.45	0.3800	328.15	601.45	1,2	428.15	37.026
15641	C8H19N	dimethylhexylamine	4385-04-0	55.0981	608.70	0.3800	211.89	608.70	1,2	418.15	35.438
15642	C8H19N	diethylbutylamine	4444-68-2	58.4619	577.33	0.3800	211.89	577.33	1,2	409.15	36.587
15643	C8H19N	N-ethyl-N-isopropyl-2-propanamine	7087-68-5	46.9142	601.45	0.3800	299.65	601.45	1,2	399.65	30.980
15644	C8H19N	N-ethyl-N-propyl-1-propanamine	20634-92-8	53.1821	601.45	0.3800	311.15	601.45	1,2	411.15	34.344
15645	C8H19N	2-amino-6-methylheptane	543-82-8	59.4099	601.45	0.3800	298.15	601.45	1,2	428.15	37.026
15646	C8H19N	(S)-2-amino-6-methylheptane	70419-10-2	59.4099	601.45	0.3800	328.15	601.45	1,2	428.15	37.026
15647	C8H19N	(R)-2-amino-6-methylheptane	70419-11-3	59.4099	601.45	0.3800	328.15	601.45	1,2	428.15	37.026
15648	C8H19N	(S)-2-aminooctane	34566-04-6	62.0243	601.45	0.3800	337.15	601.45	1,2	437.15	37.880
15649	C8H19N	(R)-2-aminooctane	34566-05-7	62.0243	601.45	0.3800	337.15	601.45	1,2	437.15	37.880
15650	C8H19N	2-aminooctane	693-16-3	62.3243	601.45	0.3800	338.15	601.45	1,2	438.15	37.975
15651	C8H19N	N-isopropyl-N-methyl-tert-butylamine	85523-00-8	47.1648	601.45	0.3800	300.15	601.45	1,2	400.15	31.116
15652	C8H19N	tert-octylamine	107-45-9	54.3898	601.45	0.3800	206.25	601.45	1,2	413.15	34.983
15653	C8H19NO	N,N-diisopropylethanolamine	96-80-0	58.5843	741.00	0.3800	363.15	741.00	1,2	463.15	40.355
15654	C8H19NO	2-(dipropylamino)ethanol	3238-75-3	59.9111	741.00	0.3800	369.15	741.00	1,2	469.15	40.928
15655	C8H19NO	6-amino-2-methyl-2-heptanol	372-66-7	59.2440	741.00	0.3800	366.15	741.00	2	466.15	40.641
15694	C8H20N2	2,5-dimethyl-2,5-hexanediamine	23578-35-0	58.6153	715.00	0.3800	357.15	715.00	1,2	457.15	39.783
15695	C8H20N2	1,8-octanediamine	373-44-4	68.7766	715.00	0.3800	325.15	715.00	1,2	498.15	43.706
15696	C8H20N2	N,N,N',N'-tetramethyl-1,4-butanediamine	111-51-3	55.0963	715.00	0.3800	341.15	715.00	1,2	441.15	38.260
15697	C8H20N2	N,N'-diisopropylethylenediamine	4013-94-9	55.5246	715.00	0.3800	343.15	715.00	1,2	443.15	38.450
15698	C8H20N2	N,N'-dimethyl-1,6-hexanediamine	13093-04-4	52.8490	715.00	0.3800	330.41	715.00	2	430.41	37.240
15699	C8H20N2	N-hexylethylenediamine	7261-70-3	52.8490	715.00	0.3800	330.41	715.00	2	430.41	37.240
15700	C8H20N2	N,N,N',N'-tetramethyl-1,3-butanediamine	97-84-7	54.3651	715.00	0.3800	337.70	715.00	1,2	437.70	37.932
15701	C8H20N2	N,N,N'-triethylethylenediamine	105-04-4	34.8465	715.00	0.3800	227.65	715.00	1,2	327.65	27.606
15703	C8H20N2	N,N-diisopropyl ethylenediamine	121-05-1	45.8503	715.00	0.3800	294.15	715.00	1,2	394.15	33.814
15704	C8H20N2	N'-isopropyl-N,N'-dimethyl-1,3-propane-diamine	63905-13-5	52.8490	715.00	0.3800	330.41	715.00	2	430.41	37.240
15747	C8H23N5	tetraethylenepentamine	112-57-2	139.1745	774.00	0.4050	243.00	774.00	1,2	606.15	74.940
15756	C8H24O4Si4	octamethylcyclotetrasiloxane	556-67-2	75.5145	586.50	0.4550	290.80	586.50	1,2	448.15	39.139
15803	C9H4O5	trimellitic anhydride	552-30-7	94.2300	890.00	0.1730	550.00	890.00	1,2	663.00	143.368
15903	C9H6N2O2	toluene diisocyanate	584-84-9	81.5409	737.00	0.3850	287.04	737.00	1,2	523.15	50.640
16010	C9H7N	isoquinoline	119-65-3	73.6000	803.15	0.4380	299.45	803.15	1,2	516.40	46.877
16011	C9H7N	quinoline	91-22-5	72.0595	782.15	0.3980	258.25	782.15	1,2	510.75	47.287
16018	C9H7NO	8-hydroxyquinoline	148-24-3	86.5090	788.00	0.3940	348.00	788.00	1,2	540.00	54.858
16090	C9H8	indene	95-13-6	66.0300	687.00	0.4390	271.70	687.00	1,2	455.77	40.939
16185	C9H8O	2-methylbenzofuran	4265-25-2	65.9904	698.00	0.3790	370.65	698.00	1,2	470.65	43.137
16246.1	C9H8S	2-methyl benzothiophene	1195-14-8	68.2730	780.00	0.3400	324.65	780.00	1,2	519.00	47.054
16508	C9H10	indane	496-11-7	62.1067	684.90	0.4200	221.74	684.90	1,2	451.12	39.543
16509	C9H10	cis-1-propenylbenzene	766-90-5	58.8214	664.60	0.3800	211.47	664.60	1,2	443.16	38.740
16510	C9H10	trans-1-propenylbenzene	873-66-5	58.8214	664.60	0.3800	243.82	664.60	1,2	443.16	38.740
16511	C9H10	2-propenylbenzene	300-57-2	56.9335	640.92	0.3800	233.15	640.92	1,2	428.95	37.391
16512	C9H10	alpha-methylstyrene	98-83-9	58.2006	654.00	0.3710	249.95	654.00	1,2	438.65	38.543
16513	C9H10	m-methylstyrene	100-80-1	60.4295	657.00	0.3780	186.81	657.00	1,2	444.75	39.424
16514	C9H10	o-methylstyrene	611-15-4	62.9972	659.00	0.4060	204.58	659.00	1,2	442.96	40.057
16515	C9H10	p-methylstyrene	622-97-9	61.9394	665.00	0.4060	239.02	665.00	1,2	445.93	39.462
16516	C9H10	1-propenylbenzene	637-50-3	64.6330	656.71	0.3800	246.05	656.71	1,2	448.65	41.760
16519	C9H10	methylstyrene	25013-15-4	59.6293	658.75	0.3800	196.25	658.75	1,2	442.65	39.040
16520	C9H10	3(4)-methylstyrene, isomers	39294-88-7	59.9255	658.75	0.3800	343.15	658.75	1,2	443.15	39.200
16539	C9H10Cl2	2,4-dichloro-1,3,5-trimethylbenzene	57386-83-1	70.1166	760.00	0.3800	332.15	760.00	1,2	516.65	45.486
16676	C9H10O2	ethyl benzoate	93-89-0	65.1078	698.00	0.3160	238.45	698.00	1,2	486.55	44.642
16680	C9H10O2	benzyl acetate	140-11-4	76.9400	699.00	0.4580	221.65	699.00	1,2	486.65	44.583
16707.1	C9H10O2	phenyl ethyl formate	7775-38-4	70.0990	690.00	0.3896	238.00	690.00	1,2	477.00	44.345
16711	C9H10O3	ethyl vanillin	121-32-4	118.9000	748.00	0.3830	350.65	748.00	1,2	567.00	69.051
16905	C9H11NO	p-dimethylaminobenzaldehyde	100-10-7	85.2214	832.00	0.3800	348.00	832.00	1,2	588.00	53.470
17004	C9H12	cumene	98-82-8	57.2014	631.15	0.3630	177.14	631.15	1,2	425.56	38.070
17005	C9H12	m-ethyltoluene	620-14-4	61.2280	637.15	0.4180	177.61	637.15	1,2	434.48	37.933
17006	C9H12	o-ethyltoluene	611-14-3	60.5532	651.15	0.4150	192.35	651.15	1,2	438.33	38.070
17007	C9H12	p-ethyltoluene	622-96-8	61.0861	640.15	0.4130	210.83	640.15	1,2	435.16	38.167
17008	C9H12	1,2,3-trimethylbenzene	526-73-8	58.7867	664.53	0.3450	247.79	664.53	1,2	449.27	39.846
17009	C9H12	1,2,4-trimethylbenzene	95-63-6	57.8232	649.13	0.3420	229.38	649.13	1,2	442.53	39.089
17010	C9H12	trimethyl benzene	25551-13-7	64.3926	643.63	0.3800	345.00	643.63	2	445.00	41.192
17011	C9H12	mesitylene	108-67-8	60.0700	637.36	0.3650	228.46	637.36	1,2	437.89	39.311
17012	C9H12	propylbenzene	103-65-1	60.1072	638.38	0.3970	173.55	638.38	1,2	432.39	38.363
17077	C9H12O	benzyl ethyl ether	539-30-0	62.2727	662.00	0.3410	275.65	662.00	1,2	458.15	41.674
17090	C9H12O	2-phenyl-2-propanol	617-94-7	78.9886	660.00	0.3800	309.15	660.00	1,2	475.15	48.700
17101	C9H12O	2-propylphenol	644-35-9	71.4983	716.37	0.3800	280.15	716.37	1,2	492.55	45.952
17102	C9H12O	3-propylphenol	621-27-2	72.9545	730.33	0.3800	299.15	730.33	1,2	502.15	46.888

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
17103	C9H12O	4-propylphenol	645-56-7	73.6375	736.87	0.3800	295.15	736.87	1,2	506.65	47.327
17104	C9H12O	2-isopropylphenol	88-69-7	69.6440	714.75	0.3800	288.65	714.75	1,2	487.65	45.047
17105	C9H12O	3-isopropylphenol	618-45-1	71.6600	734.54	0.3800	299.15	734.54	1,2	501.15	46.351
17106	C9H12O	4-isopropylphenol	99-89-8	71.8393	736.30	0.3800	335.15	736.30	1,2	502.35	46.467
17107	C9H12O	2-methyl-3-ethylphenol	1123-73-5	72.6107	726.44	0.3800	344.15	726.44	1,2	500.15	46.614
17108	C9H12O	2-methyl-4-ethylphenol	2219-73-0	72.7017	727.31	0.3800	315.11	727.31	1,2	500.75	46.672
17109	C9H12O	2-methyl-5-ethylphenol	1687-65-6	72.7169	727.45	0.3800	288.15	727.45	1,2	500.85	46.682
17110	C9H12O	2-methyl-6-ethylphenol	1687-64-5	70.6403	707.55	0.3800	315.11	707.55	1,2	487.15	45.349
17111	C9H12O	3-methyl-4-ethylphenol	1123-94-0	73.0657	730.79	0.3800	299.15	730.79	1,2	503.15	46.906
17112	C9H12O	3-methyl-5-ethylphenol	698-71-5	73.9761	739.51	0.3800	328.15	739.51	1,2	509.15	47.490
17113	C9H12O	3-methyl-6-ethylphenol	1687-61-2	72.1861	722.37	0.3800	315.85	722.37	1,2	497.35	46.341
17114	C9H12O	4-methyl-2-ethylphenol	3855-26-3	71.9132	719.75	0.3800	298.85	719.75	1,2	495.55	46.166
17115	C9H12O	4-methyl-3-ethylphenol	6161-67-7	73.9761	739.51	0.3800	306.15	739.51	1,2	509.15	47.490
17116	C9H12O	2,3,4-trimethylphenol	526-85-2	74.0876	739.96	0.3800	354.15	739.96	1,2	510.15	47.508
17117	C9H12O	2,3,5-trimethylphenol	697-82-5	73.8449	737.64	0.3800	368.15	737.64	1,2	508.55	47.352
17118	C9H12O	2,3,6-trimethylphenol	2416-94-6	74.0648	739.74	0.3800	335.15	739.74	2	510.00	47.493
17119	C9H12O	2,4,5-trimethylphenol	496-78-6	73.8449	737.64	0.3800	345.15	737.64	1,2	508.55	47.352
17120	C9H12O	2,4,6-trimethylphenol	527-60-6	71.6316	716.46	0.3800	345.15	716.46	1,2	493.95	45.933
17121	C9H12O	3,4,5-trimethylphenol	527-54-8	76.3343	761.43	0.3800	381.15	761.43	1,2	524.95	48.949
17138	C9H12O2	cumene hydroperoxide	80-15-9	73.4036	605.00	0.3800	264.26	605.00	1,2	442.70	44.522
17213	C9H12S	propyl phenyl sulfide	874-79-3	68.8082	720.19	0.3800	139.44	720.19	1,2	493.15	44.374
17214	C9H12S	isopropyl phenyl sulfide	3019-20-3	66.0219	708.21	0.3800	124.44	708.21	1,2	481.15	42.851
17215	C9H12S	3-methyl-(1-thiapropyl)-benzene	34786-24-8	68.6318	717.74	0.3800	123.07	717.74	1,2	492.15	44.210
17216	C9H12S	4-methyl-(1-thiapropyl)-benzene	622-63-9	68.7777	719.20	0.3800	123.07	719.20	1,2	493.15	44.304
17217	C9H12S	2-ethyl-(1-thiaethyl)-benzene	20760-06-9	69.9454	730.87	0.3800	123.07	730.87	1,2	501.15	45.056
17218	C9H12S	3-ethyl-(1-thiaethyl)-benzene	---	70.6188	737.59	0.3800	123.07	737.59	2	505.76	45.490
17219	C9H12S	4-ethyl-(1-thiaethyl)-benzene	---	70.6188	737.59	0.3800	123.07	737.59	2	505.76	45.490
17220	C9H12S	2,3-dimethyl-(1-thiaethyl)-benzene	---	71.3156	743.84	0.3800	106.70	743.84	2	510.74	45.887
17221	C9H12S	2,4-dimethyl-(1-thiaethyl)-benzene	---	71.3156	743.84	0.3800	106.70	743.84	2	510.74	45.887
17222	C9H12S	2,5-dimethyl-(1-thiaethyl)-benzene	---	71.3156	743.84	0.3800	106.70	743.84	2	510.74	45.887
17223	C9H12S	2,6-dimethyl-(1-thiaethyl)-benzene	---	71.3156	743.84	0.3800	106.70	743.84	2	510.74	45.887
17224	C9H12S	3,4-dimethyl-(1-thiaethyl)-benzene	---	71.3156	743.84	0.3800	106.70	743.84	2	510.74	45.887
17225	C9H12S	3,5-dimethyl-(1-thiaethyl)-benzene	---	71.3156	743.84	0.3800	106.70	743.84	2	510.74	45.887
17226	C9H12S	benzenepropanethiol	24734-68-7	67.8629	740.00	0.3800	402.13	740.00	2	502.13	44.089
17227	C9H12S	2-isopropylbenzenethiol	6262-87-9	65.6043	740.00	0.3800	393.15	740.00	1,2	493.15	43.226
17228	C9H12S	[(ethylthio)methyl]benzene	6263-62-3	67.8629	740.00	0.3800	402.13	740.00	2	502.13	44.089
17258	C9H13N	2-butylpyridine	5058-19-5	63.3649	673.00	0.3800	370.15	673.00	1,2	465.15	40.546
17259	C9H13N	2-tert-butylpyridine	5944-41-2	57.8350	673.00	0.3800	240.15	673.00	1,2	443.15	38.450
17260	C9H13N	3-tert-butylpyridine	38031-78-6	64.1124	673.00	0.3800	229.15	673.00	1,2	467.95	40.813
17261	C9H13N	4-butylpyridine	5335-75-1	68.0776	673.00	0.3800	382.15	673.00	1,2	482.15	42.172
17262	C9H13N	4-tert-butylpyridine	3978-81-2	64.5715	673.00	0.3800	232.15	673.00	1,2	469.65	40.976
17263	C9H13N	2,4-diethylpyridine	626-21-1	62.1855	673.00	0.3800	385.15	673.00	1,2	460.65	40.117
17264	C9H13N	2-ethyl-3,5-dimethylpyridine	1123-96-2	64.9800	673.00	0.3800	371.15	673.00	1,2	471.15	41.119
17265	C9H13N	3-ethyl-2,6-dimethylpyridine	23580-52-1	62.3152	673.00	0.3800	361.15	673.00	1,2	461.15	40.164
17266	C9H13N	4-ethyl-2,6-dimethylpyridine	36917-36-9	62.1855	673.00	0.3800	370.15	673.00	1,2	460.65	40.117
17267	C9H13N	2,3,4,6-tetramethylpyridine	20820-82-0	66.3652	673.00	0.3800	376.15	673.00	1,2	476.15	41.597
17268	C9H13N	2-ethyl-6-methylaniline	24549-06-2	71.3051	705.58	0.3800	240.15	705.58	1,2	504.15	44.283
17269	C9H13N	N-ethyl-2-methylaniline	94-68-8	72.9166	705.58	0.3800	389.15	705.58	1,2	489.15	46.537
17270	C9H13N	N-ethyl-3-methylaniline	102-27-2	68.4855	705.58	0.3800	394.15	705.58	1,2	494.15	43.322
17271	C9H13N	N-ethyl-4-methylaniline	622-57-1	73.6352	705.58	0.3800	390.15	705.58	1,2	490.15	46.913
17272	C9H13N	N-ethyl-N-methylaniline	613-97-8	65.0134	705.58	0.3800	377.15	705.58	1,2	477.15	42.352
17273	C9H13N	2-isopropylaniline	643-28-7	68.4855	705.58	0.3800	394.15	705.58	1,2	494.15	43.322
17274	C9H13N	4-isopropylaniline	99-88-7	69.5960	705.58	0.3800	398.15	705.58	1,2	498.15	43.706
17275	C9H13N	N-isopropylaniline	768-52-5	64.4098	705.58	0.3800	376.15	705.58	1,2	476.15	42.029
17276	C9H13N	2-methyl-N,N-dimethylaniline	609-72-3	59.3637	705.58	0.3800	213.15	705.58	1,2	467.25	39.301
17277	C9H13N	3-methyl-N,N-dimethylaniline	121-72-2	70.1391	705.58	0.3800	385.15	705.58	1,2	485.15	45.077
17278	C9H13N	4-methyl-N,N-dimethylaniline	99-97-8	69.4681	705.58	0.3800	384.15	705.58	1,2	484.15	44.722
17279	C9H13N	2-propylaniline	1821-39-2	69.8772	705.58	0.3800	399.15	705.58	1,2	499.15	43.802
17280	C9H13N	N-propylaniline	622-80-0	68.7610	705.58	0.3800	395.15	705.58	1,2	495.15	43.418
17281	C9H13N	2,4,5-trimethylaniline	137-17-7	72.3273	705.58	0.3800	341.15	705.58	1,2	507.65	44.620
17282	C9H13N	2,4,6-trimethylaniline	88-05-1	71.7408	705.58	0.3800	270.65	705.58	1,2	505.65	44.427
17283	C9H13N	3-butylpyridine	539-32-2	67.3858	673.00	0.3800	379.75	673.00	1,2	479.75	41.942
17294	C9H13N	4-propylaniline	2696-84-6	72.6242	673.00	0.3800	397.15	673.00	1,2	497.15	43.610
17295	C9H13N	2,6-diethylpyridine	935-28-4	67.4397	673.00	0.3800	379.94	673.00	2	479.94	41.960
17297	C9H13N	2,3,5,6-tetramethylpyridine	3748-84-3	64.8571	673.00	0.3800	370.70	673.00	1,2	470.70	41.076
17388	C9H14	1-nonen-3-yne	57223-18-4	57.2889	595.00	0.3800	318.44	595.00	2	418.44	36.106
17389	C9H14	1-nonen-4-yne	31508-12-0	57.2889	595.00	0.3800	318.44	595.00	2	418.44	36.106
17390	C9H14	2-nonen-4-yne	90644-60-3	57.2889	595.00	0.3800	318.44	595.00	2	418.44	36.106
17391	C9H14	6,6-dimethyl-1-hepten-4-yne	31508-08-4	52.0542	595.00	0.3800	298.15	595.00	1,2	398.15	34.191
17392	C9H14	3-propyl-3-hexen-1-yne	688-52-8	54.8183	595.00	0.3800	309.15	595.00	1,2	409.15	35.228
17395.1	C9H14	ethylnorbene	15403-89-1	51.9880	625.00	0.3710	200.00	625.00	1,2	416.75	34.582
17395.2	C9H14	1-methyl-4-vinylcyclohexene	17699-86-4	58.0810	626.00	0.3857	223.00	626.00	1,2	425.15	37.463
17395.3	C9H14	propenyl cyclohexene	13511-13-2	58.8660	636.00	0.3853	199.00	636.00	1,2	431.65	38.007
17436	C9H14O	isophorone	78-59-1	65.5631	715.00	0.3800	265.05	715.00	1,2	488.35	42.370
17450	C9H14O	2-allylcyclohexanone	94-66-6	64.9345	690.00	0.3800	280.00	690.00	2	476.20	41.602
17457	C9H14O	2-amylfuran	3777-69-3	68.6758	650.00	0.3800	376.20	650.00	2	476.20	41.602
17513	C9H14O6	glyceryl triacetate	102-76-1	98.2616	704.00	0.3930	277.25	704.00	1,2	532.15	56.455
17518.1	C9H14O7	trilatic acid	78024-33-6	163.4900	777.00	0.4578	312.15	777.00	1,2	619.00	78.850
17520	C9H14S	2-isopentylthiophene	26963-33-7	63.4755	685.00	0.3800	369.15	685.00	1,2	469.15	40.928
17590	C9H16	1-butylcyclopentene	2423-01-0	57.7258	626.53	0.3800	166.78	626.53	1,2	429.15	37.217

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
17591	C9H16	4-isopropyl-1-methylcyclopentene	90769-70-3	50.2453	626.53	0.3800	315.65	626.53	1,2	415.65	33.219
17592	C9H16	3-methyl-1-isopropylcyclopentene	51115-02-7	48.2521	626.53	0.3800	311.65	626.53	1,2	411.65	32.130
17593	C9H16	1-nonyne	3452-09-3	58.2217	610.81	0.3800	223.16	610.81	1,2	423.96	37.120
17594	C9H16	2-nonyne	19447-29-1	58.8178	630.31	0.3800	296.79	630.31	1,2	435.05	37.680
17595	C9H16	3-nonyne	20184-89-8	58.1379	623.36	0.3800	296.79	623.36	1,2	430.25	37.245
17596	C9H16	4-nonyne	20184-91-2	56.7513	621.49	0.3800	327.15	621.49	1,2	427.15	36.486
17597	C9H16	7-methyl-3-octyne	37050-06-9	53.1673	621.49	0.3800	321.10	621.49	2	421.10	34.582
17598	C9H16	2,6-dimethyl-3-heptyne	19549-97-4	44.4748	621.49	0.3800	303.75	621.49	1,2	403.75	29.856
17599	C9H16	5,5-dimethyl-3-heptyne	23097-98-5	53.1673	621.49	0.3800	321.10	621.49	2	421.10	34.582
17605	C9H16	1,8-nonadiene	4900-30-5	54.9234	616.00	0.3800	315.65	616.00	1,2	415.65	35.842
17606	C9H16	2,7-nonadiene	51333-70-1	57.2192	616.00	0.3800	200.65	616.00	1,2	424.65	36.694
17607	C9H16	4-methyl-3,5-octadiene	36903-95-4	56.6994	616.00	0.3800	322.65	616.00	1,2	422.65	36.505
17608	C9H16	7-methyl-2,4-octadiene	2216-70-8	56.5703	616.00	0.3800	322.15	616.00	1,2	422.15	36.457
17609	C9H16	2,4-dimethyl-2,4-heptadiene	74421-05-9	53.8156	616.00	0.3800	311.15	616.00	1,2	411.15	35.417
17610	C9H16	2,6-dimethyl-1,3-heptadiene	2436-84-2	54.5513	616.00	0.3800	314.15	616.00	1,2	414.15	35.701
17611	C9H16	2,6-dimethyl-1,5-heptadiene	6709-39-3	55.0481	616.00	0.3800	203.15	616.00	1,2	416.15	35.890
17612	C9H16	3,5-dimethyl-2,4-heptadiene	101935-28-8	54.3048	616.00	0.3800	313.15	616.00	1,2	413.15	35.606
17613	C9H16	3-ethyl-2-methyl-1,5-hexadiene	73398-15-9	55.5501	616.00	0.3800	203.15	616.00	1,2	418.15	36.079
17615	C9H16	1,2,3-trimethylcyclohexene	72312-48-2	56.5261	620.00	0.3800	323.15	620.00	1,2	423.15	36.552
17616	C9H16	1,3,5-trimethylcyclohexene	3643-64-9	54.2794	620.00	0.3800	314.15	620.00	1,2	414.15	35.701
17617	C9H16	1,4,4-trimethylcyclohexene	3419-71-4	54.0361	620.00	0.3800	313.15	620.00	1,2	413.15	35.606
17618	C9H16	1,4,5-trimethylcyclohexene	20030-32-4	55.2650	620.00	0.3800	318.15	620.00	1,2	418.15	36.079
17619	C9H16	1,5,5-trimethylcyclohexene	503-46-8	54.0361	620.00	0.3800	313.15	620.00	1,2	413.15	35.606
17620	C9H16	1,5,6-trimethylcyclohexene	116724-18-6	54.0361	620.00	0.3800	313.15	620.00	1,2	413.15	35.606
17621	C9H16	1,6,6-trimethylcyclohexene	69745-49-9	55.5146	620.00	0.3800	319.15	620.00	1,2	419.15	36.173
17622	C9H16	1-ethyl-4-methylcyclohexene	62088-36-2	56.2712	620.00	0.3800	322.15	620.00	1,2	422.15	36.457
17627	C9H16	1-isopropyl-1-cyclohexene	4292-04-0	57.8475	620.00	0.3800	328.25	620.00	1,2	428.25	37.035
17628	C9H16	7-methyl-1,6-octadiene	42152-47-6	55.1731	616.00	0.3800	316.65	616.00	1,2	416.65	35.937
17629	C9H16	3,5,5-trimethylcyclohexene	933-12-0	52.5074	620.00	0.3800	181.60	620.00	1,2	406.75	35.002
17670	C9H16O	2-ethyl-2-methylcyclohexanone	17206-52-9	62.8444	690.00	0.3800	280.00	690.00	1,2	468.15	40.833
17671	C9H16O	2-isopropylcyclohexanone	1004-77-9	59.9614	690.00	0.3800	345.65	690.00	2	456.52	39.723
17672	C9H16O	4-isopropylcyclohexanone	5432-85-9	67.9147	690.00	0.3800	280.00	690.00	1,2	487.15	42.651
17673	C9H16O	2-propylcyclohexanone	94-65-5	63.3561	690.00	0.3800	280.00	690.00	1,2	470.15	41.024
17674	C9H16O	4-propylcyclohexanone	40649-36-3	67.6356	690.00	0.3800	280.00	690.00	1,2	486.15	42.555
17675	C9H16O	2,2,3-trimethylcyclohexanone	39257-08-4	61.8351	690.00	0.3800	280.00	690.00	1,2	464.15	40.451
17676	C9H16O	2,2,4-trimethylcyclohexanone	35413-38-8	59.9614	690.00	0.3800	330.15	690.00	2	456.52	39.723
17677	C9H16O	2,2,5-trimethylcyclohexanone	933-36-8	59.8713	690.00	0.3800	280.00	690.00	1,2	456.15	39.687
17678	C9H16O	2,2,6-trimethylcyclohexanone	2408-37-9	58.7971	690.00	0.3800	241.35	690.00	1,2	451.65	39.259
17679	C9H16O	2,3,6-trimethylcyclohexanone	42185-47-7	61.5857	690.00	0.3800	280.00	690.00	1,2	463.15	40.355
17680	C9H16O	2,4,4-trimethylcyclohexanone	2230-70-8	61.8351	690.00	0.3800	280.00	690.00	1,2	464.15	40.451
17681	C9H16O	2,4,5-trimethylcyclohexanone	51299-55-9	62.3374	690.00	0.3800	280.00	690.00	1,2	466.15	40.641
17682	C9H16O	2,4,6-trimethylcyclohexanone	90645-54-8	60.5995	690.00	0.3800	280.00	690.00	1,2	459.15	39.973
17683	C9H16O	3,3,5-trimethylcyclohexanone	873-94-9	61.3375	690.00	0.3800	280.00	690.00	1,2	462.15	40.260
17684	C9H16O	3,4,4-trimethylcyclohexanone	40441-35-8	59.9614	690.00	0.3800	280.00	690.00	2	456.52	39.723
17690	C9H16O	2-methyl-5-octen-4-one	17577-93-4	62.4287	655.00	0.3800	356.15	655.00	1,2	456.15	39.687
17691	C9H16O	2-methyl-7-octen-4-one	54298-97-4	62.5293	655.00	0.3800	356.52	655.00	2	456.52	39.723
17692	C9H16O	5-methyl-1-octen-3-one	116836-13-6	62.5293	655.00	0.3800	356.52	655.00	2	456.52	39.723
17693	C9H16O	7-methyl-5-octen-4-one	32064-78-1	62.5293	655.00	0.3800	356.52	655.00	2	456.52	39.723
17698	C9H16O	2-nonenal	2463-53-8	62.9549	650.00	0.3800	356.52	650.00	2	456.52	39.723
17699	C9H16O	trans-2-nonenal	18829-56-6	62.9549	650.00	0.3800	356.52	650.00	2	456.52	39.723
17704	C9H16O	2,6-dimethyl-5-heptenal	106-72-9	62.9549	650.00	0.3800	356.52	650.00	2	456.52	39.723
17705	C9H16O	(Z)-6-nonenal	2277-19-2	62.9549	650.00	0.3800	356.52	650.00	2	456.52	39.723
17706	C9H16O	trans-3-nonen-2-one	18402-83-0	62.5293	655.00	0.3800	356.52	655.00	2	456.52	39.723
17711	C9H16O2	allyl hexanoate	123-68-2	65.8485	628.00	0.3800	359.15	628.00	1,2	459.15	39.973
17716	C9H16O2	ethyl 2-methyl-2-hexenoate	26311-33-1	68.6065	628.00	0.3800	367.93	628.00	2	467.93	40.811
17717	C9H16O2	ethyl 2-methyl-3-hexenoate	21994-78-5	68.6065	628.00	0.3800	367.93	628.00	2	467.93	40.811
17718	C9H16O2	ethyl 3-methyl-3-hexenoate	21994-77-4	68.6065	628.00	0.3800	367.93	628.00	2	467.93	40.811
17719	C9H16O2	hexyl acrylate	2499-95-8	68.6065	628.00	0.3800	228.15	628.00	2	467.93	40.811
17724	C9H16O2	2-nonenoic acid	3760-11-0	72.6382	756.00	0.3800	425.00	756.00	2	525.00	46.291
17725	C9H16O2	3-nonenoic acid	4124-88-3	72.6382	756.00	0.3800	268.75	756.00	2	525.00	46.291
17726	C9H16O2	8-nonenoic acid	31642-67-8	72.6382	756.00	0.3800	275.65	756.00	2	525.00	46.291
17729	C9H16O2	2-ethylbutyl acrylate	3593-10-4	68.6065	628.00	0.3800	203.25	628.00	2	467.93	40.811
17734	C9H16O2	3,5-dimethyl-3-hydroxyhexane-4-carboxylic acid b-lactone	69928-30-9	72.6382	756.00	0.3800	425.00	756.00	2	525.00	46.291
17735	C9H16O2	2-ethylbutylacrylate	3953-10-4	85.6378	628.00	0.3800	412.15	628.00	1,2	512.15	45.053
17736	C9H16O2	cis-3-hexenyl propionate	33467-74-2	71.1722	628.00	0.3800	375.65	628.00	1,2	475.65	41.550
17737	C9H16O2	trans-2-hexenyl propionate	53398-80-4	68.6065	628.00	0.3800	367.93	628.00	2	467.93	40.811
17755	C9H16O4	azelaic acid	123-99-9	135.0820	811.00	0.3770	379.65	811.00	1,2	633.36	76.203
17785	C9H17Br	cis-1-bromo-1-nonene	39924-58-8	70.7571	666.86	0.3800	245.41	666.86	1,2	478.15	43.797
17786	C9H17Br	trans-1-bromo-1-nonene	53434-75-6	70.7571	666.86	0.3800	245.41	666.86	1,2	478.15	43.797
17790	C9H17Br3	1,1,1-tribromononane	62127-66-6	92.9946	777.84	0.3800	372.51	777.84	1,2	570.15	56.303
17791	C9H17Cl	cis-1-chloro-1-nonene	66688-72-0	67.9667	662.93	0.3800	215.53	662.93	1,2	474.15	42.170
17792	C9H17Cl	trans-1-chloro-1-nonene	66688-73-1	67.9667	662.93	0.3800	215.53	662.93	1,2	474.15	42.170
17793	C9H17Cl	(3-chloropropyl)cyclohexane	1124-62-5	70.8500	662.93	0.3800	220.35	662.93	1,2	487.85	42.718
17804	C9H17Cl3	1,1,1-trichlorononane	1071-84-7	76.2587	710.31	0.3800	282.87	710.31	1,2	517.15	46.493
17805	C9H17F	cis-1-fluoro-1-nonene	66688-74-2	58.1605	571.18	0.3800	217.76	571.18	2	408.75	36.067
17806	C9H17F	trans-1-fluoro-1-nonene	66688-75-3	58.1605	571.18	0.3800	217.76	571.18	2	408.75	36.067
17808	C9H17F3	1,1,1-trifluorononane	55757-34-1	61.0379	578.40	0.3800	289.56	578.40	1,2	421.15	37.210
17809	C9H17I	cis-1-iodo-1-nonene	27370-94-1	72.2421	708.62	0.3800	243.67	708.62	1,2	505.15	44.964
17810	C9H17I	trans-1-iodo-1-nonene	26143-08-8	72.2421	708.62	0.3800	243.67	708.62	1,2	505.15	44.964
17812	C9H17I3	1,1,1-triiodononane	---	100.2041	944.80	0.3800	367.29	944.80	2	681.51	61.663

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
17813	C9H17N	nonanenitrile	2243-27-8	76.4205	677.19	0.3800	238.95	677.19	1,2	497.55	46.155
17859	C9H18	butylcyclopentane	2040-95-1	56.5719	625.05	0.3800	165.18	625.05	1,2	429.76	36.359
17860	C9H18	isobutylcyclopentane	3788-32-7	55.7440	617.21	0.3800	157.93	617.21	1,2	421.10	36.057
17861	C9H18	sec-butylcyclopentane	4850-32-2	56.6327	626.59	0.3800	186.59	626.59	1,2	427.50	36.631
17862	C9H18	tert-butylcyclopentane	3875-52-3	53.6070	622.56	0.3800	177.35	622.56	1,2	418.00	35.119
17863	C9H18	1-methyl-1-propylcyclopentane	16631-63-3	55.2232	618.03	0.3800	225.49	618.03	1,2	419.15	35.893
17864	C9H18	1-methyl-cis-2-propylcyclopentane	932-43-4	56.4866	620.88	0.3800	169.15	620.88	1,2	425.73	36.387
17865	C9H18	1-methyl-trans-2-propylcyclopentane	932-44-5	55.6229	611.82	0.3800	153.15	611.82	1,2	419.52	35.830
17866	C9H18	1-methyl-cis-3-propylcyclopentane	2443-04-1	55.8495	614.20	0.3800	197.35	614.20	1,2	421.15	35.976
17867	C9H18	1-methyl-trans-3-propylcyclopentane	2443-03-0	55.8495	614.20	0.3800	197.35	614.20	1,2	421.15	35.976
17868	C9H18	1-methyl-1-isopropylcyclopentane	61828-00-0	54.6587	626.05	0.3800	210.49	626.05	1,2	421.15	35.755
17869	C9H18	1-methyl-cis-2-isopropylcyclopentane	61868-01-7	55.0040	619.02	0.3800	182.35	619.02	1,2	421.15	35.659
17870	C9H18	1-methyl-trans-2-isopropylcyclopentane	61828-01-1	54.0452	608.73	0.3800	182.35	608.73	1,2	414.15	35.038
17871	C9H18	1-methyl-cis-3-isopropylcyclopentane	61828-02-2	54.1822	610.20	0.3800	182.35	610.20	1,2	415.15	35.126
17872	C9H18	1-methyl-trans-3-isopropylcyclopentane	61828-03-3	54.1822	610.20	0.3800	182.35	610.20	1,2	415.15	35.126
17873	C9H18	1,1-diethylcyclopentane	2721-38-2	55.8450	624.67	0.3800	225.49	624.67	1,2	423.65	36.297
17874	C9H18	1,cis-2-diethylcyclopentane	932-39-8	56.6230	622.31	0.3800	155.15	622.31	1,2	426.71	36.474
17875	C9H18	1,trans-2-diethylcyclopentane	932-40-1	55.7842	613.51	0.3800	178.15	613.51	1,2	420.68	35.934
17876	C9H18	1,3-diethylcyclopentane	19398-75-5	57.7003	610.99	0.3800	323.15	610.99	1,2	423.15	36.857
17877	C9H18	1,cis-3-diethylcyclopentane	62016-59-5	56.1277	617.12	0.3800	197.35	617.12	1,2	423.15	36.155
17878	C9H18	1,trans-3-diethylcyclopentane	62016-60-8	56.1277	617.12	0.3800	197.35	617.12	1,2	423.15	36.155
17879	C9H18	1,1-dimethyl-2-ethylcyclopentane	54549-80-3	53.3915	607.98	0.3800	221.25	607.98	1,2	411.15	34.782
17880	C9H18	1,1-dimethyl-3-ethylcyclopentane	62016-61-9	52.8467	602.06	0.3800	221.25	602.06	1,2	407.15	34.427
17881	C9H18	1,cis-2-dimethyl-1-ethylcyclopentane	62016-63-1	54.2092	616.85	0.3800	221.25	616.85	1,2	417.15	35.314
17882	C9H18	1,trans-2-dimethyl-1-ethylcyclopentane	62016-62-0	54.2092	616.85	0.3800	221.25	616.85	1,2	417.15	35.314
17883	C9H18	1,cis-2-dimethyl-cis-3-ethylcyclopentane	---	55.6530	621.75	0.3800	193.11	621.75	1,2	425.15	35.931
17884	C9H18	1,cis-2-dimethyl-trans-3-ethylcyclopentane	---	54.6920	611.51	0.3800	193.11	611.51	1,2	418.15	35.311
17885	C9H18	1,trans-2-dimethyl-cis-3-ethylcyclopentane	---	53.7317	601.27	0.3800	193.11	601.27	1,2	411.15	34.691
17886	C9H18	1,trans-2-dimethyl-trans-3-ethylcyclopentane	---	54.6920	611.51	0.3800	193.11	611.51	1,2	418.15	35.311
17887	C9H18	1,cis-2-dimethyl-cis-4-ethylcyclopentane	62016-64-2	54.9665	614.43	0.3800	193.11	614.43	1,2	420.15	35.488
17888	C9H18	1,cis-2-dimethyl-trans-4-ethylcyclopentane	62016-65-3	54.9665	614.43	0.3800	193.11	614.43	1,2	420.15	35.488
17889	C9H18	1,trans-2-dimethyl-cis-4-ethylcyclopentane	62016-66-4	54.0060	604.20	0.3800	193.11	604.20	1,2	413.15	34.868
17890	C9H18	1,cis-3-dimethyl-1-ethylcyclopentane	62016-68-6	53.1191	605.02	0.3800	221.25	605.02	1,2	409.15	34.604
17891	C9H18	1,trans-3-dimethyl-1-ethylcyclopentane	62016-67-5	53.1191	605.02	0.3800	221.25	605.02	1,2	409.15	34.604
17892	C9H18	1,cis-3-dimethyl-cis-2-ethylcyclopentane	19903-00-5	55.6530	621.75	0.3800	193.11	621.75	1,2	425.15	35.931
17893	C9H18	1,cis-3-dimethyl-trans-2-ethylcyclopentane	19902-98-8	53.5946	599.81	0.3800	193.11	599.81	1,2	410.15	34.602
17894	C9H18	1,trans-3-dimethyl-cis-2-ethylcyclopentane	19902-99-9	54.5548	610.05	0.3800	193.11	610.05	1,2	417.15	35.222
17895	C9H18	1,cis-3-dimethyl-cis-4-ethylcyclopentane	---	54.6920	611.51	0.3800	193.11	611.51	1,2	418.15	35.311
17896	C9H18	1,cis-3-dimethyl-trans-4-ethylcyclopentane	---	53.5946	599.81	0.3800	193.11	599.81	1,2	410.15	34.602
17897	C9H18	1,trans-3-dimethyl-cis-4-ethylcyclopentane	---	52.0000	650.00	0.3800	193.11	678.78	2	412.00	35.497
17898	C9H18	1,trans-3-dimethyl-trans-4-ethylcyclopentane	---	54.6920	611.51	0.3800	193.11	611.51	1,2	418.15	35.311
17899	C9H18	1,1,2,2-tetramethylcyclopentane	52688-89-8	51.6829	609.38	0.3800	245.15	609.38	1,2	406.15	34.051
17900	C9H18	1,1,cis-2,cis-3-tetramethylcyclopentane	62016-70-0	52.6820	609.74	0.3800	217.01	609.74	1,2	411.15	34.398
17901	C9H18	1,1,cis-2,trans-3-tetramethylcyclopentane	---	51.6065	597.88	0.3800	217.01	597.88	1,2	403.15	33.696
17902	C9H18	1,1,cis-2,cis-4-tetramethylcyclopentane	62016-72-2	51.6065	597.88	0.3800	217.01	597.88	1,2	403.15	33.696
17903	C9H18	1,1,cis-2,trans-4-tetramethylcyclopentane	---	51.6065	597.88	0.3800	217.01	597.88	1,2	403.15	33.696
17904	C9H18	1,1,3,3-tetramethylcyclopentane	50876-33-0	49.6759	586.82	0.3800	184.86	586.82	1,2	391.11	32.728
17905	C9H18	1,1,cis-3,cis-4-tetramethylcyclopentane	20309-77-7	52.0097	602.33	0.3800	166.75	602.33	1,2	406.15	33.959
17906	C9H18	1,1,cis-3,trans-4-tetramethylcyclopentane	---	50.4783	585.42	0.3800	217.01	585.42	1,2	394.75	32.959
17907	C9H18	1,2,2,cis-3-tetramethylcyclopentane	62016-73-3	52.6820	609.74	0.3800	217.01	609.74	1,2	411.15	34.398
17908	C9H18	1,2,2,trans-3-tetramethylcyclopentane	---	52.6820	609.74	0.3800	217.01	609.74	1,2	411.15	34.398
17909	C9H18	1,cis-2,cis-3,cis-4-tetramethylcyclopentane	2532-65-2	53.9691	613.22	0.3800	188.87	613.22	1,2	418.15	34.924
17910	C9H18	1,cis-2,cis-3,trans-4-tetramethylcyclopentane	2532-69-6	53.0210	602.95	0.3800	188.87	602.95	1,2	411.15	34.310
17911	C9H18	1,cis-2,trans-3,cis-4-tetramethylcyclopentane	2532-68-5	52.0738	592.68	0.3800	188.87	592.68	1,2	404.15	33.697
17912	C9H18	1,cis-2,trans-3,trans-4-tetramethylcyclopentane	2532-64-1	53.0210	602.95	0.3800	188.87	602.95	1,2	411.15	34.310
17913	C9H18	1,trans-2,cis-3,trans-4-tetramethylcyclopentane	2532-67-4	51.5869	587.41	0.3800	188.87	587.41	1,2	400.55	33.382
17914	C9H18	1,trans-2,trans-3,cis-4-tetramethylcyclopentane	19907-40-5	52.0738	592.68	0.3800	188.87	592.68	1,2	404.15	33.697
17915	C9H18	1-methyl-2-isopropylcyclopentane	89223-57-4	53.3862	610.99	0.3800	316.15	610.99	1,2	416.15	34.579
17916	C9H18	propylcyclohexane	1678-92-8	59.9201	639.15	0.4440	178.25	639.15	1,2	429.90	36.497
17917	C9H18	isopropylcyclohexane	696-29-7	56.9596	627.00	0.3840	183.76	627.00	1,2	427.91	36.665
17918	C9H18	1-methyl-1-ethylcyclohexane	4926-90-3	55.2306	633.38	0.3800	221.97	633.38	1,2	425.31	36.180
17919	C9H18	1-methyl-cis-2-ethylcyclohexane	4923-77-7	56.1181	632.03	0.3800	193.83	632.03	1,2	429.25	36.433
17920	C9H18	1-methyl-trans-2-ethylcyclohexane	4923-78-8	55.5149	625.55	0.3800	193.83	625.55	1,2	424.85	36.041
17921	C9H18	1-methyl-cis-3-ethylcyclohexane	19489-10-2	55.0078	620.10	0.3800	193.83	620.10	1,2	421.15	35.712
17922	C9H18	1-methyl-trans-3-ethylcyclohexane	4926-76-5	55.4189	624.52	0.3800	193.83	624.52	1,2	424.15	35.979
17923	C9H18	1-methyl-cis-4-ethylcyclohexane	4926-78-7	55.4189	624.52	0.3800	193.83	624.52	1,2	424.15	35.979
17924	C9H18	1-methyl-trans-4-ethylcyclohexane	6236-88-0	55.0078	620.10	0.3800	193.83	620.10	1,2	421.15	35.712
17925	C9H18	1,1,2-trimethylcyclohexane	7094-26-0	53.5581	624.87	0.3800	244.15	624.87	1,2	418.35	35.165
17926	C9H18	1,1,3-trimethylcyclohexane	3073-66-3	52.4067	612.06	0.3800	207.40	612.06	1,2	409.78	34.409
17927	C9H18	1,1,4-trimethylcyclohexane	7094-27-1	52.1885	609.63	0.3800	217.73	609.63	1,2	408.15	34.266
17928	C9H18	1,2,3-trimethylcyclohexane	1678-97-3	50.3489	621.31	0.3800	315.15	621.31	1,2	415.15	33.108
17929	C9H18	1,cis-2,cis-3-trimethylcyclohexane	1839-88-9	54.9538	629.26	0.3800	189.59	629.26	1,2	426.15	35.758
17930	C9H18	1,cis-2,trans-3-trimethylcyclohexane	7667-55-2	54.6832	626.30	0.3800	189.59	626.30	1,2	424.15	35.582
17931	C9H18	1,trans-2,cis-3-trimethylcyclohexane	1678-81-5	53.7363	615.97	0.3800	189.59	615.97	1,2	417.15	34.966
17932	C9H18	1,2,4-trimethylcyclohexane, isomers	2234-75-5	50.2966	621.31	0.3800	186.85	621.31	1,2	415.05	33.080
17933	C9H18	1,cis-2,cis-4-trimethylcyclohexane	1678-80-4	54.2773	621.87	0.3800	189.59	621.87	1,2	421.15	35.318
17934	C9H18	1,cis-2,trans-4-trimethylcyclohexane	7667-58-5	54.2773	621.87	0.3800	189.59	621.87	1,2	421.15	35.318
17935	C9H18	1,trans-2,cis-4-trimethylcyclohexane	7667-59-6	53.8716	617.44	0.3800	189.59	617.44	1,2	418.15	35.054
17936	C9H18	1,trans-2,trans-4-trimethylcyclohexane	7667-60-9	53.3605	611.86	0.3800	187.15	611.86	1,2	414.37	34.722
17937	C9H18	1,3,5,-trimethylcyclohexane	1839-63-0	48.2389	621.31	0.3800	311.00	621.31	1,2	411.00	31.961

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
17938	C9H18	cis,cis-1,3,5-trimethylcyclohexane	1795-27-3	51.4846	607.86	0.3800	223.46	607.86	1,2	411.66	33.501
17939	C9H18	cis,trans-1,3,5-trimethylcyclohexane	1795-26-2	54.4440	602.20	0.3800	188.76	602.20	1,2	413.70	35.016
17940	C9H18	1-ethyl-2-methylcyclohexane	3728-54-9	56.1999	621.31	0.3800	325.50	621.31	1,2	425.50	36.239
17941	C9H18	cyclononane	293-55-0	58.5157	682.00	0.3800	284.15	682.00	1,2	451.55	38.745
17942	C9H18	1-nonene	124-11-8	61.4073	593.25	0.4110	191.78	593.25	1,2	420.02	37.025
17943	C9H18	trans-2-nonene	6434-78-2	57.1936	593.62	0.3800	317.65	593.62	1,2	417.65	36.032
17944	C9H18	trans-3-nonene	20063-92-7	58.0220	593.62	0.3800	320.65	593.62	1,2	420.65	36.315
17945	C9H18	4-nonene; (cis+trans)	2198-23-4	57.5783	593.62	0.3800	319.05	593.62	1,2	419.05	36.164
17946	C9H18	2-methyl-1-octene	4588-18-5	57.4620	594.00	0.3800	195.47	594.00	1,2	417.80	36.209
17947	C9H18	3-methyl-2-octene	113426-22-5	57.3306	593.62	0.3800	318.15	593.62	1,2	418.15	36.079
17948	C9H18	7-methyl-3-octene	86668-33-9	55.6106	593.62	0.3800	315.15	593.62	1,2	415.15	35.223
17948.1	C9H18	7-methyl-1-octene	13151-06-9	57.3900	579.00	0.3907	194.00	579.00	1,2	408.15	35.622
17949	C9H18	2-methyl-4-octene	64501-77-5	53.6839	593.62	0.3800	312.15	593.62	1,2	412.15	34.218
17950	C9H18	2,3-dimethyl-2-heptene	3074-64-4	57.3855	593.62	0.3800	164.65	593.62	1,2	418.35	36.098
17951	C9H18	2,6-dimethylhept-3-ene	2738-18-3	44.1907	593.62	0.3800	294.80	593.62	1,2	394.80	29.162
17955	C9H18Br2	1,1-dibromononane	62168-27-8	84.2632	729.44	0.3800	295.29	729.44	1,2	533.15	51.169
17956	C9H18Br2	1,2-dibromononane	73642-91-8	81.5308	729.44	0.3800	445.65	729.44	2	545.65	48.287
17957	C9H18Br2	1,9-dibromononane	4549-33-1	85.8431	729.44	0.3800	250.65	729.44	1,2	558.15	49.498
17959	C9H18Cl2	1,1-dichlorononane	821-88-5	74.0977	688.79	0.3800	235.53	688.79	1,2	501.15	45.206
17960	C9H18Cl2	2,6-dichloro-2,6-dimethylheptane	35951-36-1	77.2076	688.79	0.3800	316.15	688.79	2	517.15	45.534
17961	C9H18Cl2	1,9-dichlorononane	821-99-8	82.8495	688.79	0.3800	433.15	688.79	1,2	533.15	47.078
17964	C9H18F2	1,1-difluorononane	62127-42-8	62.6007	602.20	0.3800	239.99	602.20	1,2	436.15	38.368
17967	C9H18I2	1,1-diiodononane	66703-05-7	87.1580	817.53	0.3800	291.81	817.53	2	591.16	53.504
17997	C9H18O	1-nonanal	124-19-6	72.5477	640.00	0.3760	255.15	640.00	1,2	468.15	44.250
17998	C9H18O	diisobutyl ketone	108-83-8	66.1335	615.00	0.4060	227.17	615.00	1,2	441.41	39.572
17999	C9H18O	2-nonanone	821-55-6	70.2656	644.29	0.3800	265.65	644.29	1,2	467.15	43.018
18000	C9H18O	di-tert-butyl ketone	815-24-7	50.9714	629.65	0.3800	247.95	629.65	1,2	425.15	33.245
18001	C9H18O	3,5-dimethyl-4-heptanone	19549-84-9	56.7088	629.65	0.3800	335.15	629.65	1,2	435.15	36.289
18002	C9H18O	3-methyl-2-octanone	6137-08-2	64.9114	629.65	0.3800	356.62	629.65	2	456.62	39.732
18003	C9H18O	3-methyl-4-octanone	20754-04-5	62.1656	629.65	0.3800	347.15	629.65	1,2	447.15	38.830
18004	C9H18O	4-methyl-3-octanone	6137-15-1	64.9114	629.65	0.3800	356.62	629.65	2	456.62	39.732
18005	C9H18O	5-methyl-2-octanone	58654-67-4	64.9114	629.65	0.3800	356.62	629.65	2	456.62	39.732
18006	C9H18O	7-methyl-3-octanone	5408-57-1	64.6222	629.65	0.3800	355.65	629.65	1,2	455.65	39.640
18007	C9H18O	7-methyl-4-octanone	20809-46-5	63.3061	629.65	0.3800	351.15	629.65	1,2	451.15	39.211
18008	C9H18O	3-nonanone	925-78-0	66.8992	629.65	0.3800	265.15	629.65	1,2	463.15	40.355
18009	C9H18O	4-nonanone	4485-09-0	66.1281	629.65	0.3800	360.65	629.65	1,2	460.65	40.117
18010	C9H18O	5-nonanone	502-56-7	66.4197	629.65	0.3800	269.35	629.65	1,2	461.60	40.207
18011	C9H18O	1-ethyl-2-methylcyclohexanol	102370-18-3	62.1602	655.00	0.3800	355.15	655.00	1,2	455.15	39.592
18012	C9H18O	1-ethyl-3-methylcyclohexanol	62067-44-1	62.5560	655.00	0.3800	356.62	655.00	2	456.62	39.732
18013	C9H18O	1-isopropylcyclohexanol	3552-01-0	60.5782	655.00	0.3800	299.15	655.00	1,2	449.15	39.021
18014	C9H18O	cis-2-isopropylcyclohexanol	10488-25-2	62.5560	655.00	0.3800	325.65	655.00	2	456.62	39.732
18015	C9H18O	cis-4-isopropylcyclohexanol	22900-08-9	62.5560	655.00	0.3800	311.15	655.00	2	456.62	39.732
18016	C9H18O	trans-4-isopropylcyclohexanol	15890-36-5	62.5560	655.00	0.3800	283.15	655.00	2	456.62	39.732
18017	C9H18O	1-propylcyclohexanol	5445-24-9	62.5560	655.00	0.3800	356.62	655.00	2	456.62	39.732
18018	C9H18O	cis-2-propylcyclohexanol	5857-86-3	67.5234	655.00	0.3800	374.15	655.00	1,2	474.15	41.406
18019	C9H18O	trans-2-propylcyclohexanol	5846-43-5	62.5560	655.00	0.3800	356.62	655.00	2	456.62	39.732
18020	C9H18O	cis-4-propylcyclohexanol	98790-22-8	62.5560	655.00	0.3800	356.62	655.00	2	456.62	39.732
18021	C9H18O	trans-4-propylcyclohexanol	77866-58-1	69.6529	655.00	0.3800	381.15	655.00	1,2	481.15	42.076
18022	C9H18O	1,2,2-trimethylcyclohexanol	31720-69-1	62.5560	655.00	0.3800	356.62	655.00	2	456.62	39.732
18023	C9H18O	1,2,6-trimethylcyclohexanol	96244-13-2	62.5560	655.00	0.3800	356.62	655.00	2	456.62	39.732
18024	C9H18O	1,3,5-trimethylcyclohexanol	90760-75-1	61.8931	655.00	0.3800	354.15	655.00	1,2	454.15	39.497
18025	C9H18O	2,2,5-trimethylcyclohexanol	73210-25-0	63.7931	655.00	0.3800	361.15	655.00	1,2	461.15	40.164
18026	C9H18O	2,2,6-trimethylcyclohexanol	10130-91-3	63.5173	655.00	0.3800	324.15	655.00	1,2	460.15	40.069
18027	C9H18O	2,3,3-trimethylcyclohexanol	116724-17-5	66.3459	655.00	0.3800	301.15	655.00	1,2	470.15	41.024
18028	C9H18O	2,3,6-trimethylcyclohexanol	58210-03-0	65.7674	655.00	0.3800	368.15	655.00	1,2	468.15	40.833
18029	C9H18O	cis-3,3,5-trimethylcyclohexanol	933-48-2	67.8222	655.00	0.3800	310.45	655.00	1,2	475.15	41.502
18030	C9H18O	trans-3,3,5-trimethylcyclohexanol	767-54-4	64.1261	655.00	0.3800	328.95	655.00	1,2	462.35	40.279
18031	C9H18O	3-methyl-4-octen-3-ol	90676-55-4	61.3851	629.00	0.3800	344.15	629.00	1,2	444.15	38.545
18032	C9H18O	4-methyl-1-octen-4-ol	62108-06-9	63.3687	629.00	0.3800	351.15	629.00	1,2	451.15	39.211
18033	C9H18O	5-methyl-5-octen-4-ol	36903-92-1	64.9784	629.00	0.3800	356.62	629.00	2	456.62	39.732
18034	C9H18O	7-methyl-2-octen-4-ol	4798-64-5	64.9784	629.00	0.3800	356.62	629.00	2	456.62	39.732
18035	C9H18O	cis-2-methyl-3-octen-2-ol	18521-07-8	63.0803	629.00	0.3800	350.15	629.00	1,2	450.15	39.116
18036	C9H18O	1-nonen-3-ol	21964-44-3	67.9999	629.65	0.3800	366.65	629.65	1,2	466.65	40.689
18037	C9H18O	8-nonen-1-ol	13038-21-6	64.9114	629.65	0.3800	356.62	629.65	2	456.62	39.732
18042	C9H18O	cis-3-nonen-1-ol	10340-23-5	64.9114	629.65	0.3800	356.62	629.65	2	456.62	39.732
18043	C9H18O	3,5,5-trimethylcyclohexanol	116-02-9	65.9114	655.00	0.3800	306.65	655.00	1,2	468.65	40.880
18044	C9H18O	3,5,5-trimethylhexanal	5435-64-3	63.8883	640.00	0.3800	356.62	640.00	2	456.62	39.732
18045	C9H18O	2,6-dimethyl-3-heptanone	19549-83-8	61.5636	629.65	0.3800	345.00	629.65	1,2	445.00	38.626
18046	C9H18O	4-(1-methylethyl)cyclohexanol	4621-04-9	48.3866	655.00	0.3800	296.15	655.00	1,2	396.15	34.003
18047	C9H18O	2-methyl-3-octanone	923-28-4	64.7261	629.65	0.3800	356.00	629.65	1,2	456.00	39.673
18048	C9H18O	2-methyloctanal	7786-29-0	63.8883	640.00	0.3800	356.62	640.00	2	456.62	39.732
18049	C9H18O	3-methyl-1-octen-ol	24089-00-7	64.9784	629.00	0.3800	356.62	629.00	2	456.62	39.732
18052	C9H18O2	nonanoic acid	112-05-0	110.8618	703.00	0.4680	285.65	703.00	1,2	528.75	57.713
18053	C9H18O2	2-ethylheptanoic acid	3274-29-1	48.2860	703.00	0.3800	356.91	703.00	2	456.91	32.404
18054	C9H18O2	3-ethyl-3-methylhexanoic acid	50902-82-4	48.2860	703.00	0.3800	356.91	703.00	2	456.91	32.404
18055	C9H18O2	2-ethyl-3-methylhexanoic acid	74581-94-5	71.5551	703.00	0.3800	404.15	703.00	1,2	504.15	44.283
18056	C9H18O2	3-methyloctanoic acid	6061-10-5	48.2860	703.00	0.3800	356.91	703.00	2	456.91	32.404
18057	C9H18O2	2-methyloctanoic acid	3004-93-1	48.2860	703.00	0.3800	356.91	703.00	2	456.91	32.404
18058	C9H18O2	octyl formate	112-32-3	77.3395	645.00	0.4250	234.05	645.00	1,2	471.95	44.214
18059	C9H18O2	heptyl acetate	112-06-1	67.5660	643.90	0.3800	222.95	643.90	1,2	465.55	41.482

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
18060	C9H18O2	4-heptyl acetate	5921-84-6	54.3525	643.90	0.3800	344.15	643.90	1,2	444.15	34.838
18061	C9H18O2	hexyl propanoate	2445-76-3	66.8311	640.00	0.3800	215.65	640.00	1,2	463.15	40.994
18062	C9H18O2	pentyl butanoate	540-18-1	64.7507	636.70	0.3800	200.15	636.70	1,2	458.15	39.941
18063	C9H18O2	1-methylbutyl butanoate	60415-61-4	73.7723	610.00	0.3800	218.02	610.00	1,2	455.15	43.816
18064	C9H18O2	2-methylbutyl butanoate	51115-64-1	68.1996	620.00	0.3800	218.02	620.00	2	452.15	41.509
18065	C9H18O2	3-methylbutyl butanoate	106-27-4	68.5251	619.00	0.3800	218.02	619.00	1,2	452.15	41.638
18066	C9H18O2	1-ethylpropyl butanoate	---	80.3776	610.00	0.3800	218.02	610.00	2	463.10	46.793
18067	C9H18O2	1,1-dimethylpropyl butanoate	2050-00-2	81.4658	603.00	0.3800	235.44	603.00	2	460.31	47.111
18068	C9H18O2	1,2-dimethylpropyl butanoate	88736-68-9	80.6430	608.00	0.3800	203.02	608.00	2	462.66	46.815
18069	C9H18O2	2,2-dimethylpropyl butanoate	23361-69-5	78.4674	607.00	0.3800	235.44	607.00	2	460.31	45.741
18070	C9H18O2	isopentyl 2-methylpropanoate	2050-01-3	53.2851	640.00	0.3800	341.65	640.00	1,2	441.65	34.141
18071	C9H18O2	butyl valerate	591-68-4	66.3300	629.00	0.3210	180.35	629.00	1,2	459.65	43.529
18072	C9H18O2	butyl 2-methylbutanoate	15706-73-7	65.2144	614.21	0.3800	352.15	614.21	1,2	452.15	39.306
18073	C9H18O2	butyl 3-methylbutanoate	109-19-3	66.7180	614.21	0.3800	356.91	614.21	2	456.91	39.760
18074	C9H18O2	sec-butyl pentanoate	116836-32-9	62.3667	629.00	0.3800	347.65	629.00	1,2	447.65	38.878
18075	C9H18O2	isobutyl 3-methylbutanoate	589-59-3	62.0586	614.21	0.3800	341.65	614.21	1,2	441.65	38.307
18076	C9H18O2	propyl hexanoate	626-77-7	66.0455	629.00	0.3800	204.45	629.00	1,2	460.15	40.069
18077	C9H18O2	isobutyl pentanoate	10588-10-0	63.6589	629.00	0.3800	352.15	629.00	1,2	452.15	39.306
18078	C9H18O2	ethyl heptanoate	106-30-9	66.0455	629.00	0.3800	207.05	629.00	1,2	460.15	40.069
18079	C9H18O2	ethyl 3-methylhexanoate	41692-47-1	63.0803	629.00	0.3800	350.15	629.00	1,2	450.15	39.116
18080	C9H18O2	ethyl 4-methylhexanoate	1561-10-0	63.9508	629.00	0.3800	353.15	629.00	1,2	453.15	39.402
18081	C9H18O2	methyl octanoate	111-11-5	67.8851	629.00	0.3800	233.15	629.00	1,2	466.05	40.632
18082	C9H18O2	3,5,5-trimethylhexanoic acid	3302-10-1	48.2860	703.00	0.3800	356.91	703.00	2	456.91	32.404
18083	C9H18O2	7-methyloctanoic acid	693-19-6	48.2860	703.00	0.3800	356.91	703.00	2	456.91	32.404
18087	C9H18O2	4-octanecarboxylic acid	3274-28-0	22.1726	703.00	0.3800	258.15	703.00	1,2	358.15	16.915
18099.1	C9H18O3	triacetone alcohol	3682-91-5	109.5000	618.00	0.3610	330.40	618.00	1,2	486.00	62.714
18111	C9H18S	thiacyclodecane	6048-83-5	66.8848	771.03	0.3800	271.68	771.03	1,2	512.15	44.179
18115	C9H19Br	1-bromononane	693-58-3	74.5066	682.65	0.3800	244.15	682.65	1,2	494.55	45.653
18117	C9H19Cl	1-chlorononane	2473-01-0	69.7282	661.88	0.3800	233.75	661.88	1,2	478.37	42.826
18118	C9H19Cl	3-chloro-3-ethyl-2,2-dimethylpentane	86661-53-2	65.8641	661.88	0.3800	370.76	661.88	2	470.76	41.082
18119	C9H19Cl	3-chloro-3-ethylheptane	28320-89-0	65.8641	661.88	0.3800	370.76	661.88	2	470.76	41.082
18120	C9H19Cl	3-chloro-3-methyloctane	28320-88-9	65.8641	661.88	0.3800	370.76	661.88	2	470.76	41.082
18121	C9H19Cl	4-chloro-4-methyloctane	36903-89-6	65.8641	661.88	0.3800	370.76	661.88	2	470.76	41.082
18122	C9H19Cl	2-chlorononane	2216-36-6	60.3538	661.88	0.3800	363.15	661.88	1,2	463.15	38.208
18123	C9H19Cl	5-chlorononane	28123-70-8	65.8641	661.88	0.3800	370.76	661.88	2	470.76	41.082
18124	C9H19Cl	3-chloro-2,2,3-trimethylhexane	102449-95-6	65.8641	661.88	0.3800	370.76	661.88	2	470.76	41.082
18127	C9H19F	1-fluorononane	463-18-3	64.0384	602.90	0.3800	233.15	602.90	1,2	438.15	39.115
18129	C9H19I	1-iodononane	4282-42-2	91.7507	683.84	0.3800	253.15	683.84	1,2	518.15	53.537
18139	C9H19N	cyclohexylisopropylamine	1195-42-2	58.0122	662.00	0.3800	340.94	662.00	2	440.94	38.239
18143	C9H19N	3,3,5-trimethylcyclohexylamine	15901-42-5	61.0804	662.00	0.3800	193.25	662.00	1,2	453.15	39.402
18155	C9H19NO2	1-nitrononane	2216-21-9	83.6295	703.70	0.3800	334.30	703.70	1,2	522.15	49.977
18176	C9H20	nonane	111-84-2	59.3778	595.65	0.3770	219.63	595.65	1,2	423.97	37.149
18177	C9H20	2-methyloctane	3221-61-2	59.5209	586.75	0.3970	192.78	586.75	1,2	416.43	36.426
18178	C9H20	3-methyloctane	2216-33-3	59.2800	590.15	0.3970	165.55	590.15	1,2	417.38	36.401
18179	C9H20	4-methyloctane	2216-34-4	58.5672	587.65	0.3920	159.95	587.65	1,2	415.59	36.186
18180	C9H20	3-ethylheptane	15869-80-4	57.6081	590.00	0.3820	158.25	590.00	1,2	416.35	36.106
18181	C9H20	4-ethylheptane	2216-32-2	58.5410	584.95	0.3800	159.96	584.95	1,2	414.36	36.652
18182	C9H20	2,2-dimethylheptane	1071-26-7	56.7200	576.80	0.3960	160.15	576.80	1,2	405.84	35.043
18183	C9H20	2,3-dimethylheptane	3074-71-3	57.1711	589.60	0.3800	160.16	589.60	1,2	413.66	36.108
18184	C9H20	2,4-dimethylheptane	2213-23-2	56.1492	576.80	0.3800	160.16	576.80	1,2	406.05	35.355
18185	C9H20	2,5-dimethylheptane	2216-30-0	56.5582	581.10	0.3800	160.16	581.10	1,2	409.16	35.606
18186	C9H20	2,6-dimethylheptane	1072-05-5	58.1071	579.00	0.4060	170.25	579.00	1,2	408.36	35.384
18187	C9H20	3,4-dimethylheptane	922-28-1	57.3822	591.90	0.3800	170.26	591.90	1,2	413.76	36.359
18188	C9H20	3,5-dimethylheptane	926-82-9	56.4416	583.20	0.3800	170.26	583.20	1,2	409.16	35.648
18189	C9H20	4,4-dimethylheptane	1068-19-5	55.6949	585.40	0.3800	170.26	585.40	1,2	408.36	35.355
18190	C9H20	3-ethyl-2-methylhexane	16789-46-1	56.7941	588.10	0.3800	160.16	588.10	1,2	411.16	35.982
18191	C9H20	4-ethyl-2-methylhexane	3074-75-7	56.4472	580.00	0.3800	160.16	580.00	1,2	406.96	35.648
18192	C9H20	3-ethyl-3-methylhexane	3074-76-8	55.9315	597.50	0.3800	160.16	597.50	1,2	413.76	35.731
18193	C9H20	3-ethyl-4-methylhexane	3074-77-9	57.2713	593.70	0.3800	160.16	593.70	1,2	413.56	36.401
18194	C9H20	2,2,3-trimethylhexane	16747-25-4	54.3763	588.00	0.3800	153.16	588.00	1,2	406.75	34.769
18195	C9H20	2,2,4-trimethylhexane	16747-26-5	53.5424	573.50	0.3800	153.00	573.50	1,2	399.69	34.016
18196	C9H20	2,2,5-trimethylhexane	3522-94-9	54.0455	568.05	0.3960	167.39	568.05	1,2	397.24	33.581
18197	C9H20	2,3,3-trimethylhexane	16747-28-7	54.5407	596.00	0.3800	156.36	596.00	1,2	410.84	34.978
18198	C9H20	2,3,4-trimethylhexane	921-47-1	55.9275	594.50	0.3800	156.36	594.50	1,2	412.20	35.690
18199	C9H20	2,3,5-trimethylhexane	1069-53-0	54.8934	579.20	0.3800	145.36	579.20	1,2	404.50	34.811
18200	C9H20	2,4,4-trimethylhexane	16747-30-1	53.8350	581.50	0.3800	159.78	581.50	1,2	403.81	34.309
18201	C9H20	3,3,4-trimethylhexane	16747-31-2	54.6297	602.30	0.3800	171.96	602.30	1,2	413.62	35.146
18202	C9H20	3,3-diethylpentane	1067-20-5	53.6222	610.05	0.3600	240.12	610.05	1,2	419.34	35.282
18203	C9H20	2,2-dimethyl-3-ethylpentane	16747-32-3	53.7489	590.00	0.3820	173.68	590.00	1,2	406.99	34.369
18204	C9H20	2,3-dimethyl-3-ethylpentane	16747-33-4	55.0160	606.80	0.3800	173.67	606.80	1,2	417.86	35.313
18205	C9H20	2,4-dimethyl-3-ethylpentane	1068-87-7	54.2456	591.00	0.3770	150.79	591.00	1,2	409.87	34.733
18206	C9H20	2,2,3,3-tetramethylpentane	7154-79-2	53.9244	610.85	0.3960	263.26	610.85	1,2	413.44	34.476
18207	C9H20	2,2,3,4-tetramethylpentane	1186-53-4	55.2572	592.15	0.4140	152.06	592.15	1,2	406.18	34.210
18208	C9H20	2,2,4,4-tetramethylpentane	1070-87-7	50.7873	571.35	0.3780	206.95	571.35	1,2	395.44	32.536
18209	C9H20	2,3,3,4-tetramethylpentane	16747-38-9	54.0377	607.50	0.3800	171.10	607.50	1,2	414.72	34.936
18210	C9H20	3,3-dimethylheptane	4032-86-4	55.1553	588.85	0.3800	310.45	588.85	1,2	410.45	35.036
18236	C9H20O	1-nonanol	143-08-8	114.8400	673.00	0.6700	268.15	673.00	1,2	486.25	45.395
18237	C9H20O	2-nonanol	628-99-9	90.5795	623.00	0.3980	238.15	623.00	1,2	471.65	51.577
18238	C9H20O	2-nonanol, (±)	74683-66-2	69.9264	614.43	0.3800	238.15	614.43	1,2	466.65	40.689
18239	C9H20O	3-nonanol	624-51-1	80.5721	620.40	0.3800	295.15	620.40	1,2	467.85	47.279

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
18240	C9H20O	3-nonanol, (±)	74742-08-8	70.4452	614.43	0.3800	295.15	614.43	1,2	468.15	40.833
18241	C9H20O	4-nonanol	5932-79-6	80.2673	618.15	0.3800	236.51	618.15	1,2	466.15	47.100
18242	C9H20O	4-nonanol, (S)	52708-03-9	69.5837	614.43	0.3800	365.65	614.43	1,2	465.65	40.594
18243	C9H20O	5-nonanol	623-93-8	80.6438	620.93	0.3800	278.75	620.93	1,2	468.25	47.321
18244	C9H20O	2-methyl-1-octanol	818-81-5	81.4957	627.23	0.3800	236.51	627.23	2	473.00	47.821
18245	C9H20O	3-methyl-1-octanol	38514-02-2	81.4957	627.23	0.3800	236.51	627.23	2	473.00	47.821
18246	C9H20O	4-methyl-1-octanol	38514-03-3	81.4957	627.23	0.3800	236.51	627.23	2	473.00	47.821
18247	C9H20O	5-methyl-1-octanol	38514-04-4	81.4957	627.23	0.3800	236.51	627.23	2	473.00	47.821
18248	C9H20O	6-methyl-1-octanol	38514-05-5	82.5991	635.39	0.3800	236.51	635.39	1,2	479.15	48.469
18249	C9H20O	7-methyl-1-octanol	2430-22-0	82.5991	635.39	0.3800	236.51	635.39	1,2	479.15	48.469
18250	C9H20O	2-methyl-2-octanol	628-44-4	75.1326	604.24	0.3800	253.93	604.24	1,2	451.15	44.592
18251	C9H20O	3-methyl-2-octanol	27644-49-1	76.8919	605.01	0.3800	221.51	605.01	2	454.00	45.377
18252	C9H20O	5-methyl-2-octanol	66793-81-5	76.8919	605.01	0.3800	221.51	605.01	2	454.00	45.377
18253	C9H20O	7-methyl-2-octanol	66793-83-7	76.8919	605.01	0.3800	221.51	605.01	2	454.00	45.377
18254	C9H20O	2-methyl-3-octanol	26533-34-6	77.4477	609.21	0.3800	221.51	609.21	1,2	457.15	45.705
18255	C9H20O	3-methyl-3-octanol	5340-36-3	77.0425	618.98	0.3800	253.93	618.98	1,2	462.15	45.725
18256	C9H20O	4-methyl-3-octanol	66793-80-4	77.7741	611.68	0.3800	221.51	611.68	2	459.00	45.898
18257	C9H20O	6-methyl-3-octanol	40225-75-0	77.7741	611.68	0.3800	221.51	611.68	2	459.00	45.898
18258	C9H20O	7-methyl-3-octanol	66793-84-8	77.7741	611.68	0.3800	221.51	611.68	2	459.00	45.898
18259	C9H20O	2-methyl-4-octanol	40575-41-5	77.4477	609.21	0.3800	221.51	609.21	1,2	457.15	45.705
18260	C9H20O	3-methyl-4-octanol	26533-35-7	76.7420	603.88	0.3800	221.51	603.88	1,2	453.15	45.288
18261	C9H20O	4-methyl-4-octanol	23418-37-3	75.6533	608.26	0.3800	253.93	608.26	1,2	454.15	44.901
18262	C9H20O	5-methyl-4-octanol	59734-23-5	77.0683	606.35	0.3800	221.51	606.35	2	455.00	45.481
18263	C9H20O	6-methyl-4-octanol	66793-82-6	77.0683	606.35	0.3800	221.51	606.35	2	455.00	45.481
18264	C9H20O	7-methyl-4-octanol	33933-77-6	77.0683	606.35	0.3800	221.51	606.35	2	455.00	45.481
18265	C9H20O	2-ethyl-1-heptanol	817-60-7	81.3163	625.91	0.3800	236.51	625.91	2	472.00	47.716
18266	C9H20O	3-ethyl-1-heptanol	3525-25-5	82.7786	636.71	0.3800	236.51	636.71	1,2	480.15	48.574
18267	C9H20O	5-ethyl-1-heptanol	998-65-2	81.3163	625.91	0.3800	236.51	625.91	2	472.00	47.716
18268	C9H20O	2,2-dimethyl-1-heptanol	14250-79-4	77.5637	623.00	0.3800	253.93	623.00	1,2	465.15	46.034
18269	C9H20O	4,6-dimethyl-1-heptanol	820-05-3	77.0683	606.35	0.3800	221.51	606.35	2	455.00	45.481
18270	C9H20O	6,6-dimethyl-1-heptanol	65769-10-0	75.8009	609.40	0.3800	253.93	609.40	2	455.00	44.988
18271	C9H20O	2-ethyl-2-heptanol	5340-36-3	75.8009	609.40	0.3800	253.93	609.40	2	455.00	44.988
18272	C9H20O	3-ethyl-2-heptanol	19780-39-3	77.0683	606.35	0.3800	221.51	606.35	2	455.00	45.481
18273	C9H20O	2,3-dimethyl-2-heptanol	66794-00-1	74.6265	612.62	0.3800	238.93	612.62	2	455.00	44.550
18274	C9H20O	2,4-dimethyl-2-heptanol	65822-93-7	74.6265	612.62	0.3800	238.93	612.62	2	455.00	44.550
18275	C9H20O	2,5-dimethyl-2-heptanol	---	74.6265	612.62	0.3800	238.93	612.62	2	455.00	44.550
18276	C9H20O	2,6-dimethyl-2-heptanol	13254-34-7	72.7723	598.01	0.3800	238.93	598.01	1,2	444.15	43.443
18277	C9H20O	4,6-dimethyl-2-heptanol	51079-52-8	77.9915	625.72	0.3800	206.51	625.72	1,2	467.15	46.292
18278	C9H20O	5,6-dimethyl-2-heptanol	58795-24-7	77.6436	623.04	0.3800	206.51	623.04	1,2	465.15	46.086
18279	C9H20O	3-ethyl-3-heptanol	19780-41-7	75.8616	609.87	0.3800	253.93	609.87	1,2	455.35	45.024
18280	C9H20O	2,2-dimethyl-3-heptanol	19549-70-3	73.9427	607.23	0.3800	238.93	607.23	2	451.00	44.142
18281	C9H20O	2,3-dimethyl-3-heptanol	19549-71-4	73.2848	602.05	0.3800	238.93	602.05	1,2	447.15	43.749
18282	C9H20O	2,6-dimethyl-3-heptanol	19549-73-6	74.6891	600.27	0.3800	206.51	600.27	1,2	448.15	44.332
18283	C9H20O	3,5-dimethyl-3-heptanol	19549-74-7	73.7718	605.89	0.3800	238.93	605.89	2	450.00	44.040
18284	C9H20O	3,6-dimethyl-3-heptanol	1573-28-0	73.7718	605.89	0.3800	238.93	605.89	1,2	446.15	44.450
18285	C9H20O	4-ethyl-4-heptanol	597-90-0	75.3062	605.58	0.3800	253.93	605.58	1,2	452.15	44.695
18286	C9H20O	2,2-dimethyl-4-heptanol	66793-99-5	73.2848	602.05	0.3800	238.93	602.05	1,2	447.15	43.749
18287	C9H20O	2,4-dimethyl-4-heptanol	19549-77-0	72.8406	598.55	0.3800	238.93	598.55	1,2	444.55	43.484
18288	C9H20O	2,6-dimethyl-4-heptanol	108-82-7	77.1874	603.00	0.3810	208.00	603.00	1,2	451.00	45.659
18289	C9H20O	3,3-dimethyl-4-heptanol	19549-78-1	73.6266	604.74	0.3800	238.93	604.74	1,2	449.15	43.953
18290	C9H20O	3,5-dimethyl-4-heptanol	19549-79-2	76.7742	616.34	0.3800	206.51	616.34	1,2	460.15	45.569
18291	C9H20O	2-propyl-1-hexanol	817-46-9	79.5234	612.65	0.3800	236.51	612.65	2	462.00	46.664
18292	C9H20O	3-propyl-1-hexanol	66793-85-9	79.5234	612.65	0.3800	236.51	612.65	2	462.00	46.664
18293	C9H20O	1-methyl-2-ethyl-1-hexanol	---	78.3037	615.67	0.3800	221.51	615.67	2	462.00	46.210
18294	C9H20O	1-methyl-3-ethyl-1-hexanol	---	78.8598	619.87	0.3800	221.51	619.87	1,2	465.15	46.538
18295	C9H20O	3-methyl-2-ethyl-1-hexanol	66794-04-5	79.0099	621.00	0.3800	221.51	621.00	1,2	466.15	46.610
18296	C9H20O	4-methyl-2-ethyl-1-hexanol	66794-06-7	79.3896	623.87	0.3800	221.51	623.87	1,2	468.15	46.851
18297	C9H20O	5-methyl-2-ethyl-1-hexanol	66794-07-8	79.0099	621.00	0.3800	221.51	621.00	2	466.00	46.627
18298	C9H20O	3,3,5-trimethyl-1-hexanol	1484-87-3	76.5082	627.43	0.3800	238.93	627.43	2	466.00	45.674
18299	C9H20O	3,4,4-trimethyl-1-hexanol	66793-73-5	76.1916	624.94	0.3800	238.93	624.94	1,2	464.15	45.485
18300	C9H20O	3,5,5-trimethyl-1-hexanol	3452-97-9	76.5339	627.63	0.3800	238.93	627.63	1,2	466.15	45.689
18301	C9H20O	4,5,5-trimethyl-1-hexanol	66793-75-7	78.0748	639.75	0.3800	238.93	639.75	1,2	475.15	46.609
18302	C9H20O	2-methyl-3-ethyl-2-hexanol	66794-02-3	73.9684	607.43	0.3800	238.93	607.43	1,2	451.15	44.158
18303	C9H20O	2,3,4-trimethyl-2-hexanol	21102-13-6	75.3195	630.85	0.3800	223.93	630.85	2	466.00	45.230
18304	C9H20O	2,4,4-trimethyl-2-hexanol	66793-91-7	74.0722	634.35	0.3800	256.35	634.35	2	466.00	44.744
18305	C9H20O	2,4,5-trimethyl-2-hexanol	66793-93-9	75.3195	630.85	0.3800	223.93	630.85	2	466.00	45.230
18306	C9H20O	2,5,5-trimethyl-2-hexanol	66793-71-3	74.0722	634.35	0.3800	256.35	634.35	2	466.00	44.744
18307	C9H20O	2-methyl-3-ethyl-3-hexanol	66794-03-4	75.0113	615.65	0.3800	238.93	615.65	1,2	457.25	44.780
18308	C9H20O	2-methyl-4-ethyl-3-hexanol	33943-21-4	75.3578	605.43	0.3800	206.51	605.43	2	452.00	44.729
18309	C9H20O	3-methyl-4-ethyl-3-hexanol	66794-05-6	74.1137	608.58	0.3800	238.93	608.58	2	452.00	44.244
18310	C9H20O	4-methyl-3-ethyl-3-hexanol	51200-80-7	74.1137	608.58	0.3800	238.93	608.58	2	452.00	44.244
18311	C9H20O	5-methyl-3-ethyl-3-hexanol	597-77-3	72.9431	599.36	0.3800	238.93	599.36	1,2	445.15	43.545
18312	C9H20O	2,2,3-trimethyl-3-hexanol	5340-41-0	70.7999	607.47	0.3800	256.35	607.47	1,2	446.25	42.767
18313	C9H20O	2,2,4-trimethyl-3-hexanol	66793-89-3	71.3038	598.56	0.3800	223.93	598.56	1,2	442.15	42.819
18314	C9H20O	2,2,5-trimethyl-3-hexanol	3970-60-3	69.7907	586.38	0.3800	290.15	586.38	1,2	433.15	41.910
18315	C9H20O	2,3,4-trimethyl-3-hexanol	66793-90-6	70.7741	594.30	0.3800	223.93	594.30	2	439.00	42.501
18316	C9H20O	2,3,5-trimethyl-3-hexanol	65927-60-8	70.7741	594.30	0.3800	223.93	594.30	2	439.00	42.501
18317	C9H20O	2,4,4-trimethyl-3-hexanol	66793-92-8	71.6402	601.27	0.3800	223.93	601.27	1,2	444.15	43.021
18318	C9H20O	2,5,5-trimethyl-3-hexanol	66793-72-4	71.2786	598.36	0.3800	223.93	598.36	2	442.00	42.804
18319	C9H20O	3,4,4-trimethyl-3-hexanol	66793-74-6	69.6249	597.80	0.3800	296.65	597.80	1,2	439.15	42.057

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
18320	C9H20O	3,5,5-trimethyl-3-hexanol	66810-87-5	69.6001	597.60	0.3800	256.35	597.60	2	439.00	42.042
18321	C9H20O	4-methyl-2-propyl-1-pentanol	54004-41-0	78.7894	620.94	0.3800	222.88	620.94	1,2	465.15	46.588
18322	C9H20O	4-methyl-2-isopropyl-1-pentanol	55505-24-3	76.8463	615.26	0.3800	205.14	615.26	1,2	460.15	45.522
18323	C9H20O	2,2-dimethyl-3-ethyl-1-pentanol	66793-95-1	75.6527	620.70	0.3800	238.93	620.70	2	461.00	45.163
18324	C9H20O	2,4-dimethyl-2-ethyl-1-pentanol	66793-98-4	75.6783	620.90	0.3800	238.93	620.90	1,2	461.15	45.178
18325	C9H20O	3,3-diethyl-2-pentanol	66793-94-0	75.6527	620.70	0.3800	238.93	620.70	2	461.00	45.163
18326	C9H20O	2,3-dimethyl-3-ethyl-2-pentanol	66793-97-3	73.2432	627.54	0.3800	256.35	627.54	2	461.00	44.243
18327	C9H20O	4,4-dimethyl-3-ethyl-2-pentanol	21102-09-0	74.4769	624.08	0.3800	223.93	624.08	2	461.00	44.724
18328	C9H20O	2,3,3,4-tetramethyl-2-pentanol	66793-86-0	70.7953	620.23	0.3800	241.35	620.23	2	453.00	43.023
18329	C9H20O	2,3,4,4-tetramethyl-2-pentanol	66793-87-1	70.7953	620.23	0.3800	241.35	620.23	2	453.00	43.023
18330	C9H20O	3,3,4,4-tetramethyl-2-pentanol	66793-88-2	70.8198	620.44	0.3800	323.15	620.44	1,2	453.15	43.037
18331	C9H20O	2-methyl-3-isopropyl-3-pentanol	---	72.8942	609.60	0.3800	222.56	609.60	1,2	451.15	43.685
18332	C9H20O	2,2-dimethyl-3-ethyl-3-pentanol	66793-96-2	70.9489	608.69	0.3800	254.15	608.69	1,2	447.15	42.857
18333	C9H20O	2,4-dimethyl-3-ethyl-3-pentanol	3970-59-0	72.8013	610.61	0.3800	257.15	610.61	1,2	451.05	43.718
18334	C9H20O	2,2,3,4-tetramethyl-3-pentanol	62185-29-9	69.8739	612.50	0.3800	285.95	612.50	1,2	447.35	42.463
18335	C9H20O	2,2,4,4-tetramethyl-3-pentanol	14609-79-1	68.7005	602.64	0.3800	323.15	602.64	1,2	440.15	41.750
18336	C9H20O	ethyl heptyl ether	1969-43-3	63.6074	592.67	0.3800	204.85	592.67	1,2	439.15	38.070
18339	C9H20O2	1,2-nonanediol	42789-13-9	114.6628	684.73	0.3800	297.33	684.73	2	539.15	63.665
18340	C9H20O2	1,3-nonanediol	23433-07-0	117.0854	698.70	0.3800	297.33	698.70	2	550.15	65.010
18341	C9H20O2	1,4-nonanediol	2430-73-1	121.7149	725.37	0.3800	297.33	725.37	2	571.15	67.581
18342	C9H20O2	1,9-nonanediol	3937-56-2	120.4010	706.66	0.3800	318.15	706.66	2	558.15	66.557
18343	C9H20O2	2-butyl-2-ethyl-1,3-propanediol	115-84-4	81.3445	703.86	0.3800	316.95	703.86	1,2	535.15	47.271
18347	C9H20O2	heptyloxyethanol	7409-44-1	83.9515	654.00	0.3800	420.68	654.00	2	520.68	45.874
18348	C9H20O2	2-(1-ethylamyloxy)ethanol	10138-47-3	83.9515	654.00	0.3800	420.68	654.00	2	520.68	45.874
18349	C9H20O2	2-ethylbutoxypropanol, mixed isomers	63716-41-6	83.9515	654.00	0.3800	420.68	654.00	2	520.68	45.874
18365	C9H20S	nonyl mercaptan	1455-21-6	75.3403	681.00	0.4030	253.05	681.00	1,2	492.95	44.854
18366	C9H20S	2-nonanethiol	13281-11-3	69.0305	672.00	0.3800	204.15	672.00	1,2	481.35	42.769
18367	C9H20S	methyl octyl sulfide	3698-95-1	74.1300	681.56	0.3800	231.16	681.56	2	480.00	46.659
18368	C9H20S	ethyl heptyl sulfide	24768-44-3	74.1300	681.56	0.3800	231.16	681.56	2	480.00	46.659
18369	C9H20S	propyl hexyl sulfide	24768-43-2	74.1300	681.56	0.3800	231.16	681.56	2	480.00	46.659
18370	C9H20S	butyl pentyl sulfide	24768-42-1	74.1300	681.56	0.3800	231.16	681.56	2	480.00	46.659
18371	C9H20S	tert-nonyl mercaptan, isomers	25360-10-5	55.3913	676.50	0.3800	361.15	676.50	1,2	461.15	35.854
18388	C9H21N	nonylamine	112-20-9	70.7000	648.00	0.3430	273.15	648.00	1,2	475.35	44.916
18389	C9H21N	methyloctylamine	2439-54-5	69.6917	630.60	0.3800	260.15	630.60	1,2	459.85	42.420
18390	C9H21N	ethylheptylamine	66793-76-8	68.3644	622.20	0.3800	243.35	622.20	1,2	453.85	41.600
18391	C9H21N	dimethylheptylamine	5277-11-2	61.3618	630.70	0.3800	223.16	630.70	1,2	445.15	38.546
18392	C9H21N	diethylpentylamine	2162-91-6	62.8604	595.41	0.3800	223.16	595.41	1,2	429.15	38.712
18393	C9H21N	tripropylamine	102-69-2	60.7517	577.50	0.3800	179.65	577.50	1,2	429.65	36.199
18394	C9H21N	tert-amyl-tert-butylamine	2085-66-7	48.8267	617.40	0.3800	317.15	617.40	1,2	417.15	31.830
18395	C9H21N	N-methyldibutylamine	3405-45-6	59.2643	617.40	0.3800	211.25	617.40	1,2	432.75	37.462
18396	C9H21NO	5-diethylamino-2-pentanol	5412-69-1	60.5887	760.00	0.3800	376.65	760.00	2	476.65	41.645
18423	C9H22N2	N1,N1-diethyl-1,4-pentanediamine	140-80-7	61.0398	741.00	0.3800	374.15	741.00	1,2	474.15	41.406
18424	C9H22N2	N,N,N',N'-tetraethylmethanediamine	102-53-4	53.5134	741.00	0.3800	338.95	741.00	1,2	438.95	38.051
18425	C9H22N2	1,9-diaminononane	646-24-2	75.8718	741.00	0.3800	310.65	741.00	1,2	531.65	46.933
18426	C9H22N2	N,N'-diisopropyl-1,3-propanediamine	63737-71-3	64.1576	741.00	0.3800	387.48	741.00	2	487.48	42.682
18427	C9H22N2	2,2,4(2,4,4)-trimethyl-1,6-hexanediamine	25620-58-0	68.5659	741.00	0.3800	405.15	741.00	1,2	505.15	44.379
18598	C10H6O8	pyromellitic acid	89-05-4	188.5065	893.00	0.3350	554.00	893.00	1,2	722.00	108.354
18601	C10H7Br	1-bromonaphthalene	90-11-9	77.9165	824.00	0.3830	279.35	824.00	1,2	554.25	50.803
18606	C10H7Cl	1-chloronaphthalene	90-13-1	78.6643	785.00	0.4110	269.15	785.00	1,2	532.45	49.357
18607	C10H7Cl	2-chloronaphthalene	91-58-7	72.3052	785.00	0.3800	331.15	785.00	1,2	529.15	47.223
18608	C10H7Cl	monochloronaphthalene	25586-43-0	74.1490	785.00	0.3800	432.15	785.00	1,2	532.15	48.211
18669	C10H8	naphthalene	91-20-3	70.9110	748.35	0.4650	353.43	748.35	1,2	491.14	46.344
18670	C10H8	azulene	275-51-4	84.1641	773.48	0.3800	173.66	773.48	1,2	515.16	55.480
18849	C10H9N	2-methylquinoline	91-63-4	66.9340	773.00	0.3870	272.15	773.00	1,2	519.75	43.461
18850	C10H9N	3-methylquinoline	612-58-8	74.8536	770.99	0.3800	337.15	770.99	1,2	525.45	48.460
18851	C10H9N	4-methylquinoline	491-35-0	76.8437	790.59	0.3800	282.15	790.59	1,2	538.81	49.748
18852	C10H9N	5-methylquinoline	7661-55-4	76.0003	782.28	0.3800	305.55	782.28	1,2	533.15	49.202
18853	C10H9N	6-methylquinoline	91-62-3	76.7587	789.75	0.3800	305.55	789.75	1,2	538.24	49.693
18854	C10H9N	7-methylquinoline	612-60-2	75.6622	778.95	0.3800	311.15	778.95	1,2	530.88	48.983
18855	C10H9N	8-methylquinoline	611-32-5	74.2016	764.56	0.3800	305.55	764.56	1,2	521.07	48.037
18856	C10H9N	1-methylisoquinoline	1721-93-3	71.9173	778.59	0.3800	283.15	778.59	1,2	521.15	47.227
18857	C10H9N	3-methylisoquinoline	1125-80-0	72.5193	778.59	0.3800	341.15	778.59	1,2	522.15	47.552
18858	C10H9N	4-methylisoquinoline	1196-39-0	76.9354	778.59	0.3800	429.15	778.59	1,2	529.15	49.920
18859	C10H9N	6-methylisoquinoline	42398-73-2	83.5526	778.59	0.3800	358.65	778.59	1,2	538.65	53.420
18860	C10H9N	8-methylisoquinoline	62882-00-2	78.2658	778.59	0.3800	478.15	778.59	1,2	531.15	50.628
18958	C10H10	m-divinylbenzene	108-57-6	63.7307	692.00	0.3640	206.25	692.00	1,2	472.65	41.949
18963	C10H10	1-methylindene	767-59-9	64.4485	703.00	0.3840	350.00	703.00	1,2	471.65	42.059
18964	C10H10	2-methylindene	2177-47-1	62.2645	684.00	0.3850	353.15	684.00	1,2	458.00	40.651
18965	C10H10	3-methyl-1H-indene	767-60-2	66.6138	693.50	0.3800	371.15	693.50	1,2	471.15	43.236
18966	C10H10	4-methyl-1H-indene	7344-34-5	74.1916	693.50	0.3800	382.15	693.50	1,2	482.15	47.234
18967	C10H10	6-methyl-1H-indene	20232-11-5	72.7265	693.50	0.3800	380.15	693.50	1,2	480.15	46.468
18968	C10H10	7-methyl-1H-indene	7372-92-1	74.1916	693.50	0.3800	382.15	693.50	1,2	482.15	47.234
19195	C10H10O4	dimethyl phthalate	131-11-3	85.5111	766.00	0.3400	272.15	766.00	1,2	556.85	54.997
19196	C10H10O4	dimethyl terephthalate	120-61-6	86.5098	772.00	0.3800	413.80	772.00	1,2	561.15	52.830
19358	C10H12	1,3-dicyclopentadiene	77-73-6	56.5014	660.00	0.3730	307.00	660.00	1,2	443.00	37.314
19359	C10H12	1,2,3,4-tetrahydronaphthalene	119-64-2	59.4549	720.15	0.3080	350.00	720.15	1,2	480.77	42.351
19360	C10H12	cis-(1-butenyl)benzene	1560-09-4	62.6234	678.55	0.3800	232.31	678.55	1,2	462.15	40.563
19361	C10H12	trans-(1-butenyl)benzene	1005-64-7	63.9979	692.76	0.3800	230.15	692.76	1,2	471.83	41.453
19362	C10H12	cis-(1-methyl-1-propenyl)benzene	767-99-7	59.7126	660.85	0.3800	232.31	660.85	1,2	447.15	38.882
19363	C10H12	trans-(1-methyl-1-propenyl)benzene	768-00-3	62.6121	691.44	0.3800	249.65	691.44	1,2	467.85	40.770

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
19364	C10H12	(2-methyl-1-propenyl)benzene	768-49-0	61.6603	681.41	0.3800	222.05	681.41	1,2	461.06	40.151
19365	C10H12	cis-1-methyl-2-(1-propenyl)benzene	2077-33-0	63.0842	682.61	0.3800	232.31	682.61	2	465.57	40.815
19366	C10H12	cis-1-methyl-3-(1-propenyl)benzene	2077-31-8	63.0842	682.61	0.3800	232.31	682.61	2	465.57	40.815
19367	C10H12	cis-1-methyl-4-(1-propenyl)benzene	2077-29-4	63.5923	687.86	0.3800	232.31	687.86	1,2	469.15	41.144
19368	C10H12	trans-1-methyl-4-(1-propenyl)benzene	2077-30-7	64.3024	695.19	0.3800	255.15	695.19	1,2	474.15	41.603
19369	C10H12	1-methyl-2-(1-methylethenyl)benzene	7399-49-7	60.9762	647.11	0.3800	232.31	647.11	1,2	445.35	39.159
19370	C10H12	1-methyl-3-(1-methylethenyl)benzene	1124-20-5	62.8128	665.71	0.3800	232.31	665.71	1,2	458.15	40.338
19371	C10H12	1-methyl-4-(1-methylethenyl)benzene	1195-32-0	62.9564	667.16	0.3800	204.85	667.16	1,2	459.15	40.430
19372	C10H12	o-ethylstyrene	7564-63-8	62.6856	672.78	0.3800	197.65	672.78	1,2	460.44	40.443
19373	C10H12	m-ethylstyrene	7525-62-4	63.0792	676.81	0.3800	172.15	676.81	1,2	463.20	40.697
19374	C10H12	p-ethylstyrene	3454-07-7	63.4001	680.10	0.3800	223.45	680.10	1,2	465.45	40.904
19375	C10H12	1-ethenyl-2,4-dimethylbenzene	2234-20-0	64.7754	693.48	0.3800	208.85	693.48	1,2	475.26	41.744
19376	C10H12	1-ethenyl-3,5-dimethylbenzene	5379-20-4	63.3928	679.34	0.3800	212.95	679.34	2	465.57	40.853
19377	C10H12	2-ethenyl-1,3-dimethylbenzene	2039-90-9	63.3928	679.34	0.3800	234.55	679.34	2	465.57	40.853
19378	C10H12	2-ethenyl-1,4-dimethylbenzene	2039-89-6	63.4798	680.23	0.3800	237.75	680.23	1,2	466.18	40.909
19379	C10H12	4-ethenyl-1,2-dimethylbenzene	27831-13-6	63.3928	679.34	0.3800	232.31	679.34	2	465.57	40.853
19380	C10H12	2,3-dimethylstyrene	40243-75-2	63.3928	679.34	0.3800	232.31	679.34	2	465.57	40.853
19381	C10H12	3,4-dimethylstyrene	---	63.3928	679.34	0.3800	232.31	679.34	2	465.57	40.853
19382	C10H12	2,6-dimethylstyrene	2039-90-9	63.3928	679.34	0.3800	232.31	679.34	2	465.57	40.853
19383	C10H12	3,5-dimethylstyrene	80648-26-6	63.3928	679.34	0.3800	232.31	679.34	2	465.57	40.853
19384	C10H12	2-butenylbenzene	1560-06-1	54.5621	682.45	0.3800	349.15	682.45	1,2	449.15	36.287
19385	C10H12	3-butenylbenzene	768-56-9	55.0698	682.45	0.3800	203.15	682.45	1,2	450.15	36.565
19386	C10H12	1-methyl-2-allylbenzene	1587-04-8	57.9806	682.45	0.3800	355.65	682.45	1,2	455.65	38.149
19387	C10H12	(1-methylenepropyl)benzene	2039-93-2	61.0073	671.26	0.3800	232.31	671.26	1,2	455.15	39.659
19397	C10H12	trans-1-butenylbenzene	824-90-8	62.2423	682.45	0.3800	230.15	682.45	1,2	463.05	40.440
19398	C10H12	a,2-dimethylstyrene	26444-18-8	56.0891	675.92	0.3800	350.45	675.92	1,2	450.45	36.956
19484	C10H12O	anethole	104-46-1	76.1017	723.00	0.3840	294.50	723.00	1,2	508.45	47.730
19675	C10H12O4	diallyl maleate	999-21-3	93.9151	693.00	0.3960	226.15	693.00	1,2	520.00	54.209
19865	C10H14	butylbenzene	104-51-8	61.9814	660.55	0.3650	185.30	660.55	1,2	456.46	40.372
19866	C10H14	isobutylbenzene	538-93-2	67.5236	650.15	0.4800	320.00	650.15	1,2	445.94	38.730
19867	C10H14	sec-butylbenzene	135-98-8	66.1879	664.54	0.4720	197.72	664.54	1,2	446.48	39.116
19868	C10H14	tert-butylbenzene	98-06-6	64.3143	660.00	0.4640	215.27	660.00	1,2	442.30	38.442
19869	C10H14	cymene	25155-15-1	58.1612	664.65	0.3800	205.25	664.65	1,2	449.50	37.887
19870	C10H14	m-cymene	535-77-3	61.4941	657.00	0.3950	209.44	657.00	1,2	448.23	39.099
19871	C10H14	o-cymene	527-84-4	62.1799	662.00	0.3990	201.64	662.00	1,2	451.33	39.377
19872	C10H14	p-cymene	99-87-6	64.2701	653.15	0.4110	205.25	653.15	1,2	450.28	39.747
19873	C10H14	1-methyl-2-propylbenzene	1074-17-5	63.4898	660.70	0.3800	212.85	660.70	1,2	458.08	40.517
19874	C10H14	1-methyl-3-propylbenzene	1074-43-7	63.0719	656.40	0.3800	190.57	656.40	1,2	455.13	40.248
19875	C10H14	1-methyl-4-propylbenzene	1074-55-1	61.8712	658.50	0.3800	212.46	658.50	1,2	453.53	39.708
19876	C10H14	(S)-(1-methylpropyl)benzene	5787-28-0	62.7876	664.65	0.3800	357.10	664.65	2	457.10	40.345
19877	C10H14	diethylbenzene	25340-17-4	61.4909	664.65	0.3800	355.05	664.65	1,2	455.05	39.660
19878	C10H14	o-diethylbenzene	135-01-3	65.1000	668.00	0.4180	241.93	668.00	1,2	456.61	40.245
19879	C10H14	m-diethylbenzene	141-93-5	66.0700	663.00	0.4270	189.26	663.00	1,2	454.29	40.333
19880	C10H14	p-diethylbenzene	105-05-5	63.5338	657.96	0.3780	230.32	657.96	1,2	456.94	40.584
19881	C10H14	3-ethyl-o-xylene	933-98-2	67.4965	680.00	0.4160	223.64	680.00	1,2	467.11	41.636
19882	C10H14	4-ethyl-o-xylene	934-80-5	65.7934	667.00	0.3850	206.22	667.00	1,2	462.93	41.702
19883	C10H14	2-ethyl-m-xylene	2870-04-4	65.4770	671.00	0.3830	256.89	671.00	1,2	463.19	41.795
19884	C10H14	4-ethyl-m-xylene	874-41-9	62.1379	665.00	0.3520	210.27	665.00	1,2	461.59	40.952
19885	C10H14	5-ethyl-m-xylene	934-74-7	63.3218	655.00	0.3690	188.82	655.00	1,2	456.93	40.727
19886	C10H14	2-ethyl-p-xylene	1758-88-9	61.8780	663.00	0.3520	219.52	663.00	1,2	459.98	40.796
19887	C10H14	1,2,3,4-tetramethylbenzene	488-23-3	70.0879	695.10	0.3800	266.91	695.10	1,2	478.25	45.020
19888	C10H14	1,2,3,5-tetramethylbenzene	527-53-7	66.0274	679.00	0.3700	249.46	679.00	1,2	471.15	42.609
19889	C10H14	1,2,4,5-tetramethylbenzene	95-93-2	65.0632	675.15	0.3580	352.38	675.15	1,2	469.99	42.476
19982	C10H14O	3-butylphenol	4074-43-5	77.4036	742.23	0.3800	342.75	742.23	1,2	520.15	48.936
19983	C10H14O	4-butylphenol	1638-22-8	77.5590	743.65	0.3800	295.15	743.65	1,2	521.15	49.034
19984	C10H14O	2-isobutylphenol	4167-75-3	74.6342	733.00	0.3800	294.15	733.00	2	510.00	47.485
19985	C10H14O	3-isobutylphenol	30749-25-8	74.6342	733.00	0.3800	327.75	733.00	2	510.00	47.485
19986	C10H14O	4-isobutylphenol	4167-74-2	74.6571	733.21	0.3800	324.15	733.21	1,2	510.15	47.499
19987	C10H14O	2-sec-butylphenol	89-72-5	73.2818	720.28	0.3800	327.75	720.28	1,2	501.15	46.624
19988	C10H14O	3-sec-butylphenol	3522-86-9	74.6342	733.00	0.3800	327.75	733.00	2	510.00	47.485
19989	C10H14O	4-sec-butylphenol	99-71-8	75.4370	740.54	0.3800	332.15	740.54	1,2	515.25	47.995
19990	C10H14O	2-tert-butylphenol	88-18-6	70.3584	725.38	0.3800	267.53	725.38	1,2	497.23	45.334
19991	C10H14O	3-tert-butylphenol	585-34-2	72.7154	748.61	0.3800	314.15	748.61	1,2	513.15	46.853
19992	C10H14O	4-tert-butylphenol	98-54-4	72.6754	748.21	0.3800	371.56	748.21	1,2	512.88	46.827
19993	C10H14O	2-methyl-3-propylphenol	66142-78-7	76.5635	733.95	0.3800	326.38	733.95	2	515.00	48.350
19994	C10H14O	2-methyl-4-propylphenol	18441-56-0	76.5868	734.16	0.3800	316.15	734.16	1,2	515.15	48.365
19995	C10H14O	2-methyl-5-propylphenol	499-75-2	76.5635	733.95	0.3800	326.38	733.95	2	515.00	48.350
19996	C10H14O	2-methyl-6-propylphenol	---	76.5635	733.95	0.3800	326.38	733.95	2	515.00	48.350
19997	C10H14O	3-methyl-2-propylphenol	3228-01-1	79.6710	762.45	0.3800	326.38	762.45	2	535.00	50.313
19998	C10H14O	3-methyl-4-propylphenol	30388-40-0	79.6710	762.45	0.3800	289.15	762.45	2	535.00	50.313
19999	C10H14O	3-methyl-5-propylphenol	36186-96-6	79.0724	756.97	0.3800	284.15	756.97	1,2	531.15	49.935
20000	C10H14O	4-methyl-2-propylphenol	4074-46-8	81.6733	780.80	0.3800	326.38	780.80	2	547.87	51.577
20001	C10H14O	4-methyl-3-propylphenol	---	81.6733	780.80	0.3800	326.38	780.80	2	547.87	51.577
20002	C10H14O	5-methyl-2-propylphenol	89-83-8	81.6733	780.80	0.3800	326.38	780.80	2	547.87	51.577
20003	C10H14O	2-methyl-3-isopropylphenol	4371-48-6	80.3246	785.78	0.3800	311.38	785.78	2	547.43	51.047
20004	C10H14O	2-methyl-4-isopropylphenol	1740-97-2	80.3246	785.78	0.3800	311.38	785.78	2	547.00	51.082
20005	C10H14O	2-methyl-5-isopropylphenol	499-75-2	74.6192	732.26	0.3800	273.65	732.26	1,2	510.15	47.422
20006	C10H14O	2-methyl-6-isopropylphenol	3228-04-4	76.1250	746.40	0.3800	311.38	746.40	1,2	498.65	50.064
20007	C10H14O	3-methyl-2-isopropylphenol	3228-01-1	73.2444	719.35	0.3800	342.15	719.35	1,2	501.15	46.548
20008	C10H14O	3-methyl-4-isopropylphenol	3228-02-2	74.5962	732.05	0.3800	385.15	732.05	2	510.00	47.407

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
20009	C10H14O	3-methyl-5-isopropylphenol	3228-03-3	75.2305	738.01	0.3800	322.15	738.01	1,2	514.15	47.810
20010	C10H14O	4-methyl-2-isopropylphenol	4427-56-9	73.2444	719.35	0.3800	308.15	719.35	1,2	501.15	46.548
20011	C10H14O	5-methyl-2-isopropylphenol	89-83-8	73.9317	725.81	0.3800	322.85	725.81	1,2	505.65	46.985
20012	C10H14O	2,3-diethylphenol	---	75.0117	719.70	0.3800	326.38	719.70	2	505.00	47.370
20013	C10H14O	2,4-diethylphenol	936-89-0	74.4145	714.21	0.3800	326.38	714.21	1,2	501.15	46.993
20014	C10H14O	2,5-diethylphenol	876-20-0	74.2362	712.57	0.3800	326.38	712.57	2	500.00	46.881
20015	C10H14O	2,6-diethylphenol	1006-59-3	72.8645	699.96	0.3800	310.65	699.96	1,2	491.15	46.014
20016	C10H14O	3,4-diethylphenol	875-85-4	81.6733	780.80	0.3800	326.38	780.80	2	547.87	51.577
20017	C10H14O	3,5-diethylphenol	1197-34-8	77.5185	742.72	0.3800	349.15	742.72	1,2	521.15	48.954
20018	C10H14O	2,3-dimethyl-4-ethylphenol	---	75.7484	725.91	0.3800	310.01	725.91	2	510.00	47.782
20019	C10H14O	2,3-dimethyl-5-ethylphenol	---	75.7484	725.91	0.3800	310.01	725.91	2	510.00	47.782
20020	C10H14O	2,3-dimethyl-6-ethylphenol	---	75.7484	725.91	0.3800	326.15	725.91	2	510.00	47.782
20021	C10H14O	2,4-dimethyl-3-ethylphenol	62126-74-3	76.5241	733.03	0.3800	343.15	733.03	2	515.00	48.271
20022	C10H14O	2,4-dimethyl-5-ethylphenol	18441-55-9	76.5474	733.24	0.3800	312.15	733.24	1,2	515.15	48.286
20023	C10H14O	2,4-dimethyl-6-ethylphenol	2219-79-6	74.2211	711.89	0.3800	310.01	711.89	1,2	500.15	46.819
20024	C10H14O	2,5-dimethyl-3-ethylphenol	---	74.1979	711.68	0.3800	310.01	711.68	2	500.00	46.804
20025	C10H14O	2,5-dimethyl-4-ethylphenol	32018-76-1	74.1979	711.68	0.3800	312.15	711.68	2	500.00	46.804
20026	C10H14O	2,5-dimethyl-6-ethylphenol	---	74.1979	711.68	0.3800	310.01	711.68	2	500.00	46.804
20027	C10H14O	2,6-dimethyl-3-ethylphenol	---	74.1979	711.68	0.3800	310.01	711.68	2	500.00	46.804
20028	C10H14O	2,6-dimethyl-4-ethylphenol	10570-69-1	74.3761	713.32	0.3800	309.15	713.32	1,2	501.15	46.916
20029	C10H14O	3,4-dimethyl-2-ethylphenol	---	76.5241	733.03	0.3800	310.01	733.03	2	515.00	48.271
20030	C10H14O	3,4-dimethyl-5-ethylphenol	62126-75-4	76.5474	733.24	0.3800	351.15	733.24	1,2	515.15	48.286
20031	C10H14O	3,4-dimethyl-6-ethylphenol	2219-78-5	76.5241	733.03	0.3800	324.15	733.03	2	515.00	48.271
20032	C10H14O	3,5-dimethyl-2-ethylphenol	62126-76-5	79.6303	761.50	0.3800	353.15	761.50	2	535.00	50.231
20033	C10H14O	3,5-dimethyl-4-ethylphenol	62126-77-6	79.1873	757.44	0.3800	363.65	757.44	1,2	532.15	49.951
20034	C10H14O	2,3,4,5-tetramethylphenol	488-70-0	79.3027	757.92	0.3800	355.15	757.92	1,2	533.15	49.968
20035	C10H14O	2,3,4,6-tetramethylphenol	3238-38-8	77.7499	743.70	0.3800	353.15	743.70	1,2	523.15	48.990
20036	C10H14O	2,3,5,6-tetramethylphenol	527-35-5	77.4395	740.86	0.3800	390.15	740.86	1,2	521.15	48.794
20037	C10H14O	2-butylphenol	3180-09-4	74.2985	713.69	0.3800	342.75	713.69	1,2	508.15	46.296
20089	C10H14O2	p-tert-butylcatechol	98-29-3	100.8388	776.00	0.3940	325.00	776.00	1,2	558.00	61.147
20178	C10H14S	4-tert-butylthiophenol	2396-68-1	69.0725	755.00	0.3800	262.25	755.00	1,2	511.15	44.956
20179	C10H14S	2,4,6-trimethylbenzyl mercaptan	21411-42-7	69.0725	755.00	0.3800	320.15	755.00	2	511.15	44.956
20195	C10H15N	N,N-dietyhlaniline	91-66-7	75.8919	702.00	0.4300	235.15	702.00	1,2	489.42	45.405
20196	C10H15N	2,6-diethylaniline	579-66-8	102.0766	678.00	0.3960	276.65	678.00	1,2	508.65	58.933
20197	C10H15N	2-sec-butylaniline	55751-54-7	72.2510	690.00	0.3800	402.03	690.00	2	502.03	44.079
20198	C10H15N	2-tert-butylaniline	6310-21-0	73.8285	690.00	0.3800	407.15	690.00	1,2	507.15	44.572
20199	C10H15N	4-butylaniline	104-13-2	83.0318	690.00	0.3800	434.15	690.00	1,2	534.15	47.175
20200	C10H15N	4-sec-butylaniline	30273-11-1	75.0947	690.00	0.3800	411.15	690.00	1,2	511.15	44.956
20201	C10H15N	4-tert-butylaniline	769-92-6	76.0646	690.00	0.3800	290.15	690.00	1,2	514.15	45.245
20202	C10H15N	N-sec-butylaniline	6068-69-5	71.0857	690.00	0.3800	398.15	690.00	1,2	498.15	43.706
20203	C10H15N	N-tert-butylaniline	937-33-7	68.1953	690.00	0.3800	388.15	690.00	1,2	488.15	42.747
20204	C10H15N	N-butylaniline	1126-78-9	76.8867	690.00	0.3800	258.75	690.00	1,2	516.65	45.486
20205	C10H15N	4-isobutylaniline	30090-17-6	74.7753	690.00	0.3800	410.15	690.00	1,2	510.15	44.860
20206	C10H15N	N-isobutylaniline	588-47-6	73.2066	690.00	0.3800	405.15	690.00	1,2	505.15	44.379
20207	C10H15N	4-methyl-N-isopropylaniline	10436-75-6	69.6209	690.00	0.3800	393.15	690.00	1,2	493.15	43.226
20208	C10H15N	2-methyl-5-isopropylaniline	2051-53-8	76.0646	690.00	0.3800	257.15	690.00	1,2	514.15	45.245
20209	C10H15N	4-methyl-N-propylaniline	54837-90-0	74.1422	690.00	0.3800	408.15	690.00	1,2	508.15	44.668
20210	C10H15N	2,3,4,5-tetramethylaniline	2217-45-0	82.4759	690.00	0.3800	342.15	690.00	1,2	532.65	47.030
20211	C10H15N	2,3,4,6-tetramethylaniline	488-71-1	80.8429	690.00	0.3800	296.65	690.00	1,2	528.15	46.595
20212	C10H15N	N,N,2,6-tetramethylaniline	769-06-2	62.6382	690.00	0.3800	237.15	690.00	1,2	469.15	40.629
20220	C10H15N	2-(1-ethylpropyl)pyridine	7399-50-0	62.7286	693.00	0.3800	368.55	693.00	1,2	468.55	40.871
20221	C10H15N	4-(1-ethylpropyl)pyridine	35182-51-5	68.4856	693.00	0.3800	398.65	693.00	1,2	490.15	42.939
20230	C10H15N	3,5,N,N-tetramethylaniline	4913-13-7	71.6831	690.00	0.3800	400.15	690.00	1,2	500.15	43.899
20231	C10H15N	aniline, p-isopropyl-N-methyl-,	6950-79-4	72.2510	690.00	0.3800	402.03	690.00	2	502.03	44.079
20315	C10H16	camphene	79-92-5	56.1049	638.00	0.3820	320.15	638.00	1,2	433.65	36.318
20316	C10H16	D-limonene	5989-27-5	60.4424	660.00	0.3800	199.00	660.00	1,2	449.65	39.141
20317	C10H16	limonene	138-86-3	59.2765	660.00	0.3800	178.15	660.00	1,2	451.15	38.282
20318	C10H16	L-limonene	5989-54-8	59.2765	660.00	0.3800	351.15	660.00	1,2	451.15	38.282
20319	C10H16	alpha-phellandrene	99-83-2	61.8090	649.00	0.3730	348.15	649.00	1,2	448.15	39.908
20320	C10H16	beta-phellandrene	555-10-2	62.9621	648.00	0.3980	347.15	648.00	1,2	447.15	39.502
20321	C10H16	alpha-pinene	80-56-8	55.4400	632.00	0.3860	209.15	632.00	1,2	429.29	35.744
20322	C10H16	alpha-pinene, (-)	7785-26-4	50.6248	647.00	0.3800	209.15	647.00	1,2	428.15	33.533
20323	C10H16	beta-pinene	127-91-3	60.0345	643.00	0.4020	211.61	643.00	1,2	439.19	37.828
20324	C10H16	beta-pinene, (1R)	19902-08-0	55.7324	647.00	0.3800	223.15	647.00	1,2	437.75	36.293
20325	C10H16	alpha-terpinene	99-86-5	62.1650	652.00	0.3850	350.35	652.00	1,2	450.35	39.567
20326	C10H16	gamma-terpinene	99-85-4	63.8650	661.00	0.3930	356.15	661.00	1,2	456.15	40.301
20327	C10H16	terpinolene	586-62-9	66.6547	672.00	0.3530	358.15	672.00	1,2	458.15	44.494
20331	C10H16	1-decen-3-yne	33622-26-3	61.4918	615.00	0.3800	339.95	615.00	2	439.95	38.146
20332	C10H16	1-decen-4-yne	24948-66-1	61.4918	615.00	0.3800	339.95	615.00	2	439.95	38.146
20333	C10H16	2-decen-4-yne	116668-40-7	61.4918	615.00	0.3800	339.95	615.00	2	439.95	38.146
20349	C10H16	2-methyl-5-isopropyl-1,3-cyclohexadiene, (±)	13811-01-3	62.4445	647.00	0.3800	348.65	647.00	1,2	448.65	39.845
20356	C10H16	(+)-camphene	5794-03-6	55.2630	638.00	0.3800	319.15	638.00	1,2	432.65	35.921
20357	C10H16	(-)-camphene	5794-04-7	59.6856	638.00	0.3800	310.15	638.00	2	439.95	38.266
20365	C10H16	(-)-a-pinene	1330-16-1	51.2271	647.00	0.3800	218.25	647.00	1,2	429.35	33.861
20366	C10H16	(1S)-(-)-b-pinene	18172-67-3	56.5362	647.00	0.3800	212.25	647.00	1,2	439.15	36.722
20367	C10H16	(±)-a-pinene	2437-95-8	50.9247	647.00	0.3800	218.25	647.00	1,2	428.75	33.697
20368	C10H16	(+)-a-pinene	7785-70-8	50.8746	647.00	0.3800	211.15	647.00	1,2	428.65	33.669
20423	C10H16O	camphor	76-22-2	64.2500	709.00	0.3830	453.25	709.00	1,2	480.57	41.637
20540	C10H16S	3-hexylthiophene	1693-86-3	70.7836	705.00	0.3800	402.15	705.00	2	502.15	44.091
20593	C10H18	1-decyne	764-93-2	63.2188	632.49	0.3800	229.16	632.49	1,2	447.16	39.652

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
20594	C10H18	2-decyne	2384-70-5	63.4617	650.86	0.3800	308.06	650.86	1,2	457.75	39.994
20595	C10H18	3-decyne	2384-85-2	62.6922	643.32	0.3800	308.06	643.32	1,2	452.45	39.509
20596	C10H18	4-decyne	2384-86-3	57.5028	642.22	0.3800	343.65	642.22	2	443.65	36.811
20597	C10H18	5-decyne	1942-46-7	61.8809	642.22	0.3800	200.15	642.22	1,2	450.15	39.116
20598	C10H18	2,2-dimethyl-3-octyne	19482-57-6	57.5028	642.22	0.3800	343.65	642.22	2	443.65	36.811
20599	C10H18	8-methyl-4-nonyne	70732-43-3	57.5028	642.22	0.3800	343.65	642.22	2	443.65	36.811
20600	C10H18	5-ethyl-5-methyl-3-heptyne	61228-10-2	57.5028	642.22	0.3800	343.65	642.22	2	443.65	36.811
20601	C10H18	cis-decahydronaphthalene	493-01-6	64.2112	702.25	0.4340	230.20	702.25	1,2	468.97	39.801
20602	C10H18	trans-decahydronaphthalene	493-02-7	58.8676	687.05	0.3800	350.00	687.05	1,2	460.46	38.620
20603	C10H18	1-pentylcyclopentene	4291-98-9	62.3702	647.47	0.3800	178.05	647.47	1,2	452.15	39.555
20604	C10H18	1,5-dimethyl-4-isopropylcyclopentene	6912-05-6	53.0932	647.47	0.3800	336.15	647.47	1,2	436.15	34.694
20608	C10H18	1,3-decadiene	2051-25-4	59.4524	646.00	0.3800	342.15	646.00	1,2	442.15	38.355
20609	C10H18	1,9-decadiene	1647-16-1	58.9387	646.00	0.3800	340.15	646.00	1,2	440.15	38.165
20610	C10H18	2,6-dimethyl-2,5-octadiene	116668-48-5	59.8408	646.00	0.3800	343.65	646.00	2	443.65	38.497
20611	C10H18	2,7-dimethyl-2,6-octadiene	16736-42-8	58.6838	646.00	0.3800	198.75	646.00	1,2	439.15	38.070
20612	C10H18	3,6-dimethyl-2,6-octadiene	116668-49-6	55.7216	646.00	0.3800	327.15	646.00	1,2	427.15	36.931
20613	C10H18	3,7-dimethyl-2,4-octadiene	56523-26-3	58.5568	646.00	0.3800	338.65	646.00	1,2	438.65	38.022
20614	C10H18	4,5-dimethyl-2,6-octadiene	18476-57-8	55.6018	646.00	0.3800	208.35	646.00	1,2	426.65	36.884
20615	C10H18	cis-2,6-dimethyl-2,6-octadiene	2492-22-0	59.1949	646.00	0.3800	341.15	646.00	1,2	441.15	38.260
20625	C10H18	1-methyl-4-isopropylcyclohexene	5502-88-5	61.3897	640.00	0.3800	347.65	640.00	1,2	447.65	38.878
20626	C10H18	1-methyl-4-isopropylcyclohexene, (R)	1195-31-9	60.9841	640.00	0.3800	346.15	640.00	1,2	446.15	38.735
20627	C10H18	4-methyl-1-isopropylcyclohexene, (R)	619-52-3	59.5245	640.00	0.3800	340.65	640.00	1,2	440.65	38.212
20628	C10H18	trans-3-methyl-6-isopropylcyclohexene, (3R)	5113-93-9	59.3939	640.00	0.3800	340.15	640.00	1,2	440.15	38.165
20635	C10H18	1-tert-butyl-1-cyclohexene	3419-66-7	59.5245	640.00	0.3800	340.65	640.00	1,2	440.65	38.212
20636	C10H18	decahydronaphthalene; (cis+trans)	91-17-8	50.1144	694.65	0.3800	346.40	694.65	1,2	446.40	33.896
20637	C10H18	3,7-dimethyl-1,6-octadiene	2436-90-0	56.3124	646.00	0.3800	329.60	646.00	1,2	429.60	37.163
20638	C10H18	4-methyl-1-(1-methylethyl)cyclohexene	500-00-5	59.3548	640.00	0.3800	340.00	640.00	1,2	440.00	38.150
20678	C10H18O	2-butylcyclohexanone	1126-18-7	64.6968	710.00	0.3800	280.00	710.00	1,2	481.15	42.076
20679	C10H18O	4-isobutylcyclohexanone	42061-72-3	67.3037	710.00	0.3800	280.00	710.00	1,2	491.15	43.034
20680	C10H18O	cis-5-methyl-2-isopropylcyclohexanone, (2R)	1196-31-2	63.6873	710.00	0.3800	280.00	710.00	1,2	477.15	41.693
20681	C10H18O	trans-2-methyl-5-isopropylcyclohexanone, (2S)	13163-73-0	67.8401	710.00	0.3800	280.00	710.00	1,2	493.15	43.226
20682	C10H18O	trans-5-methyl-2-isopropylcyclohexanone, (2S)	14073-97-3	64.4427	710.00	0.3800	267.15	710.00	1,2	480.15	41.980
20688	C10H18O	2-decenal	3913-71-1	74.9407	670.00	0.3800	403.15	670.00	1,2	503.15	44.187
20689	C10H18O	3-decenal	58474-80-9	68.0300	670.00	0.3800	380.98	670.00	2	480.98	42.060
20690	C10H18O	3,7-dimethyl-6-octenal	106-23-0	68.0300	670.00	0.3800	380.98	670.00	2	480.98	42.060
20691	C10H18O	3-decen-2-one	10519-33-2	67.5489	675.00	0.3800	380.98	675.00	2	480.98	42.060
20692	C10H18O	3-ethyl-4-methyl-3-hepten-2-one	54244-90-5	62.6820	675.00	0.3800	363.15	675.00	1,2	463.15	40.355
20693	C10H18O	3-ethyl-4-methyl-4-hepten-2-one	53252-08-7	67.5489	675.00	0.3800	380.98	675.00	2	480.98	42.060
20694	C10H18O	4-ethyl-6-methyl-5-hepten-2-one	104035-66-7	67.5489	675.00	0.3800	380.98	675.00	2	480.98	42.060
20695	C10H18O	5-ethyl-4-methyl-4-hepten-3-one	22319-28-4	67.5489	675.00	0.3800	380.98	675.00	2	480.98	42.060
20696	C10H18O	5-ethyl-4-methyl-5-hepten-3-one	74764-56-0	67.5489	675.00	0.3800	347.65	675.00	2	480.98	42.060
20697	C10H18O	6-methyl-5-nonen-4-one	7036-98-8	64.0019	675.00	0.3800	368.15	675.00	1,2	468.15	40.833
20698	C10H18O	6-methyl-6-nonen-4-one	53252-20-3	67.5489	675.00	0.3800	380.98	675.00	2	480.98	42.060
20716	C10H18O	2-tert-butylcyclohexanone	1728-46-7	64.6534	710.00	0.3800	311.70	710.00	2	480.98	42.060
20717	C10H18O	4-tert-butylcyclohexanone	98-53-3	64.6534	710.00	0.3800	322.15	710.00	2	480.98	42.060
20723	C10H18O	cis-4-decenal	21662-09-9	68.0300	670.00	0.3800	380.98	670.00	2	480.98	42.060
20745	C10H18O	2,2,6,6-tetramethylcyclohexanone	1195-93-3	64.6534	710.00	0.3800	280.00	710.00	2	480.98	42.060
20746	C10H18O	3,3,5,5-tetramethylcyclohexanone	14376-79-5	63.0655	710.00	0.3800	280.00	710.00	1,2	474.65	41.454
20760	C10H18O	2-(1-methylpropyl)cyclohexanone	14765-30-1	64.6534	710.00	0.3800	280.00	710.00	2	480.98	42.060
20769	C10H18O2	2-decenoic acid	3913-85-7	75.0459	776.00	0.3800	285.15	776.00	2	540.00	47.740
20770	C10H18O2	3-decenoic acid	15469-77-9	75.0459	776.00	0.3800	291.15	776.00	2	540.00	47.740
20771	C10H18O2	4-decenoic acid	26303-90-2	75.0459	776.00	0.3800	440.00	776.00	2	540.00	47.740
20772	C10H18O2	9-decenoic acid	14436-32-9	75.0459	776.00	0.3800	299.65	776.00	2	540.00	47.740
20788	C10H18O2	trans-2-decenoic acid	334-49-6	75.0459	776.00	0.3800	440.00	776.00	2	540.00	47.740
20795	C10H18O2	vinyl 2-ethylhexanoate	94-04-2	62.3343	650.00	0.3800	183.25	650.00	1,2	454.25	39.506
20800	C10H18O2	heptyl acrylate	2499-58-3	71.8704	650.00	0.3800	386.24	650.00	2	486.24	42.564
20801	C10H18O2	3-hexenyl isobutyrate	57859-47-9	71.8704	650.00	0.3800	386.24	650.00	2	486.24	42.564
20802	C10H18O2	cis-3-hexenyl isobutyrate	41519-23-7	71.8704	650.00	0.3800	386.24	650.00	2	486.24	42.564
20803	C10H18O2	hexyl-2-butenoate	19089-92-0	71.8704	650.00	0.3800	386.24	650.00	2	486.24	42.564
20805	C10H18O2	methyl nonylenate	111-79-5	71.8704	650.00	0.3800	386.24	650.00	2	486.24	42.564
20806	C10H18O2	1-octen-3-ol acetate	2442-10-6	71.8704	650.00	0.3800	386.24	650.00	2	486.24	42.564
20820	C10H18O4	sebacic acid	111-20-6	130.5590	815.00	0.3420	407.65	815.00	1,2	642.09	76.829
20856	C10H19Br	cis-1-bromo-1-decene	66291-72-3	75.5255	683.71	0.3800	256.68	683.71	1,2	498.15	46.012
20857	C10H19Br	trans-1-bromo-1-decene	66291-73-4	75.5255	683.71	0.3800	256.68	683.71	1,2	498.15	46.012
20858	C10H19Br	1-bromo-2-decene	14304-30-4	71.7417	683.71	0.3800	398.15	683.71	2	498.15	43.706
20859	C10H19Br	2-bromo-1-decene	3017-67-2	71.7417	683.71	0.3800	398.15	683.71	2	498.15	43.706
20867	C10H19Br3	1,1,1-tribromodecane	62127-67-7	97.6404	786.93	0.3800	383.78	786.93	1,2	585.15	58.214
20868	C10H19Cl	cis-1-chloro-1-decene	66291-47-2	72.8823	682.53	0.3800	226.80	682.53	1,2	496.15	44.505
20869	C10H19Cl	trans-1-chloro-1-decene	66291-48-3	72.8823	682.53	0.3800	226.80	682.53	1,2	496.15	44.505
20870	C10H19Cl	(1R)-(-)-menthyl chloride	16052-42-9	71.2600	682.53	0.3800	255.00	682.53	2	496.15	43.514
20876	C10H19Cl3	1,1,1-trichlorodecane	62108-56-9	80.7784	724.19	0.3800	294.14	724.19	1,2	535.15	48.489
20877	C10H19F	cis-1-fluoro-1-decene	66291-49-4	62.9672	593.48	0.3800	229.03	593.48	2	431.63	38.431
20878	C10H19F	trans-1-fluoro-1-decene	66291-50-7	62.9672	593.48	0.3800	229.03	593.48	2	431.63	38.431
20882	C10H19F3	1,1,1-trifluorodecane	26288-16-4	65.1992	600.10	0.3800	300.83	600.10	1,2	442.15	39.260
20883	C10H19I	cis-1-iodo-1-decene	66291-51-8	76.6365	721.89	0.3800	254.94	721.89	1,2	523.15	46.942
20884	C10H19I	trans-1-iodo-1-decene	66291-52-9	76.6365	721.89	0.3800	254.94	721.89	1,2	523.15	46.942
20885	C10H19I3	1,1,1-triiododecane	---	106.0345	961.43	0.3800	378.56	961.43	2	704.39	64.230
20886	C10H19N	decanenitrile	1975-78-6	81.1360	692.64	0.3800	258.65	692.64	1,2	516.15	48.258
20922	C10H20	pentylcyclopentane	3741-00-2	61.6133	647.49	0.3800	190.16	647.49	1,2	453.76	38.953
20923	C10H20	butylcyclohexane	1678-93-9	65.5187	667.00	0.4600	198.42	667.00	1,2	454.13	38.744

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
20924	C10H20	tert-butylcyclohexane	3178-22-1	52.0211	667.00	0.3800	231.95	667.00	1,2	444.65	34.268
20925	C10H20	sec-butylcyclohexane	7058-01-7	56.1501	667.00	0.3800	352.45	667.00	1,2	452.45	36.489
20926	C10H20	isobutylcyclohexane	1678-98-4	51.9208	667.00	0.3800	178.15	667.00	1,2	444.45	34.213
20927	C10H20	1-methyl-1-propylcyclohexane	4258-93-9	52.2729	667.00	0.3800	345.15	667.00	1,2	445.15	34.404
20928	C10H20	1-methyl-2-propylcyclohexane	4291-79-6	54.3497	667.00	0.3800	349.15	667.00	1,2	449.15	35.525
20929	C10H20	1-methyl-3-propylcyclohexane	4291-80-9	48.6633	667.00	0.3800	337.65	667.00	1,2	437.65	32.436
20930	C10H20	1-methyl-4-propylcyclohexane	4291-81-0	54.0839	667.00	0.3800	348.65	667.00	1,2	448.65	35.382
20931	C10H20	1-methyl-2-isopropylcyclohexane	16580-23-7	51.7709	667.00	0.3800	344.15	667.00	1,2	444.15	34.132
20932	C10H20	1-methyl-3-isopropylcyclohexane	16580-24-8	49.5917	667.00	0.3800	339.65	667.00	1,2	439.65	32.945
20933	C10H20	1-methyl-4-isopropylcyclohexane	99-82-1	51.6216	667.00	0.3800	185.55	667.00	1,2	443.85	34.051
20934	C10H20	cis-1-methyl-4-isopropylcyclohexane	6069-98-3	52.2729	667.00	0.3800	183.25	667.00	1,2	445.15	34.404
20935	C10H20	trans-1-methyl-4-isopropylcyclohexane	1678-82-6	51.5719	667.00	0.3800	186.85	667.00	1,2	443.75	34.024
20936	C10H20	1,1,3,4-tetramethylcyclohexane	24612-75-7	46.6592	667.00	0.3800	333.15	667.00	1,2	433.15	31.330
20937	C10H20	trans-1,1,3,5-tetramethylcyclohexane	50876-31-8	45.1333	667.00	0.3800	329.55	667.00	1,2	429.55	30.482
20938	C10H20	cis-1,1,3,5-tetramethylcyclohexane	50876-32-9	43.5590	667.00	0.3800	325.65	667.00	1,2	425.65	29.602
20939	C10H20	diethylcyclohexane; (mixed isomers)	1331-43-7	53.2974	667.00	0.3800	173.25	667.00	1,2	447.15	34.958
20942	C10H20	cyclodecane	293-96-9	62.0414	709.00	0.3800	284.15	709.00	1,2	475.15	40.704
20943	C10H20	1-decene	872-05-9	65.5767	617.05	0.4020	206.89	617.05	1,2	443.75	39.358
20944	C10H20	4-decene	19689-18-0	62.3971	616.98	0.3800	343.75	616.98	1,2	443.75	38.507
20945	C10H20	cis-5-decene	7433-78-5	62.5137	616.98	0.3800	161.15	616.98	1,2	444.15	38.545
20946	C10H20	trans-5-decene	7433-56-9	62.5137	616.98	0.3800	200.15	616.98	1,2	444.15	38.545
20947	C10H20	2-methyl-1-nonene	2980-71-4	62.2815	616.91	0.3800	208.92	616.91	1,2	441.55	38.616
20947.1	C10H20	cis-2-decene	20348-51-0	66.1780	621.00	0.3963	207.00	621.00	1,2	447.00	39.970
20947.2	C10H20	trans-2-decene	20063-97-2	66.2650	619.00	0.3954	220.00	619.00	1,2	446.00	40.027
20947.3	C10H20	8-methyl-1-nonene	26741-24-2	64.4420	619.00	0.3938	199.00	619.00	1,2	443.65	39.214
20947.4	C10H20	1,1-diethylcyclohexane	78-01-3	63.6630	643.00	0.3906	173.15	643.00	1,2	449.82	39.800
20947.5	C10H20	1,2,3,4-tetramethylcyclohexane	3726-45-2	63.5080	642.00	0.3919	195.00	642.00	1,2	449.20	39.637
20948	C10H20	2-methyl-3-nonene	53966-53-3	59.6834	616.98	0.3800	334.15	616.98	1,2	434.15	37.595
20949	C10H20	5-methyl-4-nonene	15918-07-7	61.3059	616.98	0.3800	339.96	616.98	2	439.96	38.146
20950	C10H20	3,7-dimethyl-1-octene	4984-01-4	52.9391	616.98	0.3800	327.15	616.98	1,2	427.15	33.826
20951	C10H20	2,6-dimethyl-2-octene	4057-42-5	60.2361	616.98	0.3800	336.15	616.98	1,2	436.15	37.785
20952	C10H20	4-propyl-3-heptene	4485-13-6	59.5463	616.98	0.3800	333.65	616.98	1,2	433.65	37.547
20953	C10H20	2,4,6-trimethyl-3-heptene, isomer	123434-07-1	61.3059	616.98	0.3800	339.96	616.98	2	439.96	38.146
20954	C10H20	2,2,5,5-tetramethylhex-3-ene	22808-06-6	38.7607	616.98	0.3800	268.65	616.98	1,2	397.45	26.173
20955	C10H20	cis-1,2-di-tert-butylethene	692-47-7	61.3059	616.98	0.3800	339.96	616.98	2	439.96	38.146
20956	C10H20	(E)-2,2,5,5-tetramethylhex-3-ene	692-48-8	39.1088	616.98	0.3800	268.25	616.98	1,2	398.35	26.367
20958	C10H20Br2	1,1-dibromodecane	59104-80-2	88.9898	741.82	0.3800	306.56	741.82	1,2	550.15	53.211
20959	C10H20Br2	1,10-dibromodecane	4101-68-2	81.4845	741.82	0.3800	301.15	741.82	2	550.15	48.723
20960	C10H20Br2	5,6-dibromodecane	77928-86-0	81.4845	741.82	0.3800	450.15	741.82	2	550.15	48.723
20962	C10H20Cl2	1,1-dichlorodecane	3162-62-7	78.7404	704.32	0.3800	246.80	704.32	1,2	520.15	47.296
20963	C10H20Cl2	1,10-dichlorodecane	2162-98-3	76.2888	704.32	0.3800	288.75	704.32	2	520.15	45.824
20966	C10H20F2	1,1-difluorodecane	62127-43-9	66.6154	622.00	0.3800	251.26	622.00	1,2	456.15	40.311
20968	C10H20I2	1,1-diiododecane	66291-57-4	92.7076	836.20	0.3800	303.08	836.20	2	614.04	56.023
20969	C10H20I2	1,10-diiododecane	16355-92-3	90.9181	836.20	0.3800	304.65	836.20	2	614.04	54.942
20992	C10H20O	decanal	112-31-2	80.0274	657.00	0.3960	267.15	657.00	1,2	488.15	46.728
20993	C10H20O	2-decanone	693-54-9	74.4413	656.59	0.3800	276.25	656.59	1,2	483.35	44.867
20994	C10H20O	3-decanone	928-80-3	67.9564	656.59	0.3800	274.45	656.59	1,2	476.15	41.597
20995	C10H20O	4-decanone	624-16-8	69.0154	656.59	0.3800	264.15	656.59	1,2	479.65	41.932
20996	C10H20O	2-methyl-5-nonanone	22287-02-1	68.1063	656.59	0.3800	376.65	656.59	1,2	476.65	41.645
20997	C10H20O	2-tert-butylcyclohexanol	13491-79-7	68.4704	665.00	0.3800	318.15	665.00	2	480.78	42.040
20998	C10H20O	trans-2-butylcyclohexanol	35242-05-8	68.4704	665.00	0.3800	380.78	665.00	2	480.78	42.040
20999	C10H20O	citronellol, (±)	26489-01-0	74.6747	656.59	0.3800	397.15	656.59	1,2	497.15	43.610
21004	C10H20O	9-decen-1-ol	13019-22-2	81.2707	643.00	0.3800	409.15	643.00	1,2	509.15	44.764
21005	C10H20O	3,7-dimethyl-6-octen-3-ol	18479-51-1	70.9478	643.00	0.3800	380.78	643.00	2	480.78	42.040
21006	C10H20O	3,7-dimethyl-7-octen-1-ol, (S)	6812-78-8	70.9478	643.00	0.3800	380.78	643.00	2	480.78	42.040
21007	C10H20O	2-ethylhexyl vinyl ether	103-44-6	71.8475	636.00	0.3800	173.15	636.00	2	480.78	42.040
21008	C10H20O	octyl vinyl ether	929-62-4	65.0123	636.00	0.3800	359.15	636.00	1,2	459.15	39.973
21011	C10H20O	1-methyl-4-isopropylcyclohexanol	21129-27-1	68.7311	665.00	0.3800	381.65	665.00	1,2	481.65	42.124
21012	C10H20O	2-methyl-5-isopropylcyclohexanol, [1R-(1alpha,2alpha,5beta)]	5563-78-0	71.4931	665.00	0.3800	390.65	665.00	1,2	490.65	42.986
21013	C10H20O	2-methyl-1-propylcyclohexanol	24580-48-1	68.4704	665.00	0.3800	380.78	665.00	2	480.78	42.040
21014	C10H20O	3-methyl-1-propylcyclohexanol	24580-52-7	65.9693	665.00	0.3800	372.15	665.00	1,2	472.15	41.215
21015	C10H20O	4-tert-butylcyclohexanol; (cis+trans)	98-52-2	68.4704	665.00	0.3800	338.15	665.00	2	480.78	42.040
21016	C10H20O	(±)-b-citronellol	106-22-9	74.4185	656.59	0.3800	298.15	656.59	1,2	496.40	43.538
21017	C10H20O	(R)-(+)-b-citronellol	1117-61-9	69.3606	656.59	0.3800	380.78	656.59	2	480.78	42.040
21018	C10H20O	(-)-b-citronellol	7540-51-4	75.1910	656.59	0.3800	398.65	656.59	1,2	498.65	43.754
21019	C10H20O	5-decanone	820-29-1	68.2266	656.59	0.3800	263.95	656.59	1,2	477.05	41.683
21020	C10H20O	trans-5-decen-1-ol	56578-18-8	70.9478	643.00	0.3800	380.78	643.00	2	480.78	42.040
21021	C10H20O	cis-4-decen-1-ol	57074-37-0	70.9478	643.00	0.3800	380.78	643.00	2	480.78	42.040
21025	C10H20O	isodecanal	1321-89-7	66.1518	657.00	0.3800	370.15	657.00	1,2	470.15	41.024
21031	C10H20O	trans-4-(1,1-dimethylethyl)cyclohexanol	21862-63-5	68.4704	665.00	0.3800	348.45	665.00	2	480.78	42.040
21032	C10H20O	cis-4-(1,1-dimethylethyl)cyclohexanol	937-05-3	68.4704	665.00	0.3800	355.10	665.00	2	480.78	42.040
21033	C10H20O	[1R-(1a,2a,5b)]-5-methyl-2-(1-methylethyl)cyclohexanol	20747-49-3	68.4704	665.00	0.3800	380.78	665.00	2	480.78	42.040
21034	C10H20O	2-methyl-3-nonanone	5445-31-8	67.0219	656.59	0.3800	373.00	656.59	1,2	473.00	41.296
21035	C10H20O	2,6-dimethyl-1-octen-8-ol	141-25-3	70.9478	643.00	0.3800	380.78	643.00	2	480.78	42.040
21036	C10H20O	2-isopropyl-5-methyl-2-hexen-1-ol	40853-53-0	70.9478	643.00	0.3800	380.78	643.00	2	480.78	42.040
21038	C10H20O	tetrahydroneral	5988-91-0	34.8581	656.59	0.3800	303.15	656.59	1,2	403.15	24.278
21040	C10H20O2	decanoic acid	334-48-5	113.6900	713.00	0.4750	304.75	713.00	1,2	543.15	75.126
21041	C10H20O2	2,2-dimethyloctanoic acid	29662-90-6	51.5560	713.00	0.3800	373.73	713.00	2	473.73	34.047
21042	C10H20O2	3-methylnonanoic acid	35205-79-9	51.5560	713.00	0.3800	373.73	713.00	2	473.73	34.047
21043	C10H20O2	nonyl formate	5451-92-3	70.2865	669.90	0.3800	260.66	669.90	2	485.72	43.031

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
21044	C10H20O2	2-ethylhexyl acetate	103-09-3	82.3252	639.00	0.4740	180.15	639.00	1,2	471.75	43.611
21045	C10H20O2	octyl acetate	112-14-1	71.1018	662.20	0.3800	234.65	662.20	1,2	484.45	43.135
21046	C10H20O2	6-methyl-2-heptyl acetate	67952-57-2	63.9071	650.60	0.3800	360.15	650.60	1,2	460.15	40.069
21047	C10H20O2	6-methyl-3-heptyl acetate	32764-34-4	63.2128	650.60	0.3800	357.65	650.60	1,2	457.65	39.830
21048	C10H20O2	2-methylheptyl acetate, (±)	74112-36-0	66.1959	650.60	0.3800	368.15	650.60	1,2	468.15	40.833
21049	C10H20O2	heptyl propanoate	2216-81-1	70.5992	659.60	0.3800	222.25	659.60	1,2	483.15	42.775
21050	C10H20O2	hexyl butanoate	2639-63-6	68.7738	657.20	0.3800	195.15	657.20	1,2	479.15	41.870
21051	C10H20O2	1-methylpentyl butanoate, (S)	116723-96-7	67.1753	657.20	0.3800	373.73	657.20	2	473.73	41.366
21052	C10H20O2	isopentyl isovalerate	659-70-1	74.1002	637.00	0.4090	215.00	637.00	1,2	467.15	43.154
21053	C10H20O2	1,1-dimethylpropyl 3-methylbutanoate	542-37-0	48.2546	657.20	0.3800	346.65	657.20	1,2	446.65	31.310
21054	C10H20O2	isopentyl pentanoate	2050-09-1	69.3918	637.00	0.3800	373.73	637.00	2	473.73	41.366
21055	C10H20O2	pentyl pentanoate	2173-56-0	70.4072	637.00	0.3800	194.35	637.00	1,2	476.85	41.664
21056	C10H20O2	butyl hexanoate	626-82-4	71.8420	637.00	0.3800	208.85	637.00	1,2	481.15	42.076
21057	C10H20O2	isobutyl 4-methylpentanoate	25415-70-7	57.3711	637.00	0.3800	345.15	637.00	1,2	445.15	36.362
21058	C10H20O2	propyl heptanoate	7778-87-2	71.8420	637.00	0.3800	209.65	637.00	1,2	481.15	42.076
21059	C10H20O2	ethyl 2-ethylhexanoate	2983-37-1	69.3918	637.00	0.3800	373.73	637.00	2	473.73	41.366
21060	C10H20O2	ethyl octanoate	106-32-1	72.0117	637.00	0.3800	230.05	637.00	1,2	481.65	42.124
21063	C10H20O2	methyl nonanoate	1731-84-6	73.7417	637.00	0.3800	386.65	637.00	1,2	486.65	42.603
21066	C10H20O2	8-methylnonanoic acid	5963-14-4	51.5560	713.00	0.3800	373.73	713.00	2	473.73	34.047
21067	C10H20O2	neodecanoic acid	26896-20-8	77.8260	713.00	0.3800	428.15	713.00	1,2	528.15	46.595
21068	C10H20O2	tert-decanoic acid	52627-73-3	51.5560	713.00	0.3800	373.73	713.00	2	473.73	34.047
21071	C10H20O2	n-hexyl isobutyrate	2349-07-7	69.3918	637.00	0.3800	373.73	637.00	2	473.73	41.366
21073	C10H20O2	isobutyl hexanoate	105-79-3	47.3632	637.00	0.3800	327.05	637.00	1,2	427.05	31.065
21074	C10H20O2	2-(4-isobutylphenyl)butyric acid	55837-18-8	51.5560	713.00	0.3800	325.15	713.00	2	473.73	34.047
21077	C10H20O2	4-nonanecarboxylic acid	31080-39-4	51.5560	713.00	0.3800	373.73	713.00	2	473.73	34.047
21088	C10H20S	thiacycloundecane	408-32-2	69.4406	784.51	0.3800	279.43	784.51	1,2	527.15	45.464
21090	C10H21Br	1-bromodecane	112-29-8	79.2652	698.43	0.3800	243.95	698.43	1,2	513.75	47.814
21091	C10H21Br	2-bromodecane	39563-53-6	74.9433	698.43	0.3800	413.75	698.43	2	513.75	45.207
21093	C10H21Cl	1-chlorodecane	1002-69-3	74.5083	679.88	0.3800	241.85	679.88	1,2	499.02	45.048
21094	C10H21Cl	decyl chloride (mixed isomers)	28519-06-4	72.4279	679.88	0.3800	399.02	679.88	2	499.02	43.790
21097	C10H21F	1-fluorodecane	334-56-5	68.6205	623.10	0.3800	238.15	623.10	1,2	459.35	41.296
21100	C10H21I	1-iododecane	2050-77-3	97.0567	700.35	0.3800	256.85	700.35	1,2	536.85	55.840
21117	C10H21NO2	1-nitrodecane	4609-87-4	88.3115	716.97	0.3800	345.57	716.97	1,2	539.15	51.990
21133	C10H22	decane	124-18-5	71.4282	618.45	0.4510	243.49	618.45	1,2	447.30	40.017
21134	C10H22	2-methylnonane	871-83-0	65.6664	610.00	0.4250	198.50	610.00	1,2	440.15	38.138
21135	C10H22	3-methylnonane	5911-04-6	66.2263	613.00	0.4350	188.35	613.00	1,2	440.95	38.106
21136	C10H22	4-methylnonane	17301-94-9	62.0158	610.00	0.3750	174.45	610.00	1,2	438.85	38.505
21137	C10H22	5-methylnonane	15869-85-9	65.6817	610.00	0.4320	185.45	610.00	1,2	438.30	37.984
21138	C10H22	3-ethyloctane	5881-17-4	63.3606	613.60	0.3800	188.36	613.60	1,2	439.66	39.244
21139	C10H22	4-ethyloctane	15869-86-0	62.8175	609.60	0.3800	174.46	609.60	1,2	436.80	38.907
21140	C10H22	2,2-dimethyloctane	15869-87-1	59.8100	602.00	0.3800	225.00	602.00	1,2	430.05	37.152
21141	C10H22	2,3-dimethyloctane	7146-60-3	61.4201	613.20	0.3800	219.16	613.20	1,2	437.47	38.200
21142	C10H22	2,4-dimethyloctane	4032-94-4	61.0082	599.40	0.3800	219.16	599.40	1,2	429.06	37.823
21143	C10H22	2,5-dimethyloctane	15869-89-3	61.0113	603.00	0.3800	219.16	603.00	1,2	431.66	37.823
21144	C10H22	2,6-dimethyloctane	2051-30-1	61.8683	603.10	0.3800	219.16	603.10	1,2	433.54	38.200
21145	C10H22	2,7-dimethyloctane	1072-16-8	61.8856	602.90	0.3800	219.16	602.90	1,2	433.03	38.242
21146	C10H22	3,3-dimethyloctane	4110-44-5	60.1760	612.10	0.3800	219.16	612.10	1,2	434.36	37.614
21147	C10H22	3,4-dimethyloctane	15869-92-8	60.9572	614.00	0.3800	219.16	614.00	1,2	436.56	38.033
21148	C10H22	3,5-dimethyloctane	15869-93-9	60.6822	606.30	0.3800	219.16	606.30	1,2	432.56	37.740
21149	C10H22	3,6-dimethyloctane	15869-94-0	61.2156	608.30	0.3800	219.16	608.30	1,2	433.96	38.074
21150	C10H22	4,4-dimethyloctane	15869-95-1	59.5732	606.90	0.3800	219.16	606.90	1,2	430.66	37.238
21151	C10H22	4,5-dimethyloctane	15869-96-2	60.6892	612.20	0.3800	219.16	612.20	1,2	435.29	37.865
21152	C10H22	4-propylheptane	3178-29-8	61.5431	601.00	0.3800	219.16	601.00	1,2	430.66	38.116
21153	C10H22	4-isopropylheptane	52896-87-4	60.0245	607.60	0.3800	219.16	607.60	1,2	432.06	37.447
21154	C10H22	3-ethyl-2-methylheptane	14676-29-0	60.4881	610.90	0.3800	219.16	610.90	1,2	434.36	37.740
21155	C10H22	4-ethyl-2-methylheptane	52896-88-5	60.0774	601.80	0.3800	219.16	601.80	1,2	429.36	37.363
21156	C10H22	5-ethyl-2-methylheptane	13475-78-0	60.6841	606.70	0.3800	219.16	606.70	1,2	432.86	37.740
21157	C10H22	3-ethyl-3-methylheptane	17302-01-1	59.6650	620.00	0.3800	219.16	620.00	1,2	436.96	37.530
21158	C10H22	4-ethyl-3-methylheptane	52896-89-6	60.1714	614.30	0.3800	219.16	614.30	1,2	435.36	37.656
21159	C10H22	3-ethyl-5-methylheptane	52896-90-9	60.4283	606.60	0.3800	219.16	606.60	1,2	431.36	37.698
21160	C10H22	3-ethyl-4-methylheptane	52896-91-0	60.2992	615.50	0.3800	219.16	615.50	1,2	436.16	37.740
21161	C10H22	4-ethyl-4-methylheptane	17302-04-4	59.3366	615.70	0.3800	219.16	615.70	1,2	433.96	37.321
21162	C10H22	2,2,3-trimethylheptane	52896-92-1	58.9571	611.70	0.3800	219.16	611.70	1,2	430.76	37.112
21163	C10H22	2,2,4-trimethylheptane	14720-74-2	58.1829	594.50	0.3800	219.16	594.50	1,2	421.46	36.401
21164	C10H22	2,2,5-trimethylheptane	20291-95-6	58.5865	598.00	0.3800	219.16	598.00	1,2	423.96	36.652
21165	C10H22	2,2,6-trimethylheptane	1190-83-6	58.9015	593.40	0.3800	219.16	593.40	1,2	422.09	36.736
21166	C10H22	2,3,3-trimethylheptane	52896-93-2	58.9090	617.50	0.3800	219.16	617.50	1,2	433.36	37.196
21167	C10H22	2,3,4-trimethylheptane	52896-95-4	59.4001	613.70	0.3800	219.16	613.70	1,2	433.06	37.321
21168	C10H22	2,3,5-trimethylheptane	20278-85-7	59.3141	612.80	0.3800	219.16	612.80	1,2	433.86	37.154
21169	C10H22	2,3,6-trimethylheptane	4032-93-3	59.7691	604.10	0.3800	219.16	604.10	1,2	429.16	37.321
21170	C10H22	2,4,4-trimethylheptane	4032-92-2	57.9383	600.30	0.3800	219.16	600.30	1,2	424.16	36.359
21171	C10H22	2,4,5-trimethylheptane	20278-84-6	59.2441	606.90	0.3800	219.16	606.90	1,2	429.66	37.112
21172	C10H22	2,4,6-trimethylheptane	2613-61-8	59.2851	590.30	0.3800	219.16	590.30	1,2	420.76	36.903
21173	C10H22	2,5,5-trimethylheptane	1189-99-7	58.5997	602.90	0.3800	219.16	602.90	1,2	425.96	36.777
21174	C10H22	3,3,4-trimethylheptane	20278-87-9	58.7257	622.10	0.3800	219.16	622.10	1,2	435.06	37.196
21175	C10H22	3,3,5-trimethylheptane	7154-80-5	58.1821	609.50	0.3800	219.16	609.50	1,2	428.85	36.652
21176	C10H22	3,4,4-trimethylheptane	20278-88-0	58.5314	620.90	0.3800	219.16	620.90	1,2	434.26	37.070
21177	C10H22	3,4,5-trimethylheptane	20278-89-1	60.0120	612.80	0.3800	219.16	612.80	1,2	435.66	37.447
21178	C10H22	3-isopropyl-2-methylhexane	62016-13-1	58.2631	623.40	0.3800	219.16	623.40	1,2	439.86	36.610
21179	C10H22	3,3-diethylhexane	17302-02-2	59.4352	627.80	0.3800	219.16	627.80	1,2	439.46	37.614

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
21180	C10H22	3,4-diethylhexane	19398-77-7	59.9835	618.80	0.3800	219.16	618.80	1,2	437.06	37.656
21181	C10H22	3-ethyl-2,2-dimethylhexane	20291-91-2	58.1104	611.70	0.3800	219.16	611.70	1,2	429.26	36.694
21182	C10H22	4-ethyl-2,2-dimethylhexane	52896-99-8	57.7410	594.60	0.3800	219.16	594.60	1,2	420.16	36.233
21183	C10H22	3-ethyl-2,3-dimethylhexane	52897-00-4	58.5506	626.80	0.3800	219.16	626.80	1,2	436.86	37.196
21184	C10H22	4-ethyl-2,3-dimethylhexane	52897-01-5	59.0782	617.30	0.3800	219.16	617.30	1,2	434.06	37.238
21185	C10H22	3-ethyl-2,4-dimethylhexane	7220-26-0	58.9503	616.10	0.3800	219.16	616.10	1,2	433.26	37.154
21186	C10H22	4-ethyl-2,4-dimethylhexane	52897-03-7	58.5314	620.90	0.3800	219.16	620.90	1,2	434.26	37.070
21187	C10H22	3-ethyl-2,5-dimethylhexane	52897-04-8	58.7773	603.50	0.3800	219.16	603.50	1,2	427.26	36.819
21188	C10H22	4-ethyl-3,3-dimethylhexane	52897-05-9	58.4144	625.70	0.3800	219.16	625.70	1,2	436.06	37.112
21189	C10H22	3-ethyl-3,4-dimethylhexane	52897-06-0	58.2219	624.50	0.3800	219.16	624.50	1,2	435.26	36.987
21190	C10H22	2,2,3,3-tetramethylhexane	13475-81-5	57.1490	623.00	0.3800	219.16	623.00	1,2	433.48	36.359
21191	C10H22	2,2,3,4-tetramethylhexane	52897-08-2	57.2483	620.40	0.3800	219.16	620.40	1,2	431.96	36.401
21192	C10H22	2,2,3,5-tetramethylhexane	52897-09-3	57.3316	601.30	0.3800	219.16	601.30	1,2	421.56	36.233
21193	C10H22	2,2,4,4-tetramethylhexane	51750-65-3	55.3820	610.20	0.3800	219.16	610.20	1,2	426.96	35.062
21194	C10H22	2,2,4,5-tetramethylhexane	16747-42-5	56.8449	598.50	0.3800	219.16	598.50	1,2	421.04	35.815
21195	C10H22	2,2,5,5-tetramethylhexane	1071-81-4	56.1826	581.40	0.3800	260.56	581.40	1,2	410.63	35.271
21196	C10H22	2,3,3,4-tetramethylhexane	52897-10-6	57.8228	633.10	0.3800	260.56	633.10	1,2	437.75	36.987
21197	C10H22	2,3,3,5-tetramethylhexane	52897-11-7	57.2233	610.10	0.3800	260.56	610.10	1,2	426.26	36.275
21198	C10H22	2,3,4,4-tetramethylhexane	52897-12-8	57.4695	626.60	0.3800	260.56	626.60	1,2	434.76	36.652
21199	C10H22	2,3,4,5-tetramethylhexane	52897-15-1	58.2598	613.20	0.3800	260.56	613.20	1,2	429.36	36.861
21200	C10H22	3,3,4,4-tetramethylhexane	5171-84-6	54.3371	646.70	0.3800	260.56	646.70	1,2	443.16	35.020
21201	C10H22	2,4-dimethyl-3-isopropylpentane	13475-79-1	57.4663	614.40	0.3800	191.46	614.40	1,2	430.20	36.359
21202	C10H22	3,3-diethyl-2-methylpentane	52897-16-2	58.7179	639.90	0.3800	191.46	639.90	1,2	442.86	37.530
21203	C10H22	3-ethyl-2,2,3-trimethylpentane	52897-17-3	56.6065	646.00	0.3800	191.46	646.00	1,2	442.66	36.484
21204	C10H22	3-ethyl-2,2,4-trimethylpentane	52897-18-4	56.8595	615.30	0.3800	191.46	615.30	1,2	428.46	36.150
21205	C10H22	3-ethyl-2,3,4-trimethylpentane	52897-19-5	57.7201	642.30	0.3800	191.46	642.30	1,2	442.60	37.028
21206	C10H22	2,2,3,3,4-pentamethylpentane	16747-44-7	56.2084	643.80	0.3800	236.71	643.80	1,2	439.21	36.359
21207	C10H22	2,2,3,4,4-pentamethylpentane	16747-45-8	55.0667	627.30	0.3800	234.41	627.30	1,2	432.45	35.313
21224	C10H22O	1-decanol	112-30-1	117.5000	690.00	0.6510	280.05	690.00	1,2	503.35	46.517
21225	C10H22O	isodecanol	25339-17-7	95.0351	644.00	0.3990	213.15	644.00	1,2	493.00	53.278
21226	C10H22O	2-decanol	1120-06-5	74.0819	673.20	0.3800	270.75	673.20	1,2	490.15	45.164
21227	C10H22O	2-decanol, (±)	74742-10-2	74.0169	629.00	0.3800	271.95	629.00	1,2	484.15	42.363
21228	C10H22O	3-decanol	1565-81-7	84.9611	632.85	0.3800	268.15	632.85	2	483.00	49.145
21229	C10H22O	4-decanol	2051-31-2	84.9885	633.05	0.3800	261.75	633.05	1,2	483.15	49.160
21230	C10H22O	5-decanol	5205-34-5	83.3413	621.25	0.3800	281.85	621.25	1,2	474.15	48.208
21231	C10H22O	2-methyl-1-nonanol	40589-14-8	87.1867	648.77	0.3800	247.78	648.77	1,2	495.15	50.432
21232	C10H22O	4-methyl-1-nonanol	1489-47-0	85.6935	638.09	0.3800	247.78	638.09	1,2	489.15	49.299
21233	C10H22O	5-methyl-1-nonanol	2768-16-3	85.6935	638.09	0.3800	247.78	638.09	2	487.00	49.568
21234	C10H22O	7-methyl-1-nonanol	33234-93-4	85.6935	638.09	0.3800	247.78	638.09	2	487.00	49.568
21235	C10H22O	3-methyl-1-nonanol	22663-64-5	85.6935	638.09	0.3800	247.78	638.09	2	487.00	49.568
21236	C10H22O	2-methyl-2-nonanol	10297-57-1	83.0660	643.93	0.3800	265.20	643.93	2	487.00	48.577
21237	C10H22O	3-methyl-2-nonanol	60671-32-1	84.4188	640.97	0.3800	232.78	640.97	2	487.00	49.099
21238	C10H22O	5-methyl-2-nonanol	66731-95-1	84.4188	640.97	0.3800	232.78	640.97	2	487.00	49.099
21239	C10H22O	6-methyl-2-nonanol	66256-60-8	84.4188	640.97	0.3800	232.78	640.97	2	487.00	49.099
21240	C10H22O	7-methyl-2-nonanol	66256-61-9	84.4188	640.97	0.3800	232.78	640.97	2	487.00	49.099
21241	C10H22O	8-methyl-2-nonanol	14779-92-1	84.4188	640.97	0.3800	232.78	640.97	2	487.00	49.099
21242	C10H22O	2-methyl-3-nonanol	26533-33-5	83.4354	633.80	0.3800	232.78	633.80	1,2	481.55	48.527
21243	C10H22O	3-methyl-3-nonanol	21078-72-8	82.1778	637.32	0.3800	265.20	637.32	2	482.00	48.058
21244	C10H22O	5-methyl-3-nonanol	66719-43-5	83.5166	634.39	0.3800	232.78	634.39	2	482.00	48.574
21245	C10H22O	2-methyl-4-nonanol	26533-31-3	83.5166	634.39	0.3800	232.78	634.39	2	482.00	48.574
21246	C10H22O	4-methyl-4-nonanol	23418-38-4	82.1778	637.32	0.3800	265.20	637.32	2	482.00	48.058
21247	C10H22O	5-methyl-4-nonanol	66719-44-6	83.5166	634.39	0.3800	232.78	634.39	2	482.00	48.574
21248	C10H22O	7-methyl-4-nonanol	26981-98-6	83.5166	634.39	0.3800	232.78	634.39	2	482.00	48.574
21249	C10H22O	2-methyl-5-nonanol	29843-62-7	83.5166	634.39	0.3800	232.78	634.39	2	482.00	48.574
21250	C10H22O	3-methyl-5-nonanol	66779-42-4	83.5166	634.39	0.3800	232.78	634.39	2	482.00	48.574
21251	C10H22O	5-methyl-5-nonanol	33933-78-7	82.1778	637.32	0.3800	265.20	637.32	1,2	475.15	48.853
21252	C10H22O	2-ethyl-1-octanol	20592-10-3	84.7780	631.54	0.3800	247.78	631.54	2	482.00	49.039
21253	C10H22O	3-ethyl-1-octanol	66719-36-6	84.7780	631.54	0.3800	247.78	631.54	2	482.00	49.039
21254	C10H22O	2,2-dimethyl-1-octanol	2370-14-1	82.0268	636.20	0.3800	265.20	636.20	1,2	481.15	47.970
21255	C10H22O	2,6-dimethyl-1-octanol	62417-08-7	83.6970	635.71	0.3800	232.78	635.71	2	483.00	48.679
21256	C10H22O	3,7-dimethyl-1-octanol	106-21-8	84.0849	638.54	0.3800	232.78	638.54	1,2	485.15	48.905
21257	C10H22O	4,5-dimethyl-1-octanol	66719-32-2	84.0579	638.34	0.3800	232.78	638.34	2	485.00	48.889
21258	C10H22O	4,6-dimethyl-1-octanol	66719-33-3	84.0579	638.34	0.3800	232.78	638.34	2	485.00	48.889
21259	C10H22O	4,7-dimethyl-1-octanol	66719-34-4	84.0579	638.34	0.3800	232.78	638.34	2	485.00	48.889
21260	C10H22O	7,7-dimethyl-1-octanol	66719-35-5	82.7106	641.29	0.3800	265.20	641.29	2	485.00	48.370
21261	C10H22O	2,4-dimethyl-2-octanol	18675-20-2	81.4606	644.39	0.3800	250.20	644.39	2	485.00	47.908
21262	C10H22O	2,6-dimethyt-2-octanol	18479-57-7	81.4606	644.39	0.3800	250.20	644.39	2	485.00	47.908
21263	C10H22O	2,7-dimethyl-2-octanol	42007-73-8	81.4606	644.39	0.3800	250.20	644.39	2	485.00	47.908
21264	C10H22O	3,7-dimethyl-2-octanol	15340-96-2	82.7962	641.33	0.3800	217.78	641.33	2	485.00	48.423
21265	C10H22O	3-ethyl-3-octanol	2051-32-3	80.4291	624.30	0.3800	265.20	624.30	1,2	472.15	47.035
21266	C10H22O	6-ethyl-3-octanol	19781-27-2	81.7131	621.23	0.3800	232.78	621.23	2	472.00	47.525
21267	C10H22O	2,2-dimethyl-3-octanol	19841-72-6	78.3124	620.48	0.3800	250.20	620.48	2	467.00	46.057
21268	C10H22O	2,3-dimethyl-3-octanol	19781-10-3	77.4825	614.17	0.3800	250.20	614.17	1,2	462.25	45.569
21269	C10H22O	2,7-dimethyl-3-octanol	66719-55-9	79.6244	617.73	0.3800	217.78	617.73	1,2	467.15	46.568
21270	C10H22O	3,5-dimethyl-3-octanol	56065-42-0	78.1377	619.15	0.3800	250.20	619.15	2	466.00	45.954
21271	C10H22O	3,6-dimethyl-3-octanol	151-19-9	77.9892	618.02	0.3800	250.20	618.02	1,2	465.15	45.867
21272	C10H22O	3,7-dimethyl-3-octanol	78-69-3	78.6882	623.33	0.3800	250.20	623.33	1,2	469.15	46.278
21273	C10H22O	3-ethyl-4-octanol	63126-48-7	80.6318	613.33	0.3800	232.78	613.33	2	466.00	46.896
21274	C10H22O	4-ethyl-4-octanol	38395-42-5	79.3380	616.17	0.3800	265.20	616.17	2	466.00	46.397
21275	C10H22O	2,2-dimethyl-4-octanol	66719-52-6	77.6397	615.36	0.3800	250.20	615.36	1,2	463.15	45.661

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
21276	C10H22O	2,4-dimethyl-4-octanol	33933-79-8	77.7882	616.49	0.3800	250.20	616.49	2	464.00	45.748
21277	C10H22O	2,5-dimethyl-4-octanol	66719-53-7	79.0652	613.56	0.3800	217.78	613.56	2	464.00	46.241
21278	C10H22O	2,6-dimethyl-4-octanol	66719-54-8	79.0652	613.56	0.3800	217.78	613.56	1,2	468.15	45.750
21279	C10H22O	2,7-dimethyl-4-octanol	19781-11-4	79.0652	613.56	0.3800	217.78	613.56	1,2	475.15	44.900
21280	C10H22O	3,4-dimethyl-4-octanol	66719-30-0	77.7882	616.49	0.3800	250.20	616.49	2	464.00	45.748
21281	C10H22O	3,6-dimethyl-4-octanol	66719-31-1	79.0652	613.56	0.3800	217.78	613.56	2	464.00	46.241
21282	C10H22O	4,6-dimethyl-4-octanol	56065-43-1	77.7882	616.49	0.3800	250.20	616.49	2	464.00	45.748
21283	C10H22O	4,7-dimethyl-4-octanol	19781-13-6	77.9892	618.02	0.3800	250.20	618.02	1,2	465.15	45.867
21284	C10H22O	2-propyl-1-heptanol	10042-59-8	86.4354	643.40	0.3800	247.78	643.40	1,2	491.05	49.997
21285	C10H22O	3-isopropyl-1-heptanol	38514-15-7	84.6625	642.75	0.3800	232.78	642.75	1,2	488.35	49.240
21286	C10H22O	2,4,6-trimethyl-2-heptanol	66256-47-1	76.9480	622.25	0.3800	235.20	622.25	2	466.00	45.514
21287	C10H22O	2,5,6-trimethyl-2-heptanol	66256-48-2	76.9738	622.45	0.3800	235.20	622.45	1,2	466.15	45.529
21288	C10H22O	4,6,6-trimethyl-2-heptanol	51079-79-9	76.9480	622.25	0.3800	235.20	622.25	2	466.00	45.514
21289	C10H22O	2-methyl-3-ethyl-3-heptanol	66719-37-7	78.1639	619.35	0.3800	250.20	619.35	1,2	466.15	45.969
21290	C10H22O	4-methyl-5-ethyl-3-heptanol	66731-94-0	79.4202	616.21	0.3800	217.78	616.21	2	466.00	46.449
21291	C10H22O	5-methyl-3-ethyl-3-heptanol	---	78.1377	619.15	0.3800	250.20	619.15	2	466.00	45.954
21292	C10H22O	2,2,3-trimethyl-3-heptanol	29772-40-5	74.5341	616.23	0.3800	267.62	616.23	1,2	459.15	44.339
21293	C10H22O	2,2,6-trimethyl-3-heptanol	66256-43-7	76.4316	618.25	0.3800	235.20	618.25	2	463.00	45.208
21294	C10H22O	2,3,6-trimethyl-3-heptanol	58046-40-5	76.4316	618.25	0.3800	235.20	618.25	2	463.00	45.208
21295	C10H22O	3,5,5-trimethyl-3-heptanol	66256-50-6	76.1603	629.12	0.3800	267.62	629.12	1,2	468.75	45.306
21296	C10H22O	4-propyl-4-heptanol	2198-72-3	79.5420	617.69	0.3800	265.20	617.69	1,2	467.15	46.517
21297	C10H22O	4-isopropyl-4-heptanol	51200-82-9	77.6397	615.36	0.3800	250.20	615.36	1,2	463.15	45.661
21298	C10H22O	2,2,4-trimethyl-4-heptanol	57233-31-5	73.6877	609.52	0.3800	267.62	609.52	1,2	454.15	43.835
21299	C10H22O	2,2,5-trimethyl-4-heptanol	66256-42-6	75.0552	607.56	0.3800	235.20	607.56	2	455.00	44.394
21300	C10H22O	2,2,6-trimethyl-4-heptanol	66256-44-8	75.0552	607.56	0.3800	235.20	607.56	2	455.00	44.394
21301	C10H22O	2,4,5-trimethyl-4-heptanol	66256-46-0	75.0552	607.56	0.3800	235.20	607.56	2	455.00	44.394
21302	C10H22O	2,4,6-trimethyl-4-heptanol	60836-07-9	75.0810	607.76	0.3800	235.20	607.76	1,2	455.15	44.410
21303	C10H22O	3,3,6-trimethyl-4-heptanol	---	75.0552	607.56	0.3800	235.20	607.56	2	455.00	44.394
21304	C10H22O	4-methyl-2-propyl-1-hexanol	66256-62-0	83.3632	633.27	0.3800	232.78	633.27	1,2	481.15	48.485
21305	C10H22O	4-methyl-2-isopropyl-1-hexanol	66719-41-3	80.9329	625.97	0.3800	216.41	625.97	1,2	474.15	47.243
21306	C10H22O	5-methyl-2-isopropyl-1-hexanol	2051-33-4	83.0007	642.85	0.3800	217.78	642.85	1,2	486.15	48.543
21307	C10H22O	5,5-dimethyl-2-ethyl-1-hexanol	---	81.6356	645.72	0.3800	250.20	645.72	2	486.00	48.011
21308	C10H22O	2,3,4,4-tetramethyl-2-hexanol	66256-66-4	74.0562	624.93	0.3800	252.62	624.93	1,2	463.15	44.313
21309	C10H22O	3,3,5,5-tetramethyl-2-hexanol	66256-69-7	74.0312	624.72	0.3800	252.62	624.72	2	463.00	44.298
21310	C10H22O	2-methyl-3-isopropyl-3-hexanol	51200-81-8	76.8738	620.04	0.3800	233.83	620.04	1,2	465.15	45.381
21311	C10H22O	2,2-dimethyl-4-ethyl-3-hexanol	66719-47-9	75.9411	614.44	0.3800	235.20	614.44	1,2	460.15	44.918
21312	C10H22O	2,4-dimethyl-4-ethyl-3-hexanol	66719-48-0	75.9153	614.24	0.3800	235.20	614.24	2	460.00	44.903
21313	C10H22O	5,5-dimethyl-3-ethyl-3-hexanol	5340-62-5	74.6780	617.38	0.3800	267.62	617.38	2	460.00	44.424
21314	C10H22O	2,2,3,4-tetramethyl-3-hexanol	66256-63-1	74.3900	627.63	0.3800	252.62	627.63	1,2	465.15	44.513
21315	C10H22O	2,2,3,5-tetramethyl-3-hexanol	66256-64-2	82.4718	692.84	0.3800	252.62	692.84	2	513.48	49.349
21316	C10H22O	2,2,4,4-tetramethyl-3-hexanol	66256-65-3	74.0562	624.93	0.3800	277.15	624.93	1,2	463.15	44.313
21317	C10H22O	2,2,5,5-tetramethyl-3-hexanol	55073-86-4	70.7224	597.94	0.3800	325.15	597.94	1,2	443.15	42.319
21318	C10H22O	2,3,4,4-tetramethyl-3-hexanol	66256-67-5	75.8924	639.77	0.3800	252.62	639.77	1,2	474.15	45.412
21319	C10H22O	2,3,5,5-tetramethyl-3-hexanol	5396-09-8	76.0344	640.92	0.3800	252.62	640.92	2	475.00	45.497
21320	C10H22O	2,4,4,5-tetramethyl-3-hexanol	66256-68-6	77.2972	637.55	0.3800	220.20	637.55	2	475.00	45.986
21321	C10H22O	3,4,4,5-tetramethyl-3-hexanol	66256-39-1	76.0594	641.12	0.3800	252.62	641.12	1,2	475.15	45.512
21322	C10H22O	3,4,5,5-tetramethyl-3-hexanol	66256-40-4	74.8906	631.67	0.3800	252.62	631.67	1,2	468.15	44.813
21323	C10H22O	4-methyl-2-isobutyl-1-pentanol	22417-45-4	81.4664	629.93	0.3800	216.41	629.93	1,2	477.15	47.555
21324	C10H22O	4,4-dimethyl-3-isopropyl-1-pentanol	66719-51-5	75.2272	608.90	0.3800	235.20	608.90	2	456.00	44.496
21325	C10H22O	3,4-dimethyl-3-isopropyl-2-pentanol	66719-50-4	74.1490	610.96	0.3800	218.83	610.96	2	456.00	44.025
21326	C10H22O	2,4-dimethyl-3-propyl-3-pentanol	---	75.4250	610.43	0.3800	235.20	610.43	1,2	457.15	44.613
21327	C10H22O	2,4-dimethyl-3-isopropyl-3-pentanol	51200-83-0	76.1260	626.57	0.3800	258.45	626.57	1,2	467.65	45.199
21328	C10H22O	2,2,4-trimethyl-3-ethyl-3-pentanol	66256-41-5	74.2231	626.28	0.3800	252.62	626.28	1,2	464.15	44.413
21329	C10H22O	2,2,3,4,4-pentamethyl-3-pentanol	5857-69-2	72.4312	637.91	0.3800	315.25	637.91	1,2	467.55	43.857
21330	C10H22O	2,3-dimethyl-2-tert-butyl-1-butanol	81931-81-9	74.5318	628.77	0.3800	327.15	628.77	2	466.00	44.598
21331	C10H22O	3,7-dimethyl-3-octanol, (±)	57706-88-4	69.0436	629.00	0.3800	304.65	629.00	1,2	469.65	40.976
21332	C10H22O	3,7-dimethyl-1-octanol, (±)	59204-02-3	74.5624	629.00	0.3800	385.65	629.00	1,2	485.65	42.507
21333	C10H22O	3-ethyl-6-methyl-3-heptanol	66719-40-2	70.0724	629.00	0.3800	372.78	629.00	2	472.78	41.275
21334	C10H22O	8-methyl-1-nonanol	55505-26-5	70.0724	629.00	0.3800	372.78	629.00	2	472.78	41.275
21335	C10H22O	di-pentyl ether	693-65-2	69.4618	622.00	0.3800	203.72	622.00	1,2	459.90	41.670
21336	C10H22O	diisopentyl ether	544-01-4	62.4581	622.00	0.3800	345.65	622.00	1,2	445.65	38.688
21337	C10H22O	ethyl octyl ether	929-61-3	66.6112	622.00	0.3800	285.65	622.00	1,2	459.45	40.002
21338	C10H22O	(S)-(+)-2-decanol	33758-16-6	74.0169	629.00	0.3800	384.15	629.00	1,2	484.15	42.363
21339	C10H22O	(R)-3,7-dimethyl-1-octanol	1117-60-8	74.5807	629.00	0.3800	385.70	629.00	1,2	485.70	42.512
21340	C10H22O	s-3,7-dimethyl-1-octanol	68680-98-8	75.0000	629.00	0.3800	278.15	629.00	2	485.00	42.830
21341	C10H22O	decyl alcohol (mixed isomers)	85566-12-7	70.0724	629.00	0.3800	372.78	629.00	2	472.78	41.275
21347	C10H22O2	1,2-decanediol	1119-86-4	119.0792	697.08	0.3800	322.15	697.08	2	553.15	65.387
21348	C10H22O2	1,4-decanediol	37810-94-9	126.2171	737.41	0.3800	301.15	737.41	2	585.15	69.306
21349	C10H22O2	1,10-decanediol	112-47-0	124.7802	719.06	0.3800	345.15	719.06	2	572.15	68.242
21350	C10H22O2	2,9-decanediol	14021-92-2	70.1407	716.12	0.3800	306.15	716.12	2	503.47	44.217
21351	C10H22O2	3,7-dimethyl-1,7-octanediol	107-74-4	80.7262	716.12	0.3800	438.15	716.12	1,2	538.15	47.561
21352	C10H22O2	3,4-diethyl-3,4-hexanediol	6931-71-1	70.0526	716.12	0.3800	301.15	716.12	1,2	503.15	44.187
21355	C10H22O2	ethylene glycol dibutyl ether	112-48-1	66.5408	672.00	0.3800	204.05	672.00	1,2	476.45	41.626
21356	C10H22O2	ethylene glycol diisobutyl ether	54922-86-0	58.2102	672.00	0.3800	344.45	672.00	1,2	444.45	38.573
21357	C10H22O2	(S)-1,2-decanediol	84276-14-2	70.1407	716.12	0.3800	333.15	716.12	2	503.47	44.217
21358	C10H22O2	(R)-1,2-decanediol	87827-60-9	70.1407	716.12	0.3800	334.15	716.12	2	503.47	44.217
21359	C10H22O2	2-(2-ethylhexyloxy)ethanol	1559-35-9	74.3572	672.00	0.3800	402.15	672.00	1,2	502.15	44.091
21360	C10H22O2	2-(octyloxy)ethanol	10020-43-6	74.7917	672.00	0.3800	403.47	672.00	2	503.47	44.217
21362	C10H22O2	1,3-decanediol	6071-27-8	121.5313	710.95	0.3800	403.47	710.95	2	503.47	76.110
21380	C10H22O5	tetraethylene glycol dimethyl ether	143-24-8	102.6065	705.00	0.3800	243.45	705.00	1,2	548.95	57.850

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
21385	C10H22S	decyl mercaptan	143-10-2	82.3700	696.00	0.4170	247.56	696.00	1,2	512.35	47.259
21386	C10H22S	2-decanethiol	13402-60-3	73.3193	690.00	0.3800	231.15	690.00	1,2	501.45	44.783
21387	C10H22S	dipentyl sulfide	872-10-6	79.6638	701.03	0.3800	238.16	701.03	2	500.00	49.559
21388	C10H22S	methyl nonyl sulfide	59973-07-8	79.6638	701.03	0.3800	238.16	701.03	2	500.00	49.559
21389	C10H22S	ethyl octyl sulfide	3698-94-0	79.6638	701.03	0.3800	238.16	701.03	2	500.00	49.559
21390	C10H22S	propyl heptyl sulfide	24768-46-5	79.6638	701.03	0.3800	238.16	701.03	2	500.00	49.559
21391	C10H22S	butyl hexyl sulfide	16967-04-7	79.6638	701.03	0.3800	238.16	701.03	2	500.00	49.559
21392	C10H22S	bis(2-methylbutyl) sulfide	96034-00-3	38.8663	701.03	0.3800	338.15	701.03	1,2	438.15	26.773
21393	C10H22S	diisopentyl sulfide	544-02-5	61.8802	701.03	0.3800	198.55	701.03	1,2	489.20	39.269
21394	C10H22S2	dipentyl disulfide	112-51-6	85.0160	726.94	0.3800	214.16	726.94	1,2	537.06	51.045
21395	C10H22S2	diisopentyl disulfide	2051-04-9	73.8851	726.94	0.3800	420.15	726.94	1,2	520.15	45.824
21400	C10H23N	decylamine	2016-57-1	73.0901	663.00	0.3260	288.85	663.00	1,2	493.65	46.841
21401	C10H23N	methylnonylamine	39093-27-1	74.3697	649.40	0.3800	254.62	649.40	1,2	480.15	44.615
21402	C10H23N	dimethyloctylamine	7378-99-6	64.4732	650.60	0.3800	198.15	650.60	1,2	464.15	40.099
21403	C10H23N	diethylhexylamine	44979-90-0	67.8826	617.59	0.3800	234.43	617.59	1,2	452.15	41.150
21404	C10H23N	ethyloctylamine	4088-36-2	73.2942	642.40	0.3800	254.62	642.40	1,2	475.15	43.952
21405	C10H23N	dipentylamine	2050-92-2	73.5760	644.40	0.3800	240.15	644.40	1,2	476.15	44.169
21406	C10H23N	diisopentylamine	544-00-3	64.7524	644.56	0.3800	229.15	644.56	1,2	461.15	40.164
21407	C10H23N	N,N-diisopropylisobutylamine	44976-81-0	62.0000	644.56	0.3800	246.15	644.56	2	445.00	39.710
21408	C10H23NO	N,N-diisobutylethanolamine	4535-66-4	62.4026	770.00	0.3800	387.15	770.00	1,2	487.15	42.651
21409	C10H23NO	2-dibutylaminoethanol	102-81-8	62.4026	770.00	0.3800	387.15	770.00	2	487.15	42.651
21601	C11H10	1-methylnaphthalene	90-12-0	72.7377	772.04	0.4160	242.67	772.04	1,2	517.83	45.821
21602	C11H10	2-methylnaphthalene	91-57-6	72.9371	761.00	0.4040	307.73	761.00	1,2	514.20	46.278
21603	C11H10	methylnaphthalene	1321-94-4	70.1244	766.52	0.3800	307.15	766.52	1,2	515.15	45.906
21702	C11H11N	3-ethylquinoline	1873-54-7	78.6348	775.67	0.3800	305.55	775.67	1,2	539.15	50.074
21703	C11H11N	6-ethylquinoline	19655-60-8	78.1549	771.14	0.3800	316.82	771.14	2	536.00	49.768
21704	C11H11N	8-ethylquinoline	19655-56-2	77.1116	761.28	0.3800	316.82	761.28	1,2	529.15	49.104
21705	C11H11N	2,3-dimethylquinoline	1721-89-7	78.5734	774.45	0.3800	343.15	774.45	1,2	536.15	50.207
21706	C11H11N	2,4-dimethylquinoline	1198-37-4	78.7805	776.40	0.3800	288.00	776.40	1,2	540.36	50.110
21707	C11H11N	2,6-dimethylquinoline	877-43-0	78.5064	773.81	0.3800	330.45	773.81	1,2	538.56	49.935
21708	C11H11N	2,7-dimethylquinoline	93-37-8	78.5734	774.45	0.3800	334.15	774.45	1,2	537.65	50.087
21709	C11H11N	2,8-dimethylquinoline	1463-17-8	76.1608	751.67	0.3800	334.15	751.67	1,2	523.15	48.443
21710	C11H11N	3,4-dimethylquinoline	2436-92-2	77.6597	765.83	0.3800	347.15	765.83	1,2	564.15	46.773
21711	C11H11N	3,6-dimethylquinoline	20668-26-2	79.2056	780.41	0.3800	330.15	780.41	1,2	543.15	50.380
21712	C11H11N	3,7-dimethylquinoline	20668-28-4	79.3579	781.85	0.3800	352.15	781.85	1,2	544.15	50.477
21713	C11H11N	3,8-dimethylquinoline	20668-29-5	77.8348	767.48	0.3800	300.45	767.48	1,2	534.15	49.508
21714	C11H11N	4,5-dimethylquinoline	59129-74-7	78.4211	773.01	0.3800	351.15	773.01	2	538.00	49.881
21715	C11H11N	4,6-dimethylquinoline	826-77-7	79.5103	783.28	0.3800	300.45	783.28	1,2	545.15	50.574
21716	C11H11N	4,8-dimethylquinoline	13362-80-6	79.6399	784.50	0.3800	330.15	784.50	2	546.00	50.656
21717	C11H11N	5,6-dimethylquinoline	20668-30-8	79.6399	784.50	0.3800	323.15	784.50	2	546.00	50.656
21718	C11H11N	5,7-dimethylquinoline	20150-89-4	79.8151	786.16	0.3800	295.15	786.16	1,2	547.15	50.768
21719	C11H11N	6,7-dimethylquinoline	20668-33-1	79.7923	785.94	0.3800	331.15	785.94	2	547.00	50.753
21720	C11H11N	2,5-dimethylquinoline	26190-82-9	81.0880	775.10	0.3800	334.15	775.10	1,2	537.65	51.727
21721	C11H11N	5,8-dimethylquinoline	2623-50-9	82.1832	775.10	0.3800	275.45	775.10	1,2	539.15	52.300
21722	C11H11N	6,8-dimethylquinoline	2436-93-3	84.0557	775.10	0.3800	441.65	775.10	1,2	541.65	53.275
21723	C11H11N	2-ethylquinoline	1613-34-9	68.8289	775.10	0.3800	418.65	775.10	1,2	518.65	45.210
21791.1	C11H12	p-isopropylenylstyrene	16262-48-9	0.0749	741.00	0.4096	210.00	741.00	1,2	515.00	0.046
22025	C11H14	1-methyl-[1,2,3,4-tetrahydronaphthalene]	1559-81-5	67.5630	722.13	0.3800	232.30	722.13	1,2	493.74	43.625
22026	C11H14	2-methyl-[1,2,3,4-tetrahydronaphthalene]	3877-19-8	67.4782	721.27	0.3800	230.15	721.27	1,2	493.15	43.570
22027	C11H14	1,2,3,4-tetrahydro-5-methylnaphthalene	2809-64-5	70.6728	721.70	0.3800	250.15	721.70	1,2	507.15	44.572
22028	C11H14	1,2,3,4-tetrahydro-6-methylnaphthalene	1680-51-9	73.9013	721.70	0.3800	233.15	721.70	1,2	502.15	47.017
22035	C11H14	(1-ethylallyl)benzene	19947-22-9	61.0854	703.00	0.3800	364.65	703.00	1,2	464.65	40.498
22036	C11H14	(1-ethyl-1-propenyl)benzene	4701-36-4	62.4293	703.00	0.3800	370.15	703.00	1,2	470.15	41.024
22037	C11H14	4-isopropylstyrene	2055-40-5	65.6236	685.00	0.3800	228.45	685.00	1,2	477.25	41.703
22038	C11H14	(1-methyl-1-butenyl)benzene	53172-84-2	63.6799	703.00	0.3800	375.15	703.00	1,2	475.15	41.502
22039	C11H14	1-pentenylbenzene	826-18-6	67.6118	703.00	0.3800	390.15	703.00	1,2	490.15	42.939
22040	C11H14	3-pentenylbenzene	1745-16-0	63.4275	703.00	0.3800	374.15	703.00	1,2	474.15	41.406
22041	C11H14	4-pentenylbenzene	1075-74-7	63.4275	703.00	0.3800	374.15	703.00	1,2	474.15	41.406
22042	C11H14	2-vinyl-1,3,5-trimethylbenzene	769-25-5	65.4798	703.00	0.3800	236.15	703.00	1,2	482.15	42.172
22054	C11H14Cl2	2,4-bis(chloromethyl)-1,3,5-trimethylbenzene	1585-17-7	80.4106	810.00	0.3800	378.65	810.00	2	570.00	50.649
22113	C11H14O2	butyl benzoate	136-60-7	73.0306	724.00	0.3070	251.65	724.00	1,2	523.15	49.266
22304	C11H16	pentylbenzene	538-68-1	64.4000	679.90	0.3460	198.15	679.90	1,2	478.61	42.265
22305	C11H16	2-phenylpentane	2719-52-0	64.2661	663.62	0.3800	224.65	663.62	1,2	463.15	40.778
22306	C11H16	3-phenylpentane	1196-58-3	64.4114	665.05	0.3800	224.65	665.05	1,2	464.15	40.870
22307	C11H16	1-phenyl-2-methylbutane	3968-85-2	65.2836	673.65	0.3800	224.65	673.65	1,2	470.15	41.424
22308	C11H16	1-phenyl-3-methylbutane	2049-94-7	65.5599	676.37	0.3800	224.65	676.37	1,2	472.05	41.599
22309	C11H16	2-phenyl-2-methylbutane	2049-95-8	62.5981	676.93	0.3800	242.07	676.93	1,2	465.53	40.225
22310	C11H16	2-phenyl-3-methylbutane	4481-30-5	62.9964	665.60	0.3800	209.65	665.60	1,2	461.15	40.227
22311	C11H16	1-phenyl-2,2-dimethylpropane	1007-26-7	61.6992	667.65	0.3800	242.07	667.65	1,2	459.15	39.647
22312	C11H16	1-methyl-2-butylbenzene	1595-11-5	67.9005	683.67	0.3800	252.17	683.67	1,2	481.15	42.765
22313	C11H16	1-methyl-3-butylbenzene	1595-04-6	67.4574	679.41	0.3800	252.17	679.41	1,2	478.15	42.486
22314	C11H16	1-methyl-4-butylbenzene	1595-05-7	67.7528	682.25	0.3800	252.17	682.25	1,2	480.15	42.672
22315	C11H16	1-methyl-2-sec-butylbenzene	1595-06-8	65.1144	671.35	0.3800	237.17	671.35	1,2	469.15	41.270
22316	C11H16	1-methyl-3-sec-butylbenzene	1772-10-7	64.8238	668.49	0.3800	237.17	668.49	1,2	467.15	41.086
22317	C11H16	1-methyl-4-sec-butylbenzene	1595-16-0	65.2598	672.78	0.3800	237.17	672.78	1,2	470.15	41.362
22318	C11H16	1-methyl-2-isobutylbenzene	36301-29-8	65.1144	671.35	0.3800	237.17	671.35	1,2	469.15	41.270
22319	C11H16	1-methyl-3-isobutylbenzene	5160-99-6	64.8238	668.49	0.3800	237.17	668.49	1,2	467.15	41.086
22320	C11H16	1-methyl-4-isobutylbenzene	5161-04-6	65.1144	671.35	0.3800	237.17	671.35	1,2	469.15	41.270
22321	C11H16	1-methyl-2-tert-butyl benzene	1074-92-6	63.7147	687.73	0.3800	222.83	687.73	1,2	473.60	40.896
22322	C11H16	1-methyl-3-tert-butylbenzene	1075-38-3	62.1377	671.48	0.3800	231.78	671.48	1,2	462.41	39.884

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
22323	C11H16	1-methyl-4-tert-butylbenzene	98-51-1	62.6307	676.56	0.3800	220.64	676.56	1,2	465.91	40.200
22324	C11H16	1-ethyl-2-propylbenzene	16021-20-8	67.1620	676.56	0.3800	252.17	676.56	1,2	476.15	42.300
22325	C11H16	1-ethyl-3-propylbenzene	20024-91-3	66.8668	673.72	0.3800	252.17	673.72	1,2	474.15	42.114
22326	C11H16	1-ethyl-4-propylbenzene	20024-90-2	67.4574	679.41	0.3800	252.17	679.41	1,2	478.15	42.486
22327	C11H16	1-ethyl-2-isopropylbenzene	18970-44-0	64.2426	662.77	0.3800	237.17	662.77	1,2	463.15	40.717
22328	C11H16	1-ethyl-3-isopropylbenzene	4920-99-4	64.5331	665.63	0.3800	237.17	665.63	1,2	465.15	40.902
22329	C11H16	1-ethyl-4-isopropylbenzene	4218-48-8	65.2016	672.21	0.3800	237.17	672.21	1,2	469.75	41.325
22330	C11H16	1,2-dimethyl-3-propylbenzene	17059-44-8	68.2737	686.65	0.3800	264.69	686.65	1,2	483.85	42.952
22331	C11H16	1,2-dimethyl-4-propylbenzene	3982-66-9	68.0079	684.10	0.3800	264.69	684.10	1,2	482.05	42.785
22332	C11H16	1,3-dimethyl-2-propylbenzene	17059-45-9	67.8159	682.26	0.3800	264.69	682.26	1,2	480.75	42.664
22333	C11H16	1,3-dimethyl-4-propylbenzene	61827-85-8	67.6682	680.84	0.3800	264.69	680.84	1,2	479.75	42.571
22334	C11H16	1,3-dimethyl-5-propylbenzene	3982-64-7	67.0246	674.65	0.3800	214.05	674.65	1,2	475.39	42.166
22335	C11H16	1,4-dimethyl-2-propylbenzene	3042-50-0	67.3287	677.57	0.3800	264.69	677.57	1,2	477.45	42.357
22336	C11H16	1,2-dimethyl-3-isopropylbenzene	22539-65-7	66.0503	679.93	0.3800	249.69	679.93	1,2	475.75	41.816
22337	C11H16	1,2-dimethyl-4-isopropylbenzene	4132-77-8	65.9340	678.79	0.3800	249.69	678.79	1,2	474.95	41.742
22338	C11H16	1,3-dimethyl-2-isopropylbenzene	14411-75-7	65.5269	674.78	0.3800	249.69	674.78	1,2	472.15	41.485
22339	C11H16	1,3-dimethyl-4-isopropylbenzene	4706-89-2	65.5415	674.93	0.3800	249.69	674.93	1,2	472.25	41.494
22340	C11H16	1,3-dimethyl-5-isopropylbenzene	4706-90-5	64.8730	668.35	0.3800	249.69	668.35	1,2	467.65	41.071
22341	C11H16	1,4-dimethyl-2-isopropylbenzene	4132-72-3	65.1200	670.78	0.3800	249.69	670.78	1,2	469.35	41.227
22342	C11H16	1-methyl-2,3-diethylbenzene	13632-93-4	67.6682	680.84	0.3800	264.69	680.84	1,2	479.75	42.571
22343	C11H16	1-methyl-2,4-diethylbenzene	1758-85-6	67.4320	678.57	0.3800	264.69	678.57	1,2	478.15	42.422
22344	C11H16	1-methyl-2,5-diethylbenzene	13632-94-5	67.7421	681.55	0.3800	264.69	681.55	1,2	480.25	42.617
22345	C11H16	1-methyl-2,6-diethyl benzene	13632-95-6	67.9931	683.96	0.3800	264.69	683.96	1,2	481.95	42.775
22346	C11H16	1-methyl-3,4-diethylbenzene	13732-80-4	67.2253	676.58	0.3800	264.69	676.58	1,2	476.75	42.292
22347	C11H16	1-methyl-3,5-diethylbenzene	2050-24-0	66.7973	672.46	0.3800	199.03	672.46	1,2	473.85	42.023
22348	C11H16	1,2,3-trimethyl-4-ethylbenzene	61827-86-9	69.6814	699.56	0.3800	277.21	699.56	1,2	493.55	43.788
22349	C11H16	1,2,3-trimethyl-5-ethylbenzene	31366-00-4	69.0017	693.04	0.3800	277.21	693.04	1,2	488.95	43.361
22350	C11H16	1,2,4-trimethyl-3-ethylbenzene	61827-87-0	69.1198	694.17	0.3800	277.21	694.17	1,2	489.75	43.436
22351	C11H16	1,2,4-trimethyl-5-ethylbenzene	17851-27-3	68.5880	689.07	0.3800	259.65	689.07	1,2	486.15	43.101
22352	C11H16	1,2,4-trimethyl-6-ethylbenzene	---	68.5880	689.07	0.3800	277.21	689.07	1,2	486.15	43.101
22353	C11H16	1,3,5-trimethyl-2-ethylbenzene	3982-67-0	68.4994	688.22	0.3800	257.65	688.22	1,2	485.55	43.046
22354	C11H16	pentamethylbenzene	700-12-9	71.3411	714.84	0.3800	327.45	714.84	1,2	504.95	44.781
22355	C11H16	1-ethyl-2,3,5-trimethylbenzene	18262-85-6	68.7502	678.03	0.3800	386.15	678.03	1,2	486.15	42.555
22356	C11H16	sec-pentylbenzene	29316-05-0	65.5453	678.03	0.3800	203.25	678.03	1,2	473.15	41.595
22399	C11H16O	p-tert-amylphenol	80-46-6	85.2819	751.00	0.3890	366.00	751.00	1,2	535.15	52.507
22400	C11H16O	2-butyl-4-methylphenol	6891-45-8	62.7237	751.00	0.3800	292.15	751.00	1,2	501.15	41.286
22401	C11H16O	2-tert-butyl-4-methylphenol	2409-55-4	67.8415	751.00	0.3800	324.65	751.00	1,2	510.15	44.037
22402	C11H16O	2-tert-butyl-5-methylphenol	88-60-8	55.5616	751.00	0.3800	319.65	751.00	2	486.71	37.361
22403	C11H16O	2-tert-butyl-6-methylphenol	2219-82-1	63.8136	751.00	0.3800	304.15	751.00	1,2	503.15	41.876
22404	C11H16O	4-tert-butyl-2-methylphenol	98-27-1	67.8415	751.00	0.3800	300.65	751.00	1,2	510.15	44.037
22405	C11H16O	4-isopentylphenol	1805-61-4	73.9334	751.00	0.3800	302.15	751.00	1,2	528.15	46.595
22406	C11H16O	5-methyl-2-sec-butylphenol	29472-95-5	73.5610	751.00	0.3800	419.15	751.00	1,2	519.15	47.063
22407	C11H16O	pentamethylphenol	2819-86-5	77.3840	751.00	0.3800	401.15	751.00	1,2	540.15	47.755
22408	C11H16O	4-pentylphenol	14938-35-3	76.6780	751.00	0.3800	296.15	751.00	1,2	523.65	48.694
22439	C11H16O	2-(1-methylbutyl)phenol	87-26-3	71.3170	751.00	0.3800	415.74	751.00	1,2	515.74	45.882
22440	C11H16O	o-amylphenol	136-81-2	55.5616	751.00	0.3800	386.71	751.00	2	486.71	37.361
22441	C11H16O	2-sec-amylphenol	26401-74-1	30.6767	751.00	0.3800	307.65	751.00	1,2	407.65	22.785
22442	C11H16O	4-sec-amylphenol	25735-67-5	31.1097	751.00	0.3800	309.65	751.00	1,2	409.65	23.055
22492	C11H17N	N,N-diethyl-2-methylaniline	606-46-2	65.7141	700.00	0.3800	213.15	700.00	1,2	482.15	42.172
22493	C11H17N	N,N-diethyl-4-methylaniline	613-48-9	71.2651	700.00	0.3800	402.15	700.00	1,2	502.15	44.091
22494	C11H17N	4-isopentylaniline	104177-72-2	80.1402	700.00	0.3800	430.15	700.00	1,2	530.15	46.788
22495	C11H17N	N-isopentylaniline	2051-84-5	79.2854	700.00	0.3800	427.65	700.00	1,2	527.65	46.547
22496	C11H17N	2,3,4,5,6-pentamethylaniline	2243-30-3	87.7211	700.00	0.3800	425.65	700.00	1,2	550.65	48.771
22497	C11H17N	p-tert-pentylaniline	2049-92-5	81.3605	700.00	0.3800	433.65	700.00	1,2	533.65	47.127
22501	C11H17N	N,N-diethyl-m-toluidine	91-67-8	72.0007	700.00	0.3800	404.65	700.00	1,2	504.65	44.331
22502	C11H17N	N-ethyl-N-isopropylaniline	54813-77-3	69.8233	700.00	0.3800	397.15	700.00	1,2	497.15	43.610
22503	C11H17N	N,N,2,4,6-pentamethylaniline	13021-15-3	67.0497	700.00	0.3800	387.15	700.00	1,2	487.15	42.651
22504	C11H17N	4-pentylaniline	33228-44-3	80.0000	700.00	0.3800	389.00	700.00	2	535.00	46.195
22505	C11H17N	N-pentylaniline	2655-27-8	80.4861	700.00	0.3800	431.15	700.00	1,2	531.15	46.885
22554	C11H18	1-undecen-3-yne	74744-28-8	69.1704	640.00	0.3800	374.15	640.00	2	474.15	41.406
22586	C11H18O	2-heptylfuran	3777-71-7	64.8777	660.00	0.3800	366.65	660.00	2	466.65	40.689
22634	C11H18S	3-heptylthiophene	65016-61-7	73.7824	725.00	0.3800	419.15	725.00	2	519.15	45.727
22665	C11H20	1-methyl-cis-decahydronaphthalene	---	68.9890	752.51	0.3800	225.04	752.51	1,2	516.15	44.429
22666	C11H20	1-methyl-trans-decahydronaphthalene	---	67.8685	740.84	0.3800	237.65	740.84	1,2	508.15	43.707
22667	C11H20	2-methyl-cis-decahydronaphthalene	---	65.2105	713.14	0.3800	225.04	713.14	1,2	489.15	41.995
22668	C11H20	2-methyl-trans-decahydronaphthalene	4683-94-7	64.0928	701.48	0.3800	237.65	701.48	1,2	481.15	41.275
22669	C11H20	4a-methyl-cis-decahydronaphthalene	2547-26-4	65.0708	711.69	0.3800	225.04	711.69	1,2	488.15	41.905
22670	C11H20	4a-methyl-trans-decahydronaphthalene	2547-27-5	63.6739	697.11	0.3800	237.65	697.11	1,2	478.15	41.006
22671	C11H20	1-hexylcyclopentene	4291-99-0	66.9069	665.48	0.3800	189.32	665.48	1,2	473.15	41.747
22672	C11H20	1-undecyne	2243-98-3	68.1102	650.99	0.3800	248.16	650.99	1,2	468.16	42.037
22673	C11H20	2-undecyne	60212-29-5	68.0941	669.50	0.3800	319.33	669.50	1,2	479.15	42.224
22674	C11H20	3-undecyne	60212-30-8	67.2014	661.12	0.3800	319.33	661.12	1,2	473.15	41.670
22675	C11H20	4-undecyne	60212-31-9	66.2451	660.54	0.3800	198.45	660.54	1,2	471.65	41.167
22676	C11H20	5-undecyne	2294-72-6	66.1018	660.54	0.3800	199.05	660.54	1,2	471.15	41.119
22677	C11H20	3,3-dimethyl-4-nonyne	29022-31-9	69.7164	660.54	0.3800	383.34	660.54	2	483.34	42.285
22701	C11H20O2	2-ethylhexyl acrylate	103-11-7	76.8670	655.00	0.3800	183.15	655.00	1,2	489.15	45.610
22704	C11H20O2	cis-9-undecenoic acid	116836-30-7	74.7714	796.00	0.3800	275.65	796.00	2	545.00	48.224
22705	C11H20O2	trans-9-undecenoic acid	37973-84-5	75.0750	796.00	0.3800	292.15	796.00	1,2	546.15	48.336
22706	C11H20O2	10-undecenoic acid	112-38-9	75.6063	796.00	0.3800	297.65	796.00	1,2	548.15	48.529
22707	C11H20O2	vinyl nonanoate	6280-03-1	77.9025	672.00	0.3800	412.58	672.00	2	512.58	45.094

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
22708	C11H20O2	allyl octanoate	4230-97-1	73.0599	672.00	0.3800	398.15	672.00	1,2	498.15	43.706
22713	C11H20O2	N-octyl acrylate	2499-59-4	77.9025	672.00	0.3800	412.58	672.00	2	512.58	45.094
22714	C11H20O2	citronellyl formate	105-85-1	77.9025	672.00	0.3800	412.58	672.00	2	512.58	45.094
22715	C11H20O2	cis-3-hexenyl 2-methylbutyrate	53398-85-9	77.9025	672.00	0.3800	412.58	672.00	2	512.58	45.094
22716	C11H20O2	cis-3-hexenyl valerate	35852-46-1	77.9025	672.00	0.3800	412.58	672.00	2	512.58	45.094
22718	C11H20O2	isooctyl acrylate	29590-42-9	77.9025	672.00	0.3800	412.58	672.00	2	512.58	45.094
22749	C11H21Br	cis-1-bromo-1-undecene	66142-59-4	80.2772	699.36	0.3800	267.95	699.36	1,2	517.15	48.153
22750	C11H21Br	trans-1-bromo-1-undecene	66142-60-7	80.2772	699.36	0.3800	267.95	699.36	1,2	517.15	48.153
22751	C11H21Br	11-bromo-1-undecene	7766-50-9	75.9121	699.36	0.3800	417.15	699.36	2	517.15	45.534
22755	C11H21Br3	1,1,1-tribromoundecane	62127-68-8	102.1927	795.21	0.3800	395.05	795.21	1,2	599.15	60.026
22756	C11H21Cl	cis-1-chloro-1-undecene	66172-73-4	77.7950	700.84	0.3800	238.07	700.84	1,2	517.15	46.770
22757	C11H21Cl	trans-1-chloro-1-undecene	66142-61-8	77.7950	700.84	0.3800	238.07	700.84	1,2	517.15	46.770
22762	C11H21Cl3	1,1,1-trichloroundecane	3922-25-6	85.3977	738.37	0.3800	305.41	738.37	1,2	553.15	50.492
22764	C11H21F	cis-1-fluoro-1-undecene	66172-74-5	67.9344	615.67	0.3800	240.30	615.67	2	454.51	40.822
22765	C11H21F	trans-1-fluoro-1-undecene	66142-62-9	67.9344	615.67	0.3800	240.30	615.67	2	454.51	40.822
22767	C11H21F3	1,1,1-trifluoroundecane	62126-97-0	69.4487	620.00	0.3800	312.10	620.00	1,2	462.15	41.294
22768	C11H21I	cis-1-iodo-1-undecene	66142-63-0	81.1599	735.45	0.3800	266.21	735.45	1,2	541.15	48.941
22769	C11H21I	trans-1-iodo-1-undecene	66142-64-1	81.1599	735.45	0.3800	266.21	735.45	1,2	541.15	48.941
22770	C11H21I3	1,1,1-triiodoundecane	---	112.0096	978.49	0.3800	389.83	978.49	2	727.27	66.814
22771	C11H21N	undecanenitrile	2244-07-7	86.3407	706.20	0.3800	267.35	706.20	1,2	533.15	50.598
22791	C11H22	hexylcyclopentane	4457-00-5	66.1879	667.67	0.3800	200.16	667.67	1,2	476.26	41.171
22792	C11H22	pentylcyclohexane	4292-92-6	65.1511	674.01	0.3800	215.66	674.01	1,2	476.87	40.836
22793	C11H22	isopentylcyclohexane	54105-76-9	61.5788	674.01	0.3800	369.65	674.01	1,2	469.65	39.128
22794	C11H22	cycloundecane	294-41-7	64.8082	728.78	0.3800	251.45	728.78	1,2	494.15	42.130
22795	C11H22	1-undecene	821-95-4	73.5753	638.00	0.4330	223.99	638.00	1,2	465.82	41.728
22796	C11H22	cis-2-undecene	821-96-5	67.8763	637.84	0.3800	206.65	637.84	1,2	469.25	40.938
22797	C11H22	trans-2-undecene	693-61-8	66.7679	637.84	0.3800	224.85	637.84	1,2	465.65	40.594
22798	C11H22	3-undecene	60669-40-1	67.0732	637.84	0.3800	211.15	637.84	1,2	466.65	40.689
22799	C11H22	cis-4-undecene	821-98-7	66.7983	637.84	0.3800	176.15	637.84	1,2	465.75	40.603
22800	C11H22	trans-4-undecene	693-62-9	66.9203	637.84	0.3800	209.45	637.84	1,2	466.15	40.641
22801	C11H22	cis-5-undecene	764-96-5	66.7070	637.84	0.3800	166.65	637.84	1,2	465.45	40.575
22802	C11H22	trans-5-undecene	764-97-6	66.6159	637.84	0.3800	212.05	637.84	1,2	465.15	40.546
22803	C11H22	2-methyl-1-decene	13151-27-4	67.0585	637.68	0.3800	221.67	637.68	1,2	463.85	40.921
22805	C11H22Br2	1,1-dibromoundecane	62168-28-9	93.8173	754.56	0.3800	317.83	754.56	1,2	567.15	55.261
22806	C11H22Br2	1,11-dibromoundecane	16696-65-4	85.5165	754.56	0.3800	439.15	754.56	2	567.15	50.372
22807	C11H22Cl2	1,1-dichloroundecane	822-01-5	83.4931	720.08	0.3800	258.07	720.08	1,2	539.15	49.397
22809	C11H22F2	1,1-difluoroundecane	62127-44-0	70.6397	640.20	0.3800	262.53	640.20	1,2	475.15	42.203
22810	C11H22I2	1,1-diiodoundecane	66142-53-8	98.4017	855.13	0.3800	314.35	855.13	2	636.92	58.560
22822	C11H22O	undecanal	112-44-7	78.1719	672.00	0.3460	273.15	672.00	1,2	506.15	48.173
22823	C11H22O	2-undecanone	112-12-9	76.4173	678.01	0.3800	285.95	678.01	1,2	500.98	45.875
22824	C11H22O	3-undecanone	2216-87-7	72.9950	678.01	0.3800	285.15	678.01	1,2	500.15	43.899
22825	C11H22O	4-undecanone	14476-37-0	75.4108	678.01	0.3800	275.45	678.01	2	507.63	44.617
22826	C11H22O	5-undecanone	33083-83-9	72.9950	678.01	0.3800	274.15	678.01	1,2	500.15	43.899
22827	C11H22O	6-undecanone	927-49-1	73.3117	678.01	0.3800	287.65	678.01	1,2	501.15	43.995
22828	C11H22O	10-undecen-1-ol	112-43-6	84.4076	657.00	0.3800	272.15	657.00	1,2	523.15	46.113
22829	C11H22O	2-undecen-4-ol	22381-86-8	78.3345	657.00	0.3800	407.63	657.00	2	507.63	44.617
22830	C11H22O	9-undecen-1-ol	112-46-9	83.7872	657.00	0.3800	279.15	657.00	1,2	521.65	45.968
22831	C11H22O	4-tert-amylcyclohexanol	5349-51-9	75.7944	675.00	0.3800	298.65	675.00	2	507.63	44.617
22834	C11H22O	2-methyl-1-decanal	19009-56-4	76.1880	672.00	0.3800	407.63	672.00	2	507.63	44.617
22835	C11H22O2	undecanoic acid	112-37-8	98.6925	725.00	0.3800	301.65	725.00	1,2	557.35	56.576
22836	C11H22O2	decyl formate	5451-52-5	77.0807	685.60	0.3800	271.93	685.60	2	508.60	46.075
22837	C11H22O2	nonyl acetate	143-13-5	79.1708	678.70	0.3800	247.15	678.70	1,2	483.15	49.341
22838	C11H22O2	octyl propanoate	142-60-9	79.1428	677.20	0.3800	231.55	677.20	1,2	501.15	47.433
22839	C11H22O2	heptyl butanoate	5870-93-9	72.5181	675.50	0.3800	215.65	675.50	1,2	498.25	43.617
22840	C11H22O2	butyl heptanoate	5454-28-4	76.0849	652.00	0.3800	205.65	652.00	1,2	499.35	43.822
22841	C11H22O2	ethyl nonanoate	123-29-5	76.3707	652.00	0.3800	236.45	652.00	1,2	500.15	43.899
22842	C11H22O2	hexyl pentanoate	1117-59-5	76.1205	652.00	0.3800	210.05	652.00	1,2	499.45	43.831
22843	C11H22O2	isopentyl hexanoate	2198-61-0	75.8362	652.00	0.3800	398.65	652.00	1,2	498.65	43.754
22844	C11H22O2	pentyl hexanoate	540-07-8	76.0137	652.00	0.3800	226.15	652.00	1,2	499.15	43.802
22845	C11H22O2	isobutyl heptanoate	7779-80-8	69.9930	652.00	0.3800	381.15	652.00	1,2	481.15	42.076
22846	C11H22O2	isopropyl octanoate	5458-59-3	72.7725	652.00	0.3800	389.73	652.00	2	489.73	42.898
22847	C11H22O2	propyl octanoate	624-13-5	76.1562	652.00	0.3800	226.95	652.00	1,2	499.55	43.841
22848	C11H22O2	methyl decanoate	110-42-9	75.3074	652.00	0.3800	255.15	652.00	1,2	497.15	43.610
22851	C11H22O2	6-methyldecanoic acid	53696-14-3	54.4114	725.00	0.3800	389.73	725.00	2	489.73	35.478
22853	C11H22O2	hexyl 2,2-dimethylpropanoate	5434-57-1	69.8879	677.20	0.3800	389.73	677.20	2	489.73	42.898
22854	C11H22O2	hexyl isovalerate	10032-13-0	72.7725	652.00	0.3800	389.73	652.00	2	489.73	42.898
22855	C11H22O2	hexyl 2-methylbutyrate	10032-15-2	72.7725	652.00	0.3800	389.73	652.00	2	489.73	42.898
22856	C11H22O2	3,5,5-trimethylhexyl acetate	58430-94-7	66.9296	678.70	0.3800	380.00	678.70	2	480.00	41.966
22866	C11H22S	thiacyclododecane	294-65-5	71.9028	796.44	0.3800	287.18	796.44	1,2	541.15	46.664
22870	C11H23Br	1-bromoundecane	693-67-4	83.9846	713.07	0.3800	263.45	713.07	1,2	531.95	49.893
22872	C11H23Cl	1-chloroundecane	2473-03-2	79.2319	696.43	0.3800	256.25	696.43	1,2	518.49	47.175
22875	C11H23F	1-fluoroundecane	506-05-8	73.0063	641.60	0.3800	257.15	641.60	1,2	479.15	43.319
22876	C11H23I	1-iodoundecane	4282-44-4	102.2091	715.99	0.3800	275.15	715.99	1,2	554.65	58.019
22885	C11H23NO2	1-nitroundecane	2216-25-3	92.8838	729.26	0.3800	356.84	729.26	1,2	555.15	53.896
22890	C11H24	undecane	1120-21-4	73.5110	638.76	0.4130	247.57	638.76	1,2	469.08	42.519
22891	C11H24	2-methyldecane	6975-98-0	67.4011	631.76	0.3800	224.29	631.76	1,2	462.34	40.875
22892	C11H24	3-methyldecane	13151-34-3	67.5247	632.86	0.3800	198.23	632.86	1,2	463.15	40.950
22893	C11H24	4-methyldecane	2847-72-5	67.2042	629.99	0.3800	181.15	629.99	1,2	461.05	40.756
22894	C11H24	5-methyldecane	13151-35-4	66.9142	627.40	0.3800	198.23	627.40	1,2	459.15	40.580
22895	C11H24	3-ethylnonane	17302-11-3	67.2194	630.13	0.3800	198.23	630.13	1,2	461.15	40.765

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
22896	C11H24	4-ethylnonane	5911-05-7	66.6091	624.66	0.3800	198.23	624.66	1,2	457.15	40.395
22897	C11H24	5-ethylnonane	17302-12-4	65.9989	619.20	0.3800	198.23	619.20	1,2	453.15	40.025
22898	C11H24	2,2-dimethylnonane	17302-14-6	63.9772	626.62	0.3800	215.65	626.62	1,2	453.15	39.270
22899	C11H24	2,3-dimethylnonane	2884-06-2	65.9112	631.11	0.3800	183.23	631.11	1,2	459.15	40.215
22900	C11H24	2,4-dimethylnonane	17302-24-8	64.7088	620.12	0.3800	183.23	620.12	1,2	451.15	39.481
22901	C11H24	2,5-dimethylnonane	17302-27-1	64.8590	621.49	0.3800	183.23	621.49	1,2	452.15	39.573
22902	C11H24	2,6-dimethylnonane	17302-28-2	64.8590	621.49	0.3800	183.23	621.49	1,2	452.15	39.573
22903	C11H24	2,7-dimethylnonane	17302-29-3	65.0093	622.87	0.3800	183.23	622.87	1,2	453.15	39.664
22904	C11H24	2,8-dimethylnonane	17302-30-6	65.4602	626.99	0.3800	183.23	626.99	1,2	456.15	39.939
22905	C11H24	3,3-dimethylnonane	17302-15-7	64.2731	629.38	0.3800	215.65	629.38	1,2	455.15	39.452
22906	C11H24	3,4-dimethylnonane	17302-22-6	65.7609	629.74	0.3800	183.23	629.74	1,2	458.15	40.123
22907	C11H24	3,5-dimethylnonane	17302-25-9	65.0093	622.87	0.3800	183.23	622.87	1,2	453.15	39.664
22908	C11H24	3,6-dimethylnonane	17302-31-7	65.3099	625.61	0.3800	183.23	625.61	1,2	455.15	39.848
22909	C11H24	3,7-dimethylnonane	17302-32-8	65.6105	628.36	0.3800	183.23	628.36	1,2	457.15	40.031
22910	C11H24	4,4-dimethylnonane	17302-18-0	63.6813	623.85	0.3800	215.65	623.85	1,2	451.15	39.089
22911	C11H24	4,5-dimethylnonane	17302-23-7	65.3099	625.61	0.3800	183.23	625.61	1,2	455.15	39.848
22912	C11H24	4,6-dimethylnonane	17302-26-0	64.8590	621.49	0.3800	183.23	621.49	1,2	452.15	39.573
22913	C11H24	5,5-dimethylnonane	6414-96-6	63.5334	622.47	0.3800	215.65	622.47	1,2	450.15	38.998
22914	C11H24	4-propyloctane	17302-13-5	65.9989	619.20	0.3800	198.23	619.20	1,2	453.15	40.025
22915	C11H24	4-isopropyloctane	62016-15-3	64.7088	620.12	0.3800	183.23	620.12	1,2	451.15	39.481
22916	C11H24	2-methyl-3-ethyloctane	62016-16-4	65.3099	625.61	0.3800	183.23	625.61	1,2	455.15	39.848
22917	C11H24	2-methyl-4-ethyloctane	62016-17-5	64.4083	617.37	0.3800	183.23	617.37	1,2	449.15	39.298
22918	C11H24	2-methyl-5-ethyloctane	62016-18-6	64.7088	620.12	0.3800	183.23	620.12	1,2	451.15	39.481
22919	C11H24	2-methyl-6-ethyloctane	62016-19-7	65.3099	625.61	0.3800	183.23	625.61	1,2	455.15	39.848
22920	C11H24	3-methyl-3-ethyloctane	17302-16-8	64.8208	634.50	0.3800	215.65	634.50	1,2	458.85	39.788
22921	C11H24	3-methyl-4-ethyloctane	62016-20-0	65.3099	625.61	0.3800	183.23	625.61	1,2	455.15	39.848
22922	C11H24	3-methyl-5-ethyloctane	62016-21-1	64.4083	617.37	0.3800	183.23	617.37	1,2	449.15	39.298
22923	C11H24	3-methyl-6-ethyloctane	62016-22-2	65.3099	625.61	0.3800	183.23	625.61	1,2	455.15	39.848
22924	C11H24	4-methyl-3-ethyloctane	62016-23-3	65.4602	626.99	0.3800	183.23	626.99	1,2	456.15	39.939
22925	C11H24	4-methyl-4-ethyloctane	17302-19-1	63.9772	626.62	0.3800	215.65	626.62	1,2	453.15	39.270
22926	C11H24	4-methyl-5-ethyloctane	62016-24-4	65.0093	622.87	0.3800	183.23	622.87	1,2	453.15	39.664
22927	C11H24	4-methyl-6-ethyloctane	62016-25-5	65.0093	622.87	0.3800	183.23	622.87	1,2	453.15	39.664
22928	C11H24	2,2,3-trimethyloctane	62016-26-6	62.8731	629.17	0.3800	200.65	629.17	1,2	452.15	38.831
22929	C11H24	2,2,4-trimethyloctane	18932-14-4	61.7801	618.73	0.3800	200.65	618.73	1,2	444.65	38.156
22930	C11H24	2,2,5-trimethyloctane	62016-27-7	61.7073	618.03	0.3800	200.65	618.03	1,2	444.15	38.111
22931	C11H24	2,2,6-trimethyloctane	62016-28-8	62.1444	622.21	0.3800	200.65	622.21	1,2	447.15	38.381
22932	C11H24	2,2,7-trimethyloctane	62016-29-9	61.5617	616.64	0.3800	200.65	616.64	1,2	443.15	38.021
22933	C11H24	2,3,3-trimethyloctane	62016-30-2	63.3105	633.34	0.3800	200.65	633.34	1,2	455.15	39.101
22934	C11H24	2,3,4-trimethyloctane	62016-31-3	64.0343	626.67	0.3800	168.23	626.67	1,2	453.15	39.309
22935	C11H24	2,3,5-trimethyloctane	62016-32-4	63.5902	622.52	0.3800	168.23	622.52	1,2	450.15	39.036
22936	C11H24	2,3,6-trimethyloctane	62016-33-5	64.0343	626.67	0.3800	168.23	626.67	1,2	453.15	39.309
22937	C11H24	2,3,7-trimethyloctane	62016-34-6	63.8863	625.29	0.3800	168.23	625.29	1,2	452.15	39.218
22938	C11H24	2,4,4-trimethyloctane	62016-35-7	61.7073	618.03	0.3800	200.65	618.03	1,2	444.15	38.111
22939	C11H24	2,4,5-trimethyloctane	62016-36-8	63.4421	621.14	0.3800	168.23	621.14	1,2	449.15	38.945
22940	C11H24	2,4,6-trimethyloctane	62016-37-9	63.1461	618.37	0.3800	168.23	618.37	1,2	447.15	38.764
22941	C11H24	2,4,7-trimethyloctane	62016-38-0	62.7022	614.22	0.3800	168.23	614.22	1,2	444.15	38.491
22942	C11H24	2,5,5-trimethyloctane	62016-39-1	61.8530	619.43	0.3800	200.65	619.43	1,2	445.15	38.201
22943	C11H24	2,5,6-trimethyloctane	62016-14-2	63.7382	623.90	0.3800	168.23	623.90	1,2	451.15	39.127
22944	C11H24	2,6,6-trimethyloctane	54166-32-4	62.4358	624.99	0.3800	200.65	624.99	1,2	449.15	38.561
22945	C11H24	3,3,4-trimethyloctane	62016-40-4	63.3105	633.34	0.3800	200.65	633.34	1,2	455.15	39.101
22946	C11H24	3,3,5-trimethyloctane	62016-41-5	62.1444	622.21	0.3800	200.65	622.21	1,2	447.15	38.381
22947	C11H24	3,3,6-trimethyloctane	62016-42-6	62.5816	626.38	0.3800	200.65	626.38	1,2	450.15	38.651
22948	C11H24	3,4,4-trimethyloctane	62016-43-7	63.1647	631.95	0.3800	200.65	631.95	1,2	454.15	39.011
22949	C11H24	3,4,5-trimethyloctane	62016-44-8	64.1824	628.05	0.3800	168.23	628.05	1,2	454.15	39.400
22950	C11H24	3,4,6-trimethyloctane	62016-45-9	63.8863	625.29	0.3800	168.23	625.29	1,2	452.15	39.218
22951	C11H24	3,5,5-trimethyloctane	61868-94-8	61.5617	616.64	0.3800	200.65	616.64	1,2	443.15	38.021
22952	C11H24	4,4,5-trimethyloctane	61868-95-9	63.0189	630.56	0.3800	200.65	630.56	1,2	453.15	38.921
22953	C11H24	4-tert-butylheptane	60302-21-8	62.1444	622.21	0.3800	200.65	622.21	1,2	447.15	38.381
22954	C11H24	2-methyl-4-propylheptane	61868-96-0	64.1079	614.62	0.3800	183.23	614.62	1,2	447.15	39.114
22955	C11H24	3-methyl-4-propylheptane	61868-97-1	64.8590	621.49	0.3800	183.23	621.49	1,2	452.15	39.573
22956	C11H24	4-methyl-4-propylheptane	17302-20-4	63.6813	623.85	0.3800	215.65	623.85	1,2	451.15	39.089
22957	C11H24	2-methyl-3-isopropylheptane	6876-18-2	63.7826	624.32	0.3800	168.23	624.32	1,2	451.45	39.154
22958	C11H24	2-methyl-4-isopropylheptane	61868-98-2	62.8502	615.61	0.3800	168.23	615.61	1,2	445.15	38.582
22959	C11H24	3-methyl-4-isopropylheptane	61868-99-3	63.5902	622.52	0.3800	168.23	622.52	1,2	450.15	39.036
22960	C11H24	4-methyl-4-isopropylheptane	61869-00-9	63.0189	630.56	0.3800	200.65	630.56	1,2	453.15	38.921
22961	C11H24	3,3-diethylheptane	17302-17-9	64.9984	636.16	0.3800	215.65	636.16	1,2	460.05	39.897
22962	C11H24	3,4-diethylheptane	61869-01-0	65.0093	622.87	0.3800	183.23	622.87	1,2	453.15	39.664
22963	C11H24	3,5-diethylheptane	61869-02-1	64.8590	621.49	0.3800	183.23	621.49	1,2	452.15	39.573
22964	C11H24	4,4-diethylheptane	17302-21-5	64.0216	627.03	0.3800	215.65	627.03	1,2	453.45	39.298
22965	C11H24	2,2-dimethyl-3-ethylheptane	61869-03-2	62.4358	624.99	0.3800	200.65	624.99	1,2	449.15	38.561
22966	C11H24	2,2-dimethyl-4-ethylheptane	62016-46-0	61.2704	613.86	0.3800	200.65	613.86	1,2	441.15	37.841
22967	C11H24	2,2-dimethyl-5-ethylheptane	62016-47-1	61.8530	619.43	0.3800	200.65	619.43	1,2	445.15	38.201
22968	C11H24	2,3-dimethyl-3-ethylheptane	61868-21-1	63.0189	630.56	0.3800	200.65	630.56	1,2	453.15	38.921
22969	C11H24	2,3-dimethyl-4-ethylheptane	61868-22-2	63.8863	625.29	0.3800	168.23	625.29	1,2	452.15	39.218
22970	C11H24	2,3-dimethyl-5-ethylheptane	61868-23-3	63.7382	623.90	0.3800	168.23	623.90	1,2	451.15	39.127
22971	C11H24	2,4-dimethyl-3-ethylheptane	61868-24-4	63.8863	625.29	0.3800	168.23	625.29	1,2	452.15	39.218
22972	C11H24	2,4-dimethyl-4-ethylheptane	61868-25-5	61.5617	616.64	0.3800	247.15	616.64	1,2	443.15	38.021
22973	C11H24	2,4-dimethyl-5-ethylheptane	61868-26-6	63.4421	621.14	0.3800	168.23	621.14	1,2	449.15	38.945
22974	C11H24	2,5-dimethyl-3-ethylheptane	61868-27-7	63.4421	621.14	0.3800	168.23	621.14	1,2	449.15	38.945
22975	C11H24	2,5-dimethyl-4-ethylheptane	61868-28-8	63.2941	619.75	0.3800	168.23	619.75	1,2	448.15	38.854

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
22976	C11H24	2,5-dimethyl-5-ethylheptane	61868-29-9	62.7273	627.77	0.3800	200.65	627.77	1,2	451.15	38.741
22977	C11H24	2,6-dimethyl-3-ethylheptane	61868-30-2	63.4421	621.14	0.3800	168.23	621.14	1,2	449.15	38.945
22978	C11H24	2,6-dimethyl-4-ethylheptane	61868-31-3	62.5543	612.84	0.3800	168.23	612.84	1,2	443.15	38.400
22979	C11H24	3,3-dimethyl-4-ethylheptane	61868-32-4	63.0189	630.56	0.3800	200.65	630.56	1,2	453.15	38.921
22980	C11H24	3,3-dimethyl-5-ethylheptane	61868-33-5	62.2901	623.60	0.3800	200.65	623.60	1,2	448.15	38.471
22981	C11H24	3,4-dimethyl-3-ethylheptane	61868-34-6	63.7481	637.52	0.3800	200.65	637.52	1,2	458.15	39.371
22982	C11H24	3,4-dimethyl-4-ethylheptane	61868-35-7	63.1647	631.95	0.3800	200.65	631.95	1,2	454.15	39.011
22983	C11H24	3,4-dimethyl-5-ethylheptane	61868-36-8	64.3305	629.43	0.3800	168.23	629.43	1,2	455.15	39.491
22984	C11H24	3,5-dimethyl-3-ethylheptane	61868-37-9	63.0189	630.56	0.3800	200.65	630.56	1,2	453.15	38.921
22985	C11H24	3,5-dimethyl-4-ethylheptane	61868-38-0	64.1824	628.05	0.3800	168.23	628.05	1,2	454.15	39.400
22986	C11H24	4,4-dimethyl-3-ethylheptane	61868-39-1	62.4358	624.99	0.3800	200.65	624.99	1,2	449.15	38.561
22987	C11H24	2,2,3,3-tetramethylheptane	61868-40-4	61.0967	638.82	0.3800	218.07	638.82	1,2	453.15	38.203
22988	C11H24	2,2,3,4-tetramethylheptane	61868-41-5	61.5016	629.04	0.3800	185.65	629.04	1,2	449.15	38.220
22989	C11H24	2,2,3,5-tetramethylheptane	61868-42-6	61.2144	626.24	0.3800	185.65	626.24	1,2	447.15	38.042
22990	C11H24	2,2,3,6-tetramethylheptane	61868-43-7	60.6402	620.64	0.3800	185.65	620.64	1,2	443.15	37.685
22991	C11H24	2,2,4,4-tetramethylheptane	61868-44-8	59.6827	624.72	0.3800	218.07	624.72	1,2	443.15	37.319
22992	C11H24	2,2,4,5-tetramethylheptane	61868-45-9	60.4967	619.24	0.3800	185.65	619.24	1,2	442.15	37.596
22993	C11H24	2,2,4,6-tetramethylheptane	61868-46-0	59.5211	609.72	0.3800	185.65	609.72	1,2	435.35	36.989
22994	C11H24	2,2,5,5-tetramethylheptane	61868-47-1	59.1175	619.08	0.3800	218.07	619.08	1,2	439.15	36.965
22995	C11H24	2,2,5,6-tetramethylheptane	61868-48-2	60.4967	619.24	0.3800	185.65	619.24	1,2	442.15	37.596
22996	C11H24	2,2,6,6-tetramethylheptane	40117-45-1	58.6938	614.86	0.3800	218.07	614.86	1,2	436.15	36.700
22997	C11H24	2,3,3,4-tetramethylheptane	61868-49-3	62.3636	637.45	0.3800	185.65	637.45	1,2	455.15	38.756
22998	C11H24	2,3,3,5-tetramethylheptane	61868-50-6	61.5016	629.04	0.3800	185.65	629.04	1,2	449.15	38.220
22999	C11H24	2,3,3,6-tetramethylheptane	61868-51-7	61.3580	627.64	0.3800	185.65	627.64	1,2	448.15	38.131
23000	C11H24	2,3,4,4-tetramethylheptane	61868-52-8	61.7889	631.84	0.3800	185.65	631.84	1,2	451.15	38.399
23001	C11H24	2,3,4,5-tetramethylheptane	61868-53-9	62.9287	629.22	0.3800	153.23	629.22	1,2	452.15	38.869
23002	C11H24	2,3,4,6-tetramethylheptane	61868-54-0	62.1993	622.26	0.3800	153.23	622.26	1,2	447.15	38.418
23003	C11H24	2,3,5,5-tetramethylheptane	61868-55-1	60.9273	623.44	0.3800	185.65	623.44	1,2	445.15	37.863
23004	C11H24	2,3,5,6-tetramethylheptane	52670-32-3	62.3452	623.65	0.3800	153.23	623.65	1,2	448.15	38.508
23005	C11H24	2,4,4,5-tetramethylheptane	61868-56-2	61.2144	626.24	0.3800	185.65	626.24	1,2	447.15	38.042
23006	C11H24	2,4,4,6-tetramethylheptane	61868-57-3	59.7793	612.24	0.3800	185.65	612.24	1,2	437.15	37.150
23007	C11H24	2,4,5,5-tetramethylheptane	61868-58-4	61.5016	629.04	0.3800	185.65	629.04	1,2	449.15	38.220
23008	C11H24	3,3,4,4-tetramethylheptane	61868-59-5	61.6627	644.46	0.3800	218.07	644.46	1,2	457.15	38.557
23009	C11H24	3,3,4,5-tetramethylheptane	61868-60-8	62.2199	636.04	0.3800	185.65	636.04	1,2	454.15	38.667
23010	C11H24	3,3,5,5-tetramethylheptane	61868-61-9	61.0967	638.82	0.3800	218.07	638.82	1,2	453.15	38.203
23011	C11H24	3,4,4,5-tetramethylheptane	61868-62-0	62.7948	641.65	0.3800	185.65	641.65	1,2	458.15	39.024
23012	C11H24	2,2-dimethyl-3-isopropylhexane	61868-63-1	60.9273	623.44	0.3800	185.65	623.44	1,2	445.15	37.863
23013	C11H24	2,3-dimethyl-3-isopropylhexane	61868-64-2	62.0762	634.64	0.3800	185.65	634.64	1,2	453.15	38.577
23014	C11H24	2,4-dimethyl-3-isopropylhexane	61868-65-3	62.3452	623.65	0.3800	153.23	623.65	1,2	448.15	38.508
23015	C11H24	2,5-dimethyl-3-isopropylhexane	61868-66-4	61.6161	616.70	0.3800	153.23	616.70	1,2	443.15	38.058
23016	C11H24	2-methyl-3,3-diethylhexane	61868-67-5	63.8940	638.91	0.3800	200.65	638.91	1,2	459.15	39.462
23017	C11H24	2-methyl-3,4-diethylhexane	61868-68-6	63.8863	625.29	0.3800	168.23	625.29	1,2	452.15	39.218
23018	C11H24	2-methyl-4,4-diethylhexane	61868-69-7	62.8731	629.17	0.3800	200.65	629.17	1,2	452.15	38.831
23019	C11H24	3-methyl-3,4-diethylhexane	61868-70-0	63.8940	638.91	0.3800	200.65	638.91	1,2	459.15	39.462
23020	C11H24	3-methyl-4,4-diethylhexane	61868-71-1	64.4776	644.47	0.3800	200.65	644.47	1,2	463.15	39.822
23021	C11H24	2,2,3-trimethyl-3-ethylhexane	61868-72-2	61.0967	638.82	0.3800	218.07	638.82	1,2	453.15	38.203
23022	C11H24	2,2,3-trimethyl-4-ethylhexane	61868-73-3	61.5016	629.04	0.3800	185.65	629.04	1,2	449.15	38.220
23023	C11H24	2,2,4-trimethyl-3-ethylhexane	61868-74-4	61.3580	627.64	0.3800	185.65	627.64	1,2	448.15	38.131
23024	C11H24	2,2,4-trimethyl-4-ethylhexane	61868-75-5	60.8138	636.00	0.3800	218.07	636.00	1,2	451.15	38.026
23025	C11H24	2,2,5-trimethyl-3-ethylhexane	61868-76-6	60.6402	620.64	0.3800	185.65	620.64	1,2	443.15	37.685
23026	C11H24	2,2,5-trimethyl-4-ethylhexane	61868-77-7	60.0662	615.04	0.3800	185.65	615.04	1,2	439.15	37.328
23027	C11H24	2,3,3-trimethyl-4-ethylhexane	61868-78-8	62.5073	638.85	0.3800	185.65	638.85	1,2	456.15	38.845
23028	C11H24	2,3,4-trimethyl-3-ethylhexane	61868-79-9	63.0823	644.45	0.3800	185.65	644.45	1,2	460.15	39.203
23029	C11H24	2,3,4-trimethyl-4-ethylhexane	61868-80-2	62.0762	634.64	0.3800	185.65	634.64	1,2	453.15	38.577
23030	C11H24	2,3,5-trimethyl-3-ethylhexane	61868-81-3	61.5016	629.04	0.3800	185.65	629.04	1,2	449.15	38.220
23031	C11H24	2,3,5-trimethyl-4-ethylhexane	61868-82-4	62.6369	626.44	0.3800	153.23	626.44	1,2	450.15	38.688
23032	C11H24	2,4,4-trimethyl-3-ethylhexane	61868-83-5	61.7889	631.84	0.3800	185.65	631.84	1,2	451.15	38.399
23033	C11H24	3,3,4-trimethyl-4-ethylhexane	61868-84-6	62.5122	652.92	0.3800	218.07	652.92	1,2	463.15	39.088
23034	C11H24	2,2,3,3,4-pentamethylhexane	61868-85-7	60.7453	648.89	0.3800	203.07	648.89	1,2	457.15	38.222
23035	C11H24	2,2,3,3,5-pentamethylhexane	61868-86-8	58.8636	629.72	0.3800	203.07	629.72	1,2	443.65	37.038
23036	C11H24	2,2,3,4,4-pentamethylhexane	61868-87-9	61.0243	651.73	0.3800	203.07	651.73	1,2	459.15	38.398
23037	C11H24	2,2,3,4,5-pentamethylhexane	61868-88-0	60.3002	630.42	0.3800	170.65	630.42	1,2	447.15	37.708
23038	C11H24	2,2,3,5,5-pentamethylhexane	14739-73-2	58.2370	623.34	0.3800	203.07	623.34	1,2	439.15	36.644
23039	C11H24	2,2,4,4,5-pentamethylhexane	60302-23-0	59.6299	637.53	0.3800	203.07	637.53	1,2	449.15	37.520
23040	C11H24	2,3,3,4,4-pentamethylhexane	61868-89-1	61.1638	653.15	0.3800	203.07	653.15	1,2	460.15	38.486
23041	C11H24	2,3,3,4,5-pentamethylhexane	52670-33-4	61.2911	640.29	0.3800	170.65	640.29	1,2	454.15	38.328
23042	C11H24	2,2,4-trimethyl-3-isopropylpentane	61868-90-4	59.7343	624.78	0.3800	170.65	624.78	1,2	443.15	37.354
23043	C11H24	2,3,4-trimethyl-3-isopropylpentane	61868-91-5	61.9993	647.34	0.3800	170.65	647.34	1,2	459.15	38.771
23044	C11H24	2,2-dimethyl-3,3-diethylpentane	60302-28-5	62.3706	651.51	0.3800	218.07	651.51	1,2	462.15	38.999
23045	C11H24	2,4-dimethyl-3,3-diethylpentane	61868-92-6	63.3699	647.25	0.3800	185.65	647.25	1,2	462.15	39.381
23046	C11H24	2,2,3,4-tetramethyl-3-ethylpentane	61868-93-7	61.0243	651.73	0.3800	203.07	651.73	1,2	459.15	38.398
23047	C11H24	2,2,4,4-tetramethyl-3-ethylpentane	---	60.1875	643.21	0.3800	203.07	643.21	1,2	453.15	37.871
23048	C11H24	2,2,3,3,4,4-hexamethylpentane	60302-27-4	60.2656	672.56	0.3800	220.49	672.56	1,2	467.15	38.400
23055	C11H24O	1-undecanol	112-42-5	120.1500	704.00	0.6310	289.05	704.00	1,2	518.15	50.089
23056	C11H24O	2-undecanol	1653-30-1	78.1399	689.70	0.3800	273.15	689.70	1,2	508.15	47.054
23057	C11H24O	2-undecanol, (±)	113666-64-1	71.2834	696.85	0.3800	285.15	696.85	1,2	501.15	43.995
23058	C11H24O	3-undecanol, (R)-	107494-37-1	71.5783	696.85	0.3800	290.15	696.85	1,2	502.15	44.091
23059	C11H24O	5-undecanol	37493-70-2	71.5783	696.85	0.3800	271.35	696.85	1,2	502.15	44.091
23060	C11H24O	6-undecanol	23708-56-7	71.2834	696.85	0.3800	298.15	696.85	1,2	501.15	43.995
23061	C11H24O	2,8-dimethyl-5-nonanol	19780-96-2	72.7688	696.85	0.3800	406.13	696.85	2	506.13	44.474

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
23062	C11H24O	undecanol	30207-98-8	76.5320	696.85	0.3800	289.05	696.85	1,2	518.15	45.631
23063	C11H24O	5-ethyl-2-nonanol	103-08-2	70.3647	696.85	0.3800	398.00	696.85	1,2	498.00	43.692
23064	C11H24O	1-methoxydecane	7289-52-3	80.5957	640.00	0.3800	406.13	640.00	2	506.13	44.474
23065	C11H24O2	1,2-undecanediol	13006-29-6	123.2083	709.89	0.3800	319.87	709.89	2	567.15	66.975
23066	C11H24O2	1,3-undecanediol	6071-32-5	125.6829	723.65	0.3800	319.87	723.65	2	578.15	68.320
23067	C11H24O2	1,4-undecanediol	---	130.4115	749.94	0.3800	319.87	749.94	2	599.15	70.890
23068	C11H24O2	1,11-undecanediol	765-04-8	128.8242	731.93	0.3800	335.15	731.93	2	586.15	69.776
23069	C11H24O2	2,2-dibutyl-1,3-propanediol	24765-57-9	126.0000	728.85	0.3800	315.15	728.85	2	570.00	70.623
23071	C11H24O2	2-(isobutyl-3-methylbutoxy)ethanol	10086-50-7	90.8011	690.00	0.3800	453.53	690.00	2	553.53	49.050
23076	C11H24O3	2-(2-(1-ethylamyloxy)ethoxy)ethanol	10138-87-1	90.8011	690.00	0.3800	453.53	690.00	2	553.53	49.050
23077	C11H24O3	2-(2-(heptyloxy)ethoxy)ethanol	25961-87-9	90.8011	690.00	0.3800	453.53	690.00	2	553.53	49.050
23081.1	C11H24O4	tripropylene glycol monoethyl ether	75899-69-3	89.2000	664.00	0.2360	256.50	664.00	1,2	525.00	61.672
23084	C11H24S	1-undecanethiol	5332-52-5	86.8000	710.00	0.4100	270.15	710.00	1,2	530.55	49.388
23085	C11H24S	2-undecanethiol	62155-02-6	78.4986	706.00	0.3800	239.15	706.00	1,2	520.45	47.242
23086	C11H24S	methyl decyl sulfide	22438-39-7	85.0712	717.91	0.3800	254.66	717.91	2	520.00	52.136
23087	C11H24S	ethyl nonyl sulfide	59973-08-9	85.0712	717.91	0.3800	254.66	717.91	2	520.00	52.136
23088	C11H24S	propyl octyl sulfide	3698-93-9	85.0712	717.91	0.3800	254.66	717.91	2	520.00	52.136
23089	C11H24S	butyl heptyl sulfide	40813-84-1	85.0712	717.91	0.3800	254.66	717.91	2	520.00	52.136
23090	C11H25N	undecylamine	7307-55-3	80.1572	692.40	0.3800	288.26	692.40	1,2	516.15	47.658
23091	C11H25N	methyldecylamine	7516-82-7	79.0041	666.60	0.3800	277.15	666.60	1,2	499.35	46.715
23092	C11H25N	ethylnonylamine	66563-84-6	78.1739	660.80	0.3800	265.89	660.80	1,2	495.15	46.209
23093	C11H25N	dimethylnonylamine	17373-27-2	70.4756	668.70	0.3800	245.70	668.70	1,2	488.15	42.851
23094	C11H25N	diethylheptylamine	26981-81-7	72.4203	634.32	0.3800	245.70	634.32	1,2	471.15	43.230
23095	C11H25N	4-ethyl-1-methyloctylamine	10024-78-9	72.6098	664.56	0.3800	393.99	664.56	2	493.99	43.307
23335	C12H8O	dibenzofuran	132-64-9	63.3461	837.80	0.3020	355.65	837.80	1,2	557.86	45.493
23394	C12H9N	dibenzopyrrole	86-74-8	87.4400	899.00	0.3300	517.95	899.00	1,2	627.86	58.874
23437.1	C12H9N3O4	4,4'-dinitrodiphenylamine	1821-27-8	141.4900	926.00	0.3772	491.05	926.00	1,2	709.00	81.853
23444	C12H10	acenaphthene	83-32-9	78.9968	803.15	0.3800	366.56	803.15	1,2	550.54	50.900
23445	C12H10	phenylbenzene (biphenyl)	92-52-4	77.5357	789.26	0.4140	342.37	789.26	1,2	528.15	49.048
23519	C12H10O	diphenyl ether	101-84-8	69.9700	763.00	0.3360	300.10	763.00	1,2	531.46	46.870
23607	C12H11N	p-aminodiphenyl	92-67-1	91.1223	817.00	0.3900	326.00	817.00	1,2	575.00	56.695
23609	C12H11N	diphenylamine	122-39-4	83.7106	817.00	0.3460	326.15	817.00	1,2	575.15	54.936
23656	C12H11N3	p-aminoazobenzene	60-09-3	104.9401	877.00	0.3890	401.00	877.00	1,2	633.00	63.798
23657	C12H11N3	1,3-diphenyltriazene	136-35-6	100.3116	845.00	0.3900	372.00	845.00	1,2	610.00	60.897
23675	C12H12	1,2-dimethylnaphthalene	573-98-8	78.9146	775.34	0.3800	272.16	775.34	1,2	539.46	50.208
23676	C12H12	1,3-dimethylnaphthalene	575-41-7	78.4603	773.76	0.3800	269.16	773.76	1,2	538.36	49.919
23677	C12H12	1,4-dimethylnaphthalene	571-58-4	78.7698	776.78	0.3800	280.82	776.78	1,2	540.46	50.116
23678	C12H12	1,5-dimethylnaphthalene	571-61-9	78.4353	773.47	0.3800	355.16	773.47	1,2	538.16	49.903
23679	C12H12	1,6-dimethylnaphthalene	575-43-9	78.1379	770.60	0.3800	259.16	770.60	1,2	536.16	49.714
23680	C12H12	1,7-dimethylnaphthalene	575-37-1	78.1379	770.60	0.3800	260.16	770.60	1,2	536.16	49.714
23681	C12H12	1,8-dimethylnaphthalene	569-41-5	74.5948	792.00	0.3800	337.15	792.00	1,2	543.15	48.045
23682	C12H12	2,3-dimethylnaphthalene	581-40-8	78.8693	777.78	0.3800	378.16	777.78	1,2	541.16	50.179
23683	C12H12	2,6-dimethylnaphthalene	581-42-0	73.7786	777.00	0.3550	383.32	777.00	1,2	535.15	48.752
23684	C12H12	2,7-dimethylnaphthalene	582-16-1	73.3957	778.00	0.3490	368.81	778.00	1,2	536.15	48.818
23685	C12H12	1-ethylnaphthalene	1127-76-0	78.3483	776.00	0.4240	259.34	776.00	1,2	531.48	48.015
23686	C12H12	2-ethylnaphthalene	939-27-5	74.7127	774.90	0.3800	265.76	774.90	1,2	531.49	48.116
23687	C12H12	dimethylnaphthalene, isomers	28804-88-8	77.2159	776.35	0.3800	437.28	776.35	2	537.28	49.354
23718	C12H12N2	p-aminodiphenylamine	101-54-2	109.4562	867.00	0.3950	341.15	867.00	1,2	627.15	65.887
23719	C12H12N2	hydrazobenzene	122-66-7	98.3432	792.00	0.3910	404.15	792.00	1,2	573.00	59.492
23887	C12H14	1,2,3-trimethylindene	4773-83-5	72.3606	726.00	0.3800	344.65	726.00	1,2	509.00	45.730
23897	C12H14	2-propyl-1H-indene	92013-11-1	71.2132	726.00	0.3800	410.46	726.00	2	510.46	44.890
24002	C12H14O4	diethyl phthalate	84-66-2	104.2312	757.00	0.4310	269.15	757.00	1,2	567.15	57.425
24022.1	C12H14O6	terephthalic acid diethylene glycol ester	959-26-2	176.1100	846.00	0.3864	385.15	846.00	1,2	683.00	93.211
24111	C12H16	cyclohexylbenzene	827-52-1	81.4595	744.00	0.4670	280.14	744.00	1,2	513.27	47.151
24112	C12H16	1-ethyl-[1,2,3,4-tetrahydronaphthalene]	13556-58-6	71.0216	735.44	0.3800	243.57	735.44	1,2	512.72	45.108
24113	C12H16	2-ethyl-[1,2,3,4-tetrahydronaphthalene]	32367-54-7	71.4808	739.79	0.3800	224.75	739.79	1,2	515.75	45.399
24114	C12H16	5-ethyl-1,2,3,4-tetrahydronaphthalene	42775-75-7	72.3291	737.62	0.3800	228.65	737.62	1,2	518.15	45.631
24115	C12H16	6-ethyl-1,2,3,4-tetrahydronaphthalene	22531-20-0	72.0518	737.62	0.3800	203.15	737.62	1,2	517.15	45.534
24116	C12H16	1,2,3,4-tetrahydro-1,3-dimethylnaphthalene	5195-37-9	68.3054	737.62	0.3800	407.15	737.62	1,2	507.15	43.901
24117	C12H16	1,2,3,4-tetrahydro-1,4-dimethylnaphthalene	4175-54-6	63.5203	737.62	0.3800	399.15	737.62	1,2	499.15	41.358
24118	C12H16	1,2,3,4-tetrahydro-1,5-dimethylnaphthalene	21564-91-0	71.5568	737.62	0.3800	412.15	737.62	1,2	512.15	45.609
24119	C12H16	1,2,3,4-tetrahydro-2,2-dimethylnaphthalene	13556-55-3	65.8521	737.62	0.3800	403.15	737.62	1,2	503.15	42.601
24120	C12H16	1,2,3,4-tetrahydro-2,3-dimethylnaphthalene	21564-92-1	68.0467	737.62	0.3800	270.65	737.62	2	506.74	43.764
24121	C12H16	1,2,3,4-tetrahydro-2,5-dimethylnaphthalene	25419-37-8	69.5805	737.62	0.3800	409.15	737.62	1,2	509.15	44.572
24122	C12H16	1,2,3,4-tetrahydro-2,6-dimethylnaphthalene	7524-63-2	72.2333	737.62	0.3800	293.15	737.62	1,2	513.15	45.962
24123	C12H16	1,2,3,4-tetrahydro-2,7-dimethylnaphthalene	13065-07-1	70.2306	737.62	0.3800	410.15	737.62	1,2	510.15	44.914
24124	C12H16	1,2,3,4-tetrahydro-2,8-dimethylnaphthalene	25419-36-7	69.5805	737.62	0.3800	409.15	737.62	1,2	509.15	44.572
24125	C12H16	1,2,3,4-tetrahydro-5,6-dimethylnaphthalene	20027-77-4	74.3089	737.62	0.3800	425.15	737.62	1,2	525.15	46.306
24126	C12H16	1,2,3,4-tetrahydro-5,7-dimethylnaphthalene	21693-54-9	74.5973	737.62	0.3800	267.15	737.62	1,2	526.15	46.402
24127	C12H16	1,2,3,4-tetrahydro-5,8-dimethylnaphthalene	14108-88-4	74.8873	737.62	0.3800	271.05	737.62	1,2	527.15	46.499
24128	C12H16	1,2,3,4-tetrahydro-6,7-dimethylnaphthalene	1076-61-5	74.3089	737.62	0.3800	283.15	737.62	1,2	525.15	46.306
24129	C12H16	1,2,3,4-tetrahydro-1,1-dimethylnaphthalene	1985-59-7	60.7639	737.62	0.3800	394.15	737.62	1,2	494.15	39.876
24130	C12H16	1,2,3,4-tetrahydro-1,2-dimethylnaphthalene	5195-40-4	68.9388	737.62	0.3800	408.15	737.62	1,2	508.15	44.235
24134	C12H16	2-hexenylbenzene	67590-77-6	70.4451	723.00	0.3800	406.74	723.00	2	506.74	44.532
24135	C12H16	3-hexenylbenzene	35008-86-7	67.3347	723.00	0.3800	395.15	723.00	1,2	495.15	43.418
24136	C12H16	5-hexenylbenzene	1588-44-9	65.7889	723.00	0.3800	389.15	723.00	1,2	489.15	42.843
24137	C12H16	p-isopropenylisopropylbenzene	2388-14-9	67.0222	723.00	0.3800	242.55	723.00	1,2	493.95	43.303
24138	C12H16	(1-methyl-1-pentenyl)benzene	20247-89-6	67.5965	723.00	0.3800	396.15	723.00	1,2	496.15	43.514
24139	C12H16	4-tert-butylstyrene	1746-23-2	73.1501	695.00	0.3800	406.74	695.00	2	506.74	44.532
24139.1	C12H16	4-isobutylstyrene	63444-56-4	75.5220	735.00	0.3801	250.00	735.00	1,2	524.00	46.997

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
24357	C12H18	hexylbenzene	1077-16-3	73.2676	698.00	0.3890	212.00	698.00	1,2	499.26	44.945
24358	C12H18	1,4-dipropylbenzene	4815-57-0	61.5132	697.15	0.3800	381.77	697.15	2	481.77	39.366
24359	C12H18	diisopropylbenzene	25321-09-9	56.8356	697.15	0.3800	373.60	697.15	1,2	473.60	36.891
24360	C12H18	1,2-diisopropylbenzene	577-55-9	58.8057	697.15	0.3800	216.15	697.15	1,2	477.15	37.938
24361	C12H18	m-diisopropylbenzene	99-62-7	70.6532	684.00	0.4440	210.02	684.00	1,2	476.33	41.618
24362	C12H18	p-diisopropylbenzene	100-18-5	73.2059	689.00	0.4410	256.08	689.00	1,2	483.65	42.924
24363	C12H18	triethylbenzene; (mixed isomers)	25340-18-5	68.2680	697.15	0.3800	390.70	697.15	1,2	490.70	42.991
24364	C12H18	1,2,3-triethylbenzene	42205-08-3	72.2816	684.37	0.3800	206.66	684.37	1,2	490.66	44.744
24365	C12H18	1,2,4-triethylbenzene	877-44-1	72.2816	684.37	0.3800	206.66	684.37	1,2	490.66	44.744
24366	C12H18	1,3,5-triethylbenzene	102-25-0	72.0584	682.28	0.3800	206.66	682.28	1,2	489.16	44.606
24367	C12H18	1-tert-butyl-3,5-dimethylbenzene	98-19-1	60.5460	697.15	0.3800	255.15	697.15	1,2	480.15	38.857
24368	C12H18	(1,1-dimethylbutyl)benzene	1985-57-5	59.6669	697.15	0.3800	378.65	697.15	1,2	478.65	38.394
24369	C12H18	2,4-dimethyl-1-sec-butylbenzene	1483-60-9	61.5132	697.15	0.3800	381.77	697.15	2	481.77	39.366
24370	C12H18	(1-ethylbutyl)benzene	4468-42-2	61.7467	697.15	0.3800	217.75	697.15	1,2	482.15	39.489
24371	C12H18	(1-ethyl-1-methylpropyl)benzene	1985-97-3	59.3779	697.15	0.3800	378.15	697.15	1,2	478.15	38.241
24372	C12H18	(1-methylpentyl)benzene	6031-02-3	61.1422	697.15	0.3800	381.15	697.15	1,2	481.15	39.171
24373	C12H18	(3-methylpentyl)benzene	54410-69-4	68.9534	697.15	0.3800	393.15	697.15	1,2	493.15	43.226
24374	C12H18	(4-methylpentyl)benzene	4215-86-5	68.1153	697.15	0.3800	390.15	697.15	1,2	490.15	42.939
24375	C12H18	1,2,4-trimethyl-5-isopropylbenzene	10222-95-4	69.2356	697.15	0.3800	294.15	697.15	1,2	494.15	43.322
24376	C12H18	4-tert-butyl-o-xylene	7397-06-0	59.3779	697.15	0.3800	378.15	697.15	1,2	478.15	38.241
24377	C12H18	hexamethyldewarbenzene	7641-77-2	55.0000	697.15	0.3800	277.00	697.15	2	440.00	37.650
24378	C12H18	hexamethylbenzene	87-85-4	73.4269	758.00	0.3800	438.66	758.00	1,2	536.60	45.999
24378.1	C12H18	p-tert-butyl ethylbenzene	7364-19-4	69.4130	684.00	0.3892	234.80	684.00	1,2	485.25	42.906
24378.2	C12H18	1,5,9-cyclododecatriene	706-31-0	57.1340	745.00	0.2209	256.35	745.00	1,2	514.65	44.084
24378.3	C12H18	1,2,3-triethylebenzene	42205-08-3	72.3210	683.00	0.3799	215.00	683.00	1,2	490.70	44.682
24433	C12H18O	2-tert-butyl-4,5-dimethylphenol	1445-23-4	74.4972	755.67	0.3800	319.15	755.67	1,2	531.65	46.933
24434	C12H18O	2-tert-butyl-4,6-dimethylphenol	1879-09-0	71.3374	755.67	0.3800	295.45	755.67	1,2	522.15	45.658
24435	C12H18O	4-tert-butyl-2,5-dimethylphenol	17696-37-6	76.0559	755.67	0.3800	344.35	755.67	1,2	537.15	47.465
24436	C12H18O	4-tert-butyl-2,6-dimethylphenol	879-97-0	70.6939	755.67	0.3800	355.55	755.67	1,2	521.15	45.319
24446	C12H18O	4-(1,1-dimethylpropyl)-2-methylphenol	71745-63-6	74.9182	755.67	0.3800	288.15	755.67	1,2	533.15	47.078
24447	C12H18O	2,6-dipropylphenol	6626-32-0	73.8021	755.67	0.3800	300.15	755.67	1,2	529.15	46.692
24448	C12H18O	5-methyl-2-pentylphenol	1300-94-3	72.7327	755.67	0.3800	297.15	755.67	2	524.28	46.389
24451	C12H18O	6-n-amyl-m-cresol	53043-14-4	74.3575	755.67	0.3800	297.15	755.67	1,2	531.15	46.885
24452	C12H18O	2-tert-butyl-4-ethylphenol	96-70-8	71.9893	755.67	0.3800	303.15	755.67	1,2	523.15	46.000
24457	C12H18O	3,5-bis(1-methylethyl)phenol	26886-05-5	72.7327	755.67	0.3800	424.28	755.67	2	524.28	46.389
24458	C12H18O	2,4-bis(1-methylethyl)phenol	2934-05-6	72.7327	755.67	0.3800	424.28	755.67	2	524.28	46.389
24461	C12H18O	2-hexylphenol	3226-32-2	72.7327	755.67	0.3800	424.28	755.67	2	524.28	46.389
24477.1	C12H18O2	m-diisopropylbenzene hydroperoxide	26762-93-6	124.3100	812.00	0.4017	264.00	812.00	1,2	620.00	69.653
24477.2	C12H18O2	p-diisopropylbenzene hydroperoxide	98-49-7	120.7600	810.00	0.4002	264.00	810.00	1,2	616.00	68.160
24505	C12H19N	2,6-diisopropylaniline	24544-04-5	78.8407	710.00	0.3800	228.15	710.00	1,2	530.15	46.788
24506	C12H19N	N,N-dipropylaniline	2217-07-4	74.1122	710.00	0.3800	415.15	710.00	1,2	515.15	45.342
24507	C12H19N	4-tert-butyl-N,N-dimethylaniline	2909-79-7	77.0590	710.00	0.3800	424.65	710.00	1,2	524.65	46.258
24508	C12H19N	N,N-diisopropylaniline	4107-98-6	79.2124	710.00	0.3800	431.28	710.00	2	531.28	46.897
24509	C12H19N	4-hexylaniline	33228-45-4	87.7694	710.00	0.3800	455.15	710.00	1,2	555.15	49.207
24531	C12H20	1-dodecen-3-yne	74744-36-8	66.6085	655.00	0.3800	371.05	655.00	2	471.05	41.110
24560	C12H20O	2,5-di-tert-butylfuran	4789-40-6	68.6670	670.00	0.3800	383.15	670.00	1,2	483.15	42.268
24594	C12H20O4	dibutyl maleate	105-76-0	104.0608	716.00	0.3930	275.00	716.00	1,2	553.15	58.149
24619	C12H20S	3-octylthiophene	65016-62-8	76.8013	745.00	0.3800	436.15	745.00	2	536.15	47.368
24652	C12H22	bicyclohexyl	92-51-3	68.5408	727.00	0.3540	276.78	727.00	1,2	512.19	44.516
24653	C12H22	1-dodecyne	765-03-7	73.0596	668.16	0.3800	254.16	668.16	1,2	488.16	44.384
24654	C12H22	2-dodecyne	629-49-2	71.7738	686.26	0.3800	330.60	686.26	1,2	499.15	43.802
24655	C12H22	3-dodecyne	6790-27-8	70.7354	677.19	0.3800	330.60	677.19	1,2	492.55	43.169
24656	C12H22	6-dodecyne	6975-99-1	67.9626	677.20	0.3800	383.15	677.20	1,2	483.15	42.268
24657	C12H22	3,3-dimethyl-4-decyne	70732-45-5	73.3337	677.20	0.3800	400.93	677.20	2	500.93	43.973
24658	C12H22	4a-ethyl-cis-decahydronaphthalene	66553-61-5	70.2082	723.87	0.3800	236.31	723.87	1,2	506.15	44.475
24659	C12H22	4a-ethyl-trans-decahydronaphthalene	66553-62-6	68.9944	712.43	0.3800	248.92	712.43	1,2	498.15	43.706
24660	C12H22	1-ethyl,cis-decahydronaphthalene	---	74.3170	762.49	0.3800	236.31	762.49	1,2	533.15	47.078
24661	C12H22	1-ethyl-trans-decahydronaphthalene	---	73.5548	755.34	0.3800	248.92	755.34	1,2	528.15	46.595
24662	C12H22	2-ethyl-cis-decahydronaphthalene	---	70.5119	726.73	0.3800	236.31	726.73	1,2	508.15	44.668
24663	C12H22	2-ethyl-trans-decahydronaphthalene	---	69.4494	716.72	0.3800	248.92	716.72	1,2	501.15	43.995
24664	C12H22	1,4a-dimethyl-cis-decahydronaphthalene	---	68.0829	707.09	0.3800	219.94	707.09	1,2	493.15	43.226
24665	C12H22	1,4a-dimethyl-trans-decahydronaphthalene	---	67.0255	697.05	0.3800	232.55	697.05	1,2	486.15	42.555
24666	C12H22	1-heptylcyclopentene	4292-00-6	70.2420	680.78	0.3800	200.59	680.78	1,2	492.15	43.130
24669	C12H22	1,11-dodecadiene	5876-87-9	65.9011	696.00	0.3800	381.65	696.00	1,2	481.65	42.124
24700	C12H22O2	2-dodecenoic acid	4412-16-2	77.1745	816.00	0.3800	290.25	816.00	2	560.00	49.678
24701	C12H22O2	4-dodecenoic acid	505-92-0	77.1745	816.00	0.3800	273.85	816.00	2	560.00	49.678
24702	C12H22O2	5-dodecenoic acid	2761-84-4	77.1745	816.00	0.3800	273.85	816.00	2	560.00	49.678
24703	C12H22O2	11-dodecenoic acid	65423-25-8	77.1745	816.00	0.3800	293.15	816.00	2	560.00	49.678
24704	C12H22O2	2-ethylhexyl methacrylate	688-84-6	73.8225	694.00	0.3800	408.57	694.00	2	508.57	44.708
24708	C12H22O2	methyl 10-undecenoate	111-81-9	77.8760	694.00	0.3800	245.65	694.00	1,2	521.15	45.920
24712	C12H22O2	citronellyl acetate	150-84-5	71.8685	694.00	0.3800	402.15	694.00	1,2	502.15	44.091
24714	C12H22O2	cis-5-dodecenoic acid	2430-94-6	77.1745	816.00	0.3800	460.00	816.00	2	560.00	49.678
24716	C12H22O2	menthyl acetate	89-48-5	71.5703	694.00	0.3800	298.15	694.00	1,2	501.15	43.995
24717	C12H22O2	(1R)-(-)-neomenthyl acetate	146502-80-9	73.8225	694.00	0.3800	310.15	694.00	2	508.57	44.708
24718	C12H22O2	(1S)-(+)-neomenthyl acetate	2552-91-2	73.8225	694.00	0.3800	310.15	694.00	2	508.57	44.708
24722	C12H22O2	vinyl decanoate	4704-31-8	73.8225	694.00	0.3800	408.57	694.00	2	508.57	44.708
24723	C12H22O2	acetic acid 2-isopropyl-5-methyl-2-hexen-1-yl ester	40853-56-3	77.1745	816.00	0.3800	460.00	816.00	2	560.00	49.678
24724	C12H22O2	allyl 3,5,5-trimethylhexanoate	71500-21-5	73.8225	694.00	0.3800	408.57	694.00	2	508.57	44.708
24731	C12H22O2	cis-3-hexenyl caproate	31501-11-8	73.8225	694.00	0.3800	408.57	694.00	2	508.57	44.708
24782.1	C12H22S	dicyclohexyl sulfide	7133-46-2	75.1930	802.00	0.3520	283.05	802.00	1,2	559.00	49.390

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
24787	C12H23Br	cis-1-bromo-1-dodecene	66553-39-7	79.8442	712.56	0.3800	279.22	712.56	1,2	534.15	47.175
24788	C12H23Br	trans-1-bromo-1-dodecene	66553-40-0	79.8442	712.56	0.3800	279.22	712.56	1,2	534.15	47.175
24791	C12H23Br3	1,1,1-tribromododecane	62127-69-9	94.7417	804.01	0.3800	406.32	804.01	1,2	613.15	54.855
24792	C12H23Cl	cis-1-chloro-1-dodecene	66553-41-1	79.9945	716.62	0.3800	249.34	716.62	1,2	536.15	47.368
24793	C12H23Cl	trans-1-chloro-1-dodecene	66553-42-2	79.9945	716.62	0.3800	249.34	716.62	1,2	536.15	47.368
24795	C12H23Cl3	1,1,1-trichlorododecane	62108-57-0	86.9509	751.55	0.3800	316.68	751.55	1,2	570.15	50.663
24796	C12H23F	cis-1-fluoro-1-dodecene	66553-43-3	70.4828	637.82	0.3800	251.57	637.82	2	477.39	41.716
24797	C12H23F	trans-1-fluoro-1-dodecene	66553-44-4	70.4828	637.82	0.3800	251.57	637.82	2	477.39	41.716
24799	C12H23F3	1,1,1-trifluorododecane	764-84-1	71.6842	638.20	0.3800	323.37	638.20	1,2	481.15	42.076
24800	C12H23I	cis-1-iodo-1-dodecene	66553-45-5	83.3471	747.98	0.3800	277.48	747.98	1,2	558.15	49.498
24801	C12H23I	trans-1-iodo-1-dodecene	66553-46-6	83.3471	747.98	0.3800	277.48	747.98	1,2	558.15	49.498
24802	C12H23I3	1,1,1-triiodododecane	---	116.3423	996.02	0.3800	401.10	996.02	2	750.15	68.369
24804	C12H23N	dicyclohexylamine	101-83-7	73.5093	737.00	0.3470	273.05	737.00	1,2	529.00	47.391
24805	C12H23N	dodecanenitrile	2437-25-4	84.3384	720.09	0.3800	277.15	720.09	1,2	550.15	48.723
24818	C12H24	heptylcyclopentane	5617-42-5	71.5327	679.00	0.3800	220.00	679.00	1,2	497.30	43.346
24819	C12H24	hexylcyclohexane	4292-75-5	69.4645	691.81	0.3800	263.60	691.81	1,2	497.86	42.844
24820	C12H24	1-methyl-2-pentylcyclohexane	54411-01-7	68.7355	691.81	0.3800	390.65	691.81	1,2	490.65	42.986
24821	C12H24	cyclododecane	294-62-2	69.9154	747.23	0.3800	333.85	747.23	1,2	512.15	45.053
24823	C12H24	1-dodecene	112-41-4	78.8021	657.00	0.4370	237.93	657.00	1,2	486.50	43.704
24823.1	C12H24	cis-2-dodecene	7206-26-0	77.2290	663.00	0.4025	233.00	663.00	1,2	491.00	44.868
24823.2	C12H24	trans-2-dodecene	7206-13-5	77.1070	663.00	0.4013	243.00	663.00	1,2	491.00	44.868
24824	C12H24	2-methyl-1-undecene	18516-37-5	70.6066	656.53	0.3800	232.38	656.53	1,2	484.75	42.421
24825	C12H24	4,4-dimethyl-2-neopentyl-1-pentene	141-70-8	71.9339	656.77	0.3800	271.55	656.77	2	488.99	42.827
24826	C12H24	2,2,4,6,6-pentamethyl-3-heptene	123-48-8	51.5995	656.77	0.3800	353.70	656.77	1,2	453.70	33.032
24827	C12H24	trans-2,2,4,6,6-pentamethyl-3-heptene	27656-50-4	51.5995	656.77	0.3800	353.70	656.77	2	453.70	33.032
24828	C12H24	isobutene, trimer	7756-94-7	51.3044	656.77	0.3800	197.15	656.77	1,2	453.15	32.877
24831	C12H24Br2	1,1-dibromododecane	62168-29-0	89.4448	766.37	0.3800	329.10	766.37	1,2	583.15	51.928
24832	C12H24Br2	1,12-dibromododecane	3344-70-5	89.4448	766.37	0.3800	314.15	766.37	2	583.15	51.928
24833	C12H24Cl2	1,1-dichlorododecane	62017-17-8	84.5671	733.47	0.3800	269.34	733.47	1,2	556.15	49.304
24834	C12H24Cl2	1,12-dichlorododecane	3922-28-9	90.4230	733.47	0.3800	302.15	733.47	1,2	572.15	50.858
24838	C12H24F2	1,1-difluorododecane	62127-45-1	72.9524	656.90	0.3800	273.80	656.90	1,2	492.15	43.130
24839	C12H24I2	1,1-diiododododecane	66553-33-1	101.3592	874.36	0.3800	325.62	874.36	2	659.80	59.431
24852	C12H24O	dodecanal	112-54-9	83.1800	685.00	0.3480	285.15	685.00	1,2	523.15	50.347
24853	C12H24O	2-methylundecanal	110-41-8	78.4215	685.00	0.3800	419.25	685.00	2	519.25	45.737
24854	C12H24O	2-dodecanone	6175-49-1	78.2953	687.46	0.3800	293.65	687.46	1,2	519.85	45.795
24855	C12H24O	6-dodecanone	6064-27-3	78.0903	687.46	0.3800	283.15	687.46	2	519.25	45.737
24855.1	C12H24O	isobutyl heptyl ketone	123-18-2	80.1630	658.00	0.3868	198.00	658.00	1,2	491.40	47.124
24856	C12H24O	decyl vinyl ether	765-05-9	68.8506	686.00	0.3800	232.15	686.00	2	489.15	42.843
24860	C12H24O	trimethyl nonanone	1331-50-6	68.4285	687.46	0.3800	198.25	687.46	1,2	488.15	42.747
24861	C12H24O	3-dodecanone	1534-27-6	78.0903	687.46	0.3800	292.58	687.46	2	519.25	45.737
24862	C12H24O	5-dodecanone	19780-10-0	78.0903	687.46	0.3800	282.85	687.46	2	519.25	45.737
24863	C12H24O	4-dodecanone	6137-26-4	78.0903	687.46	0.3800	284.65	687.46	2	519.25	45.737
24864	C12H24O	(Z)-7-dodecen-1-ol	20056-92-2	80.4620	671.00	0.3800	419.25	671.00	2	519.25	45.737
24867	C12H24O2	dodecanoic acid	143-07-7	130.5300	734.00	0.4910	316.98	734.00	1,2	571.85	62.190
24868	C12H24O2	undecyl formate	5454-24-0	80.6007	700.00	0.3800	283.20	700.00	2	531.48	46.917
24869	C12H24O2	decyl acetate	112-17-4	76.5782	693.80	0.3800	258.12	693.80	1,2	517.15	45.534
24870	C12H24O2	nonyl propanoate	53184-67-1	81.8361	693.10	0.3800	266.83	693.10	2	532.18	46.984
24871	C12H24O2	octyl butanoate	110-39-4	76.8259	691.80	0.3800	217.15	691.80	1,2	517.15	45.534
24872	C12H24O2	heptyl pentanoate	5451-80-9	80.7581	667.00	0.3800	226.75	667.00	1,2	518.35	45.650
24873	C12H24O2	hexyl hexanoate	6378-65-0	81.0605	667.00	0.3800	218.15	667.00	1,2	519.15	45.727
24874	C12H24O2	pentyl heptanoate	7493-82-5	80.8335	667.00	0.3800	223.15	667.00	1,2	518.55	45.669
24875	C12H24O2	butyl octanoate	589-75-3	79.0168	667.00	0.3800	230.25	667.00	1,2	513.65	45.197
24876	C12H24O2	ethyl decanoate	110-38-3	79.3823	667.00	0.3800	253.15	667.00	1,2	514.65	45.293
24877	C12H24O2	ethyl 3-methylnonanoate	86051-37-8	82.6953	667.00	0.3800	423.39	667.00	2	523.39	46.136
24878	C12H24O2	methyl undecanoate	1731-86-8	82.6953	667.00	0.3800	423.39	667.00	2	523.39	46.136
24879	C12H24O2	2-butyloctanoic acid	27610-92-0	56.6593	734.00	0.3800	403.15	734.00	1,2	503.15	36.507
24880	C12H24O2	3,7-dimethyloctanyl acetate	20780-49-8	72.7489	693.80	0.3800	405.00	693.80	2	505.00	44.365
24885.1	C12H24O3	2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	77-68-9	66.6340	662.00	0.1456	261.00	662.00	1,2	524.15	53.025
24892	C12H24S	thiacyclotridecane	295-05-6	76.4901	808.34	0.3800	294.93	808.34	1,2	555.15	49.207
24894	C12H25Br	1-bromododecane	143-15-7	83.0559	726.55	0.3800	263.65	726.55	1,2	549.05	48.616
24895	C12H25Br	2-bromododecane	13187-99-0	83.0559	726.55	0.3800	177.25	726.55	2	549.05	48.616
24897	C12H25Cl	1-chlorododecane	112-52-7	80.7785	711.02	0.3800	263.85	711.02	1,2	536.33	47.386
24899	C12H25F	1-fluorododecane	334-68-9	74.7467	658.60	0.3800	260.15	658.60	1,2	498.15	43.706
24900	C12H25I	1-iodododecane	4292-19-7	90.5995	730.57	0.3800	273.45	730.57	1,2	571.35	50.780
24905	C12H25NO2	1-nitrododecane	16891-99-9	88.5314	740.64	0.3800	368.11	740.64	1,2	570.15	50.663
24914	C12H26	dodecane	112-40-3	77.1658	658.20	0.4070	263.57	658.20	1,2	489.47	44.343
24915	C12H26	3-methylundecane	1002-43-3	70.7797	650.71	0.3800	215.15	650.71	1,2	483.15	42.268
24916	C12H26	4-methylundecane	2980-69-0	70.6193	649.36	0.3800	209.50	649.36	1,2	482.15	42.172
24917	C12H26	5-methylundecane	1632-70-8	70.1382	645.32	0.3800	209.50	645.32	1,2	479.15	41.884
24918	C12H26	6-methylundecane	17302-33-9	70.1382	645.32	0.3800	209.50	645.32	1,2	479.15	41.884
24919	C12H26	3-ethyldecane	17085-96-0	70.5712	648.96	0.3800	209.50	648.96	1,2	481.85	42.143
24920	C12H26	4-ethyldecane	1636-44-8	69.8177	642.63	0.3800	209.50	642.63	1,2	477.15	41.693
24921	C12H26	5-ethyldecane	17302-36-2	69.4973	639.94	0.3800	209.50	639.94	1,2	475.15	41.502
24922	C12H26	2,2-dimethyldecane	17302-37-3	68.5243	645.65	0.3800	226.92	645.65	1,2	474.15	41.406
24923	C12H26	2,3-dimethyldecane	17312-44-6	69.7252	648.85	0.3800	194.50	648.85	1,2	479.15	41.884
24924	C12H26	2,4-dimethyldecane	2801-84-5	68.7696	640.72	0.3800	194.50	640.72	1,2	473.15	41.310
24925	C12H26	2,5-dimethyldecane	17312-50-4	68.4513	638.02	0.3800	194.50	638.02	1,2	471.15	41.119
24926	C12H26	2,6-dimethyldecane	13150-81-7	68.4513	638.02	0.3800	194.50	638.02	1,2	471.15	41.119
24927	C12H26	2,7-dimethyldecane	17312-51-5	69.0880	643.43	0.3800	194.50	643.43	1,2	475.15	41.502
24928	C12H26	2,8-dimethyldecane	17312-52-6	69.4066	646.14	0.3800	194.50	646.14	1,2	477.15	41.693

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
24929	C12H26	2,9-dimethyldecane	1002-17-1	69.4066	646.14	0.3800	194.50	646.14	1,2	477.15	41.693
24930	C12H26	3,3-dimethyldecane	17302-38-4	68.8409	648.37	0.3800	226.92	648.37	1,2	476.15	41.597
24931	C12H26	3,4-dimethyldecane	17312-45-7	69.5659	647.49	0.3800	194.50	647.49	1,2	478.15	41.789
24932	C12H26	3,5-dimethyldecane	17312-48-0	68.7696	640.72	0.3800	194.50	640.72	1,2	473.15	41.310
24933	C12H26	3,6-dimethyldecane	17312-53-7	68.9288	642.08	0.3800	194.50	642.08	1,2	474.15	41.406
24934	C12H26	3,7-dimethyldecane	17312-54-8	69.0880	643.43	0.3800	194.50	643.43	1,2	475.15	41.502
24935	C12H26	3,8-dimethyldecane	17312-55-9	69.5659	647.49	0.3800	194.50	647.49	1,2	478.15	41.789
24936	C12H26	4,4-dimethyldecane	17312-39-9	68.2078	642.92	0.3800	226.92	642.92	1,2	472.15	41.215
24937	C12H26	4,5-dimethyldecane	17312-46-8	69.0880	643.43	0.3800	194.50	643.43	1,2	475.15	41.502
24938	C12H26	4,6-dimethyldecane	17312-49-1	68.4513	638.02	0.3800	194.50	638.02	1,2	471.15	41.119
24939	C12H26	4,7-dimethyldecane	17312-56-0	68.6104	639.37	0.3800	194.50	639.37	1,2	472.15	41.215
24940	C12H26	5,5-dimethyldecane	17453-92-8	67.8914	640.20	0.3800	226.92	640.20	1,2	470.15	41.024
24941	C12H26	5,6-dimethyldecane	1636-43-7	68.9288	642.08	0.3800	194.50	642.08	1,2	474.15	41.406
24942	C12H26	4-propylnonane	6165-37-3	69.0168	635.90	0.3800	209.50	635.90	1,2	472.15	41.215
24943	C12H26	5-propylnonane	998-35-6	68.6967	633.20	0.3800	209.50	633.20	1,2	470.15	41.024
24944	C12H26	4-isopropylnonane	62184-71-8	68.4513	638.02	0.3800	194.50	638.02	1,2	471.15	41.119
24945	C12H26	5-isopropylnonane	62184-72-9	68.4513	638.02	0.3800	194.50	638.02	1,2	471.15	41.119
24946	C12H26	2-methyl-3-ethylnonane	62184-73-0	68.9288	642.08	0.3800	194.50	642.08	1,2	474.15	41.406
24947	C12H26	2-methyl-4-ethylnonane	62184-37-6	68.4513	638.02	0.3800	194.50	638.02	1,2	471.15	41.119
24948	C12H26	2-methyl-5-ethylnonane	62184-38-7	68.1331	635.31	0.3800	194.50	635.31	1,2	469.15	40.928
24949	C12H26	2-methyl-6-ethylnonane	62184-39-8	68.4513	638.02	0.3800	194.50	638.02	1,2	471.15	41.119
24950	C12H26	2-methyl-7-ethylnonane	62184-40-1	69.0880	643.43	0.3800	194.50	643.43	1,2	475.15	41.502
24951	C12H26	3-methyl-3-ethylnonane	17302-39-5	68.9993	649.73	0.3800	226.92	649.73	1,2	477.15	41.693
24952	C12H26	3-methyl-4-ethylnonane	62184-41-2	68.9288	642.08	0.3800	194.50	642.08	1,2	474.15	41.406
24953	C12H26	3-methyl-5-ethylnonane	62184-42-3	67.9741	633.95	0.3800	194.50	633.95	1,2	468.15	40.833
24954	C12H26	3-methyl-6-ethylnonane	62184-43-4	68.6104	639.37	0.3800	194.50	639.37	1,2	472.15	41.215
24955	C12H26	3-methyl-7-ethylnonane	62184-44-5	68.7696	640.72	0.3800	194.50	640.72	1,2	473.15	41.310
24956	C12H26	4-methyl-3-ethylnonane	62184-45-6	68.7696	640.72	0.3800	194.50	640.72	1,2	473.15	41.310
24957	C12H26	4-methyl-4-ethylnonane	17312-40-2	68.2078	642.92	0.3800	226.92	642.92	1,2	472.15	41.215
24958	C12H26	4-methyl-5-ethylnonane	62184-46-7	68.4513	638.02	0.3800	194.50	638.02	1,2	471.15	41.119
24959	C12H26	4-methyl-6-ethylnonane	62184-47-8	68.1331	635.31	0.3800	194.50	635.31	1,2	469.15	40.928
24960	C12H26	4-methyl-7-ethylnonane	62184-48-9	68.7696	640.72	0.3800	194.50	640.72	1,2	473.15	41.310
24961	C12H26	5-methyl-3-ethylnonane	62184-49-0	68.6104	639.37	0.3800	194.50	639.37	1,2	472.15	41.215
24962	C12H26	5-methyl-4-ethylnonane	1632-71-9	68.6104	639.37	0.3800	194.50	639.37	1,2	472.15	41.215
24963	C12H26	5-methyl-5-ethylnonane	14531-16-9	68.0496	641.56	0.3800	226.92	641.56	1,2	471.15	41.119
24964	C12H26	2,2,3-trimethylnonane	55499-04-2	67.9554	648.03	0.3800	211.92	648.03	1,2	473.15	41.310
24965	C12H26	2,2,4-trimethylnonane	62184-50-3	66.5409	635.70	0.3800	211.92	635.70	1,2	464.15	40.451
24966	C12H26	2,2,5-trimethylnonane	62184-51-4	66.5409	635.70	0.3800	211.92	635.70	1,2	464.15	40.451
24967	C12H26	2,2,6-trimethylnonane	62184-52-5	66.3838	634.33	0.3800	211.92	634.33	1,2	463.15	40.355
24968	C12H26	2,2,7-trimethylnonane	62184-53-6	67.1692	641.18	0.3800	211.92	641.18	1,2	468.15	40.833
24969	C12H26	2,2,8-trimethylnonane	62184-54-7	67.1692	641.18	0.3800	211.92	641.18	1,2	468.15	40.833
24970	C12H26	2,3,3-trimethylnonane	62184-55-8	68.2700	650.77	0.3800	211.92	650.77	1,2	475.15	41.502
24971	C12H26	2,3,4-trimethylnonane	62184-56-9	68.3604	644.34	0.3800	179.50	644.34	1,2	473.15	41.310
24972	C12H26	2,3,5-trimethylnonane	62184-57-0	67.7277	638.89	0.3800	179.50	638.89	1,2	469.15	40.928
24973	C12H26	2,3,6-trimethylnonane	62184-58-1	68.0440	641.61	0.3800	179.50	641.61	1,2	471.15	41.119
24974	C12H26	2,3,7-trimethylnonane	62184-59-2	68.5187	645.70	0.3800	179.50	645.70	1,2	474.15	41.406
24975	C12H26	2,3,8-trimethylnonane	62184-60-5	68.3604	644.34	0.3800	179.50	644.34	1,2	473.15	41.310
24976	C12H26	2,4,4-trimethylnonane	62184-61-6	66.3838	634.33	0.3800	211.92	634.33	1,2	463.15	40.355
24977	C12H26	2,4,5-trimethylnonane	62184-62-7	67.5696	637.53	0.3800	179.50	637.53	1,2	468.15	40.833
24978	C12H26	2,4,6-trimethylnonane	62184-10-5	67.0955	633.44	0.3800	179.50	633.44	1,2	465.15	40.546
24979	C12H26	2,4,7-trimethylnonane	62184-11-6	67.4115	636.16	0.3800	179.50	636.16	1,2	467.15	40.737
24980	C12H26	2,4,8-trimethylnonane	49542-74-7	66.9375	632.08	0.3800	179.50	632.08	1,2	464.15	40.451
24981	C12H26	2,5,5-trimethylnonane	62184-12-7	66.3838	634.33	0.3800	211.92	634.33	1,2	463.15	40.355
24982	C12H26	2,5,6-trimethylnonane	62184-13-8	67.7277	638.89	0.3800	179.50	638.89	1,2	469.15	40.928
24983	C12H26	2,5,7-trimethylnonane	62184-14-9	67.4115	636.16	0.3800	179.50	636.16	1,2	467.15	40.737
24984	C12H26	2,5,8-trimethylnonane	49557-09-7	67.0955	633.44	0.3800	179.50	633.44	1,2	465.15	40.546
24985	C12H26	2,6,6-trimethylnonane	62184-15-0	66.3838	634.33	0.3800	211.92	634.33	1,2	463.15	40.355
24986	C12H26	2,6,7-trimethylnonane	62184-16-1	68.2022	642.97	0.3800	179.50	642.97	1,2	472.15	41.215
24987	C12H26	2,7,7-trimethylnonane	62184-17-2	67.4836	643.92	0.3800	211.92	643.92	1,2	470.15	41.024
24988	C12H26	3,3,4-trimethylnonane	62184-18-3	68.2700	650.77	0.3800	211.92	650.77	1,2	475.15	41.502
24989	C12H26	3,3,5-trimethylnonane	62184-19-4	66.3838	634.33	0.3800	211.92	634.33	1,2	463.15	40.355
24990	C12H26	3,3,7-trimethylnonane	62184-21-8	67.1692	641.18	0.3800	211.92	641.18	1,2	468.15	40.833
24991	C12H26	3,3,6-trimethylnonane	62184-20-7	67.6408	645.29	0.3800	211.92	645.29	1,2	471.15	41.119
24992	C12H26	3,4,4-trimethylnonane	62184-22-9	67.9554	648.03	0.3800	211.92	648.03	1,2	473.15	41.310
24993	C12H26	3,4,5-trimethylnonane	62184-23-0	68.3604	644.34	0.3800	179.50	644.34	1,2	473.15	41.310
24994	C12H26	3,4,6-trimethylnonane	62184-24-1	67.8858	640.25	0.3800	179.50	640.25	1,2	470.15	41.024
24995	C12H26	3,4,7-trimethylnonane	27802-85-3	68.3604	644.34	0.3800	179.50	644.34	1,2	473.15	41.310
24996	C12H26	3,5,5-trimethylnonane	62184-25-2	66.5409	635.70	0.3800	211.92	635.70	1,2	464.15	40.451
24997	C12H26	3,5,6-trimethylnonane	62184-26-3	67.8858	640.25	0.3800	179.50	640.25	1,2	470.15	41.024
24998	C12H26	3,5,7-trimethylnonane	62184-27-4	67.5696	637.53	0.3800	179.50	637.53	1,2	468.15	40.833
24999	C12H26	3,6,6-trimethylnonane	62184-28-5	66.3838	634.33	0.3800	211.92	634.33	1,2	463.15	40.355
25000	C12H26	4,4,5-trimethylnonane	62184-29-6	67.6408	645.29	0.3800	211.92	645.29	1,2	471.15	41.119
25001	C12H26	4,4,6-trimethylnonane	62184-30-9	66.5409	635.70	0.3800	211.92	635.70	1,2	464.15	40.451
25002	C12H26	4,5,5-trimethylnonane	62184-31-0	67.6408	645.29	0.3800	211.92	645.29	1,2	471.15	41.119
25003	C12H26	4,5,6-trimethylnonane	62211-85-2	68.0440	641.61	0.3800	179.50	641.61	1,2	471.15	41.119
25004	C12H26	4-tert-butyloctane	62184-32-1	66.5409	635.70	0.3800	211.92	635.70	1,2	464.15	40.451
25005	C12H26	2-methyl-4-propyloctane	62184-33-2	67.3381	628.54	0.3800	194.50	628.54	1,2	464.15	40.451
25006	C12H26	2-methyl-5-propyloctane	62184-34-3	67.3381	628.54	0.3800	194.50	628.54	1,2	464.15	40.451
25007	C12H26	3-methyl-4-propyloctane	62184-35-4	68.2922	636.66	0.3800	194.50	636.66	1,2	470.15	41.024
25008	C12H26	3-methyl-5-propyloctane	62184-36-5	67.8150	632.60	0.3800	194.50	632.60	1,2	467.15	40.737

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
25009	C12H26	4-methyl-4-propyloctane	17312-41-3	67.5752	637.48	0.3800	226.92	637.48	1,2	468.15	40.833
25010	C12H26	4-methyl-5-propyloctane	62183-85-1	68.1331	635.31	0.3800	194.50	635.31	1,2	469.15	40.928
25011	C12H26	2-methyl-3-isopropyloctane	13287-19-9	67.7277	638.89	0.3800	179.50	638.89	1,2	469.15	40.928
25012	C12H26	2-methyl-4-isopropyloctane	62183-86-2	66.7795	630.72	0.3800	179.50	630.72	1,2	463.15	40.355
25013	C12H26	2-methyl-5-isopropyloctane	62183-87-3	66.9375	632.08	0.3800	179.50	632.08	1,2	464.15	40.451
25014	C12H26	3-methyl-4-isopropyloctane	62183-88-4	67.5696	637.53	0.3800	179.50	637.53	1,2	468.15	40.833
25015	C12H26	3-methyl-5-isopropyloctane	62183-89-5	67.0955	633.44	0.3800	179.50	633.44	1,2	465.15	40.546
25016	C12H26	4-methyl-4-isopropyloctane	62183-90-8	67.6408	645.29	0.3800	211.92	645.29	1,2	471.15	41.119
25017	C12H26	4-methyl-5-isopropyloctane	62183-91-9	67.4115	636.16	0.3800	179.50	636.16	1,2	467.15	40.737
25018	C12H26	3,3-diethyloctane	17302-40-8	69.1577	651.09	0.3800	226.92	651.09	1,2	478.15	41.789
25019	C12H26	3,4-diethyloctane	62183-92-0	68.6104	639.37	0.3800	194.50	639.37	1,2	472.15	41.215
25020	C12H26	3,5-diethyloctane	62183-93-1	68.2922	636.66	0.3800	194.50	636.66	1,2	470.15	41.024
25021	C12H26	3,6-diethyloctane	62183-94-2	69.0880	643.43	0.3800	194.50	643.43	1,2	475.15	41.502
25022	C12H26	4,4-diethyloctane	17312-42-4	68.3660	644.29	0.3800	226.92	644.29	1,2	473.15	41.310
25023	C12H26	4,5-diethyloctane	1636-41-5	68.2922	636.66	0.3800	194.50	636.66	1,2	470.15	41.024
25024	C12H26	2,2-dimethyl-3-ethyloctane	62183-95-3	67.3264	642.55	0.3800	211.92	642.55	1,2	469.15	40.928
25025	C12H26	2,2-dimethyl-4-ethyloctane	62183-96-4	65.9130	630.23	0.3800	211.92	630.23	1,2	460.15	40.069
25026	C12H26	2,2-dimethyl-5-ethyloctane	62183-97-5	66.2268	632.97	0.3800	211.92	632.97	1,2	462.15	40.260
25027	C12H26	2,2-dimethyl-6-ethyloctane	62183-98-6	66.8550	638.44	0.3800	211.92	638.44	1,2	466.15	40.641
25028	C12H26	2,3-dimethyl-3-ethyloctane	62183-99-7	68.2700	650.77	0.3800	211.92	650.77	1,2	475.15	41.502
25029	C12H26	2,3-dimethyl-4-ethyloctane	62184-00-3	67.8858	640.25	0.3800	179.50	640.25	1,2	470.15	41.024
25030	C12H26	2,3-dimethyl-5-ethyloctane	62184-01-4	67.4115	636.16	0.3800	179.50	636.16	1,2	467.15	40.737
25031	C12H26	2,3-dimethyl-6-ethyloctane	62184-02-5	68.2022	642.97	0.3800	179.50	642.97	1,2	472.15	41.215
25032	C12H26	2,4-dimethyl-3-ethyloctane	62184-03-6	67.8858	640.25	0.3800	179.50	640.25	1,2	470.15	41.024
25033	C12H26	2,4-dimethyl-4-ethyloctane	62184-04-7	66.5409	635.70	0.3800	211.92	635.70	1,2	464.15	40.451
25034	C12H26	2,4-dimethyl-5-ethyloctane	62184-05-8	67.2535	634.80	0.3800	179.50	634.80	1,2	466.15	40.641
25035	C12H26	2,4-dimethyl-6-ethyloctane	62184-06-9	67.0955	633.44	0.3800	179.50	633.44	1,2	465.15	40.546
25036	C12H26	2,5-dimethyl-3-ethyloctane	62184-07-0	67.4115	636.16	0.3800	179.50	636.16	1,2	467.15	40.737
25037	C12H26	2,5-dimethyl-4-ethyloctane	62184-08-1	67.0955	633.44	0.3800	179.50	633.44	1,2	465.15	40.546
25038	C12H26	2,5-dimethyl-5-ethyloctane	62184-09-2	66.8550	638.44	0.3800	211.92	638.44	1,2	466.15	40.641
25039	C12H26	2,5-dimethyl-6-ethyloctane	62183-50-0	67.8858	640.25	0.3800	179.50	640.25	1,2	470.15	41.024
25040	C12H26	2,6-dimethyl-3-ethyloctane	62183-51-1	67.8858	640.25	0.3800	179.50	640.25	1,2	470.15	41.024
25041	C12H26	2,6-dimethyl-4-ethyloctane	62183-52-2	66.7795	630.72	0.3800	179.50	630.72	1,2	463.15	40.355
25042	C12H26	2,6-dimethyl-5-ethyloctane	62183-53-3	67.5696	637.53	0.3800	179.50	637.53	1,2	468.15	40.833
25043	C12H26	2,6-dimethyl-6-ethyloctane	62183-54-4	67.6408	645.29	0.3800	211.92	645.29	1,2	471.15	41.119
25044	C12H26	2,7-dimethyl-3-ethyloctane	62183-55-5	67.7277	638.89	0.3800	179.50	638.89	1,2	469.15	40.928
25045	C12H26	2,7-dimethyl-4-ethyloctane	62183-56-6	66.7795	630.72	0.3800	179.50	630.72	1,2	463.15	40.355
25046	C12H26	3,3-dimethyl-4-ethyloctane	62183-57-7	67.6408	645.29	0.3800	211.92	645.29	1,2	471.15	41.119
25047	C12H26	3,3-dimethyl-5-ethyloctane	62183-58-8	66.5409	635.70	0.3800	211.92	635.70	1,2	464.15	40.451
25048	C12H26	3,3-dimethyl-6-ethyloctane	62183-59-9	67.3264	642.55	0.3800	211.92	642.55	1,2	469.15	40.928
25049	C12H26	3,4-dimethyl-3-ethyloctane	62212-28-6	67.9554	648.03	0.3800	211.92	648.03	1,2	473.15	41.310
25050	C12H26	3,4-dimethyl-4-ethyloctane	62183-60-2	68.1127	649.40	0.3800	211.92	649.40	1,2	474.15	41.406
25051	C12H26	3,4-dimethyl-5-ethyloctane	62183-61-3	68.0440	641.61	0.3800	179.50	641.61	1,2	471.15	41.119
25052	C12H26	3,4-dimethyl-6-ethyloctane	62183-62-4	68.0440	641.61	0.3800	179.50	641.61	1,2	471.15	41.119
25053	C12H26	3,5-dimethyl-3-ethyloctane	62183-63-5	67.3264	642.55	0.3800	211.92	642.55	1,2	469.15	40.928
25054	C12H26	3,5-dimethyl-4-ethyloctane	62183-64-6	67.8858	640.25	0.3800	179.50	640.25	1,2	470.15	41.024
25055	C12H26	3,5-dimethyl-5-ethyloctane	62183-65-7	66.3838	634.33	0.3800	211.92	634.33	1,2	463.15	40.355
25056	C12H26	3,5-dimethyl-6-ethyloctane	62183-66-8	67.8858	640.25	0.3800	179.50	640.25	1,2	470.15	41.024
25057	C12H26	3,6-dimethyl-3-ethyloctane	62183-67-9	67.7981	646.66	0.3800	211.92	646.66	1,2	472.15	41.215
25058	C12H26	3,6-dimethyl-4-ethyloctane	62183-68-0	67.7277	638.89	0.3800	179.50	638.89	1,2	469.15	40.928
25059	C12H26	4,4-dimethyl-3-ethyloctane	62183-69-1	67.6408	645.29	0.3800	211.92	645.29	1,2	471.15	41.119
25060	C12H26	4,4-dimethyl-5-ethyloctane	62183-70-4	67.3264	642.55	0.3800	211.92	642.55	1,2	469.15	40.928
25061	C12H26	4,4-dimethyl-6-ethyloctane	62183-71-5	66.5409	635.70	0.3800	211.92	635.70	1,2	464.15	40.451
25062	C12H26	4,5-dimethyl-3-ethyloctane	62183-72-6	68.2022	642.97	0.3800	179.50	642.97	1,2	472.15	41.215
25063	C12H26	4,5-dimethyl-4-ethyloctane	62183-73-7	67.9554	648.03	0.3800	211.92	648.03	1,2	473.15	41.310
25064	C12H26	2,2,3,3-tetramethyloctane	62183-74-8	67.1366	655.89	0.3800	229.34	655.89	1,2	473.15	41.310
25065	C12H26	2,2,3,4-tetramethyloctane	62183-75-9	66.7622	645.03	0.3800	196.92	645.03	1,2	468.15	40.833
25066	C12H26	2,2,3,5-tetramethyloctane	62183-76-0	66.2937	640.89	0.3800	196.92	640.89	1,2	465.15	40.546
25067	C12H26	2,2,3,6-tetramethyloctane	62183-77-1	66.6060	643.65	0.3800	196.92	643.65	1,2	467.15	40.737
25068	C12H26	2,2,3,7-tetramethyloctane	62183-78-2	66.6060	643.65	0.3800	196.92	643.65	1,2	467.15	40.737
25069	C12H26	2,2,4,4-tetramethyloctane	62183-79-3	65.8942	644.80	0.3800	229.34	644.80	1,2	465.15	40.546
25070	C12H26	2,2,4,5-tetramethyloctane	62183-80-6	65.5135	634.00	0.3800	196.92	634.00	1,2	460.15	40.069
25071	C12H26	2,2,4,6-tetramethyloctane	62183-81-7	65.2016	631.25	0.3800	196.92	631.25	1,2	458.15	39.878
25072	C12H26	2,2,4,7-tetramethyloctane	62183-82-8	65.1705	630.97	0.3800	196.92	630.97	1,2	457.95	39.859
25073	C12H26	2,2,5,5-tetramethyloctane	62183-83-9	64.6538	633.71	0.3800	229.34	633.71	1,2	457.15	39.783
25074	C12H26	2,2,5,6-tetramethyloctane	62183-84-0	65.9815	638.14	0.3800	196.92	638.14	1,2	463.15	40.355
25075	C12H26	2,2,5,7-tetramethyloctane	62199-19-3	65.2016	631.25	0.3800	196.92	631.25	1,2	458.15	39.878
25076	C12H26	2,2,6,6-tetramethyloctane	62199-20-6	64.8087	635.10	0.3800	229.34	635.10	1,2	458.15	39.878
25077	C12H26	2,2,6,7-tetramethyloctane	62199-21-7	66.1376	639.52	0.3800	196.92	639.52	1,2	464.15	40.451
25078	C12H26	2,2,7,7-tetramethyloctane	1071-31-4	64.8087	635.10	0.3800	229.34	635.10	1,2	458.15	39.878
25079	C12H26	2,3,3,4-tetramethyloctane	62199-22-8	67.6999	653.29	0.3800	196.92	653.29	1,2	474.15	41.406
25080	C12H26	2,3,3,5-tetramethyloctane	62199-23-9	66.6060	643.65	0.3800	196.92	643.65	1,2	467.15	40.737
25081	C12H26	2,3,3,6-tetramethyloctane	62199-24-0	66.9184	646.41	0.3800	196.92	646.41	1,2	469.15	40.928
25082	C12H26	2,3,3,7-tetramethyloctane	62199-25-1	66.9184	646.41	0.3800	196.92	646.41	1,2	469.15	40.928
25083	C12H26	2,3,4,4-tetramethyloctane	62199-26-2	66.9184	646.41	0.3800	196.92	646.41	1,2	469.15	40.928
25084	C12H26	2,3,4,5-tetramethyloctane	62199-27-3	67.4780	643.97	0.3800	164.50	643.97	1,2	470.15	41.024
25085	C12H26	2,3,4,6-tetramethyloctane	62199-28-4	67.1637	641.23	0.3800	164.50	641.23	1,2	468.15	40.833
25086	C12H26	2,3,4,7-tetramethyloctane	62199-29-5	67.0066	639.86	0.3800	164.50	639.86	1,2	467.15	40.737
25087	C12H26	2,3,5,5-tetramethyloctane	62199-30-8	66.7622	645.03	0.3800	196.92	645.03	1,2	468.15	40.833
25088	C12H26	2,3,5,6-tetramethyloctane	62199-31-9	67.1637	641.23	0.3800	164.50	641.23	1,2	468.15	40.833

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
25089	C12H26	2,3,5,7-tetramethyloctane	62199-32-0	66.3783	634.39	0.3800	164.50	634.39	1,2	463.15	40.355
25090	C12H26	2,3,6,6-tetramethyloctane	62199-33-1	66.4498	642.27	0.3800	196.92	642.27	1,2	466.15	40.641
25091	C12H26	2,3,6,7-tetramethyloctane	52670-34-5	67.3208	642.60	0.3800	164.50	642.60	1,2	469.15	40.928
25092	C12H26	2,4,4,5-tetramethyloctane	62199-34-2	66.1376	639.52	0.3800	196.92	639.52	1,2	464.15	40.451
25093	C12H26	2,4,4,6-tetramethyloctane	62199-35-3	65.2016	631.25	0.3800	196.92	631.25	1,2	458.15	39.878
25094	C12H26	2,4,4,7-tetramethyloctane	35866-96-7	65.0457	629.87	0.3800	196.92	629.87	1,2	457.15	39.783
25095	C12H26	2,4,5,5-tetramethyloctane	62199-36-4	66.2937	640.89	0.3800	196.92	640.89	1,2	465.15	40.546
25096	C12H26	2,4,5,6-tetramethyloctane	62199-37-5	67.0066	639.86	0.3800	164.50	639.86	1,2	467.15	40.737
25097	C12H26	2,4,5,7-tetramethyloctane	2217-17-6	65.7977	629.32	0.3800	164.50	629.32	1,2	459.45	40.002
25098	C12H26	2,4,6,6-tetramethyloctane	62199-38-6	65.5135	634.00	0.3800	196.92	634.00	1,2	460.15	40.069
25099	C12H26	2,5,5,6-tetramethyloctane	62199-39-7	66.6060	643.65	0.3800	196.92	643.65	1,2	467.15	40.737
25100	C12H26	2,5,6,6-tetramethyloctane	62199-40-0	66.9184	646.41	0.3800	196.92	646.41	1,2	469.15	40.928
25101	C12H26	3,3,4,4-tetramethyloctane	62199-41-1	67.4474	658.66	0.3800	229.34	658.66	1,2	475.15	41.502
25102	C12H26	3,3,4,5-tetramethyloctane	62199-42-2	67.2309	649.16	0.3800	196.92	649.16	1,2	471.15	41.119
25103	C12H26	3,3,4,6-tetramethyloctane	62199-43-3	66.9184	646.41	0.3800	196.92	646.41	1,2	469.15	40.928
25104	C12H26	3,3,5,5-tetramethyloctane	62199-44-4	66.6705	651.73	0.3800	229.34	651.73	1,2	470.15	41.024
25105	C12H26	3,3,5,6-tetramethyloctane	62199-45-5	66.4498	642.27	0.3800	196.92	642.27	1,2	466.15	40.641
25106	C12H26	3,3,6,6-tetramethyloctane	62199-46-6	65.5374	641.61	0.3800	199.87	641.61	1,2	462.85	40.326
25107	C12H26	3,4,4,5-tetramethyloctane	62199-47-7	67.6999	653.29	0.3800	196.92	653.29	1,2	474.15	41.406
25108	C12H26	3,4,4,6-tetramethyloctane	62185-19-7	66.7622	645.03	0.3800	196.92	645.03	1,2	468.15	40.833
25109	C12H26	3,4,5,5-tetramethyloctane	62185-20-0	67.0747	647.78	0.3800	196.92	647.78	1,2	470.15	41.024
25110	C12H26	3,4,5,6-tetramethyloctane	62185-21-1	67.7925	646.71	0.3800	164.50	646.71	1,2	472.15	41.215
25111	C12H26	4,4,5,5-tetramethyloctane	62185-22-2	67.1366	655.89	0.3800	229.34	655.89	1,2	473.15	41.310
25112	C12H26	2-methyl-4-tert-butylheptane	62185-23-3	65.2016	631.25	0.3800	196.92	631.25	1,2	458.15	39.878
25113	C12H26	3-methyl-4-tert-butylheptane	62185-24-4	65.9815	638.14	0.3800	196.92	638.14	1,2	463.15	40.355
25114	C12H26	4-methyl-4-tert-butylheptane	62185-25-5	66.8258	653.12	0.3800	229.34	653.12	1,2	471.15	41.119
25115	C12H26	3-ethyl-4-propylheptane	62185-26-6	68.1331	635.31	0.3800	194.50	635.31	1,2	469.15	40.928
25116	C12H26	4-ethyl-4-propylheptane	17312-43-5	67.8914	640.20	0.3800	226.92	640.20	1,2	470.15	41.024
25117	C12H26	3-ethyl-4-isopropylheptane	62185-27-7	67.5696	637.53	0.3800	179.50	637.53	1,2	468.15	40.833
25118	C12H26	4-ethyl-4-isopropylheptane	62185-28-8	67.9554	648.03	0.3800	211.92	648.03	1,2	473.15	41.310
25119	C12H26	2,2-dimethyl-4-propylheptane	---	65.4423	626.12	0.3800	211.92	626.12	1,2	457.15	39.783
25120	C12H26	2,3-dimethyl-4-propylheptane	62185-30-2	67.4115	636.16	0.3800	179.50	636.16	1,2	467.15	40.737
25121	C12H26	2,4-dimethyl-4-propylheptane	62185-31-3	66.2268	632.97	0.3800	211.92	632.97	1,2	462.15	40.260
25122	C12H26	2,5-dimethyl-4-propylheptane	62185-32-4	66.7795	630.72	0.3800	179.50	630.72	1,2	463.15	40.355
25123	C12H26	2,6-dimethyl-4-propylheptane	62185-33-5	65.9271	623.36	0.3800	179.50	623.36	1,2	457.75	39.840
25124	C12H26	3,3-dimethyl-4-propylheptane	62185-34-6	67.3264	642.55	0.3800	211.92	642.55	1,2	469.15	40.928
25125	C12H26	3,4-dimethyl-4-propylheptane	62185-35-7	67.6408	645.29	0.3800	211.92	645.29	1,2	471.15	41.119
25126	C12H26	3,5-dimethyl-4-propylheptane	62185-36-8	67.7277	638.89	0.3800	179.50	638.89	1,2	469.15	40.928
25127	C12H26	2,2-dimethyl-3-isopropylheptane	62185-37-9	65.9815	638.14	0.3800	196.92	638.14	1,2	463.15	40.355
25128	C12H26	2,2-dimethyl-4-isopropylheptane	62185-38-0	64.7340	627.12	0.3800	196.92	627.12	1,2	455.15	39.592
25129	C12H26	2,3-dimethyl-3-isopropylheptane	62185-39-1	67.6999	653.29	0.3800	196.92	653.29	1,2	474.15	41.406
25130	C12H26	2,3-dimethyl-4-isopropylheptane	62185-40-4	66.6924	637.13	0.3800	164.50	637.13	1,2	465.15	40.546
25131	C12H26	2,4-dimethyl-3-isopropylheptane	62185-41-5	66.6924	637.13	0.3800	164.50	637.13	1,2	465.15	40.546
25132	C12H26	2,4-dimethyl-4-isopropylheptane	62185-42-6	66.2937	640.89	0.3800	196.92	640.89	1,2	465.15	40.546
25133	C12H26	2,5-dimethyl-3-isopropylheptane	62185-43-7	66.3783	634.39	0.3800	164.50	634.39	1,2	463.15	40.355
25134	C12H26	2,5-dimethyl-4-isopropylheptane	62185-44-8	66.2214	633.02	0.3800	164.50	633.02	1,2	462.15	40.260
25135	C12H26	2,6-dimethyl-3-isopropylheptane	62185-45-9	66.5039	635.48	0.3800	164.50	635.48	1,2	463.95	40.431
25136	C12H26	2,6-dimethyl-4-isopropylheptane	35866-89-8	65.2801	624.80	0.3800	164.50	624.80	1,2	456.15	39.687
25137	C12H26	3,3-dimethyl-4-isopropylheptane	62185-46-0	66.6060	643.65	0.3800	196.92	643.65	1,2	467.15	40.737
25138	C12H26	3,4-dimethyl-4-isopropylheptane	62185-47-1	67.6999	653.29	0.3800	196.92	653.29	1,2	474.15	41.406
25139	C12H26	3,5-dimethyl-4-isopropylheptane	62198-89-4	67.0066	639.86	0.3800	164.50	639.86	1,2	467.15	40.737
25140	C12H26	2-methyl-3,3-diethylheptane	62198-90-7	68.4274	652.14	0.3800	211.92	652.14	1,2	476.15	41.597
25141	C12H26	2-methyl-3,4-diethylheptane	62198-91-8	67.5696	637.53	0.3800	179.50	637.53	1,2	468.15	40.833
25142	C12H26	2-methyl-3,5-diethylheptane	62198-92-9	67.5696	637.53	0.3800	179.50	637.53	1,2	468.15	40.833
25143	C12H26	2-methyl-4,4-diethylheptane	62198-93-0	67.0121	639.81	0.3800	211.92	639.81	1,2	467.15	40.737
25144	C12H26	2-methyl-4,5-diethylheptane	62198-94-1	67.2535	634.80	0.3800	179.50	634.80	1,2	466.15	40.641
25145	C12H26	2-methyl-5,5-diethylheptane	62198-95-2	67.6408	645.29	0.3800	211.92	645.29	1,2	471.15	41.119
25146	C12H26	3-methyl-3,4-diethylheptane	62198-96-3	68.1127	649.40	0.3800	211.92	649.40	1,2	474.15	41.406
25147	C12H26	3-methyl-3,5-diethylheptane	62198-97-4	67.4836	643.92	0.3800	211.92	643.92	1,2	470.15	41.024
25148	C12H26	3-methyl-4,4-diethylheptane	62198-98-5	68.5848	653.51	0.3800	211.92	653.51	1,2	477.15	41.693
25149	C12H26	3-methyl-4,5-diethylheptane	62198-99-6	68.0440	641.61	0.3800	179.50	641.61	1,2	471.15	41.119
25150	C12H26	3-methyl-5,5-diethylheptane	62199-00-2	67.7981	646.66	0.3800	211.92	646.66	1,2	472.15	41.215
25151	C12H26	4-methyl-3,3-diethylheptane	62199-01-3	68.7422	654.88	0.3800	211.92	654.88	1,2	478.15	41.789
25152	C12H26	4-methyl-3,4-diethylheptane	62199-02-4	68.1127	649.40	0.3800	211.92	649.40	1,2	474.15	41.406
25153	C12H26	4-methyl-3,5-diethylheptane	62199-03-5	68.3604	644.34	0.3800	179.50	644.34	1,2	473.15	41.310
25154	C12H26	2,2,3-trimethyl-3-ethylheptane	62199-04-6	67.1366	655.89	0.3800	229.34	655.89	1,2	473.15	41.310
25155	C12H26	2,2,3-trimethyl-4-ethylheptane	62199-05-7	66.4498	642.27	0.3800	196.92	642.27	1,2	466.15	40.641
25156	C12H26	2,2,3-trimethyl-5-ethylheptane	62199-06-8	66.2937	640.89	0.3800	196.92	640.89	1,2	465.15	40.546
25157	C12H26	2,2,4-trimethyl-3-ethylheptane	62199-07-9	66.2937	640.89	0.3800	196.92	640.89	1,2	465.15	40.546
25158	C12H26	2,2,4-trimethyl-4-ethylheptane	62199-08-0	66.2047	647.57	0.3800	229.34	647.57	1,2	467.15	40.737
25159	C12H26	2,2,4-trimethyl-5-ethylheptane	62199-09-1	65.5135	634.00	0.3800	196.92	634.00	1,2	460.15	40.069
25160	C12H26	2,2,5-trimethyl-3-ethylheptane	62199-10-4	65.9815	638.14	0.3800	196.92	638.14	1,2	463.15	40.355
25161	C12H26	2,2,5-trimethyl-4-ethylheptane	62199-11-5	65.3576	632.63	0.3800	196.92	632.63	1,2	459.15	39.973
25162	C12H26	2,2,5-trimethyl-5-ethylheptane	62199-12-6	65.4289	640.64	0.3800	229.34	640.64	1,2	462.15	40.260
25163	C12H26	2,2,6-trimethyl-3-ethylheptane	62199-13-7	65.9815	638.14	0.3800	196.92	638.14	1,2	463.15	40.355
25164	C12H26	2,2,6-trimethyl-4-ethylheptane	62199-14-8	64.4225	624.36	0.3800	196.92	624.36	1,2	453.15	39.402
25165	C12H26	2,2,6-trimethyl-5-ethylheptane	62199-15-9	65.5135	634.00	0.3800	196.92	634.00	1,2	460.15	40.069
25166	C12H26	2,3,3-trimethyl-4-ethylheptane	62199-16-0	67.3872	650.54	0.3800	196.92	650.54	1,2	472.15	41.215
25167	C12H26	2,3,3-trimethyl-5-ethylheptane	62199-17-1	66.6060	643.65	0.3800	196.92	643.65	1,2	467.15	40.737
25168	C12H26	2,3,4-trimethyl-3-ethylheptane	62199-18-2	68.0127	656.05	0.3800	196.92	656.05	1,2	476.15	41.597

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
25169	C12H26	2,3,4-trimethyl-4-ethylheptane	62198-55-4	67.2309	649.16	0.3800	196.92	649.16	1,2	471.15	41.119
25170	C12H26	2,3,4-trimethyl-5-ethylheptane	62198-56-5	67.4780	643.97	0.3800	164.50	643.97	1,2	470.15	41.024
25171	C12H26	2,3,5-trimethyl-3-ethylheptane	62198-57-6	67.1528	648.47	0.3800	196.92	648.47	1,2	470.65	41.071
25172	C12H26	2,3,5-trimethyl-4-ethylheptane	62198-58-7	67.3208	642.60	0.3800	164.50	642.60	1,2	469.15	40.928
25173	C12H26	2,3,5-trimethyl-5-ethylheptane	62198-59-8	66.6060	643.65	0.3800	196.92	643.65	1,2	467.15	40.737
25174	C12H26	2,3,6-trimethyl-3-ethylheptane	62198-60-1	66.9184	646.41	0.3800	196.92	646.41	1,2	469.15	40.928
25175	C12H26	2,3,6-trimethyl-4-ethylheptane	62198-61-2	66.3783	634.39	0.3800	164.50	634.39	1,2	463.15	40.355
25176	C12H26	2,3,6-trimethyl-5-ethylheptane	62198-62-3	66.8495	638.50	0.3800	164.50	638.50	1,2	466.15	40.641
25177	C12H26	2,4,4-trimethyl-3-ethylheptane	62198-63-4	66.6060	643.65	0.3800	196.92	643.65	1,2	467.15	40.737
25178	C12H26	2,4,4-trimethyl-5-ethylheptane	62198-64-5	66.2937	640.89	0.3800	196.92	640.89	1,2	465.15	40.546
25179	C12H26	2,4,5-trimethyl-3-ethylheptane	62198-65-6	67.3208	642.60	0.3800	164.50	642.60	1,2	469.15	40.928
25180	C12H26	2,4,5-trimethyl-4-ethylheptane	62198-66-7	66.7622	645.03	0.3800	196.92	645.03	1,2	468.15	40.833
25181	C12H26	2,4,5-trimethyl-5-ethylheptane	62198-67-8	67.0747	647.78	0.3800	196.92	647.78	1,2	470.15	41.024
25182	C12H26	2,4,6-trimethyl-3-ethylheptane	62198-68-9	66.5353	635.76	0.3800	164.50	635.76	1,2	464.15	40.451
25183	C12H26	2,4,6-trimethyl-4-ethylheptane	62198-69-0	65.2016	631.25	0.3800	196.92	631.25	1,2	458.15	39.878
25184	C12H26	2,5,5-trimethyl-3-ethylheptane	62198-70-3	65.9815	638.14	0.3800	196.92	638.14	1,2	463.15	40.355
25185	C12H26	2,5,5-trimethyl-4-ethylheptane	62198-71-4	66.2937	640.89	0.3800	196.92	640.89	1,2	465.15	40.546
25186	C12H26	3,3,4-trimethyl-4-ethylheptane	62198-72-5	67.9139	662.82	0.3800	229.34	662.82	1,2	478.15	41.789
25187	C12H26	3,3,4-trimethyl-5-ethylheptane	62198-73-6	67.3872	650.54	0.3800	196.92	650.54	1,2	472.15	41.215
25188	C12H26	3,3,5-trimethyl-4-ethylheptane	62198-74-7	67.0747	647.78	0.3800	196.92	647.78	1,2	470.15	41.024
25189	C12H26	3,3,5-trimethyl-5-ethylheptane	62198-75-8	67.4474	658.66	0.3800	229.34	658.66	1,2	475.15	41.502
25190	C12H26	3,4,4-trimethyl-3-ethylheptane	62198-76-9	67.9139	662.82	0.3800	229.34	662.82	1,2	478.15	41.789
25191	C12H26	3,4,4-trimethyl-5-ethylheptane	62198-77-0	67.8563	654.67	0.3800	196.92	654.67	1,2	475.15	41.502
25192	C12H26	3,4,5-trimethyl-3-ethylheptane	62198-78-1	67.8563	654.67	0.3800	196.92	654.67	1,2	475.15	41.502
25193	C12H26	3,4,5-trimethyl-4-ethylheptane	62198-79-2	68.3257	658.81	0.3800	196.92	658.81	1,2	478.15	41.789
25194	C12H26	2,2,3,3,4-pentamethylheptane	62198-80-5	66.7234	660.06	0.3800	214.34	660.06	1,2	473.15	41.310
25195	C12H26	2,2,3,3,5-pentamethylheptane	62198-81-6	65.7972	651.69	0.3800	214.34	651.69	1,2	467.15	40.737
25196	C12H26	2,2,3,3,6-pentamethylheptane	62198-82-7	65.6429	650.30	0.3800	214.34	650.30	1,2	466.15	40.641
25197	C12H26	2,2,3,4,4-pentamethylheptane	62198-83-8	67.0323	662.85	0.3800	214.34	662.85	1,2	475.15	41.502
25198	C12H26	2,2,3,4,5-pentamethylheptane	62198-84-9	66.1991	647.63	0.3800	181.92	647.63	1,2	467.15	40.737
25199	C12H26	2,2,3,4,6-pentamethylheptane	62198-85-0	65.2683	639.31	0.3800	181.92	639.31	1,2	461.15	40.164
25200	C12H26	2,2,3,5,5-pentamethylheptane	62198-86-1	64.7180	641.93	0.3800	214.34	641.93	1,2	460.15	40.069
25201	C12H26	2,2,3,5,6-pentamethylheptane	62198-87-2	65.3923	640.42	0.3800	181.92	640.42	1,2	461.95	40.241
25202	C12H26	2,2,3,6,6-pentamethylheptane	62198-88-3	64.4099	639.14	0.3800	214.34	639.14	1,2	458.15	39.878
25203	C12H26	2,2,4,4,5-pentamethylheptane	62199-61-5	66.1058	654.48	0.3800	214.34	654.48	1,2	469.15	40.928
25204	C12H26	2,2,4,4,6-pentamethylheptane	62199-62-6	64.5023	639.98	0.3800	214.34	639.98	1,2	458.75	39.935
25205	C12H26	2,2,4,5,5-pentamethylheptane	62199-63-7	64.5639	640.53	0.3800	214.34	640.53	1,2	459.15	39.973
25206	C12H26	2,2,4,5,6-pentamethylheptane	62199-64-8	64.8033	635.15	0.3800	181.92	635.15	1,2	458.15	39.878
25207	C12H26	2,2,4,6,6-pentamethylheptane	13475-82-6	63.3248	629.30	0.3800	214.34	629.30	1,2	451.10	39.206
25208	C12H26	2,2,5,5,6-pentamethylheptane	62199-65-9	64.5639	640.53	0.3800	214.34	640.53	1,2	459.15	39.973
25209	C12H26	2,3,3,4,4-pentamethylheptane	62199-66-0	67.1869	664.25	0.3800	214.34	664.25	1,2	476.15	41.597
25210	C12H26	2,3,3,4,5-pentamethylheptane	62199-67-1	67.1309	655.95	0.3800	181.92	655.95	1,2	473.15	41.310
25211	C12H26	2,3,3,4,6-pentamethylheptane	62199-68-2	66.3543	649.01	0.3800	181.92	649.01	1,2	468.15	40.833
25212	C12H26	2,3,3,5,5-pentamethylheptane	62199-69-3	66.7234	660.06	0.3800	214.34	660.06	1,2	473.15	41.310
25213	C12H26	2,3,3,5,6-pentamethylheptane	52670-35-6	65.8887	644.85	0.3800	181.92	644.85	1,2	465.15	40.546
25214	C12H26	2,3,4,4,5-pentamethylheptane	62199-70-6	67.1309	655.95	0.3800	181.92	655.95	1,2	473.15	41.310
25215	C12H26	2,3,4,4,6-pentamethylheptane	62199-71-7	65.5784	642.08	0.3800	181.92	642.08	1,2	463.15	40.355
25216	C12H26	2,3,4,5,5-pentamethylheptane	62199-72-8	66.6649	651.79	0.3800	181.92	651.79	1,2	470.15	41.024
25217	C12H26	2,3,4,5,6-pentamethylheptane	27574-98-7	66.7566	645.08	0.3800	149.50	645.08	1,2	468.15	40.833
25218	C12H26	2,4,4,5,5-pentamethylheptane	62199-73-9	66.1058	654.48	0.3800	214.34	654.48	1,2	469.15	40.928
25219	C12H26	3,3,4,4,5-pentamethylheptane	62199-74-0	67.6506	668.43	0.3800	214.34	668.43	1,2	479.15	41.884
25220	C12H26	3,3,4,5,5-pentamethylheptane	62199-75-1	68.1146	672.62	0.3800	214.34	672.62	1,2	482.15	42.172
25221	C12H26	2,2-dimethyl-3-tert-butylhexane	62199-76-2	66.1058	654.48	0.3800	214.34	654.48	1,2	469.15	40.928
25222	C12H26	2-methyl-3-ethyl-3-isopropylhexane	62199-77-3	67.9554	648.03	0.3800	211.92	648.03	1,2	473.15	41.310
25223	C12H26	2-methyl-4-ethyl-3-isopropylhexane	62199-78-4	66.7795	630.72	0.3800	179.50	630.72	1,2	463.15	40.355
25224	C12H26	2,2,3-trimethyl-3-isopropylhexane	62199-79-5	66.8778	661.46	0.3800	214.34	661.46	1,2	474.15	41.406
25225	C12H26	2,2,4-trimethyl-3-isopropylhexane	62199-80-8	65.4233	640.70	0.3800	181.92	640.70	1,2	462.15	40.260
25226	C12H26	2,2,5-trimethyl-3-isopropylhexane	62199-81-9	64.0289	628.22	0.3800	181.92	628.22	1,2	453.15	39.402
25227	C12H26	2,2,5-trimethyl-4-isopropylhexane	62199-82-0	64.0289	628.22	0.3800	181.92	628.22	1,2	453.15	39.402
25228	C12H26	2,3,4-trimethyl-3-isopropylhexane	62199-83-1	67.7527	661.49	0.3800	181.92	661.49	1,2	477.15	41.693
25229	C12H26	2,3,5-trimethyl-3-isopropylhexane	62199-84-2	66.1991	647.63	0.3800	181.92	647.63	1,2	467.15	40.737
25230	C12H26	2,3,5-trimethyl-4-isopropylhexane	62199-85-3	65.9760	638.19	0.3800	149.50	638.19	1,2	463.15	40.355
25231	C12H26	2,4,4-trimethyl-3-isopropylhexane	62199-86-4	65.8887	644.85	0.3800	181.92	644.85	1,2	465.15	40.546
25232	C12H26	3,3,4-triethylhexane	62199-87-5	68.8997	656.25	0.3800	211.92	656.25	1,2	479.15	41.884
25233	C12H26	2,2-dimethyl,3,3-diethylhexane	62199-88-6	67.1366	655.89	0.3800	229.34	655.89	1,2	473.15	41.310
25234	C12H26	2,2-dimethyl-3,4-diethylhexane	62199-89-7	65.9815	638.14	0.3800	196.92	638.14	1,2	463.15	40.355
25235	C12H26	2,2-dimethyl-4,4-diethylhexane	62184-89-8	67.1366	655.89	0.3800	229.34	655.89	1,2	473.15	41.310
25236	C12H26	2,3-dimethyl-3,4-diethylhexane	62184-90-1	68.1692	657.43	0.3800	196.92	657.43	1,2	477.15	41.693
25237	C12H26	2,3-dimethyl-4,4-diethylhexane	62184-91-2	68.1692	657.43	0.3800	196.92	657.43	1,2	477.15	41.693
25238	C12H26	2,4-dimethyl-3,3-diethylhexane	62184-92-3	67.5436	651.92	0.3800	196.92	651.92	1,2	473.15	41.310
25239	C12H26	2,4-dimethyl-3,4-diethylhexane	62184-93-4	67.5436	651.92	0.3800	196.92	651.92	1,2	473.15	41.310
25240	C12H26	2,5-dimethyl-3,3-diethylhexane	62184-94-5	65.9815	638.14	0.3800	196.92	638.14	1,2	463.15	40.355
25241	C12H26	2,5-dimethyl-3,4-diethylhexane	62184-95-6	66.3783	634.39	0.3800	164.50	634.39	1,2	463.15	40.355
25242	C12H26	3,3-dimethyl-4,4-diethylhexane	62184-96-7	68.6920	669.75	0.3800	229.34	669.75	1,2	483.15	42.268
25243	C12H26	3,4-dimethyl-3,4-diethylhexane	62184-97-8	68.6920	669.75	0.3800	229.34	669.75	1,2	483.15	42.268
25244	C12H26	2,2,3,3-tetramethyl-4-ethylhexane	62184-98-9	66.8778	661.46	0.3800	214.34	661.46	1,2	474.15	41.406
25245	C12H26	2,2,3,4-tetramethyl-3-ethylhexane	62184-99-0	67.3414	665.64	0.3800	214.34	665.64	1,2	477.15	41.693
25246	C12H26	2,2,3,4-tetramethyl-4-ethylhexane	62185-00-6	67.9599	671.22	0.3800	214.34	671.22	1,2	481.15	42.076
25247	C12H26	2,2,3,5-tetramethyl-3-ethylhexane	62185-01-7	65.7972	651.69	0.3800	214.34	651.69	1,2	467.15	40.737
25248	C12H26	2,2,3,5-tetramethyl-4-ethylhexane	62185-02-8	65.7336	643.47	0.3800	181.92	643.47	1,2	464.15	40.451

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
25249	C12H26	2,2,4,4-tetramethyl-3-ethylhexane	62185-03-9	66.7234	660.06	0.3800	214.34	660.06	1,2	473.15	41.310
25250	C12H26	2,2,4,5-tetramethyl-3-ethylhexane	62185-04-0	65.5784	642.08	0.3800	181.92	642.08	1,2	463.15	40.355
25251	C12H26	2,2,4,5-tetramethyl-4-ethylhexane	62185-05-1	66.2602	655.88	0.3800	214.34	655.88	1,2	470.15	41.024
25252	C12H26	2,2,5,5-tetramethyl-3-ethylhexane	62185-06-2	63.6402	632.16	0.3800	214.34	632.16	1,2	453.15	39.402
25253	C12H26	2,3,3,4-tetramethyl-4-ethylhexane	62185-07-3	67.9599	671.22	0.3800	214.34	671.22	1,2	481.15	42.076
25254	C12H26	2,3,3,5-tetramethyl-4-ethylhexane	62185-08-4	66.6649	651.79	0.3800	181.92	651.79	1,2	470.15	41.024
25255	C12H26	2,3,4,4-tetramethyl-3-ethylhexane	62185-09-5	67.9599	671.22	0.3800	214.34	671.22	1,2	481.15	42.076
25256	C12H26	2,3,4,5-tetramethyl-3-ethylhexane	62185-10-8	67.2863	657.33	0.3800	181.92	657.33	1,2	474.15	41.406
25257	C12H26	2,2,3,3,4,4-hexamethylhexane	62185-11-9	68.3465	691.43	0.3800	231.76	691.43	1,2	489.15	42.843
25258	C12H26	2,2,3,3,4,5-hexamethylhexane	62185-12-0	66.1565	662.99	0.3800	199.34	662.99	1,2	472.15	41.215
25259	C12H26	2,2,3,3,5,5-hexamethylhexane	60302-24-1	65.1398	661.75	0.3800	231.76	661.75	1,2	468.15	40.833
25260	C12H26	2,2,3,4,4,5-hexamethylhexane	62185-13-1	67.2314	672.82	0.3800	199.34	672.82	1,2	479.15	41.884
25261	C12H26	2,2,3,4,5,5-hexamethylhexane	62185-14-2	64.7765	650.35	0.3800	199.34	650.35	1,2	463.15	40.355
25262	C12H26	2,3,3,4,4,5-hexamethylhexane	52670-36-7	67.2314	672.82	0.3800	199.34	672.82	1,2	479.15	41.884
25263	C12H26	2,4-dimethyl-3-ethyl-3-isopropylpentane	62185-16-4	68.0638	664.26	0.3800	181.92	664.26	1,2	479.15	41.884
25264	C12H26	2,2,4-trimethyl-3,3-diethylpentane	62185-15-3	67.6506	668.43	0.3800	214.34	668.43	1,2	479.15	41.884
25265	C12H26	2,2,3,4-tetramethyl-3-isopropylpentane	62185-17-5	66.9241	670.01	0.3800	199.34	670.01	1,2	477.15	41.693
25266	C12H26	2,2,4,4-tetramethyl-3-isopropylpentane	62185-18-6	65.3895	655.97	0.3800	199.34	655.97	1,2	467.15	40.737
25267	C12H26	2,2,3,4,4-pentamethyl-3-ethylpentane	66576-21-4	68.0406	688.61	0.3800	231.76	688.61	1,2	487.15	42.651
25268	C12H26	2-methylundecane	7045-71-8	70.7797	650.71	0.3800	226.34	650.71	2	484.00	42.186
25277	C12H26O	1-dodecanol	112-53-8	129.2500	721.00	0.6760	296.95	721.00	1,2	535.00	47.786
25278	C12H26O	2-dodecanol	10203-28-8	77.8427	704.80	0.3800	292.15	704.80	1,2	525.15	46.306
25279	C12H26O	3-dodecanol	10203-30-2	73.0355	712.90	0.3800	298.15	712.90	2	512.53	45.090
25280	C12H26O	6-dodecanol	6836-38-0	60.7708	712.90	0.3800	303.15	712.90	1,2	498.15	38.519
25281	C12H26O	2-methyl-1-undecanol	10522-26-6	73.0355	712.90	0.3800	412.53	712.90	2	512.53	45.090
25282	C12H26O	2-methyl-3-undecanol	60671-36-5	73.0355	712.90	0.3800	412.53	712.90	2	512.53	45.090
25283	C12H26O	2-methyl-5-undecanol	33978-71-1	73.0355	712.90	0.3800	412.53	712.90	2	512.53	45.090
25284	C12H26O	2-butyl-1-octanol	3913-02-8	75.1721	712.90	0.3800	419.65	712.90	1,2	519.65	45.775
25285	C12H26O	dihexyl ether	112-58-3	84.4168	658.00	0.3960	230.15	658.00	1,2	498.85	48.120
25286	C12H26O	2,6,8-trimethylnonanol-4	123-17-1	60.9206	712.90	0.3800	213.25	712.90	1,2	498.40	38.597
25287	C12H26O2	1,2-dodecanediol	1119-87-5	96.0281	723.16	0.3800	334.15	723.16	2	581.15	51.733
25288	C12H26O2	1,3-dodecanediol	39516-24-0	98.0171	736.85	0.3800	331.14	736.85	2	592.15	52.805
25289	C12H26O2	1,4-dodecanediol	38146-95-1	101.8230	762.98	0.3800	320.15	762.98	2	613.15	54.855
25290	C12H26O2	1,12-dodecanediol	5675-51-4	99.7798	745.30	0.3800	352.35	745.30	2	600.15	53.585
25291	C12H26O2	(R)-1,2-dodecanediol	85514-84-7	98.9097	742.07	0.3800	496.65	742.07	2	596.65	53.244
25292	C12H26O2	(S)-1,2-dodecanediol	85514-85-8	98.9097	742.07	0.3800	343.65	742.07	2	596.65	53.244
25294	C12H26O3	diethylene glycol dibutyl ether	112-73-2	90.8593	680.00	0.3800	212.95	680.00	1,2	529.15	51.270
25310	C12H26S	1-dodecanethiol	112-55-0	81.4240	724.00	0.3340	265.15	724.00	1,2	547.75	50.793
25311	C12H26S	2-dodecanethiol	14402-50-7	80.2987	720.00	0.3800	256.15	720.00	1,2	538.35	47.581
25312	C12H26S	dihexyl sulfide	6294-31-1	90.4288	733.68	0.3800	259.16	733.68	1,2	503.15	58.244
25313	C12H26S	methyl undecyl sulfide	7289-44-3	90.4288	733.68	0.3800	259.16	733.68	2	537.00	54.833
25314	C12H26S	ethyl decyl sulfide	19313-61-2	90.4288	733.68	0.3800	259.16	733.68	2	537.00	54.833
25315	C12H26S	propyl nonyl sulfide	62103-66-6	90.4288	733.68	0.3800	259.16	733.68	2	537.00	54.833
25316	C12H26S	butyl octyl sulfide	16900-07-5	90.4288	733.68	0.3800	259.16	733.68	2	537.00	54.833
25317	C12H26S	tert-dodecylmercaptan	25103-58-6	71.6259	722.00	0.3800	265.75	722.00	1,2	510.65	44.908
25318	C12H26S2	dihexyl disulfide	10496-15-8	94.0453	747.10	0.3800	225.16	747.10	1,2	566.66	54.810
25327	C12H27BO3	tributyl borate	688-74-4	56.9000	743.15	0.3730	203.15	743.15	1,2	506.65	37.123
25340	C12H27N	dodecylamine	124-22-1	85.1000	696.00	0.3430	301.47	696.00	1,2	532.35	51.795
25341	C12H27N	methylundecylamine	66553-53-5	78.0649	682.30	0.3800	277.16	682.30	1,2	517.15	45.534
25342	C12H27N	ethyldecylamine	66553-52-4	77.6570	677.70	0.3800	277.16	677.70	1,2	514.15	45.245
25343	C12H27N	dihexylamine	143-16-8	77.1765	678.20	0.3800	260.09	678.20	1,2	512.95	45.130
25344	C12H27N	dimethyldecylamine	1120-24-7	74.6894	685.30	0.3800	229.15	685.30	1,2	508.15	44.668
25345	C12H27N	diethyloctylamine	4088-37-3	72.3640	645.88	0.3800	256.97	645.88	1,2	486.15	42.555
25346	C12H27N	tributylamine	102-82-9	81.6631	644.00	0.3970	203.00	644.00	1,2	487.15	46.613
25347	C12H27N	triisobutylamine	1116-40-1	52.2007	672.77	0.3800	251.35	672.77	1,2	464.65	33.423
25348	C12H27NO	N,N-diisopentylethanolamine	3574-43-4	67.3873	820.00	0.3800	421.15	820.00	1,2	521.15	45.920
25575	C13H10	fluorene	86-73-7	78.7200	870.00	0.3690	387.94	870.00	1,2	570.44	53.116
25623	C13H10O	benzophenone	119-61-9	78.7000	816.00	0.3040	321.35	816.00	1,2	579.24	54.027
25738	C13H12	diphenylmethane	101-81-5	79.5578	768.00	0.3870	298.39	768.00	1,2	537.42	49.941
25739	C13H12	1-methylbiphenyl	28652-72-4	71.9877	775.80	0.3800	273.15	775.80	1,2	528.45	46.624
25740	C13H12	3-methylbiphenyl	643-93-6	74.6111	801.00	0.3800	277.85	801.00	1,2	545.85	48.306
25741	C13H12	4-methylbiphenyl	644-08-6	74.4859	793.40	0.3800	321.15	793.40	1,2	543.15	48.045
25742	C13H12	2-methylbiphenyl	643-58-3	71.4318	790.07	0.3800	272.95	790.07	1,2	528.65	46.921
25745	C13H12	methylbiphenyl	28652-72-4	76.3372	790.07	0.3800	297.20	790.07	1,2	536.65	49.554
25903	C13H14	1-propylnaphthalene	2765-18-6	82.0340	771.45	0.3800	264.69	771.45	1,2	545.96	51.405
25904	C13H14	2-propylnaphthalene	2027-19-2	82.1408	772.44	0.3800	270.16	772.44	1,2	546.66	51.472
25905	C13H14	1-isopropylnaphthalene	6158-45-8	75.8528	769.66	0.3800	257.61	769.66	1,2	540.94	47.831
25906	C13H14	2-isopropylnaphthalene	2027-17-0	75.9157	770.24	0.3800	288.31	770.24	1,2	541.35	47.871
25907	C13H14	1-methyl-2-ethylnaphthalene	25607-16-3	77.6861	775.02	0.3800	338.14	775.02	1,2	549.15	48.626
25908	C13H14	1-methyl-3-ethylnaphthalene	17179-41-8	77.2219	770.78	0.3800	338.14	770.78	1,2	546.15	48.336
25909	C13H14	1-methyl-4-ethylnaphthalene	27424-87-9	77.3766	772.19	0.3800	338.14	772.19	1,2	547.15	48.432
25910	C13H14	1-methyl-5-ethylnaphthalene	17057-92-0	76.7580	766.55	0.3800	338.14	766.55	1,2	543.15	48.045
25911	C13H14	1-methyl-6-ethylnaphthalene	17059-53-9	77.2219	770.78	0.3800	338.14	770.78	1,2	546.15	48.336
25912	C13H14	1-methyl-7-ethylnaphthalene	2451-00-5	76.9126	767.96	0.3800	370.15	767.96	1,2	544.15	48.142
25913	C13H14	1-methyl-8-ethylnaphthalene	61886-71-3	77.5313	773.61	0.3800	338.14	773.61	1,2	548.15	48.529
25914	C13H14	2-methyl-1-ethylnaphthalene	---	77.2219	770.78	0.3800	338.14	770.78	1,2	546.15	48.336
25915	C13H14	2-methyl-3-ethylnaphthalene	31032-94-7	82.5127	776.44	0.3800	344.16	776.44	1,2	550.16	51.647
25916	C13H14	2-methyl-4-ethylnaphthalene	17057-94-2	77.3766	772.19	0.3800	338.14	772.19	1,2	547.15	48.432
25917	C13H14	2-methyl-5-ethylnaphthalene	---	76.7580	766.55	0.3800	338.14	766.55	1,2	543.15	48.045
25918	C13H14	2-methyl-6-ethylnaphthalene	7372-86-3	81.4631	766.56	0.3800	318.16	766.56	1,2	543.16	50.990

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n							(HVAP - kjoule/mol, T - K)	
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
25919	C13H14	2-methyl-7-ethylnaphthalene	17059-55-1	81.4631	766.56	0.3800	318.16	766.56	1,2	543.16	50.990
25920	C13H14	2-methyl-8-ethylnaphthalene	---	76.7580	766.55	0.3800	338.14	766.55	1,2	543.15	48.045
25921	C13H14	1,2,3-trimethylnaphthalene	879-12-9	78.8577	783.95	0.3800	301.15	783.95	1,2	556.15	49.304
25922	C13H14	1,2,4-trimethylnaphthalene	2717-42-2	78.7027	782.54	0.3800	325.15	782.54	1,2	555.15	49.207
25923	C13H14	1,2,5-trimethylnaphthalene	641-91-8	78.3926	779.72	0.3800	338.14	779.72	1,2	553.15	49.014
25924	C13H14	1,2,6-trimethylnaphthalene	3031-05-8	78.3926	779.72	0.3800	287.15	779.72	1,2	553.15	49.014
25925	C13H14	1,2,7-trimethylnaphthalene	486-34-0	78.0826	776.90	0.3800	416.15	776.90	1,2	551.15	48.820
25926	C13H14	1,2,8-trimethylnaphthalene	3876-97-9	79.1680	786.77	0.3800	417.15	786.77	1,2	558.15	49.498
25927	C13H14	1,3,5-trimethylnaphthalene	2131-39-7	79.0904	786.07	0.3800	319.15	786.07	1,2	557.65	49.450
25928	C13H14	1,3,6-trimethylnaphthalene	3031-08-1	78.3926	779.72	0.3800	338.14	779.72	1,2	553.15	49.014
25929	C13H14	1,3,7-trimethylnaphthalene	2131-38-6	78.3926	779.72	0.3800	286.15	779.72	1,2	553.15	49.014
25930	C13H14	1,3,8-trimethylnaphthalene	17057-91-9	79.1680	786.77	0.3800	321.15	786.77	1,2	558.15	49.498
25931	C13H14	1,4,5-trimethylnaphthalene	2131-41-1	79.1680	786.77	0.3800	335.15	786.77	1,2	558.15	49.498
25932	C13H14	1,4,6-trimethylnaphthalene	2131-42-2	78.0826	776.90	0.3800	338.14	776.90	1,2	551.15	48.820
25933	C13H14	1,6,7-trimethylnaphthalene	2245-38-7	78.3926	779.72	0.3800	298.15	779.72	1,2	553.15	49.014
25934	C13H14	2,3,6-trimethylnaphthalene	829-26-5	77.9276	775.49	0.3800	375.15	775.49	1,2	550.15	48.723
26158	C13H18	1-propyl-[1,2,3,4-tetrahydronaphthalene]	66324-83-2	74.7858	745.97	0.3800	254.84	745.97	1,2	529.55	46.730
26159	C13H18	2-propyl-[1,2,3,4-tetrahydronaphthalene]	66324-84-3	75.4969	752.45	0.3800	265.65	752.45	1,2	534.15	47.175
26160	C13H18	1,2,3,4-tetrahydro-1,1,6-trimethylnaphthalene	475-03-6	65.2420	749.21	0.3800	413.15	749.21	1,2	513.15	42.066
26161	C13H18	2,3-dihydro-1,1,4,7-tetramethyl-1H-indene	1078-04-2	73.3855	749.21	0.3800	425.62	749.21	2	525.62	46.351
26162	C13H18	2,3-dihydro-1,1,4,6-tetramethyl-1H-indene	941-60-6	73.3855	749.21	0.3800	425.62	749.21	2	525.62	46.351
26163	C13H18	1,2,3,4-tetrahydro-2,5,8-trimethylnaphthalene	30316-17-7	73.3855	749.21	0.3800	425.62	749.21	2	525.62	46.351
26283	C13H20	heptylbenzene	1078-71-3	81.3400	714.00	0.4100	225.15	714.00	1,2	519.25	47.750
26284	C13H20	1-methyl-2,4-diisopropylbenzene	1460-98-6	62.8990	714.00	0.3800	397.15	714.00	1,2	497.15	39.993
26285	C13H20	1-methyl-3,5-diisopropylbenzene	3055-14-9	58.5245	714.00	0.3800	212.35	714.00	1,2	489.65	37.695
26286	C13H20	[2-methyl-1-isopropylpropyl]benzene	21777-84-4	60.9192	714.00	0.3800	248.65	714.00	1,2	493.85	38.957
26288	C13H20	(2,4-dimethylpentyl)benzene	54518-00-2	59.9393	714.00	0.3800	392.16	714.00	1,2	492.16	38.442
26315	C13H20O	4-heptylphenol	1987-50-4	32.3477	760.33	0.3800	297.15	760.33	1,2	429.15	23.588
26318	C13H20O	2-sec-butyl-6-isopropylphenol	74926-97-9	47.5762	762.67	0.3800	384.92	762.67	2	484.92	32.411
26319	C13H20O	o-heptylphenol	5284-22-0	31.2209	763.83	0.3800	330.15	763.83	1,2	430.15	22.791
26344	C13H21N	4-heptylaniline	37529-27-4	86.8493	720.00	0.3800	457.00	720.00	2	557.00	49.387
26402	C13H24	1-tridecyne	26186-02-7	78.0244	684.11	0.3800	268.16	684.11	1,2	507.16	46.673
26403	C13H24	2-tridecyne	28467-75-6	75.9431	701.82	0.3800	341.87	701.82	1,2	518.15	45.631
26404	C13H24	3-tridecyne	60186-78-9	74.8209	692.34	0.3800	341.87	692.34	1,2	511.15	44.956
26405	C13H24	dicyclohexylmethane	3178-23-2	73.4544	749.48	0.3800	254.51	749.48	1,2	525.95	46.383
26406	C13H24	1-octylcyclopentene	52315-44-3	74.2163	694.89	0.3800	211.86	694.89	1,2	510.15	44.860
26420	C13H24O2	ethyl 10-undecenoate	692-86-4	80.5743	716.00	0.3800	235.15	716.00	1,2	537.65	47.513
26421	C13H24O2	methyl 11-dodecenoate	29972-79-0	80.5743	716.00	0.3800	437.65	716.00	2	537.65	47.513
26422	C13H24O2	isodecyl acrylate	1330-61-6	80.5743	716.00	0.3800	173.15	716.00	2	537.65	47.513
26423	C13H24O2	2-tridecenoic acid	6969-16-0	79.5852	836.00	0.3800	309.15	836.00	2	575.00	51.135
26424	C13H24O2	12-tridecenoic acid	6006-06-0	79.5852	836.00	0.3800	311.65	836.00	2	575.00	51.135
26426	C13H24O2	citronellyl propionate	76444-23-0	80.5743	716.00	0.3800	437.65	716.00	2	537.65	47.513
26427	C13H24O2	decyl acrylate	2156-96-9	80.5743	716.00	0.3800	437.65	716.00	2	537.65	47.513
26428	C13H24O2	undecenyl acetate	112-19-6	80.5743	716.00	0.3800	437.65	716.00	2	537.65	47.513
26439	C13H25Br	cis-1-bromo-1-tridecene	66324-50-3	83.8440	726.09	0.3800	290.49	726.09	1,2	551.15	48.820
26440	C13H25Br	trans-1-bromo-1-tridecene	66324-51-4	83.8440	726.09	0.3800	290.49	726.09	1,2	551.15	48.820
26442	C13H25Br3	1,1,1-tribromotridecane	62127-70-2	98.4537	813.37	0.3800	417.59	813.37	1,2	627.15	56.225
26443	C13H25Cl	cis-1-chloro-1-tridecene	66324-52-5	84.1640	731.35	0.3800	260.61	731.35	1,2	554.15	49.111
26444	C13H25Cl	trans-1-chloro-1-tridecene	66324-53-6	84.1640	731.35	0.3800	260.61	731.35	1,2	554.15	49.111
26445	C13H25Cl3	1,1,1-trichlorotridecane	3922-24-5	90.8903	763.82	0.3800	327.95	763.82	1,2	586.15	52.220
26446	C13H25F	cis-1-fluoro-1-tridecene	66324-54-7	75.2860	659.99	0.3800	262.84	659.99	2	500.27	43.910
26447	C13H25F	trans-1-fluoro-1-tridecene	66324-55-8	75.2860	659.99	0.3800	262.84	659.99	2	500.27	43.910
26448	C13H25F3	1,1,1-trifluorotridecane	62126-98-1	75.2511	654.90	0.3800	334.64	654.90	1,2	498.15	43.706
26449	C13H25I	cis-1-iodo-1-tridecene	66324-56-9	87.2441	759.56	0.3800	288.75	759.56	1,2	574.15	51.052
26450	C13H25I	trans-1-iodo-1-tridecene	66324-57-0	87.2441	759.56	0.3800	288.75	759.56	1,2	574.15	51.052
26451	C13H25I3	1,1,1-triiodotridecane	---	121.9632	1014.03	0.3800	412.37	1014.03	2	773.03	70.648
26452	C13H25N	tridecanenitrile	629-60-7	88.2211	733.04	0.3800	283.05	733.04	1,2	566.15	50.275
26465	C13H26	octylcyclopentane	1795-20-6	75.3245	702.06	0.3800	229.16	702.06	1,2	516.86	45.396
26466	C13H26	heptylcyclohexane	5617-41-4	73.9481	708.63	0.3800	242.66	708.63	1,2	518.06	44.894
26467	C13H26	2-butyl-1,1,3-trimethylcyclohexane	54676-39-0	72.8677	708.63	0.3800	410.52	708.63	2	510.52	44.896
26468	C13H26	cyclotridecane	295-02-3	73.0949	764.06	0.3800	298.05	764.06	1,2	529.15	46.692
26469	C13H26	1-tridecene	2437-56-1	77.1462	675.00	0.3720	250.08	675.00	1,2	505.93	46.095
26470	C13H26	2-methyl-1-dodecene	16435-49-7	74.8805	673.88	0.3800	241.94	673.88	1,2	504.45	44.312
26471	C13H26	5-butyl-4-nonene	7367-38-6	69.8492	674.44	0.3800	388.65	674.44	1,2	488.65	42.795
26472	C13H26Br2	1,1-dibromotridecane	62168-30-3	93.2490	777.32	0.3800	340.37	777.32	1,2	598.15	53.390
26473	C13H26Br2	1,13-dibromotridecane	31772-05-1	93.2490	777.32	0.3800	282.15	777.32	2	598.15	53.390
26474	C13H26Cl2	1,1-dichlorotridecane	821-93-2	88.4678	745.93	0.3800	280.61	745.93	1,2	572.15	50.858
26475	C13H26F2	1,1-difluorotridecane	62127-02-0	76.6689	672.30	0.3800	285.07	672.30	1,2	509.15	44.764
26476	C13H26I2	1,1-diiodotridecane	66324-43-4	106.7205	893.94	0.3800	336.89	893.94	2	682.68	61.685
26486	C13H26O	1-tridecanal	10486-19-8	95.6235	700.00	0.4140	288.15	700.00	1,2	540.15	51.884
26487	C13H26O	2-tridecanone	593-08-8	81.0789	707.26	0.3800	300.65	707.26	1,2	535.73	47.328
26488	C13H26O	3-tridecanone	1534-26-5	82.0332	707.26	0.3800	304.15	707.26	2	538.47	47.592
26489	C13H26O	7-tridecanone	462-18-0	80.5362	707.26	0.3800	306.15	707.26	1,2	534.15	47.175
26492	C13H26O2	tridecanoic acid	638-53-9	93.3123	746.59	0.3800	314.95	746.59	1,2	585.25	52.132
26493	C13H26O2	2-methyldodecanoic acid	2874-74-0	78.4563	746.59	0.3800	295.15	746.59	2	542.21	47.954
26494	C13H26O2	dodecyl formate	28303-42-6	86.9381	713.20	0.3800	294.47	713.20	2	554.36	49.131
26495	C13H26O2	undecyl acetate	1731-81-3	88.1429	707.60	0.3800	266.35	707.60	2	520.00	53.223
26496	C13H26O2	decyl propanoate	5454-19-3	88.1429	707.60	0.3800	278.10	707.60	2	555.06	49.199
26497	C13H26O2	nonyl butanoate	2639-64-7	80.9543	706.70	0.3800	278.10	706.70	1,2	535.15	47.271
26498	C13H26O2	octyl pentanoate	5451-85-4	84.5709	682.00	0.3800	230.85	682.00	1,2	534.75	47.233

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
26499	C13H26O2	heptyl hexanoate	6976-72-3	84.3366	682.00	0.3800	238.75	682.00	1,2	534.15	47.175
26500	C13H26O2	hexyl heptanoate	1119-06-8	84.3366	682.00	0.3800	225.15	682.00	1,2	534.15	47.175
26501	C13H26O2	pentyl octanoate	638-25-5	84.0259	682.00	0.3800	238.35	682.00	1,2	533.35	47.098
26502	C13H26O2	butyl nonanoate	50623-57-9	91.0497	652.00	0.3990	235.15	652.00	1,2	503.00	50.524
26503	C13H26O2	propyl decanoate	30673-60-0	87.5746	682.00	0.3800	442.21	682.00	2	542.21	47.954
26504	C13H26O2	isopropyl decanoate	2311-59-3	87.5746	682.00	0.3800	442.21	682.00	2	542.21	47.954
26505	C13H26O2	methyl dodecanoate	111-82-0	95.3600	712.00	0.4280	278.15	712.00	1,2	540.00	51.917
26506	C13H26O2	ethyl undecanoate	627-90-7	87.5746	682.00	0.3800	258.15	682.00	2	542.21	47.954
26507	C13H26O2	isoamyl caprylate	2035-99-6	87.5746	682.00	0.3800	442.21	682.00	2	542.21	47.954
26514	C13H26S	thiacyclotetradecane	295-20-5	79.1389	818.79	0.3800	302.68	818.79	1,2	568.15	50.469
26515	C13H27Br	1-bromotridecane	765-09-3	86.9530	739.06	0.3800	279.35	739.06	1,2	565.15	50.178
26516	C13H27Cl	1-chlorotridecane	822-13-9	84.7599	724.59	0.3800	273.85	724.59	1,2	553.15	49.014
26517	C13H27F	1-fluorotridecane	1536-21-6	78.4972	674.20	0.3800	276.15	674.20	1,2	515.15	45.342
26518	C13H27I	1-iodotridecane	35599-77-0	94.4548	744.41	0.3800	285.45	744.41	1,2	587.15	52.317
26522	C13H27NO2	1-nitrotridecane	26817-31-2	92.1158	751.18	0.3800	379.38	751.18	1,2	584.15	52.025
26526	C13H28	tridecane	629-50-5	81.8771	675.80	0.4160	267.76	675.80	1,2	508.62	45.793
26527	C13H28	2-methyldodecane	1560-97-0	75.0281	668.02	0.3800	247.15	668.02	1,2	502.65	44.139
26528	C13H28	3-methyldodecane	17312-57-1	75.1588	669.09	0.3800	220.15	669.09	1,2	503.45	44.216
26529	C13H28	2,2-dimethylundecane	17312-64-0	72.8024	663.40	0.3800	238.19	663.40	1,2	494.15	43.322
26530	C13H28	2,3-dimethylundecane	17312-77-5	74.3561	669.37	0.3800	205.77	669.37	1,2	501.15	43.995
26531	C13H28	2,4-dimethylundecane	17312-80-0	72.4091	653.35	0.3800	205.77	653.35	1,2	489.15	42.843
26532	C13H28	5-butylnonane	17312-63-9	71.3212	666.51	0.3800	390.65	666.51	1,2	490.65	42.986
26535	C13H28O	1-tridecanol	112-70-9	121.9200	731.00	0.5880	303.75	731.00	1,2	547.15	54.150
26536	C13H28O	2-tridecanol	1653-31-2	81.4166	718.60	0.3800	295.15	718.60	1,2	541.15	47.852
26537	C13H28O	3-tridecanol	10289-68-6	77.4195	724.80	0.3800	305.15	724.80	2	531.15	46.885
26538	C13H28O	5-butyl-5-nonanol	597-93-3	77.4195	724.80	0.3800	293.15	724.80	2	531.15	46.885
26539	C13H28O2	1,2-tridecanediol	---	99.3304	736.93	0.3800	342.41	736.93	2	595.15	53.097
26540	C13H28O2	1,3-tridecanediol	---	101.3390	750.55	0.3800	342.41	750.55	2	606.15	54.171
26541	C13H28O2	1,4-tridecanediol	61828-34-0	105.1821	776.55	0.3800	319.15	776.55	2	627.15	56.225
26542	C13H28O2	1,13-tridecanediol	13362-52-2	103.0765	759.19	0.3800	349.75	759.19	2	614.15	54.953
26543	C13H28O2	1,12-tridecanediol	99706-68-0	102.2299	755.80	0.3800	333.65	755.80	2	610.65	54.611
26549	C13H28S	1-tridecanethiol	19484-26-5	92.1012	742.13	0.3800	282.04	742.13	1,2	563.96	53.555
26550	C13H28S	2-tridecanethiol	62155-03-7	84.1491	734.00	0.3800	263.15	734.00	1,2	555.15	49.207
26551	C13H28S	methyl dodecyl sulfide	---	95.6774	748.42	0.3800	271.16	748.42	2	553.00	57.438
26552	C13H28S	ethyl undecyl sulfide	66577-30-8	95.6774	748.42	0.3800	271.16	748.42	2	553.00	57.438
26553	C13H28S	propyl decyl sulfide	66577-31-9	95.6774	748.42	0.3800	271.16	748.42	2	553.00	57.438
26554	C13H28S	butyl nonyl sulfide	66577-32-0	95.6774	748.42	0.3800	271.16	748.42	2	553.00	57.438
26555	C13H29N	tridecylamine	2869-34-3	85.1795	721.70	0.3800	299.15	721.70	1,2	553.15	49.014
26556	C13H29N	methyldodecylamine	7311-30-0	82.0002	696.80	0.3800	291.15	696.80	1,2	534.15	47.175
26557	C13H29N	ethylundecylamine	59570-04-6	81.8253	693.10	0.3800	288.43	693.10	1,2	532.15	46.982
26558	C13H29N	dimethylundecylamine	17373-28-3	78.7144	700.50	0.3800	268.24	700.50	1,2	526.15	46.402
26559	C13H29N	diethylnonylamine	45124-35-4	76.3968	661.69	0.3800	268.24	661.69	1,2	504.15	44.283
26560	C13H29N	6-methyl-N-isopentyl-2-heptanamine	502-59-0	77.5569	694.76	0.3800	420.48	694.76	2	520.48	45.856
26561	C13H29N	tert-amyl-tert-octylamine	150285-07-7	48.0715	694.76	0.3800	373.15	694.76	1,2	473.15	31.140
26562	C13H29N	N-methyldihexylamine	37615-53-5	77.5569	694.76	0.3800	420.48	694.76	2	520.48	45.856
26654	C14H8O2	anthraquinone	84-65-1	101.3800	900.00	0.3800	559.15	900.00	1,2	653.05	62.020
26728	C14H10	anthracene	120-12-7	79.8610	873.00	0.3070	488.93	873.00	1,2	615.18	54.918
26729	C14H10	diphenylacetylene	501-65-5	79.5623	832.00	0.3820	335.65	832.00	1,2	573.00	50.945
26730	C14H10	phenanthrene	85-01-8	87.9276	869.25	0.3980	372.38	869.25	1,2	613.45	54.037
26866	C14H12	cis-stilbene	645-49-8	83.4695	757.00	0.4510	268.15	757.00	1,2	535.00	48.002
26867	C14H12	trans-stilbene	103-30-0	90.5300	820.00	0.4080	397.35	820.00	1,2	579.65	54.871
26868	C14H12	1,1-diphenylethene	530-48-3	76.5290	791.64	0.3800	281.41	791.64	1,2	550.25	48.733
26873	C14H12	stilbene	588-59-0	85.4653	788.50	0.3800	397.05	788.50	1,2	579.65	51.587
26942	C14H12O2	benzyl benzoate	120-51-4	98.1294	820.00	0.3950	292.55	820.00	1,2	596.65	58.707
26987.1	C14H12O4	dimethyl-2,6-naphthalenedicarboxylate	840-65-3	107.5100	883.00	0.3764	464.50	883.00	1,2	650.86	65.026
27052	C14H14	1,1-diphenylethane	612-00-0	82.2500	775.00	0.4020	255.20	775.00	1,2	545.78	50.403
27053	C14H14	1,2-diphenylethane	103-29-7	80.6099	780.00	0.3710	324.34	780.00	1,2	553.65	50.938
27054	C14H14	2-methyldiphenylmethane	713-36-0	78.1272	784.15	0.3800	279.79	784.15	1,2	553.65	49.062
27055	C14H14	3-methyldiphenylmethane	620-47-3	77.9327	782.37	0.3800	245.35	782.37	1,2	552.39	48.940
27056	C14H14	4-methyldiphenylmethane	620-83-7	78.3525	786.22	0.3800	277.76	786.22	1,2	555.11	49.204
27057	C14H14	2,2'-dimethylbiphenyl	605-39-0	73.8433	761.60	0.3800	291.15	761.60	1,2	531.15	46.885
27058	C14H14	2,3'-trimethylbiphenyl	611-43-8	76.5246	781.70	0.3800	322.15	781.70	1,2	547.15	48.432
27059	C14H14	2,4'-dimethlbiphenyl	611-61-0	75.9725	788.20	0.3800	322.15	788.20	1,2	547.15	48.432
27060	C14H14	3,3'-dimethylbiphenyl	612-75-9	78.6031	796.10	0.3800	280.15	796.10	1,2	559.15	49.595
27061	C14H14	3,4'-dimethylbiphenyl	7383-90-6	76.7597	808.30	0.3800	288.15	808.30	1,2	556.15	49.304
27062	C14H14	4,4'-dimethylbiphenyl	613-33-2	78.6863	817.70	0.3800	394.15	817.70	1,2	566.15	50.275
27063	C14H14	2-ethylbiphenyl	1812-51-7	74.6900	777.40	0.3800	267.05	777.40	1,2	539.12	47.655
27064	C14H14	3-ethylbiphenyl	5668-93-9	78.1651	801.00	0.3800	245.65	801.00	1,2	559.11	49.592
27065	C14H14	4-ethylbiphenyl	5707-44-8	76.9441	806.00	0.3800	320.15	806.00	1,2	556.15	49.304
27066	C14H14	2,3-dimethylbiphenyl	3864-18-4	75.9285	802.00	0.3800	322.15	802.00	1,2	551.15	48.820
27067	C14H14	3,4-dimethylbiphenyl	4433-11-8	77.0662	801.20	0.3800	322.15	801.20	1,2	555.15	49.207
27068	C14H14	2,6-dimethylbiphenyl	3976-34-9	74.6612	768.10	0.3800	322.15	768.10	1,2	536.15	47.368
27069	C14H14	1,3-dimethyl-4-phenyl benzene	---	75.3020	783.20	0.3800	322.15	783.20	1,2	543.15	48.045
27070	C14H14	1,3-dimethyl-5-phenyl benzene	---	76.5162	785.00	0.3800	322.15	785.00	1,2	548.15	48.529
27071	C14H14	1,4-dimethyl-2-phenyl benzene	---	73.5073	796.00	0.3800	322.15	796.00	1,2	540.15	47.755
27072	C14H14	2,5-dimethylbiphenyl	7372-85-2	80.4493	792.44	0.3800	449.48	792.44	2	549.48	51.336
27073	C14H14	2,4-dimethylbiphenyl	4433-10-7	77.4917	792.44	0.3800	445.15	792.44	1,2	545.15	49.781
27074	C14H14	3,5-dimethylbiphenyl	17057-88-4	79.1802	792.44	0.3800	295.65	792.44	1,2	547.65	50.670
27138	C14H14O	dibenzyl ether	103-50-4	93.9300	777.00	0.4360	276.75	777.00	1,2	561.45	53.704
27267	C14H16	1-butylnaphthalene	1634-09-9	86.5929	792.00	0.4030	253.43	792.00	1,2	562.54	52.561

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
27268	C14H16	2-butylnaphthalene	1134-62-9	86.9203	780.96	0.3800	268.16	780.96	1,2	562.16	53.597
27269	C14H16	1-sec-butylnaphthalene	1680-58-6	84.5000	818.49	0.3800	333.04	818.49	2	575.00	53.306
27270	C14H16	2-sec-butylnaphthalene	4614-03-3	84.0495	818.49	0.3800	333.04	818.49	2	585.41	52.148
27271	C14H16	1-isobutylnaphthalene	16727-91-6	78.9192	772.68	0.3800	263.75	772.68	1,2	552.65	48.965
27272	C14H16	2-isobutylnaphthalene	26490-07-3	84.0495	818.49	0.3800	333.04	818.49	2	585.41	52.148
27273	C14H16	1-tert-butylnaphthalene	17085-91-5	77.7609	781.33	0.3800	262.15	781.33	1,2	551.45	48.849
27274	C14H16	2-tert-butylnaphthalene	2876-35-9	78.0386	783.88	0.3800	268.15	783.88	1,2	553.25	49.023
27275	C14H16	1-methyl-2-propylnaphthalene	39036-65-2	84.6641	812.35	0.3800	333.04	812.35	2	585.41	52.148
27276	C14H16	2-methyl-1-propylnaphthalene	54774-89-9	84.6641	812.35	0.3800	333.04	812.35	2	585.41	52.148
27277	C14H16	3-methyl-2-propylnaphthalene	66577-19-3	84.6641	812.35	0.3800	333.04	812.35	2	585.41	52.148
27278	C14H16	2-methyl-1-isopropylnaphthalene	32114-79-7	84.1424	817.54	0.3800	333.04	817.54	2	585.41	52.148
27279	C14H16	3-methyl-2-isopropylnaphthalene	66577-18-2	84.1424	817.54	0.3800	333.04	817.54	2	585.41	52.148
27280	C14H16	1-methyl-3-isopropylnaphthalene	66577-16-0	84.1424	817.54	0.3800	333.04	817.54	2	585.41	52.148
27281	C14H16	1-methyl-4-isopropylnaphthalene	1680-53-1	84.1424	817.54	0.3800	333.04	817.54	2	585.41	52.148
27282	C14H16	1-methyl-6-isopropylnaphthalene	10136-83-1	84.1424	817.54	0.3800	333.04	817.54	2	585.41	52.148
27283	C14H16	1-methyl-7-isopropylnaphthalene	490-65-3	79.2411	773.88	0.3800	333.04	773.88	1,2	554.15	49.111
27284	C14H16	2-methyl-8-isopropylnaphthalene	---	79.3975	775.28	0.3800	333.04	775.28	1,2	555.15	49.207
27285	C14H16	1,2-diethylnaphthalene	19182-11-7	84.6641	812.35	0.3800	333.04	812.35	2	585.41	52.148
27286	C14H16	1,4-diethylnaphthalene	37796-58-0	84.6641	812.35	0.3800	293.15	812.35	2	585.41	52.148
27287	C14H16	1,6-diethylnaphthalene	19182-13-9	84.6641	812.35	0.3800	333.04	812.35	2	585.41	52.148
27288	C14H16	1,7-diethylnaphthalene	66577-37-5	84.6641	812.35	0.3800	333.04	812.35	2	585.41	52.148
27289	C14H16	2,3-diethylnaphthalene	66610-91-1	84.6641	812.35	0.3800	333.04	812.35	2	585.41	52.148
27289.1	C14H16	2,6-diethylnaphthalene	59919-41-4	81.7550	807.00	0.3434	322.15	807.00	1,2	576.00	53.209
27290	C14H16	2,4-dimethyl-1-ethylnaphthalene	66577-14-8	84.7569	811.44	0.3800	333.04	811.44	2	585.41	52.148
27291	C14H16	4,6-dimethyl-1-ethylnaphthalene	66577-15-9	84.7569	811.44	0.3800	333.04	811.44	2	585.41	52.148
27292	C14H16	2,5-dimethyl-3-ethylnaphthalene	---	84.7569	811.44	0.3800	333.04	811.44	2	585.41	52.148
27293	C14H16	1,2-dimethyl-4-ethylnaphthalene	66577-38-6	84.7569	811.44	0.3800	333.04	811.44	2	585.41	52.148
27294	C14H16	1,3-dimethyl-5-ethylnaphthalene	66577-40-0	84.7569	811.44	0.3800	303.15	811.44	2	585.41	52.148
27295	C14H16	1,4-dimethyl-5-ethylnaphthalene	66309-90-8	84.7569	811.44	0.3800	265.15	811.44	2	585.41	52.148
27296	C14H16	1,3-dimethyl-6-ethylnaphthalene	39622-45-2	84.7569	811.44	0.3800	333.04	811.44	2	585.41	52.148
27297	C14H16	1,4-dimethyl-6-ethylnaphthalene	66610-92-2	84.7569	811.44	0.3800	333.04	811.44	2	585.41	52.148
27298	C14H16	1,2-dimethyl-7-ethylnaphthalene	66577-39-7	84.7569	811.44	0.3800	333.04	811.44	2	585.41	52.148
27299	C14H16	1,2,3,4-tetramethylnaphthalene	3031-15-0	84.8497	810.54	0.3800	379.15	810.54	2	585.41	52.148
27300	C14H16	1,2,3,6-tetramethylnaphthalene	66577-20-6	84.8497	810.54	0.3800	332.15	810.54	2	585.41	52.148
27301	C14H16	1,2,4,6-tetramethylnaphthalene	66577-21-7	84.8497	810.54	0.3800	317.15	810.54	2	585.41	52.148
27302	C14H16	1,2,4,7-tetramethylnaphthalene	16020-17-0	84.8497	810.54	0.3800	270.15	810.54	2	585.41	52.148
27303	C14H16	1,2,4,8-tetramethylnaphthalene	66577-22-8	84.8497	810.54	0.3800	329.15	810.54	2	585.41	52.148
27304	C14H16	1,2,5,6-tetramethylnaphthalene	2131-43-3	84.8497	810.54	0.3800	387.15	810.54	2	585.41	52.148
27305	C14H16	1,2,5,8-tetramethylnaphthalene	3031-16-1	84.8497	810.54	0.3800	333.04	810.54	2	585.41	52.148
27306	C14H16	1,2,6,8-tetramethylnaphthalene	66577-00-2	84.8497	810.54	0.3800	333.04	810.54	2	585.41	52.148
27307	C14H16	1,3,5,8-tetramethylnaphthalene	14558-12-4	84.8497	810.54	0.3800	329.15	810.54	2	585.41	52.148
27308	C14H16	1,3,6,7-tetramethylnaphthalene	7435-50-9	84.8497	810.54	0.3800	318.15	810.54	2	585.41	52.148
27309	C14H16	1,4,5,8-tetramethylnaphthalene	2717-39-7	84.8497	810.54	0.3800	404.15	810.54	2	585.41	52.148
27310	C14H16	1,4,6,7-tetramethylnaphthalene	13764-18-6	84.8497	810.54	0.3800	336.15	810.54	2	585.41	52.148
27311	C14H16	2,3,6,7-tetramethylnaphthalene	1134-40-3	84.8497	810.54	0.3800	464.15	810.54	2	585.41	52.148
27313	C14H16	7-methyl-1-isopropylnaphthalene	66577-17-1	70.7088	807.60	0.3800	455.15	807.60	1,2	555.15	45.453
27314	C14H16	1,3,6,8-tetramethylnaphthalene	14558-14-6	82.4149	807.60	0.3800	357.65	807.60	2	576.21	51.253
27506.1	C14H18O8	di-1-glyceryl terephthalate	66032-51-76	282.4600	882.00	0.6000	397.40	882.00	1,2	715.00	104.065
27560	C14H20	1-butyl-[1,2,3,4-tetrahydronaphthalene]	38857-76-0	78.6273	756.75	0.3800	266.11	756.75	1,2	546.28	48.348
27561	C14H20	2-butyl-[1,2,3,4-tetrahydronaphthalene]	36230-28-1	79.4728	764.18	0.3800	243.05	764.18	1,2	551.65	48.868
27562	C14H20	1,2,3,4-tetrahydro-1,1,2,6-tetramethylnaphthalene	1681-22-7	78.2583	760.47	0.3800	446.31	760.47	2	546.31	48.351
27565	C14H20	5-butyl-1,2,3,4-tetrahydronaphthalene	66325-42-6	80.2862	760.47	0.3800	224.05	760.47	1,2	553.05	49.004
27566	C14H20	1,2,3,4-tetrahydro-5-isobutylnaphthalene	5458-54-8	77.4495	760.47	0.3800	258.45	760.47	1,2	543.55	48.084
27566.1	C14H20	diamantane	2292-79-7	58.8580	791.00	0.3639	517.92	791.00	1,2	529.00	39.371
27644	C14H22	octylbenzene	2189-60-8	86.7068	729.00	0.4280	237.15	729.00	1,2	537.55	48.924
27645	C14H22	1,2,3,4-tetraethylbenzene	642-32-0	81.5087	708.20	0.3800	284.96	708.20	1,2	524.16	48.844
27646	C14H22	1,2,3,5-tetraethylbenzene	38842-05-6	81.4325	707.52	0.3800	284.16	707.52	1,2	523.66	48.798
27647	C14H22	1,2,4,5-tetraethylbenzene	635-81-4	81.3550	706.85	0.3800	283.16	706.85	1,2	523.16	48.752
27648	C14H22	1,4-di-tert-butylbenzene	1012-72-2	72.6304	712.89	0.3800	352.65	712.89	1,2	511.15	44.956
27649	C14H22	(1-methylheptyl)benzene	777-22-0	76.5009	712.89	0.3800	234.25	712.89	2	523.94	46.189
27650	C14H22	1,3-di-tert-butylbenzene	1014-60-4	76.5009	712.89	0.3800	283.65	712.89	2	523.94	46.189
27679	C14H22O	p-tert-octylphenol	140-66-9	91.8510	765.00	0.3910	358.55	765.00	1,2	563.60	54.508
27680	C14H22O	2,4-di-tert-butylphenol	96-76-4	75.0675	765.00	0.3800	329.65	765.00	1,2	536.65	47.416
27681	C14H22O	2,6-di-sec-butylphenol	5510-99-6	67.6083	765.00	0.3800	231.15	765.00	1,2	530.65	43.128
27682	C14H22O	2,6-di-tert-butylphenol	128-39-2	65.9031	765.00	0.3800	312.15	765.00	2	527.81	42.233
27687	C14H22O	4-octylphenol	1806-26-4	29.2908	765.00	0.3800	316.15	765.00	1,2	423.15	21.567
27688	C14H22O	tert-octylphenol	27193-28-8	80.2927	765.00	0.3800	346.15	765.00	1,2	554.65	49.159
27689	C14H22O	3,5-bis(1,1-dimethylethyl)phenol	1138-52-9	65.9031	765.00	0.3800	361.15	765.00	2	527.81	42.233
27691	C14H22O	2-isopropyl-6-(1-methylbutyl)phenol	74926-98-0	65.9031	765.00	0.3800	427.81	765.00	2	527.81	42.233
27724	C14H23N	2,6-diisopropyl-N,N-dimethylaniline	2909-77-5	80.8679	730.00	0.3800	443.85	730.00	2	543.85	48.113
27725	C14H23N	N-(2-ethylhexyl)aniline	10137-80-1	80.8679	730.00	0.3800	443.85	730.00	2	543.85	48.113
27772	C14H24S	3-decylthiophene	65016-55-9	82.8960	785.00	0.3800	470.15	785.00	2	570.15	50.663
27777	C14H26	1,1-dicyclohexylethane	2319-61-1	77.5133	762.12	0.3800	252.33	762.12	1,2	544.32	48.158
27778	C14H26	1,2-dicyclohexylethane	3321-50-4	77.9016	762.12	0.3800	284.65	762.12	1,2	545.65	48.287
27779	C14H26	1-nonylcyclopentene	62184-74-1	78.1154	707.91	0.3800	223.13	707.91	1,2	527.15	46.499
27780	C14H26	1-tetradecyne	765-10-6	79.7958	689.90	0.3800	294.01	689.90	1,2	525.15	46.306
27781	C14H26	3-tetradecyne	60212-32-0	78.7329	705.58	0.3800	353.14	705.58	1,2	528.15	46.595
27782	C14H26	7-tetradecyne	35216-11-6	82.3820	697.74	0.3800	435.60	697.74	2	535.60	47.314
27784	C14H26	1,13-tetradecadiene	21964-49-8	77.5679	736.00	0.3800	435.60	736.00	2	535.60	47.314
27797	C14H26O2	methyl 12-tridecenoate	29780-00-5	70.8829	738.00	0.3800	413.00	738.00	2	513.00	45.135

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
27798	C14H26O2	4-tetradecenoic acid	544-65-0	82.0032	856.00	0.3800	291.65	856.00	2	590.00	52.595
27799	C14H26O2	5-tetradecenoic acid	544-66-1	82.0032	856.00	0.3800	293.15	856.00	2	590.00	52.595
27800	C14H26O2	9-tetradecenoic acid	13147-06-3	82.0032	856.00	0.3800	269.15	856.00	2	590.00	52.595
27801	C14H26O2	decyl methacrylate	3179-47-3	70.8829	738.00	0.3800	250.75	738.00	2	513.00	45.135
27803	C14H26O2	isodecyl methacrylate	29964-84-9	70.8829	738.00	0.3800	413.00	738.00	2	513.00	45.135
27807	C14H26O2	citronellyl butyrate	141-16-2	70.8829	738.00	0.3800	413.00	738.00	2	513.00	45.135
27808	C14H26O2	citronellyl isobutyrate	97-89-2	70.8829	738.00	0.3800	413.00	738.00	2	513.00	45.135
27809	C14H26O2	2,6-dimethyl-2-octen-8-yl butyrate	141-16-2	70.8829	738.00	0.3800	413.00	738.00	2	513.00	45.135
27810	C14H26O2	cis-7-dodecenyl acetate	14959-86-5	70.8829	738.00	0.3800	413.00	738.00	2	513.00	45.135
27825	C14H27Br	cis-1-bromo-1-tetradecene	66827-02-9	87.7310	738.68	0.3800	301.76	738.68	1,2	567.15	50.372
27826	C14H27Br	trans-1-bromo-1-tetradecene	66827-03-0	87.7310	738.68	0.3800	301.76	738.68	1,2	567.15	50.372
27828	C14H27Br3	1,1,1-tribromotetradecane	62155-25-3	102.0082	821.99	0.3800	428.86	821.99	1,2	640.15	57.500
27829	C14H27Cl	cis-1-chloro-1-tetradecene	66827-04-1	88.2280	745.10	0.3800	271.88	745.10	1,2	571.15	50.761
27830	C14H27Cl	trans-1-chloro-1-tetradecene	66827-05-2	88.2280	745.10	0.3800	271.88	745.10	1,2	571.15	50.761
27832	C14H27Cl3	1,1,1-trichlorotetradecane	62108-58-1	94.6943	775.24	0.3800	339.22	775.24	1,2	601.15	53.683
27833	C14H27F	cis-1-fluoro-1-tetradecene	66827-06-3	80.1847	682.24	0.3800	274.11	682.24	2	523.15	46.113
27834	C14H27F	trans-1-fluoro-1-tetradecene	66827-07-4	80.1847	682.24	0.3800	274.11	682.24	2	523.15	46.113
27835	C14H27F3	1,1,1-trifluorotetradecane	62126-99-2	79.0519	670.40	0.3800	345.91	670.40	1,2	515.15	45.342
27836	C14H27I	cis-1-iodo-1-tetradecene	66827-08-5	91.1943	771.57	0.3800	300.02	771.57	1,2	590.15	52.610
27837	C14H27I	trans-1-iodo-1-tetradecene	66827-09-6	91.1943	771.57	0.3800	300.02	771.57	1,2	590.15	52.610
27838	C14H27I3	1,1,1-triiodotetradecane	---	127.6535	1032.58	0.3800	423.64	1032.58	2	795.91	72.932
27839	C14H27N	tetradecanenitrile	629-63-0	91.9614	745.12	0.3800	292.45	745.12	1,2	581.15	51.733
27847	C14H28	nonylcyclopentane	2882-98-6	79.5834	716.95	0.3800	244.16	716.95	1,2	535.26	47.237
27848	C14H28	octylcyclohexane	1795-15-9	78.3189	723.61	0.3800	253.46	723.61	1,2	536.76	46.819
27849	C14H28	cyclotetradecane	295-17-0	76.0225	777.91	0.3800	328.75	777.91	1,2	544.15	48.142
27850	C14H28	1-tetradecene	1120-36-1	87.0145	692.00	0.4180	260.30	692.00	1,2	524.25	48.121
27851	C14H28	2-tetradecene	638-60-8	80.0388	716.27	0.3800	353.14	716.27	1,2	536.15	47.368
27852	C14H28	2-methyl-1-tridecene	18094-01-4	79.0748	690.08	0.3800	251.37	690.08	1,2	523.15	46.113
27853	C14H28	trans-7-tetradecene	41446-63-3	77.8488	699.45	0.3800	423.15	699.45	1,2	523.15	46.113
27854	C14H28Br2	1,1-dibromotetradecane	62168-31-4	96.9071	787.47	0.3800	351.64	787.47	1,2	612.15	54.757
27855	C14H28Br2	1,14-dibromotetradecane	37688-96-3	96.9071	787.47	0.3800	323.55	787.47	2	612.15	54.757
27856	C14H28Cl2	1,1-dichlorotetradecane	4168-40-5	92.4070	758.80	0.3800	291.88	758.80	1,2	588.15	52.415
27857	C14H28F2	1,1-difluorotetradecane	62127-03-1	79.9104	686.60	0.3800	296.34	686.60	1,2	524.15	46.209
27858	C14H28I2	1,1-diiodotetradecane	66826-79-7	112.1555	913.90	0.3800	348.16	913.90	2	705.56	63.946
27862	C14H28O	tetradecanal	124-25-4	86.9533	717.32	0.3800	298.15	717.32	1,2	556.15	49.304
27863	C14H28O	2-tetradecanone	2345-27-9	85.8182	712.65	0.3800	307.15	712.65	1,2	551.15	48.820
27864	C14H28O	7-ethyl-2-methyl-4-undecanone	6976-00-7	77.0686	712.65	0.3800	425.65	712.65	1,2	525.65	46.354
27865	C14H28O	2-methyl-3-tridecanone	40239-35-8	81.8705	712.65	0.3800	320.15	712.65	1,2	540.15	47.755
27866	C14H28O	3-tetradecanone	629-23-2	73.1829	712.65	0.3800	307.15	712.65	2	512.95	45.130
27867	C14H28O	dodecyl vinyl ether	765-14-0	71.0862	726.00	0.3800	410.00	726.00	2	510.00	44.846
27870	C14H28O	cis-9-tetradecenol	35153-15-2	74.6286	699.00	0.3800	412.95	699.00	2	512.95	45.130
27873	C14H28O2	tetradecanoic acid	544-63-8	127.6000	756.00	0.4390	327.55	756.00	1,2	599.35	63.937
27874	C14H28O2	tridecyl formate	42875-41-2	93.9086	725.40	0.3800	305.74	725.40	2	577.24	51.353
27875	C14H28O2	dodecyl acetate	112-66-3	95.2153	720.30	0.3800	274.25	720.30	1,2	538.15	56.470
27876	C14H28O2	undecyl propanoate	5458-33-3	95.0934	720.90	0.3800	289.37	720.90	2	577.94	51.421
27877	C14H28O2	decyl butanoate	5454-09-1	85.4018	720.20	0.3800	289.37	720.20	1,2	553.15	49.014
27878	C14H28O2	octyl hexanoate	4887-30-3	87.6082	695.00	0.3800	245.15	695.00	1,2	548.15	48.529
27879	C14H28O2	heptyl heptanoate	624-09-9	88.4175	695.00	0.3800	240.15	695.00	1,2	550.15	48.723
27880	C14H28O2	hexyl octanoate	1117-55-1	88.5809	695.00	0.3800	242.55	695.00	1,2	550.55	48.762
27881	C14H28O2	pentyl nonanoate	61531-45-1	92.5382	695.00	0.3800	246.15	695.00	2	559.87	49.665
27882	C14H28O2	ethyl laurate	106-33-2	86.0261	695.00	0.3800	263.15	695.00	1,2	544.15	48.142
27883	C14H28O2	methyl tridecanoate	1731-88-0	92.5382	695.00	0.3800	279.65	695.00	2	559.87	49.665
27885	C14H28O2	3,7-dimethyloctanyl butyrate	67874-80-0	87.8980	720.20	0.3800	459.87	720.20	2	559.87	49.665
27893	C14H28S	thiacyclopentadecane	295-51-2	81.6742	827.84	0.3800	310.43	827.84	1,2	580.15	51.636
27895	C14H29Br	1-bromotetradecane	112-71-0	90.7050	750.56	0.3800	278.75	750.56	1,2	580.15	51.636
27896	C14H29Br	1-bromo-12-methyltridecane	111772-90-8	90.7050	750.56	0.3800	480.15	750.56	2	580.15	51.636
27897	C14H29Cl	1-chlorotetradecane	2425-54-9	88.7943	738.54	0.3800	278.05	738.54	1,2	569.99	50.648
27899	C14H29F	1-fluorotetradecane	73180-09-3	82.1233	688.70	0.3800	277.15	688.70	1,2	531.15	46.885
27901	C14H29I	1-iodotetradecane	19218-94-1	98.3383	758.94	0.3800	286.75	758.94	1,2	603.15	53.878
27908	C14H29NO2	1-nitrotetradecane	31241-42-6	95.7089	762.20	0.3800	390.65	762.20	1,2	598.15	53.390
27912	C14H30	tetradecane	629-59-4	86.8851	692.40	0.4180	279.01	692.40	1,2	526.73	47.788
27913	C14H30	2-methyltridecane	1560-96-9	79.1746	684.08	0.3800	248.15	684.08	1,2	521.05	45.910
27914	C14H30	3-methyltridecane	6418-41-3	79.3076	685.13	0.3800	235.65	685.13	1,2	521.85	45.987
27915	C14H30	2,2-dimethyldodecane	49598-54-1	77.0076	679.98	0.3800	249.46	679.98	1,2	513.15	45.149
27916	C14H30	2,3-dimethyldodecane	6117-98-2	78.5906	686.04	0.3800	217.04	686.04	1,2	520.15	45.824
27917	C14H30	2,4-dimethyldodecane	6117-99-3	76.4434	668.89	0.3800	217.04	668.89	1,2	507.15	44.572
27918	C14H30	7-methyltridecane	26730-14-3	78.4165	682.75	0.3800	235.95	682.75	2	518.35	45.650
27922	C14H30O	1-tetradecanol	112-72-1	129.1000	741.00	0.5900	310.65	741.00	1,2	560.15	56.176
27923	C14H30O	2-tetradecanol	4706-81-4	85.2065	731.40	0.3800	307.15	731.40	1,2	557.15	49.401
27924	C14H30O	3-tetradecanol	1653-32-3	82.9070	736.20	0.3800	304.65	736.20	2	552.35	48.936
27925	C14H30O	12-methyl-1-tridecanol	21987-21-3	82.9070	736.20	0.3800	283.65	736.20	2	552.35	48.936
27926	C14H30O	2-methyl-3-tridecanol	98930-89-3	81.1885	736.20	0.3800	293.15	736.20	1,2	547.15	48.432
27927	C14H30O	2-methyl-4-tridecanol	36691-77-7	82.9070	736.20	0.3800	452.35	736.20	2	552.35	48.936
27928	C14H30O	diheptyl ether	629-64-1	82.9625	692.83	0.3800	269.27	692.83	1,2	535.15	47.271
27929	C14H30O	tetradecanol; mixed isomers	27196-00-5	86.2949	736.20	0.3800	311.15	736.20	1,2	562.15	49.886
27930	C14H30O2	1,2-tetradecanediol	21129-09-9	102.5527	751.22	0.3800	341.15	751.22	2	609.15	54.464
27931	C14H30O2	1,3-tetradecanediol	---	104.5784	764.79	0.3800	353.68	764.79	2	620.15	55.540
27932	C14H30O2	1,4-tetradecanediol	---	108.4539	790.69	0.3800	353.68	790.69	2	641.15	57.598
27933	C14H30O2	1,14-tetradecanediol	19812-64-7	106.2826	773.63	0.3800	357.95	773.63	2	628.15	56.323
27938	C14H30O2	2,2,9,9-tetramethyl-1,10-decanediol	35449-36-6	105.4650	770.08	0.3800	334.65	770.08	2	624.65	55.980

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								
										(HVAP - kjoule/mol, T - K)	
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
27946	C14H30S	1-tetradecanethiol	2079-95-0	96.3161	753.80	0.3800	279.26	753.80	1,2	579.36	55.229
27947	C14H30S	2-tetradecanethiol	62155-04-8	88.0957	746.00	0.3800	274.15	746.00	1,2	571.15	50.761
27948	C14H30S	diheptyl sulfide	629-65-2	100.7401	762.23	0.3800	276.16	762.23	1,2	571.15	59.549
27949	C14H30S	methyl tridecyl sulfide	62155-09-3	100.7401	762.23	0.3800	276.16	762.23	2	569.00	59.802
27950	C14H30S	ethyl dodecyl sulfide	2851-83-4	100.7401	762.23	0.3800	276.16	762.23	2	569.00	59.802
27951	C14H30S	propyl undecyl sulfide	66826-84-4	100.7401	762.23	0.3800	276.16	762.23	2	569.00	59.802
27952	C14H30S	butyl decyl sulfide	19313-57-6	100.7401	762.23	0.3800	276.16	762.23	2	569.00	59.802
27953	C14H30S2	diheptyl disulfide	10496-16-9	103.3050	765.96	0.3800	235.16	765.96	1,2	593.86	58.576
27956	C14H31N	tetradecylamine	2016-42-4	92.5000	722.30	0.3340	311.34	722.30	1,2	564.45	55.660
27957	C14H31N	methyltridecylamine	45165-81-9	85.8303	710.20	0.3800	299.70	710.20	1,2	550.15	48.723
27958	C14H31N	ethyldodecylamine	35902-57-9	85.8995	707.40	0.3800	299.70	707.40	1,2	549.15	48.626
27959	C14H31N	diheptylamine	2470-68-0	84.5639	706.40	0.3800	274.15	706.40	1,2	545.15	48.239
27960	C14H31N	dimethyldodecylamine	112-18-5	83.0107	714.50	0.3800	252.85	714.50	1,2	544.15	48.142
27961	C14H31N	diethyldecylamine	6308-94-7	80.1541	675.16	0.3800	279.51	675.16	1,2	520.15	45.824
28029	C15H10N2O2	diphenylmethane-4,4'-diisocyanate	101-68-8	132.1126	802.00	0.3800	311.20	802.00	1,2	609.00	76.890
28135.1	C15H12	1-phenylindene	1961-96-2	101.9800	865.00	0.4619	310.65	865.00	1,2	610.00	58.007
28250	C15H14	1,1-diphenyl-1-propene	778-66-5	79.4127	796.49	0.3800	322.15	796.49	1,2	562.15	49.886
28251	C15H14	1,2-diphenyl-1-propene	779-51-1	78.4290	796.49	0.3800	355.15	796.49	1,2	558.65	49.547
28252	C15H14	1,3-diphenyl-1-propene	5209-18-7	83.2083	796.49	0.3800	289.15	796.49	1,2	575.15	51.149
28253	C15H14	2,3-diphenyl-1-propene	948-97-0	79.4127	796.49	0.3800	321.15	796.49	1,2	562.15	49.886
28379	C15H16	1,1-diphenylpropane	1530-03-6	79.8544	774.30	0.3800	286.85	774.30	1,2	556.37	49.326
28380	C15H16	1,2-diphenylpropane	5814-85-7	79.3121	781.16	0.3800	273.40	781.16	1,2	556.81	49.368
28381	C15H16	1,3-diphenylpropane	1081-75-0	82.1666	797.05	0.3800	252.40	797.05	1,2	571.85	50.829
28382	C15H16	2,2-diphenylpropane	778-22-3	77.9510	788.27	0.3800	302.35	788.27	1,2	554.34	49.129
28383	C15H16	2-methyl-1,1-diphenylethane	32341-92-7	80.2333	787.73	0.3800	304.56	787.73	1,2	562.15	49.886
28384	C15H16	3-methyl-1,1-diphenylethane	32341-91-6	80.0772	786.32	0.3800	304.56	786.32	1,2	561.15	49.789
28385	C15H16	4-methyl-1,1-diphenylethane	3717-68-8	80.3894	789.13	0.3800	304.56	789.13	1,2	563.15	49.984
28386	C15H16	2-methyl-1,2-diphenylethane	34403-05-9	81.9898	793.78	0.3800	304.56	793.78	1,2	570.15	50.663
28387	C15H16	3-methyl-1,2-diphenylethane	34403-06-0	81.8325	792.39	0.3800	304.56	792.39	1,2	569.15	50.566
28388	C15H16	4-methyl-1,2-diphenylethane	14310-20-4	80.5754	781.25	0.3800	304.56	781.25	1,2	561.15	49.789
28389	C15H16	2-ethyldiphenylmethane	28122-25-0	81.0247	785.23	0.3800	262.03	785.23	1,2	564.01	50.067
28390	C15H16	3-ethyldiphenylmethane	28122-24-9	81.1315	786.18	0.3800	263.95	786.18	1,2	564.69	50.133
28391	C15H16	4-ethyldiphenylmethane	620-85-9	81.9945	793.82	0.3800	249.65	793.82	1,2	570.18	50.666
28392	C15H16	2',3'-dimethyldiphenylmethane	62155-16-2	82.0800	792.88	0.3800	304.56	792.88	1,2	570.15	50.663
28393	C15H16	2',4'-dimethyldiphenylmethane	28122-28-3	81.9226	791.49	0.3800	304.56	791.49	1,2	569.15	50.566
28394	C15H16	2',5'-dimethyldiphenylmethane	13540-50-6	81.7652	790.10	0.3800	304.56	790.10	1,2	568.15	50.469
28395	C15H16	2',6'-dimethyldiphenylmethane	---	82.0800	792.88	0.3800	304.56	792.88	1,2	570.15	50.663
28396	C15H16	3',4'-dimethyldiphenylmethane	13540-56-2	82.2375	794.27	0.3800	304.56	794.27	1,2	571.15	50.761
28397	C15H16	3',5'-dimethyldiphenylmethane	28122-27-2	81.6078	788.71	0.3800	304.56	788.71	1,2	567.15	50.372
28398	C15H16	2',2"-dimethyldiphenylmethane	28122-29-4	82.0800	792.88	0.3800	304.56	792.88	1,2	570.15	50.663
28399	C15H16	2',3"-dimethyldiphenylmethane	21895-13-6	81.7652	790.10	0.3800	304.56	790.10	1,2	568.15	50.469
28400	C15H16	2',4"-dimethyldiphenylmethane	21895-17-0	82.2375	794.27	0.3800	304.56	794.27	1,2	571.15	50.761
28401	C15H16	3',3"-dimethyldiphenylmethane	---	81.6078	788.71	0.3800	304.56	788.71	1,2	567.15	50.372
28402	C15H16	3',4"-dimethyldiphenylmethane	21895-16-9	82.0800	792.88	0.3800	304.56	792.88	1,2	570.15	50.663
28403	C15H16	4',4"-dimethyldiphenylmethane	4957-14-6	82.5524	797.05	0.3800	302.15	797.05	1,2	573.15	50.955
28429	C15H16O	p-cumylphenol	599-64-4	101.6800	834.00	0.3890	346.00	834.00	1,2	608.15	61.170
28436	C15H16O2	bisphenol a	80-05-7	128.7706	849.00	0.4220	426.15	849.00	1,2	633.65	72.178
28495	C15H18	2-pentylnaphthalene	93-22-1	92.7380	797.48	0.3800	269.16	797.48	1,2	583.16	56.287
28496	C15H18	1,6-dimethyl-4-isopropylnaphthalene	483-78-3	80.9497	795.40	0.3800	467.15	795.40	1,2	567.15	50.372
28497	C15H18	1-pentylnaphthalene	86-89-5	92.2902	793.32	0.3800	251.16	793.32	1,2	580.15	56.012
28647	C15H22	1-pentyl-[1,2,3,4-tetrahydronaphthalene]	66359-06-6	82.5177	767.60	0.3800	277.38	767.60	1,2	562.78	49.948
28648	C15H22	2-pentyl-[1,2,3,4-tetrahydronaphthalene]	66359-07-7	83.3789	774.92	0.3800	277.38	774.92	1,2	568.15	50.469
28725	C15H24	nonylbenzene	1081-77-2	88.0865	741.00	0.3870	249.00	741.00	1,2	555.20	51.572
28726	C15H24	1,2,4-triisopropylbenzene	948-32-3	61.5492	741.00	0.3800	417.15	741.00	1,2	517.15	39.055
28727	C15H24	1,3,5-triisopropylbenzene	717-74-8	58.1963	741.00	0.3800	265.75	741.00	1,2	511.15	37.300
28728	C15H24	3,5-di-tert-butyltoluene	15181-11-0	61.5492	741.00	0.3800	304.65	741.00	1,2	517.15	39.055
28756	C15H24O	2,6-di-tert-butyl-p-cresol	128-37-0	92.0233	720.00	0.4050	344.00	720.00	1,2	538.00	52.724
28757	C15H24O	nonylphenol	25154-52-3	110.0479	757.00	0.3940	481.00	757.00	1,2	581.00	61.937
28758	C15H24O	2,4-di-tert-butyl-5-methylphenol	497-39-2	83.5521	738.50	0.3800	335.25	738.50	1,2	555.15	49.207
28759	C15H24O	2,4-di-tert-butyl-6-methylphenol	616-55-7	79.3223	738.50	0.3800	324.15	738.50	1,2	542.15	47.948
28764	C15H24O	4-nonylphenol	104-40-5	88.1229	738.50	0.3800	315.65	738.50	1,2	568.15	50.469
28765	C15H24O	4-nonylphenol, isomers	84852-15-3	88.1229	738.50	0.3800	468.15	738.50	1,2	568.15	50.469
28815	C15H28	1,1-dicyclohexylpropane	54934-91-7	80.7230	766.86	0.3800	249.75	766.86	1,2	556.71	49.359
28816	C15H28	1,2-dicyclohexylpropane	41851-34-7	81.0100	766.86	0.3800	251.15	766.86	1,2	557.65	49.450
28817	C15H28	1,3-dicyclohexylpropane	3178-24-3	83.1917	766.86	0.3800	256.15	766.86	1,2	564.65	50.129
28818	C15H28	2,2-dicyclohexylpropane	54934-90-6	81.4708	766.86	0.3800	288.75	766.86	1,2	559.15	49.595
28819	C15H28	1-decylcyclopentene	62184-75-2	81.7570	718.60	0.3800	234.40	718.60	1,2	542.15	47.948
28820	C15H28	1-pentadecyne	765-13-9	87.5882	711.41	0.3800	283.16	711.41	1,2	541.16	50.869
28821	C15H28	2-pentadecyne	52112-25-1	84.0427	729.70	0.3800	364.41	729.70	1,2	553.15	49.014
28822	C15H28	3-pentadecyne	61886-61-1	82.5480	717.83	0.3800	364.41	717.83	1,2	544.15	48.142
28827	C15H28O2	menthol 3-methylbutanoate	16409-46-4	78.5332	760.00	0.3800	447.08	760.00	2	547.08	48.425
28829	C15H28O2	butyl 10-undecenoate	109-42-2	78.5347	760.00	0.3800	447.08	760.00	2	547.08	48.426
28837	C15H29Br	cis-1-bromo-1-pentadecene	66374-76-3	91.4838	750.39	0.3800	313.03	750.39	1,2	582.15	51.831
28838	C15H29Br	trans-1-bromo-1-pentadecene	66374-77-4	91.4838	750.39	0.3800	313.03	750.39	1,2	582.15	51.831
28839	C15H29Br3	1,1,1-tribromopentadecane	62127-71-3	105.3814	829.92	0.3800	440.13	829.92	1,2	652.15	58.679
28840	C15H29Cl	cis-1-chloro-1-pentadecene	66374-78-5	92.1652	757.95	0.3800	283.15	757.95	1,2	587.15	52.317
28841	C15H29Cl	trans-1-chloro-1-pentadecene	66374-79-6	92.1652	757.95	0.3800	283.15	757.95	1,2	587.15	52.317
28842	C15H29Cl3	1,1,1-trichloropentadecane	62108-59-2	98.5146	787.14	0.3800	350.49	787.14	1,2	616.15	55.148
28843	C15H29F	cis-1-fluoro-1-pentadecene	66291-42-7	85.1652	704.64	0.3800	285.38	704.64	2	546.03	48.324
28844	C15H29F	trans-1-fluoro-1-pentadecene	66291-43-8	85.1652	704.64	0.3800	285.38	704.64	2	546.03	48.324

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
28845	C15H29F3	1,1,1-trifluoropentadecane	62127-00-8	82.3568	684.80	0.3800	357.18	684.80	1,2	530.15	46.788
28846	C15H29I	cis-1-iodo-1-pentadecene	66291-44-9	94.8416	781.44	0.3800	311.29	781.44	1,2	604.15	53.976
28847	C15H29I	trans-1-iodo-1-pentadecene	66291-45-0	94.8416	781.44	0.3800	311.29	781.44	1,2	604.15	53.976
28848	C15H29I3	1,1,1-triiodopentadecane	---	133.3933	1051.69	0.3800	434.91	1051.69	2	818.79	75.221
28849	C15H29N	pentadecanenitrile	18300-91-9	95.5358	756.38	0.3800	295.85	756.38	1,2	595.15	53.097
28855	C15H30	decylcyclopentane	1795-21-7	83.7735	730.64	0.3800	251.03	730.64	1,2	552.54	48.995
28856	C15H30	nonylcyclohexane	2883-02-5	82.5587	737.79	0.3800	262.96	737.79	1,2	554.66	48.618
28857	C15H30	1-ethyl-1-methyl-2,4-diisopropylcyclohexane, [1R-(1alpha,2beta,4beta)]	515-12-8	81.8020	737.79	0.3800	449.62	737.79	2	549.62	48.672
28858	C15H30	cyclopentadecane	295-48-7	78.9968	791.72	0.3800	337.35	791.72	1,2	559.15	49.595
28859	C15H30	1-pentadecene	13360-61-7	91.4262	708.00	0.4260	269.42	708.00	1,2	541.61	49.335
28860	C15H30	2-methyl-1-tetradecene	52254-38-3	83.0521	704.33	0.3800	258.08	704.33	1,2	540.15	47.755
28861	C15H30	7-pentadecene	15430-98-5	86.2781	706.17	0.3800	449.62	706.17	2	549.62	48.672
28862	C15H30	8-pentadecene	15430-98-5	86.2781	706.17	0.3800	449.62	706.17	2	549.62	48.672
28862.1	C15H30	trans-2-pentadecene	74392-36-2	89.3000	702.00	0.3883	263.00	702.00	1,2	537.00	50.891
28864	C15H30Br2	1,1-dibromopentadecane	62168-32-5	100.5715	798.14	0.3800	362.91	798.14	1,2	626.15	56.127
28865	C15H30Cl2	1,1-dichloropentadecane	822-15-1	96.1953	770.83	0.3800	303.15	770.83	1,2	603.15	53.878
28866	C15H30F2	1,1-difluoropentadecane	62127-04-2	83.3667	699.80	0.3800	307.61	699.80	1,2	539.15	47.658
28867	C15H30I2	1,1-diiodopentadecane	66325-78-8	117.6458	934.29	0.3800	359.43	934.29	2	728.44	66.213
28873	C15H30O	pentadecanal	2765-11-9	90.4853	728.48	0.3800	300.15	728.48	1,2	570.15	50.663
28874	C15H30O	2-pentadecanone	2345-28-0	89.3437	723.72	0.3800	313.15	723.72	1,2	565.15	50.178
28875	C15H30O	8-pentadecanone	818-23-5	88.9581	723.72	0.3800	316.15	723.72	1,2	564.15	50.081
28877	C15H30O	1-pentadecen-3-ol	99814-65-0	91.7840	713.00	0.3800	300.65	713.00	2	566.48	50.307
28879	C15H30O2	pentadecanoic acid	1002-84-2	123.1486	766.00	0.4160	325.68	766.00	1,2	612.05	63.174
28880	C15H30O2	tetradecyl formate	5451-63-8	101.6585	736.70	0.3800	317.01	736.70	2	600.12	53.582
28881	C15H30O2	tridecyl acetate	1072-33-9	103.1094	732.00	0.3800	281.55	732.00	2	555.00	60.119
28882	C15H30O2	dodecyl propanoate	6221-93-8	102.8414	733.10	0.3800	300.64	733.10	2	600.82	53.650
28883	C15H30O2	undecyl butanoate	5461-02-9	102.9871	732.50	0.3800	300.64	732.50	2	600.82	53.650
28884	C15H30O2	octyl heptanoate	5132-75-2	91.3463	708.00	0.3800	250.65	708.00	1,2	563.15	49.984
28885	C15H30O2	heptyl octanoate	4265-97-8	91.5552	708.00	0.3800	262.55	708.00	1,2	563.65	50.032
28886	C15H30O2	propyl dodecanoate	3681-78-5	103.2244	708.00	0.3800	488.70	708.00	2	588.70	52.468
28887	C15H30O2	isopropyl dodecanoate	10233-13-3	103.2244	708.00	0.3800	488.70	708.00	2	588.70	52.468
28888	C15H30O2	methyl tetradecanoate	124-10-7	93.4731	708.00	0.3800	292.15	708.00	1,2	568.15	50.469
28889	C15H30O2	ethyl tridecanoate	28267-29-0	103.2244	708.00	0.3800	488.70	708.00	2	588.70	52.468
28895	C15H30S	thiacyclohexadecane	295-68-1	84.2462	836.95	0.3800	318.18	836.95	1,2	592.15	52.805
28898	C15H31Br	1-bromopentadecane	629-72-1	94.4798	762.51	0.3800	292.15	762.51	1,2	595.15	53.097
28899	C15H31Cl	1-chloropentadecane	4862-03-1	92.5736	750.73	0.3800	287.85	750.73	1,2	585.15	52.123
28900	C15H31F	1-fluoropentadecane	1555-17-5	85.9992	702.10	0.3800	290.15	702.10	1,2	547.15	48.432
28901	C15H31I	1-iodopentadecane	35599-78-1	101.8353	771.45	0.3800	297.15	771.45	1,2	617.15	55.246
28903	C15H31NO2	1-nitropentadecane	39220-65-0	99.1169	772.46	0.3800	401.92	772.46	1,2	611.15	54.660
28904	C15H32	pentadecane	629-62-9	91.6669	706.80	0.4190	283.10	706.80	1,2	543.83	49.571
28905	C15H32	2-methyltetradecane	1560-95-8	83.1982	698.98	0.3800	264.85	698.98	1,2	538.35	47.581
28906	C15H32	3-methyltetradecane	18435-22-8	83.3842	700.41	0.3800	241.15	700.41	1,2	539.45	47.687
28907	C15H32	2,2-dimethyltridecane	61869-04-3	80.9539	694.17	0.3800	260.73	694.17	1,2	530.15	46.788
28908	C15H32	2,3-dimethyltridecane	18435-20-6	82.7278	701.64	0.3800	228.31	701.64	1,2	538.15	47.561
28909	C15H32	2,4-dimethyltridecane	61868-05-1	80.3758	683.39	0.3800	228.31	683.39	1,2	524.15	46.209
28912	C15H32O	1-pentadecanol	629-76-5	127.1535	722.53	0.3800	317.04	722.53	1,2	578.01	68.982
28913	C15H32O	2-pentadecanol	1653-34-5	88.8773	743.20	0.3800	308.15	743.20	1,2	572.15	50.858
28914	C15H32O	3-pentadecanol	53346-71-7	144.0650	732.87	0.3800	311.95	732.87	1,2	661.15	59.564
28915	C15H32O	2,8-dimethyl-6-isobutylnonanol-4	10143-20-1	104.3428	732.87	0.3800	503.77	732.87	2	603.77	53.938
28916	C15H32O2	1,2-pentadecanediol	33968-47-7	105.6758	766.08	0.3800	364.95	766.08	2	623.15	55.834
28917	C15H32O2	1,3-pentadecanediol	---	107.7158	779.60	0.3800	364.95	779.60	2	634.15	56.911
28918	C15H32O2	1,4-pentadecanediol	---	111.6187	805.42	0.3800	364.95	805.42	2	655.15	58.973
28919	C15H32O2	1,15-pentadecanediol	14722-40-8	109.3787	788.66	0.3800	360.15	788.66	2	642.15	57.696
28921	C15H32S	1-pentadecanethiol	25276-70-4	104.7359	764.77	0.3800	290.93	764.77	1,2	593.86	59.266
28922	C15H32S	2-pentadecanethiol	62155-05-9	91.9391	757.00	0.3800	280.15	757.00	1,2	586.15	52.220
28923	C15H32S	methyl tetradecyl sulfide	7289-45-4	105.5130	775.15	0.3800	284.16	775.15	2	583.00	62.104
28924	C15H32S	ethyl tridecyl sulfide	66271-81-6	105.5130	775.15	0.3800	284.16	775.15	2	583.00	62.104
28925	C15H32S	propyl dodecyl sulfide	66271-82-7	105.5130	775.15	0.3800	284.16	775.15	2	583.00	62.104
28926	C15H32S	butyl undecyl sulfide	66271-83-8	105.5130	775.15	0.3800	284.16	775.15	2	583.00	62.104
28931	C15H33N	pentadecylamine	2570-26-5	93.6833	746.50	0.3800	309.65	746.50	1,2	586.15	52.220
28932	C15H33N	methyltetradecylamine	29369-63-9	89.9056	722.70	0.3800	301.15	722.70	1,2	566.15	50.275
28933	C15H33N	ethyltridecylamine	59570-06-8	89.8732	720.60	0.3800	310.97	720.60	1,2	565.15	50.178
28934	C15H33N	dimethyltridecylamine	17373-29-4	86.8730	727.40	0.3800	290.78	727.40	1,2	560.15	49.692
28935	C15H33N	diethylundecylamine	54334-64-4	83.9491	688.97	0.3800	290.78	688.97	1,2	536.15	47.368
28936	C15H33N	tripentylamine	621-77-2	80.5285	663.27	0.3800	290.78	663.27	1,2	516.15	45.438
28937	C15H33N	triisopentylamine	645-41-0	71.8863	711.57	0.3800	408.15	711.57	1,2	508.15	44.668
28938	C15H33N	tris(2-methylbutyl)amine	620-43-9	71.0256	711.57	0.3800	405.15	711.57	1,2	505.15	44.379
28984	C16H10	fluoranthene	206-44-0	93.9850	905.00	0.3800	383.33	905.00	1,2	655.95	57.560
28985	C16H10	pyrene	129-00-0	103.7000	936.00	0.4640	423.81	936.00	1,2	667.95	58.050
29024	C16H12	1-phenylnaphthalene	605-02-7	93.4448	849.00	0.3870	318.15	849.00	1,2	607.15	57.478
29232	C16H16	1,1-diphenyl-1-butene	1726-14-3	81.6005	790.85	0.3800	271.96	790.85	1,2	567.85	50.440
29233	C16H16	1,3-diphenyl-1-butene	7614-93-9	86.6281	790.85	0.3800	320.65	790.85	1,2	584.15	52.025
29234	C16H16	cis-2,3-diphenyl-2-butene	782-05-8	86.2010	790.85	0.3800	340.65	790.85	2	582.82	51.895
29235	C16H16	trans-2,3-diphenyl-2-butene	782-06-9	86.2010	790.85	0.3800	380.15	790.85	2	582.82	51.895
29290.1	C16H16O2	trans-3,5-dimethoxystilbene	21956-56-9	135.1100	885.00	0.5000	329.55	885.00	1,2	668.00	66.903
29342	C16H18	1,1-diphenylbutane	719-79-9	79.7734	778.30	0.3800	247.95	778.30	1,2	557.44	49.430
29343	C16H18	1,2-diphenylbutane	5223-59-6	81.7773	778.30	0.3800	464.15	778.30	1,2	564.15	50.081
29344	C16H18	1,4-diphenylbutane	1083-56-3	90.2383	778.30	0.3800	325.65	778.30	1,2	590.15	52.610
29346	C16H18	1,3-diphenylbutane, (±)	116783-21-2	82.3877	778.30	0.3800	466.15	778.30	1,2	566.15	50.275
29347	C16H18	1,3-diphenyl-2-methylpropane	1520-46-3	85.5354	778.30	0.3800	239.45	778.30	1,2	576.15	51.247

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
29356	C16H18	DL-2,3-diphenylbutane	2726-21-8	85.8757	778.30	0.3800	477.20	778.30	1,2	577.20	51.349
29358	C16H18	meso-2,3-diphenylbutane	4613-11-0	83.6570	778.30	0.3800	397.45	778.30	2	570.25	50.673
29359.1	C16H18	4-ethyl-bibenzyl	7439-15-8	90.3160	771.00	0.4017	292.00	771.00	1,2	565.15	53.135
29440	C16H20	1-hexylnaphthalene	2876-53-1	98.0613	813.00	0.4180	255.15	813.00	1,2	595.15	56.550
29441	C16H20	2-hexylnaphthalene	2876-46-2	89.0064	803.49	0.3800	267.65	803.49	1,2	596.15	53.195
29442	C16H20	1-isopropyl-2,4,7-trimethylnaphthalene	6995-30-8	83.8361	808.25	0.3800	481.25	808.25	2	581.25	51.743
29443	C16H20	1,2,5-trimethyl-8-isopropylnaphthalene	6897-76-3	83.8361	808.25	0.3800	360.15	808.25	2	581.25	51.743
29444	C16H20	1,3,8-trimethyl-5-isopropylnaphthalene	6897-88-7	83.8361	808.25	0.3800	294.65	808.25	2	581.25	51.743
29445	C16H20	2,6-diisopropylnaphthalene	24157-81-1	65.0221	808.25	0.3800	341.65	808.25	1,2	552.45	41.995
29446	C16H20	bis(isopropyl)naphthalene	38640-62-9	83.8361	808.25	0.3800	481.25	808.25	2	581.25	51.743
29518	C16H22O4	dibutyl phthalate	84-74-2	121.4953	781.00	0.4330	238.15	781.00	1,2	613.15	62.436
29559	C16H24	1-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-11-9	86.3010	777.35	0.3800	288.65	777.35	1,2	578.15	51.441
29560	C16H24	2-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-09-5	87.1174	784.07	0.3800	288.65	784.07	1,2	583.15	51.928
29561	C16H24	1,2,3,4-tetrahydro-6-ethyl-1,1,4,4-tetramethylnaphthalene	80-81-9	86.7091	780.71	0.3800	480.65	780.71	2	580.65	51.685
29595	C16H26	decylbenzene	104-72-3	94.3512	753.00	0.3990	258.77	753.00	1,2	571.04	53.535
29596	C16H26	pentaethylbenzene	605-01-6	89.8702	723.64	0.3800	327.66	723.64	1,2	550.16	52.229
29599	C16H26	(1-methylnonyl)benzene	4537-13-7	86.1694	738.32	0.3800	272.65	738.32	1,2	562.65	49.935
29608	C16H26O	2,6-di-tert-butyl-4-ethylphenol	4130-42-1	78.9902	750.00	0.3800	317.15	750.00	1,2	545.15	48.239
29609	C16H26O	2,4-di-tert-amylphenol	120-95-6	78.9902	750.00	0.3800	298.15	750.00	2	545.15	48.239
29622	C16H27N	4-decylaniline	37529-30-9	86.4164	750.00	0.3800	298.15	750.00	2	568.00	50.455
29637	C16H28S	3-dodecylthiophene	104934-52-3	78.0968	815.00	0.3800	463.15	815.00	1,2	563.15	49.984
29640	C16H30	1-hexadecyne	629-74-3	92.1890	724.26	0.3800	288.16	724.26	1,2	557.16	52.802
29641	C16H30	2-hexadecyne	629-75-4	87.9351	742.19	0.3800	375.68	742.19	1,2	569.15	50.566
29642	C16H30	3-hexadecyne	61886-62-2	86.2467	729.15	0.3800	375.68	729.15	1,2	559.15	49.595
29643	C16H30	1,1-dicyclohexylbutane	54890-00-5	83.5107	768.14	0.3800	262.75	768.14	1,2	566.12	50.272
29644	C16H30	1,4-dicyclohexylbutane	6165-44-2	87.4703	768.14	0.3800	285.15	768.14	1,2	578.15	51.441
29645	C16H30	1,3-dicyclohexyl-2-methylpropane	2883-08-1	84.2251	768.14	0.3800	273.75	768.14	1,2	568.35	50.489
29646	C16H30	1-undecylcyclopentene	62184-76-3	85.4495	729.70	0.3800	245.67	729.70	1,2	557.15	49.401
29648	C16H30	1,3-dicyclohexylbutane	41851-35-8	86.8574	768.14	0.3800	476.34	768.14	1,2	576.34	51.265
29660	C16H30O2	7-hexadecenoic acid	1191-75-9	84.1840	896.00	0.3800	306.15	896.00	2	610.00	54.547
29661	C16H30O2	9-hexadecenoic acid	2091-29-4	84.1840	896.00	0.3800	273.65	896.00	2	610.00	54.547
29662	C16H30O2	cis-9-hexadecenoic acid	373-49-9	84.1840	896.00	0.3800	273.05	896.00	2	610.00	54.547
29663	C16H30O2	lauryl methacrylate	142-90-5	86.7155	782.00	0.3800	481.15	782.00	1,2	581.15	51.733
29665	C16H30O2	cis-9-tetradecenyl acetate	16725-53-4	86.7155	782.00	0.3800	481.15	782.00	2	581.15	51.733
29666	C16H30O2	cis-tetradec-11-en-1-yl acetate	20711-10-8	86.7155	782.00	0.3800	298.15	782.00	2	581.15	51.733
29667	C16H30O2	trans-tetradec-11-en-1-yl acetate	33189-72-9	86.7155	782.00	0.3800	298.15	782.00	2	581.15	51.733
29684	C16H31Br	cis-1-bromo-1-hexadecene	66271-67-8	95.0798	761.27	0.3800	324.30	761.27	1,2	596.15	53.195
29685	C16H31Br	trans-1-bromo-1-hexadecene	66271-68-9	95.0798	761.27	0.3800	324.30	761.27	1,2	596.15	53.195
29688	C16H31Br3	1,1,1-tribromohexadecane	62127-72-4	108.7276	838.47	0.3800	451.40	838.47	1,2	664.15	59.859
29689	C16H31Cl	cis-1-chloro-1-hexadecene	66271-69-0	96.1267	771.23	0.3800	294.42	771.23	1,2	603.15	53.878
29690	C16H31Cl	trans-1-chloro-1-hexadecene	66271-70-3	96.1267	771.23	0.3800	294.42	771.23	1,2	603.15	53.878
29692	C16H31Cl3	1,1,1-trichlorohexadecane	62108-60-5	102.1571	798.28	0.3800	361.76	798.28	1,2	630.15	56.519
29693	C16H31F	cis-1-fluoro-1-hexadecene	66271-71-4	90.2116	727.24	0.3800	296.65	727.24	2	568.91	50.543
29694	C16H31F	trans-1-fluoro-1-hexadecene	66271-72-5	90.2116	727.24	0.3800	296.65	727.24	2	568.91	50.543
29695	C16H31F3	1,1,1-trifluorohexadecane	62127-01-9	85.8759	698.20	0.3800	368.45	698.20	1,2	545.15	48.239
29696	C16H31I	cis-1-iodo-1-hexadecene	66271-73-6	98.5038	791.82	0.3800	322.56	791.82	1,2	618.15	55.344
29697	C16H31I	trans-1-iodo-1-hexadecene	66271-74-7	98.5038	791.82	0.3800	322.56	791.82	1,2	618.15	55.344
29698	C16H31I3	1,1,1-triiodohexadecane	---	139.1598	1071.39	0.3800	446.18	1071.39	2	841.67	77.516
29699	C16H31N	hexadecanenitrile	629-79-8	99.0978	768.13	0.3800	304.65	768.13	1,2	609.15	54.464
29704	C16H32	undecylcyclopentane	6785-23-5	88.2356	743.30	0.3800	263.16	743.30	1,2	568.76	50.877
29705	C16H32	decylcyclohexane	1795-16-0	101.3122	751.25	0.4900	271.42	751.25	1,2	570.75	50.373
29706	C16H32	cyclohexadecane	295-65-8	81.8609	804.08	0.3800	335.25	804.08	1,2	573.15	50.955
29707	C16H32	1-hexadecene	629-73-2	90.7071	722.00	0.3750	277.51	722.00	1,2	558.02	52.028
29708	C16H32	2-methyl-1-pentadecene	29833-69-0	87.0762	718.92	0.3800	266.58	718.92	1,2	557.15	49.401
29709	C16H32	2-methyl-1-propene, tetramer	15220-85-6	73.6430	720.46	0.3800	175.15	720.46	1,2	517.15	45.534
29710	C16H32Br2	1,16-dibromohexadecane	45223-18-5	104.0471	808.08	0.3800	329.15	808.08	2	639.15	57.402
29711	C16H32Br2	1,1-dibromohexadecane	62168-33-6	104.0471	808.08	0.3800	374.18	808.08	1,2	639.15	57.402
29712	C16H32Cl2	1,1-dichlorohexadecane	62017-19-0	99.8085	782.08	0.3800	314.42	782.08	1,2	617.15	55.246
29713	C16H32F2	1,1-difluorohexadecane	62127-05-3	86.6569	712.10	0.3800	318.88	712.10	1,2	553.15	49.014
29714	C16H32I2	1,1-diiodohexadecane	66271-75-8	123.1704	955.15	0.3800	370.70	955.15	2	751.32	68.486
29717	C16H32O	hexadecanal	629-80-1	94.0175	740.10	0.3800	309.15	740.10	1,2	584.15	52.025
29718	C16H32O	2-hexadecanone	18787-63-8	93.0491	736.51	0.3800	317.15	736.51	1,2	580.15	51.636
29719	C16H32O	3-hexadecanone	18787-64-9	89.1087	736.51	0.3800	316.15	736.51	2	569.98	50.647
29721	C16H32O2	hexadecanoic acid	57-10-3	121.9495	776.00	0.3800	335.66	776.00	1,2	624.15	65.610
29722	C16H32O2	2-hexyldecanoic acid	25354-97-6	89.3278	776.00	0.3800	486.63	776.00	2	586.63	52.266
29723	C16H32O2	pentadecyl formate	66271-76-9	110.3595	747.30	0.3800	286.83	747.30	2	623.00	55.819
29724	C16H32O2	tetradecyl acetate	638-59-5	112.0165	742.90	0.3800	287.15	742.90	2	570.00	64.371
29725	C16H32O2	tridecyl propanoate	66271-77-0	111.6004	744.30	0.3800	272.73	744.30	2	623.70	55.887
29726	C16H32O2	dodecyl butanoate	3724-61-6	111.7186	743.90	0.3800	259.15	743.90	2	623.70	55.887
29727	C16H32O2	octyl octanoate	2306-88-9	95.9492	721.00	0.3800	255.05	721.00	1,2	579.95	51.616
29728	C16H32O2	heptyl nonanoate	71605-85-1	98.9638	721.00	0.3800	257.65	721.00	2	586.63	52.266
29729	C16H32O2	ethyl myristate	124-06-1	90.9955	721.00	0.3800	285.45	721.00	1,2	568.15	50.469
29730	C16H32O2	methyl pentadecanoate	7132-64-1	51.8418	721.00	0.3800	291.65	721.00	1,2	426.65	36.884
29731	C16H32O2	n-butyl laurate	106-18-3	98.9638	721.00	0.3800	266.31	721.00	2	586.63	52.266
29732	C16H32O2	2-ethylhexyl-2-ethylhexanoate	7425-14-1	98.9638	721.00	0.3800	486.63	721.00	2	586.63	52.266
29738	C16H32S	thiacycloheptadecane	296-00-4	86.6971	844.72	0.3800	325.93	844.72	1,2	603.15	53.878
29739	C16H33Br	1-bromohexadecane	112-82-3	98.0854	773.66	0.3800	291.05	773.66	1,2	609.15	54.464
29740	C16H33Cl	1-chlorohexadecane	4860-03-1	96.2658	762.66	0.3800	291.05	762.66	1,2	599.75	53.546
29744	C16H33F	1-fluorohexadecane	408-38-8	89.7302	714.60	0.3800	291.15	714.60	1,2	562.15	49.886
29746	C16H33I	1-iodohexadecane	544-77-4	105.0958	783.25	0.3800	297.85	783.25	1,2	630.15	56.519

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
29750	C16H33NO2	1-nitrohexadecane	66271-50-9	102.3151	782.00	0.3800	413.19	782.00	1,2	623.15	55.834
29754	C16H34	hexadecane	544-76-3	96.6800	720.60	0.4220	291.32	720.60	1,2	560.01	51.310
29755	C16H34	2-methylpentadecane	1560-93-6	87.1109	713.05	0.3800	266.15	713.05	1,2	554.75	49.169
29756	C16H34	3-methylpentadecane	2882-96-4	87.1796	713.56	0.3800	250.85	713.56	1,2	555.15	49.207
29757	C16H34	2,2-dimethyltetradecane	59222-86-5	84.9520	708.68	0.3800	272.00	708.68	1,2	547.15	48.432
29758	C16H34	2,3-dimethyltetradecane	18435-23-9	86.7464	716.26	0.3800	239.58	716.26	1,2	555.15	49.207
29759	C16H34	2,4-dimethyltetradecane	61868-06-2	84.0152	695.62	0.3800	239.58	695.62	1,2	539.15	47.658
29760	C16H34	2,2,4,4,6,8,8-heptamethylnonane	4390-04-9	75.2847	711.29	0.3800	419.45	711.29	1,2	519.45	45.756
29766	C16H34O	1-hexadecanol	36653-82-4	136.9600	761.00	0.5740	322.35	761.00	1,2	585.15	59.073
29767	C16H34O	2-hexadecanol	14852-31-4	92.7705	754.20	0.3800	317.15	754.20	1,2	587.15	52.317
29768	C16H34O	3-hexadecanol	593-03-3	85.5865	757.60	0.3800	323.15	757.60	2	568.53	50.506
29769	C16H34O	2-methyl-1-pentadecanol	25354-98-7	85.5865	757.60	0.3800	285.65	757.60	2	568.53	50.506
29770	C16H34O	6-methyl-6-pentadecanol	108836-86-8	85.5865	757.60	0.3800	468.53	757.60	2	568.53	50.506
29771	C16H34O	dioctyl ether	629-82-3	105.0541	707.00	0.3930	265.55	707.00	1,2	559.65	56.722
29772	C16H34O	bis(2-ethylhexyl) ether	10143-60-9	83.3795	707.00	0.3800	442.15	707.00	1,2	542.15	47.948
29773	C16H34O	2-hexyl-1-decanol	2425-77-6	85.5865	757.60	0.3800	468.53	757.60	2	568.53	50.506
29776	C16H34O2	1,2-hexadecanediol	6920-24-7	108.6811	781.52	0.3800	347.15	781.52	2	637.15	57.206
29777	C16H34O2	1,3-hexadecanediol	34014-79-4	110.7326	795.01	0.3800	376.22	795.01	2	648.15	58.285
29778	C16H34O2	1,4-hexadecanediol	---	114.6573	820.77	0.3800	376.22	820.77	2	669.15	60.351
29780	C16H34O2	1,16-hexadecanediol	7735-42-4	112.3465	804.31	0.3800	364.75	804.31	2	651.48	59.772
29789	C16H34S	1-hexadecanethiol	2917-26-2	108.8992	774.68	0.3800	290.93	774.68	1,2	607.16	60.856
29790	C16H34S	2-hexadecanethiol	66271-53-2	95.5017	768.00	0.3800	288.15	768.00	1,2	600.15	53.585
29791	C16H34S	dioctyl sulfide	2690-08-6	109.8521	787.27	0.3800	288.16	787.27	2	597.00	64.039
29792	C16H34S	methyl pentadecyl sulfide	62155-10-6	109.8521	787.27	0.3800	288.16	787.27	2	597.00	64.039
29793	C16H34S	ethyl tetradecyl sulfide	66271-54-3	103.4112	791.68	0.3800	288.16	791.68	2	597.00	60.682
29794	C16H34S	propyl tridecyl sulfide	66271-55-4	109.8521	787.27	0.3800	288.16	787.27	2	597.00	64.039
29795	C16H34S	butyl dodecyl sulfide	16900-08-6	109.8521	787.27	0.3800	288.16	787.27	2	597.00	64.039
29797	C16H34S2	dioctyl disulfide	822-27-5	114.9670	784.46	0.3800	244.16	784.46	1,2	619.16	63.618
29798	C16H35N	hexadecylamine	143-27-1	97.7783	757.50	0.3800	319.92	757.50	1,2	601.15	53.683
29799	C16H35N	ethyltetradecylamine	66271-56-5	93.7219	732.80	0.3800	322.24	732.80	1,2	580.15	51.636
29800	C16H35N	dioctylamine	1120-48-5	91.7785	732.40	0.3800	287.77	732.40	1,2	575.15	51.149
29801	C16H35N	methylpentadecylamine	29664-53-7	93.4469	734.30	0.3800	322.24	734.30	1,2	580.15	51.636
29802	C16H35N	N-(1-methylheptyl)-2-octanamine	5412-92-0	84.6554	732.83	0.3800	456.15	732.83	1,2	556.15	49.304
29803	C16H35N	dimethyltetradecylamine	112-75-4	90.5990	739.40	0.3800	270.15	739.40	1,2	575.15	51.149
29804	C16H35N	diethyldodecylamine	4271-27-6	87.4198	700.59	0.3800	302.05	700.59	1,2	550.15	48.723
29805	C16H35N	bis(2-ethylhexyl)amine	106-20-7	91.2534	732.83	0.3800	474.01	732.83	2	574.01	51.038
30056	C17H18	1,1-diphenyl-1-pentene	1530-11-6	85.1518	797.63	0.3800	266.11	797.63	1,2	581.91	51.807
30117	C17H20	1,1-diphenylpentane	1726-12-1	86.1525	786.40	0.3800	261.13	786.40	1,2	581.04	51.723
30118	C17H20	1,3-diphenylpentane	838-45-9	84.9144	786.40	0.3800	477.15	786.40	1,2	577.15	51.344
30119	C17H20	1,5-diphenylpentane	1718-50-9	92.6300	786.40	0.3800	265.15	786.40	1,2	600.15	53.585
30177	C17H22	1-heptylnaphthalene	2876-52-0	92.6730	811.44	0.3800	265.15	811.44	1,2	610.15	54.562
30178	C17H22	2-heptylnaphthalene	2876-45-1	93.0050	814.10	0.3800	274.15	814.10	1,2	612.15	54.757
30241	C17H26	1-heptyl-[1,2,3,4-tetrahydronaphthalene]	66563-99-3	90.2512	788.41	0.3800	299.92	788.41	1,2	594.15	53.000
30242	C17H26	2-heptyl-[1,2,3,4-tetrahydronaphthalene]	26438-24-4	90.9156	793.72	0.3800	299.92	793.72	1,2	598.15	53.390
30264	C17H28	undecylbenzene	6742-54-7	105.9000	764.00	0.4360	268.00	764.00	1,2	586.40	56.056
30267	C17H28O	2,6-di-tert-pentyl-4-methylphenol	56103-67-4	81.2937	760.00	0.3800	456.15	760.00	1,2	556.15	49.304
30284	C17H32	1-heptadecyne	26186-00-5	96.5613	736.21	0.3800	295.16	736.21	1,2	572.16	54.580
30285	C17H32	2-heptadecyne	61847-96-9	91.6948	753.80	0.3800	386.95	753.80	1,2	584.15	52.025
30286	C17H32	3-heptadecyne	61886-63-3	89.8085	739.60	0.3800	386.95	739.60	1,2	573.15	50.955
30287	C17H32	1,1-dicyclohexylpentane	54833-30-6	87.0914	776.31	0.3800	288.52	776.31	1,2	580.15	51.636
30288	C17H32	1,3-dicyclohexyl-2-ethylpropane	54833-34-0	86.7595	776.31	0.3800	479.15	776.31	1,2	579.15	51.539
30289	C17H32	1,5-dicyclohexylpentane	54833-31-7	93.4044	776.31	0.3800	259.55	776.31	1,2	598.15	53.390
30290	C17H32	1-dodecylcyclopentene	62184-77-4	89.0108	739.92	0.3800	256.94	739.92	1,2	571.15	50.761
30292	C17H32O2	9-heptadecenoic acid	10136-52-4	85.2941	916.00	0.3800	285.65	916.00	2	620.00	55.525
30294	C17H33Br	cis-1-bromo-1-heptadecene	66563-89-1	98.6720	772.65	0.3800	335.57	772.65	1,2	610.15	54.562
30295	C17H33Br	trans-1-bromo-1-heptadecene	66563-90-4	98.6720	772.65	0.3800	335.57	772.65	1,2	610.15	54.562
30296	C17H33Br3	1,1,1-tribromoheptadecane	62127-73-5	112.0282	847.65	0.3800	462.67	847.65	1,2	676.15	61.041
30297	C17H33Cl	cis-1-chloro-1-heptadecene	66563-91-5	99.7425	782.44	0.3800	305.69	782.44	1,2	617.15	55.246
30298	C17H33Cl	trans-1-chloro-1-heptadecene	66563-92-6	99.7425	782.44	0.3800	305.69	782.44	1,2	617.15	55.246
30300	C17H33Cl3	1,1,1-trichloroheptadecane	62108-61-6	105.5964	808.70	0.3800	373.03	808.70	1,2	643.15	57.794
30301	C17H33F	cis-1-fluoro-1-heptadecene	66577-63-7	95.3055	750.10	0.3800	307.92	750.10	2	591.79	52.770
30302	C17H33F	trans-1-fluoro-1-heptadecene	66577-51-3	95.3055	750.10	0.3800	307.92	750.10	2	591.79	52.770
30303	C17H33F3	1,1,1-trifluoroheptadecane	62126-84-5	89.6393	710.60	0.3800	379.72	710.60	1,2	560.15	49.692
30304	C17H33I	cis-1-iodo-1-heptadecene	66577-52-4	102.1647	802.73	0.3800	333.83	802.73	1,2	632.15	56.715
30305	C17H33I	trans-1-iodo-1-heptadecene	66577-53-5	102.1647	802.73	0.3800	333.83	802.73	1,2	632.15	56.715
30306	C17H33I3	1,1,1-triiocloheptadecane	---	144.9277	1091.73	0.3800	457.45	1091.73	2	864.55	79.816
30307	C17H33N	heptadecanenitrile	5399-02-0	102.4491	779.15	0.3800	306.45	779.15	1,2	622.15	55.736
30310	C17H34	dodecylcyclopentane	5634-30-0	92.4571	755.17	0.3800	268.16	755.17	1,2	584.06	52.593
30311	C17H34	undecylcyclohexane	54105-66-7	90.9269	761.74	0.3800	278.96	761.74	1,2	586.26	52.049
30312	C17H34	cycloheptadecane	295-97-6	84.6091	815.06	0.3800	338.35	815.06	1,2	586.15	52.220
30313	C17H34	1-heptadecene	6765-39-5	96.9600	736.00	0.3930	284.40	736.00	1,2	573.48	53.555
30314	C17H34	2-methyl-1-hexadecene	61868-19-7	90.9589	732.59	0.3800	274.65	732.59	1,2	573.15	50.955
30315	C17H34Br2	1,1-dibromoheptadecane	62168-34-7	107.4887	818.59	0.3800	385.45	818.59	1,2	652.15	58.679
30316	C17H34Br2	1,17-dibromoheptadecane	81726-82-1	107.4887	818.59	0.3800	311.15	818.59	2	652.15	58.679
30317	C17H34Cl2	1,1-dichloroheptadecane	62046-36-0	103.2215	792.59	0.3800	325.69	792.59	1,2	630.15	56.519
30318	C17H34F2	1,1-difluoroheptadecane	62127-06-4	89.7524	723.60	0.3800	330.15	723.60	1,2	566.15	50.275
30319	C17H34I2	1,1-diiodoheptadecane	66577-55-7	128.7054	976.52	0.3800	381.97	976.52	2	774.20	70.764
30322	C17H34O	9-heptadecanone	540-08-9	73.4017	745.97	0.3800	326.15	745.97	1,2	524.65	46.258
30323	C17H34O	2-heptadecanone	2922-51-2	96.2139	745.97	0.3800	321.15	745.97	1,2	592.15	52.805
30324	C17H34O	heptadecanal	629-90-3	97.5330	752.20	0.3800	310.15	752.20	1,2	598.15	53.390

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
30325	C17H34O2	heptadecanoic acid	506-12-7	106.3410	789.15	0.3800	334.35	789.15	1,2	635.75	57.068
30326	C17H34O2	hexadecyl formate	4113-08-0	120.3439	757.10	0.3800	339.55	757.10	2	645.88	58.062
30327	C17H34O2	pentadecyl acetate	629-58-3	122.2708	753.00	0.3800	291.65	753.00	2	585.00	69.145
30328	C17H34O2	tetradecyl propanoate	6221-95-0	121.6042	754.80	0.3800	323.18	754.80	2	646.58	58.131
30329	C17H34O2	tridecyl butanoate	56164-20-6	121.7142	754.50	0.3800	323.18	754.50	2	646.58	58.131
30330	C17H34O2	isopropyl tetradecanoate	110-27-0	135.4141	733.00	0.3800	551.92	733.00	2	651.92	58.656
30331	C17H34O2	propyl tetradecanoate	14303-70-9	135.4141	733.00	0.3800	551.92	733.00	2	651.92	58.656
30332	C17H34O2	methyl palmitate	112-39-0	183.6285	733.00	0.3800	303.15	733.00	1,2	690.15	62.423
30336	C17H34S	thiacyclooctadecane	296-21-9	89.1799	852.59	0.3800	333.68	852.59	1,2	614.15	54.953
30337	C17H35Br	1-bromoheptadecane	3508-00-7	101.4972	784.07	0.3800	302.75	784.07	1,2	622.15	55.736
30338	C17H35Cl	1-chloroheptadecane	62016-75-5	99.7355	773.57	0.3800	299.35	773.57	1,2	613.15	54.855
30339	C17H35F	1-fluoroheptadecane	1545-17-1	93.3035	726.20	0.3800	302.15	726.20	1,2	576.15	51.247
30340	C17H35I	1-iodoheptadecane	26825-83-2	108.4623	796.86	0.3800	306.85	796.86	1,2	644.15	57.893
30343	C17H35NO2	1-nitroheptadecane	39220-66-1	105.4600	792.11	0.3800	424.46	792.11	1,2	635.15	57.009
30346	C17H36	heptadecane	629-78-7	102.0000	733.37	0.4330	295.13	733.37	1,2	575.30	52.483
30347	C17H36	2-methylhexadecane	1560-92-5	90.8729	726.23	0.3800	277.15	726.23	1,2	570.15	50.663
30348	C17H36	3-methylhexadecane	6418-43-5	91.0472	727.50	0.3800	258.15	727.50	1,2	571.15	50.761
30349	C17H36	2,2-dimethylpentadecane	61869-05-4	88.8158	722.25	0.3800	283.27	722.25	1,2	563.15	49.984
30350	C17H36	2,3-dimethylpentadecane	2882-97-5	90.6236	729.97	0.3800	250.85	729.97	1,2	571.15	50.761
30351	C17H36	2,4-dimethylpentadecane	61868-07-3	87.6777	708.24	0.3800	250.85	708.24	1,2	554.15	49.111
30352	C17H36O	1-heptadecanol	1454-85-9	146.5776	770.00	0.5950	327.05	770.00	1,2	597.15	60.259
30353	C17H36O	2-heptadecanol	16813-18-6	96.5188	764.40	0.3800	317.65	764.40	1,2	601.15	53.683
30354	C17H36O	9-heptadecanol	624-08-8	95.2469	767.20	0.3800	334.15	767.20	2	599.15	53.487
30355	C17H36O	heptadecanol (mixed primary isomers)	52783-44-5	95.2469	767.20	0.3800	327.15	767.20	2	599.15	53.487
30356	C17H36O2	1,2-heptadecanediol	34719-63-6	111.5512	797.59	0.3800	387.49	797.59	2	651.15	58.580
30357	C17H36O2	1,3-heptadecanediol	---	113.6112	811.07	0.3800	387.49	811.07	2	662.15	59.662
30358	C17H36O2	1,4-heptadecanediol	---	117.5521	836.79	0.3800	387.49	836.79	2	683.15	61.732
30359	C17H36O2	1,17-heptadecanediol	66577-59-1	115.1693	820.62	0.3800	402.49	820.62	2	670.15	60.450
30362	C17H36S	1-heptadecanethiol	53193-22-9	112.8154	786.01	0.3800	300.37	786.01	1,2	621.16	62.316
30363	C17H36S	2-heptadecanethiol	66577-60-4	99.5109	777.00	0.3800	293.15	777.00	1,2	614.15	54.953
30364	C17H36S	methyl hexadecyl sulfide	27563-68-4	113.6564	798.63	0.3800	294.16	798.63	2	611.00	65.548
30365	C17H36S	ethyl pentadecyl sulfide	64919-20-6	113.6564	798.63	0.3800	294.16	798.63	2	611.00	65.548
30366	C17H36S	propyl tetradecyl sulfide	66577-61-5	113.6564	798.63	0.3800	294.16	798.63	2	611.00	65.548
30367	C17H36S	butyl tridecyl sulfide	66577-62-6	113.6564	798.63	0.3800	294.16	798.63	2	611.00	65.548
30369	C17H37N	heptadecylamine	4200-95-7	102.1427	767.80	0.3800	317.15	767.80	1,2	616.15	55.148
30370	C17H37N	methylhexadecylamine	13417-08-8	97.2402	745.00	0.3800	309.15	745.00	1,2	594.15	53.000
30371	C17H37N	ethylpentadecylamine	56392-13-3	97.8246	744.20	0.3800	333.51	744.20	1,2	595.15	53.097
30372	C17H37N	dimethylpentadecylamine	17678-60-3	94.5744	750.50	0.3800	313.32	750.50	1,2	590.15	52.610
30373	C17H37N	diethyltridecylamine	66577-48-8	90.8877	712.65	0.3800	313.32	712.65	1,2	564.15	50.081
30374	C17H37N	methyldioctylamine	4455-26-9	96.5004	744.03	0.3800	243.05	744.03	2	591.95	52.785
30406	C18H12	chrysene	218-01-9	113.2339	979.00	0.3800	531.15	979.00	1,2	714.15	68.900
30456.1	C18H13N3O4	4,4'-dinitrotriphenylamine	1100-1-3	150.7800	946.00	0.3792	479.65	946.00	1,2	743.00	84.115
30457	C18H14	m-terphenyl	92-06-8	101.2669	924.85	0.3770	360.00	924.85	1,2	650.00	64.091
30458	C18H14	o-terphenyl	84-15-1	93.1361	890.95	0.4030	329.35	890.95	1,2	609.00	58.580
30459	C18H14	p-terphenyl	92-94-4	102.9423	925.95	0.4010	485.00	925.95	1,2	649.15	63.431
30567	C18H15P	triphenylphosphine	603-35-0	106.4821	1008.00	0.4340	354.40	1008.00	1,2	650.15	67.933
30588	C18H16N2	N,N'-diphenyl-p-phenylenediamine	74-31-7	128.5707	906.00	0.3880	409.00	906.00	1,2	688.00	73.977
30714	C18H20	1,1-diphenyl-1-hexene	1530-19-4	88.6028	803.60	0.3800	261.01	803.60	1,2	594.95	53.078
30715	C18H20	2,4-diphenyl-4-methyl-1-pentene	6362-80-7	86.4835	803.60	0.3800	488.30	803.60	2	588.30	52.430
30778	C18H22	1,1-diphenylhexane	1530-04-7	89.4828	794.40	0.3800	261.61	794.40	1,2	594.18	53.003
30779	C18H22	2,3-dimethyl-2,3-diphenylbutane	1889-67-4	87.8200	805.00	0.3840	392.15	805.00	1,2	589.00	52.991
30806	C18H22O2	dicumyl peroxide	80-43-3	94.1565	884.00	0.4300	311.15	884.00	1,2	669.00	51.265
30836	C18H24	1-octylnaphthalene	2876-51-9	96.5530	821.26	0.3800	271.15	821.26	1,2	625.15	56.029
30837	C18H24	2-octylnaphthalene	2876-44-0	97.0594	825.21	0.3800	285.15	825.21	1,2	628.15	56.323
30838	C18H24	2,6-bis(1,1-dimethylethyl)-naphthalene	3905-64-4	88.9144	823.23	0.3800	419.05	823.23	1,2	603.05	53.868
30913	C18H28	1-octyl-[1,2,3,4-tetrahydronaphthalene]	29138-91-8	93.9186	797.31	0.3800	311.19	797.31	1,2	608.15	54.366
30914	C18H28	2-octyl-[1,2,3,4-tetrahydronaphthalene]	66553-10-4	94.5940	802.56	0.3800	311.19	802.56	1,2	612.15	54.757
30947	C18H30	dodecylbenzene	123-01-3	107.8916	774.26	0.4290	275.93	774.26	1,2	600.76	56.796
30948	C18H30	hexaethylbenzene	604-88-6	97.0393	734.78	0.3800	401.16	734.78	1,2	571.16	54.836
30949	C18H30	1,2,4,5-tetraisopropylbenzene	635-11-0	74.7401	754.52	0.3800	391.55	754.52	1,2	532.15	46.982
30952	C18H30	1,3,5-tri-tert-butylbenzene	1460-02-2	52.0388	754.52	0.3800	344.65	754.52	1,2	521.25	33.312
30953	C18H30	1,2,4-tri-tert-butylbenzene	1459-11-6	86.5956	754.52	0.3800	321.15	754.52	2	570.29	50.677
30960	C18H30O	2,4,6-tri-tert-butylphenol	732-26-3	78.7420	770.00	0.3800	404.15	770.00	1,2	551.15	48.820
30961	C18H30O	4-sec-butyl-2,6-di-tert-butylphenol	17540-75-9	82.0549	770.00	0.3800	298.15	770.00	2	562.15	49.886
30962	C18H30O	4-dodecylphenol	104-43-8	85.5622	770.00	0.3800	473.15	770.00	1,2	573.15	50.955
30963	C18H30O	dodecylphenols	27193-86-8	82.0549	770.00	0.3800	462.15	770.00	2	562.15	49.886
30991	C18H32O2	linoleic acid	60-33-3	133.9368	775.00	0.3990	268.15	775.00	1,2	628.00	68.997
31013	C18H34	9-octadecyne	35365-59-4	95.1164	754.15	0.3800	274.65	754.15	2	593.12	52.899
31014	C18H34	1-octadecyne	629-89-0	100.4826	747.33	0.3800	300.16	747.33	1,2	586.16	56.095
31015	C18H34	2-octadecyne	61847-97-0	95.2993	764.58	0.3800	398.22	764.58	1,2	598.15	53.390
31016	C18H34	3-octadecyne	61886-64-4	93.3850	750.52	0.3800	275.55	750.52	1,2	587.15	52.317
31017	C18H34	1,1-dicyclohexylhexane	55030-20-1	90.5513	783.63	0.3800	282.05	783.63	1,2	593.15	52.902
31018	C18H34	1-tridecylcyclopentene	62184-78-5	92.4191	749.34	0.3800	268.21	749.34	1,2	584.15	52.025
31030	C18H34O2	oleic acid	112-80-1	109.0244	936.00	0.3940	286.53	781.00	1,2	633.00	69.908
31031	C18H34O2	elaidic acid	112-79-8	86.4159	936.00	0.3800	318.15	936.00	2	630.00	56.505
31032	C18H34O2	trans-2-octadecenoic acid	2825-79-8	86.4159	936.00	0.3800	331.65	936.00	2	630.00	56.505
31033	C18H34O2	trans-11-octadecenoic acid	693-72-1	86.4159	936.00	0.3800	317.15	936.00	2	630.00	56.505
31034	C18H34O2	petroselinic acid	593-39-5	84.4045	966.00	0.3800	302.30	966.00	2	630.00	56.505
31041	C18H34O4	dibutyl sebacate	109-43-3	121.0397	768.00	0.3610	263.95	768.00	1,2	622.15	66.448
31042	C18H34O4	dihexyl adipate	110-33-8	129.4070	767.00	0.4140	259.35	767.00	1,2	621.15	65.089

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
31054	C18H35Br	cis-1-bromo-1-octadecene	66292-44-2	102.0636	783.30	0.3800	346.84	783.30	1,2	623.15	55.834
31055	C18H35Br	trans-1-bromo-1-octadecene	66292-45-3	102.0636	783.30	0.3800	346.84	783.30	1,2	623.15	55.834
31057	C18H35Br3	1,1,1-tribromooctadecane	62127-74-6	115.0806	856.21	0.3800	473.94	856.21	1,2	687.15	62.126
31058	C18H35Cl	cis-1-chloro-1-octadecene	66292-46-4	103.3381	794.17	0.3800	316.96	794.17	1,2	631.15	56.617
31059	C18H35Cl	trans-1-chloro-1-octadecene	66292-47-5	103.3381	794.17	0.3800	316.96	794.17	1,2	631.15	56.617
31061	C18H35Cl3	1,1,1-trichlorooctadecane	62108-62-7	108.9882	819.70	0.3800	384.30	819.70	1,2	656.15	59.072
31062	C18H35F	cis-1-fluoro-1-octadecene	66292-48-6	100.4261	773.26	0.3800	319.19	773.26	2	614.67	55.004
31063	C18H35F	trans-1-fluoro-1-octadecene	66292-49-7	100.4261	773.26	0.3800	319.19	773.26	2	614.67	55.004
31064	C18H35F3	1,1,1-trifluorooctadecane	1511-82-6	91.1652	722.30	0.3800	390.99	722.30	1,2	569.15	50.566
31065	C18H35I	cis-1-iodo-1-octadecene	66292-50-0	105.6277	812.93	0.3800	345.10	812.93	1,2	645.15	57.991
31066	C18H35I	trans-1-iodo-1-octadecene	66292-51-1	105.6277	812.93	0.3800	345.10	812.93	1,2	645.15	57.991
31067	C18H35I3	1,1,1-triiodooctadecane	---	150.6691	1112.75	0.3800	468.72	1112.75	2	887.43	82.121
31069	C18H35N	octadecanenitrile	638-65-3	105.7463	790.72	0.3800	314.65	790.72	1,2	635.15	57.009
31071	C18H36	1-octadecene	112-88-9	107.9000	748.00	0.4300	290.76	748.00	1,2	587.97	55.597
31072	C18H36	9-octadecene	5557-31-3	97.1562	746.71	0.3800	242.65	746.71	2	594.74	53.057
31073	C18H36	2-methyl-1-heptadecene	42764-74-9	94.6762	745.42	0.3800	281.65	745.42	1,2	588.15	52.415
31074	C18H36	tridecylcyclopentane	6006-34-4	96.7037	766.47	0.3800	278.16	766.47	1,2	598.56	54.308
31075	C18H36	dodecylcyclohexane	1795-17-1	94.7982	772.83	0.3800	285.66	772.83	1,2	600.86	53.555
31076	C18H36	cyclooctadecane	296-18-4	87.2354	824.69	0.3800	345.15	824.69	1,2	598.15	53.390
31079	C18H36Br2	1,1-dibromooctadecane	62168-35-8	110.6948	828.45	0.3800	396.72	828.45	1,2	664.15	59.859
31080	C18H36Cl2	1,1-dichlorooctadecane	62017-20-3	106.5899	803.67	0.3800	336.96	803.67	1,2	643.15	57.794
31083	C18H36F2	1,1-difluorooctadecane	62127-07-5	93.0240	734.40	0.3800	341.42	734.40	1,2	579.15	51.539
31084	C18H36I2	1,1-diiodooctadecane	66292-27-1	134.2249	998.46	0.3800	393.24	998.46	2	797.08	73.049
31090	C18H36O	octadecanal	638-66-4	100.6525	762.31	0.3800	316.15	762.31	1,2	610.15	54.562
31091	C18H36O	2-octadecanone	7373-13-9	99.6992	758.47	0.3800	325.15	758.47	1,2	606.15	54.171
31092	C18H36O	3-octadecanone	18261-92-2	100.2734	758.47	0.3800	324.15	758.47	2	607.48	54.301
31094	C18H36O	cis-9-octadecen-1-ol	143-28-2	100.9880	755.00	0.3800	279.65	755.00	2	607.48	54.301
31095	C18H36O	trans-9-octadecen-1-ol	506-42-3	100.4018	755.00	0.3800	309.65	755.00	1,2	606.15	54.171
31097	C18H36O2	octadecanoic acid	57-11-4	131.7121	799.00	0.4170	342.75	799.00	1,2	648.35	65.687
31098	C18H36O2	2-octyldecanoic acid	619-39-6	118.1936	799.00	0.3800	311.65	799.00	2	665.10	59.952
31099	C18H36O2	heptadecyl formate	66292-28-2	132.0055	766.30	0.3800	350.82	766.30	2	668.76	60.313
31100	C18H36O2	hexadecyl acetate	629-70-9	134.2959	762.50	0.3800	297.35	762.50	2	600.00	74.634
31101	C18H36O2	pentadecyl propanoate	66292-29-3	133.3476	764.50	0.3800	334.45	764.50	2	669.46	60.382
31102	C18H36O2	tetradecyl butanoate	6221-98-3	133.4880	764.20	0.3800	334.45	764.20	2	669.46	60.382
31103	C18H36O2	ethyl palmitate	628-97-7	139.4510	746.00	0.3800	297.15	746.00	2	665.10	59.952
31104	C18H36O2	methyl heptadecanoate	1731-92-6	139.4510	746.00	0.3800	303.15	746.00	2	665.10	59.952
31105	C18H36O2	n-butyl myristate	110-36-1	139.4510	746.00	0.3800	279.95	746.00	2	665.10	59.952
31113	C18H36S	thiacyclononadecane	296-47-9	91.5334	859.18	0.3800	341.43	859.18	1,2	624.15	55.931
31115	C18H37Br	1-bromooctadecane	112-89-0	104.8704	795.03	0.3800	301.35	795.03	1,2	635.15	57.009
31116	C18H37Cl	1-chlorooctadecane	3386-33-2	102.9205	783.25	0.3800	301.75	783.25	1,2	625.15	56.029
31118	C18H37F	1-fluorooctadecane	1649-73-6	96.6669	737.10	0.3800	302.15	737.10	1,2	589.15	52.512
31119	C18H37I	1-iodooctadecane	629-93-6	111.3632	808.59	0.3800	307.15	808.59	1,2	656.15	59.072
31124	C18H37NO2	1-nitrooctadecane	66292-30-6	108.3495	801.56	0.3800	435.73	801.56	1,2	646.15	58.089
31131	C18H38	octadecane	593-45-3	106.9500	745.26	0.4510	301.33	745.26	1,2	589.86	52.737
31132	C18H38	9-methylheptadecane	18869-72-2	93.7869	737.16	0.3800	482.27	737.16	2	582.27	51.842
31133	C18H38	2-methylheptadecane	1560-89-0	94.5662	739.33	0.3800	279.15	739.33	1,2	585.15	52.123
31134	C18H38	3-methylheptadecane	6418-44-6	94.7429	740.59	0.3800	266.95	740.59	1,2	586.15	52.220
31135	C18H38	2,2-dimethylhexadecane	19486-08-9	92.5219	734.97	0.3800	294.54	734.97	1,2	578.15	51.441
31136	C18H38	2,3-dimethylhexadecane	61868-02-8	94.3356	742.82	0.3800	262.12	742.82	1,2	586.15	52.220
31137	C18H38	2,4-dimethylhexadecane	61868-08-4	91.1725	720.01	0.3800	262.12	720.01	1,2	568.15	50.469
31140	C18H38O	1-octadecanol	112-92-5	147.5000	777.00	0.5660	331.05	777.00	1,2	608.15	62.170
31141	C18H38O	2-octadecanol	593-32-8	100.0882	773.90	0.3800	325.15	773.90	1,2	614.15	54.953
31142	C18H38O	3-octadecanol, (±)	111897-18-8	95.9171	775.45	0.3800	324.15	775.45	2	604.43	54.003
31143	C18H38O	dinonyl ether	2456-27-1	97.6885	736.00	0.3800	314.35	736.00	1,2	591.00	52.693
31144	C18H38O2	1,2-octadecanediol	20294-76-2	114.2706	814.33	0.3800	354.15	814.33	2	665.15	59.957
31145	C18H38O2	1,3-octadecanediol	---	116.3361	827.80	0.3800	398.76	827.80	2	676.15	61.041
31146	C18H38O2	1,4-octadecanediol	---	120.2872	853.51	0.3800	398.76	853.51	2	697.15	63.114
31147	C18H38O2	1,18-octadecanediol	3155-43-9	117.8321	837.63	0.3800	364.15	837.63	2	684.15	61.830
31149	C18H38S	1-octadecanethiol	2885-00-9	115.9539	795.36	0.3800	300.93	795.36	1,2	633.16	63.371
31150	C18H38S	2-octadecanethiol	62155-06-0	103.0365	787.00	0.3800	299.15	787.00	1,2	627.15	56.225
31151	C18H38S	2-thianonadecane	62155-11-7	110.9651	790.00	0.3800	298.15	790.00	1,2	646.15	58.089
31152	C18H38S	dinonyl sulfide	929-98-6	117.0061	810.53	0.3800	298.16	810.53	2	625.00	66.815
31153	C18H38S	methyl heptadecyl sulfide	---	117.0061	810.53	0.3800	298.16	810.53	2	625.00	66.815
31154	C18H38S	ethyl hexadecyl sulfide	66292-31-7	117.0061	810.53	0.3800	298.16	810.53	2	625.00	66.815
31155	C18H38S	propyl pentadecyl sulfide	66292-32-8	117.0061	810.53	0.3800	298.16	810.53	2	625.00	66.815
31156	C18H38S	butyl tetradecyl sulfide	66292-33-9	117.0061	810.53	0.3800	298.16	810.53	2	625.00	66.815
31157	C18H38S2	dinonyl disulfide	4485-77-2	120.7852	802.30	0.3800	252.16	802.30	1,2	642.16	65.475
31162	C18H39N	octadecylamine	124-30-1	106.3604	777.40	0.3800	326.23	777.40	1,2	630.15	56.519
31163	C18H39N	methylheptadecylamine	66292-34-0	100.8200	755.10	0.3800	344.78	755.10	1,2	607.15	54.269
31164	C18H39N	ethylhexadecylamine	5877-76-9	101.3255	754.80	0.3800	344.78	754.80	1,2	608.15	54.366
31165	C18H39N	dinonylamine	2044-21-5	99.5293	761.50	0.3800	298.15	761.50	1,2	607.15	54.269
31166	C18H39N	dimethylhexadecylamine	112-69-6	97.9687	760.90	0.3800	285.15	760.90	1,2	603.15	53.878
31167	C18H39N	diethyltetradecylamine	7307-58-6	94.1574	723.91	0.3800	324.59	723.91	1,2	577.15	51.344
31168	C18H39N	trihexylamine	102-86-3	87.0435	673.74	0.3800	324.59	673.74	1,2	537.15	47.465
31477	C19H22	1,1-diphenyl-1-heptene	1530-20-7	92.9599	817.04	0.3800	255.91	817.04	1,2	613.15	54.855
31535	C19H24	1,1-diphenylheptane	1530-05-8	92.8113	802.70	0.3800	286.15	802.70	1,2	607.15	54.269
31568	C19H26	1-nonylnaphthalene	26438-26-6	100.7807	849.00	0.3910	284.15	849.00	1,2	639.00	58.366
31569	C19H26	2-nonylnaphthalene	61886-67-7	100.8136	834.22	0.3800	284.15	834.22	1,2	642.15	57.696
31621	C19H30	1-nonyl-[1,2,3,4-tetrahydronaphthalene]	33425-49-9	97.4456	805.45	0.3800	322.46	805.45	1,2	621.15	55.638
31622	C19H30	2-nonyl-[1,2,3,4-tetrahydronaphthalene]	26437-45-6	97.9601	809.34	0.3800	322.46	809.34	1,2	624.15	55.931

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
31646	C19H32	tridecylbenzene	123-02-4	111.3000	783.00	0.4310	283.15	783.00	1,2	614.43	57.415
31647	C19H32	(1-hexylheptyl)benzene	2400-01-3	98.5506	783.00	0.3800	244.95	783.00	2	614.43	54.980
31670	C19H36	1-nonadecyne	26186-01-6	104.1273	758.94	0.3800	306.16	758.94	1,2	600.16	57.463
31671	C19H36	2-nonadecyne	61847-98-1	98.9013	775.87	0.3800	409.49	775.87	1,2	612.15	54.757
31672	C19H36	3-nonadecyne	61886-65-5	96.7841	760.66	0.3800	409.49	760.66	1,2	600.15	53.585
31673	C19H36	1,1-dicyclohexylheptane	2090-15-5	93.8759	790.20	0.3800	318.15	790.20	1,2	605.15	54.073
31674	C19H36	1-tetradecylcyclopentene	62184-79-6	95.6521	757.98	0.3800	279.48	757.98	1,2	596.15	53.195
31675	C19H36O2	methyl oleate	112-62-9	122.0000	764.00	0.3950	293.05	764.00	1,2	617.00	63.625
31678	C19H37Br	cis-1-bromo-1-nonadecene	66359-51-1	105.4102	794.49	0.3800	358.11	794.49	1,2	636.15	57.107
31679	C19H37Br	trans-1-bromo-1-nonadecene	66359-52-2	105.4102	794.49	0.3800	358.11	794.49	1,2	636.15	57.107
31680	C19H37Br3	1,1,1-tribromononadecane	62127-75-7	117.8594	864.19	0.3800	485.21	864.19	1,2	697.15	63.114
31681	C19H37Cl	cis-1-chloro-1-nonadecene	66359-53-3	106.7133	805.20	0.3800	328.23	805.20	1,2	644.15	57.893
31682	C19H37Cl	trans-1-chloro-1-nonadecene	66359-54-4	106.7133	805.20	0.3800	328.23	805.20	1,2	644.15	57.893
31683	C19H37Cl3	1,1,1-trichlorononadecane	62108-63-8	112.1293	830.05	0.3800	395.57	830.05	1,2	668.15	60.253
31684	C19H37F	cis-1-fluoro-1-nonadecene	66359-55-5	105.5504	796.80	0.3800	330.46	796.80	2	637.55	57.245
31685	C19H37F	trans-1-fluoro-1-nonadecene	66359-56-6	105.5504	796.80	0.3800	330.46	796.80	2	637.55	57.245
31686	C19H37F3	1,1,1-trifluorononadecane	62126-85-6	95.7317	733.20	0.3800	402.26	733.20	1,2	585.15	52.123
31687	C19H37I	cis-1-iodo-1-nonadecene	66359-57-7	108.8671	822.45	0.3800	356.37	822.45	1,2	657.15	59.170
31688	C19H37I	trans-1-iodo-1-nonadecene	66359-58-8	108.8671	822.45	0.3800	356.37	822.45	1,2	657.15	59.170
31689	C19H37I3	1,1,1-triiododononadecane	---	156.3538	1134.48	0.3800	479.99	1134.48	2	910.31	84.431
31690	C19H37N	nonadecanenitrile	28623-46-3	108.7859	801.62	0.3800	315.85	801.62	1,2	647.15	58.187
31695	C19H38	tetradecylcyclopentane	1795-22-8	101.8457	772.00	0.3800	282.00	772.00	1,2	612.16	55.982
31696	C19H38	tridecylcyclohexane	6006-33-3	98.7555	783.38	0.3800	291.66	783.38	1,2	614.66	55.103
31697	C19H38	cyclononadecane	296-44-6	89.8951	834.39	0.3800	269.25	834.39	1,2	610.15	54.562
31698	C19H38	1-nonadecene	18435-45-5	114.1718	760.00	0.4360	296.55	760.00	1,2	602.17	57.535
31699	C19H38	2-methyl-1-octadecene	61868-20-0	98.2032	757.46	0.3800	287.15	757.46	1,2	602.15	53.780
31700	C19H38Br2	1,1-dibromononadecane	62168-36-9	113.6396	837.69	0.3800	407.99	837.69	1,2	675.15	60.943
31701	C19H38Cl2	1,1-dichlorononadecane	62017-21-4	109.7111	814.08	0.3800	348.23	814.08	1,2	655.15	58.973
31702	C19H38F2	1,1-difluorononadecane	62127-08-6	96.0769	744.50	0.3800	352.69	744.50	1,2	591.15	52.707
31703	C19H38I2	1,1-diiodononadecane	66359-60-2	139.7007	1021.00	0.3800	404.51	1021.00	2	819.96	75.339
31704	C19H38O	nonadecanal	17352-32-8	103.8919	774.21	0.3800	317.15	774.21	1,2	623.15	55.834
31705	C19H38O	2-nonadecanone	629-66-3	102.4084	766.51	0.3800	329.15	766.51	1,2	616.15	55.148
31706	C19H38O	10-nonadecanone	504-57-4	103.9706	766.51	0.3800	338.65	766.51	2	619.65	55.491
31708	C19H38O2	nonadecanoic acid	646-30-0	132.5754	810.00	0.4160	341.23	810.00	1,2	659.15	65.888
31709	C19H38O2	14-methyloctadecanoic acid	94434-64-7	129.3414	810.00	0.3800	310.65	810.00	2	690.66	62.473
31710	C19H38O2	17-methyloctadecanoic acid	2724-59-6	129.3414	810.00	0.3800	340.65	810.00	2	690.66	62.473
31711	C19H38O2	9-methyloctadecanoic acid	86073-38-3	129.3414	810.00	0.3800	313.15	810.00	2	690.66	62.473
31712	C19H38O2	octadecyl formate	5451-75-2	146.0535	774.90	0.3800	362.09	774.90	2	691.64	62.570
31713	C19H38O2	heptadecyl acetate	822-20-8	148.9273	771.30	0.3800	303.39	771.30	2	615.00	81.196
31714	C19H38O2	hexadecyl propanoate	6221-96-1	147.5398	773.50	0.3800	345.72	773.50	2	692.34	62.639
31715	C19H38O2	pentadecyl butanoate	125164-51-4	147.6637	773.30	0.3800	345.72	773.30	2	692.34	62.639
31716	C19H38O2	ethyl heptadecanoate	14010-23-2	155.9579	759.00	0.3800	301.15	759.00	2	690.66	62.473
31717	C19H38O2	isopropyl palmitate	142-91-6	155.9579	759.00	0.3800	286.65	759.00	2	690.66	62.473
31718	C19H38O2	propyl palmitate	2239-78-3	155.9579	759.00	0.3800	293.55	759.00	2	690.66	62.473
31719	C19H38O2	methyl stearate	112-61-8	193.7433	759.00	0.3800	312.25	759.00	1,2	716.15	64.994
31726	C19H38S	thiacycloeicosane	66359-61-3	93.9135	865.90	0.3800	349.18	865.90	1,2	634.15	56.911
31727	C19H39Br	1-bromononadecane	4434-66-6	108.0034	805.31	0.3800	311.65	805.31	1,2	647.15	58.187
31728	C19H39Cl	1-chlorononadecane	62016-76-6	105.8660	792.26	0.3800	308.85	792.26	1,2	636.15	57.107
31729	C19H39F	1-fluorononadecane	1480-63-3	100.2446	747.30	0.3800	312.15	747.30	1,2	602.15	53.780
31730	C19H39I	1-iodononadecane	62127-51-9	114.1446	820.94	0.3800	315.15	820.94	1,2	668.15	60.253
31732	C19H39NO2	1-nitrononadecane	66359-36-2	110.9593	810.40	0.3800	447.00	810.40	1,2	656.15	59.072
31733	C19H40	7-hexyltridecane	7225-66-3	95.6698	748.87	0.3800	244.85	748.87	2	592.14	52.803
31734	C19H40	2,6,10,14-tetramethylpentadecane	1921-70-6	86.9741	748.87	0.3800	469.15	748.87	1,2	569.15	50.566
31735	C19H40	nonadecane	629-92-5	114.7433	755.93	0.4480	305.33	755.93	1,2	603.05	56.073
31736	C19H40	2-methyloctadecane	1560-88-9	98.0625	751.64	0.3800	288.15	751.64	1,2	599.15	53.487
31737	C19H40	3-methyloctadecane	6561-44-0	98.2414	752.90	0.3800	273.65	752.90	1,2	600.15	53.585
31738	C19H40	2,2-dimethylheptadecane	53594-82-4	96.0460	746.87	0.3800	305.81	746.87	1,2	592.15	52.805
31739	C19H40	2,3-dimethylheptadecane	61868-03-9	97.8575	754.89	0.3800	273.39	754.89	1,2	600.15	53.585
31740	C19H40	2,4-dimethylheptadecane	61868-09-5	94.4756	730.99	0.3800	273.39	730.99	1,2	581.15	51.733
31742	C19H40O	1-nonadecanol	1454-84-8	133.6213	775.30	0.3800	334.87	775.30	1,2	631.00	70.534
31743	C19H40O	2-nonadecanol	26533-36-8	103.8729	782.80	0.3800	325.15	782.80	1,2	627.15	56.225
31744	C19H40O2	1,2-nonadecanediol	39516-65-9	116.8262	831.78	0.3800	410.03	831.78	2	679.15	61.337
31745	C19H40O2	1,3-nonadecanediol	66359-38-4	118.8940	845.25	0.3800	348.15	845.25	2	690.15	62.423
31746	C19H40O2	1,4-nonadecanediol	---	122.8493	870.97	0.3800	410.03	870.97	2	711.15	64.499
31747	C19H40O2	1,19-nonanecanediol	---	120.3227	855.38	0.3800	425.03	855.38	2	698.15	63.213
31750	C19H40S	1-nonadecanethiol	62155-07-1	118.5166	805.29	0.3800	307.04	805.29	1,2	645.16	64.153
31751	C19H40S	2-nonadecanethiol	---	106.6195	795.00	0.3800	304.15	795.00	1,2	639.15	57.402
31752	C19H40S	methyl octadecyl sulfide	40289-98-3	119.5244	821.75	0.3800	303.16	821.75	2	635.00	68.067
31753	C19H40S	ethyl heptadecyl sulfide	66359-40-8	119.5244	821.75	0.3800	303.16	821.75	2	635.00	68.067
31754	C19H40S	propyl hexadecyl sulfide	66359-41-9	119.5244	821.75	0.3800	303.16	821.75	2	635.00	68.067
31755	C19H40S	butyl pentadecyl sulfide	66359-42-0	119.5244	821.75	0.3800	303.16	821.75	2	635.00	68.067
31756	C19H41N	nonadecylamine	14130-05-3	110.4101	786.30	0.3800	325.15	786.30	1,2	643.15	57.794
31757	C19H41N	methyloctadecylamine	2439-55-6	104.6429	764.50	0.3800	315.15	764.50	1,2	620.15	55.540
31758	C19H41N	ethylheptadecylamine	66359-43-1	105.0593	764.70	0.3800	356.05	764.70	1,2	621.15	55.638
31759	C19H41N	dimethylheptadecylamine	3002-57-1	102.0071	770.60	0.3800	335.86	770.60	1,2	617.15	55.246
31760	C19H41N	diethylpentadecylamine	36555-73-4	97.3849	735.67	0.3800	335.86	735.67	1,2	590.15	52.610
31976	C20H16	triphenylethylene	58-72-0	105.8671	908.00	0.3880	342.15	908.00	1,2	669.00	63.073
32214	C20H24	1,1-diphenyl-1-octene	1530-21-8	97.0162	828.02	0.3800	250.81	828.02	1,2	629.15	56.421
32259	C20H26	1,1-diphenyloctane	1530-06-9	96.0284	810.00	0.3800	269.15	810.00	1,2	619.15	55.442
32260	C20H26	2,5-dimethyl-2,5-diphenylhexane	17648-05-4	96.0284	810.00	0.3800	334.95	810.00	2	619.15	55.442

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
32262	C20H26	3,4-dimethyl-3,4-diphenylhexane	10192-93-5	96.0284	810.00	0.3800	519.15	810.00	2	619.15	55.442
32302	C20H28	1-decylnaphthalene	26438-27-7	103.8890	838.67	0.3800	288.15	838.67	1,2	652.15	58.679
32303	C20H28	2-decylnaphthalene	14188-79-5	104.5852	843.81	0.3800	296.15	843.81	1,2	656.15	59.072
32346	C20H30O2	abietic acid	514-10-3	144.8300	832.00	0.4560	446.65	832.00	1,2	649.70	72.477
32358.1	C20H30O2	isopimaric acid	5835-26-7	110.7300	807.10	0.4020	435.65	807.10	1,2	623.10	61.114
32367	C20H31N	dehydroabietylamine	1446-61-3	112.5063	863.00	0.3900	317.65	863.00	1,2	660.00	63.982
32376	C20H32	1-decyl-[1,2,3,4-tetrahydronaphthalene]	55255-57-7	100.9843	814.16	0.3800	333.73	814.16	1,2	634.15	56.911
32377	C20H32	2-decyl-[1,2,3,4-tetrahydronaphthalene]	66455-67-2	101.3323	816.73	0.3800	333.73	816.73	1,2	636.15	57.107
32391.1	C20H32O2	isoagatholal	17990-11-3	155.7500	790.00	0.5200	325.00	790.00	1,2	628.00	68.330
32399	C20H34	1-phenyltetradecane	1459-10-5	104.8337	792.00	0.3800	289.16	792.00	1,2	627.16	57.739
32407.1	C20H34O2	agathadiol	1857-24-5	178.4000	790.00	0.5250	379.55	790.00	1,2	640.00	74.574
32436	C20H38	1-eicosyne	765-27-5	107.1810	769.79	0.3800	309.16	769.79	1,2	613.16	58.526
32437	C20H38	2-eicosyne	61847-99-2	102.3044	786.42	0.3800	420.76	786.42	1,2	625.15	56.029
32438	C20H38	3-eicosyne	61886-66-6	98.3761	758.74	0.3800	420.76	758.74	1,2	603.15	53.878
32439	C20H38	1,1-dicyclohexyloctane	62016-87-9	97.2167	797.35	0.3800	329.42	797.35	1,2	617.15	55.246
32440	C20H38	1-pentadecylcyclopentene	62184-80-9	98.8639	767.17	0.3800	290.75	767.17	1,2	608.15	54.366
32445	C20H38O2	cis-9-eicosenoic acid	29204-02-2	89.3969	966.00	0.3800	297.65	966.00	2	650.00	58.467
32446	C20H38O2	9-eicosenoic acid	506-31-0	89.3969	966.00	0.3800	296.15	966.00	2	650.00	58.467
32447	C20H38O2	11-eicosenoic acid	2462-94-4	89.3969	966.00	0.3800	297.15	966.00	2	650.00	58.467
32450	C20H38O2	cis-11-eicosenoic acid	5561-99-9	89.3969	966.00	0.3800	296.65	966.00	2	650.00	58.467
32450.1	C20H38O2	cetyl methacrylate	2495-27-4	84.0500	793.00	0.1637	288.15	793.00	1,2	641.00	64.135
32457	C20H39Br	cis-1-bromo-1-eicosene	66455-60-5	108.5094	805.01	0.3800	369.38	805.01	1,2	648.15	58.285
32458	C20H39Br	trans-1-bromo-1-eicosene	66455-61-6	108.5094	805.01	0.3800	369.38	805.01	1,2	648.15	58.285
32459	C20H39Br3	1,1,1-tribromoeicosane	62127-76-8	120.7125	874.10	0.3800	496.48	874.10	1,2	708.15	64.202
32460	C20H39Cl	cis-1-chloro-1-eicosene	66455-62-7	109.8422	815.57	0.3800	339.50	815.57	1,2	656.15	59.072
32461	C20H39Cl	trans-1-chloro-1-eicosene	66455-41-2	109.8422	815.57	0.3800	339.50	815.57	1,2	656.15	59.072
32462	C20H39Cl3	1,1,1-trichloroeicosane	62108-64-9	115.1791	841.03	0.3800	406.84	841.03	1,2	680.15	61.436
32463	C20H39F	cis-1-fluoro-1-eicosene	66455-42-3	110.6536	820.75	0.3800	341.73	820.75	2	660.43	59.493
32464	C20H39F	trans-1-fluoro-1-eicosene	66455-43-4	110.6536	820.75	0.3800	341.73	820.75	2	660.43	59.493
32465	C20H39F3	1,1,1-trifluoroeicosane	62126-86-7	98.8537	743.40	0.3800	413.53	743.40	1,2	597.15	53.292
32466	C20H39I	cis-1-iodo-1-eicosene	66455-45-6	112.0401	832.59	0.3800	367.64	832.59	1,2	669.15	60.351
32467	C20H39I	trans-1-iodo-1-eicosene	66455-44-5	112.0401	832.59	0.3800	367.64	832.59	1,2	669.15	60.351
32468	C20H39I3	1,1,1-triiodoeicosane	---	161.9505	1156.96	0.3800	491.26	1156.96	2	933.19	86.746
32469	C20H39N	eicosanenitrile	4616-73-3	111.7286	813.13	0.3800	323.75	813.13	1,2	659.15	59.367
32473	C20H40	pentadecylcyclopentane	4669-01-6	106.5404	780.00	0.3800	290.00	780.00	1,2	625.00	57.656
32474	C20H40	tetradecylcyclohexane	1795-18-2	102.6306	792.82	0.3800	297.16	792.82	1,2	627.16	56.610
32475	C20H40	cycloeicosane	296-56-0	92.4243	842.81	0.3800	277.00	842.81	1,2	621.15	55.638
32476	C20H40	1-eicosene	3452-07-1	121.9183	771.00	0.4690	301.76	771.00	1,2	615.54	57.532
32476.1	C20H40	trans-2-eicosene	42448-85-1	111.9400	745.00	0.4400	285.00	745.00	1,2	592.00	55.783
32477	C20H40	2-methyl-1-nonadecene	52254-50-9	101.5146	768.75	0.3800	292.65	768.75	1,2	615.15	55.051
32479	C20H40Br2	1,1-dibromoeicosane	62168-37-0	116.4839	847.57	0.3800	419.26	847.57	1,2	686.15	62.028
32480	C20H40Cl2	1,1-dichloroeicosane	62017-22-5	112.7446	825.11	0.3800	359.50	825.11	1,2	667.15	60.154
32481	C20H40F2	1,1-difluoroeicosane	62127-09-7	99.3036	754.00	0.3800	363.96	754.00	1,2	603.15	53.878
32482	C20H40I2	1,1-diiodoeicosane	66455-47-8	145.1034	1044.20	0.3800	415.78	1044.20	2	842.84	77.634
32486	C20H40O	eicosanal	2400-66-0	106.6856	784.21	0.3800	324.15	784.21	1,2	634.15	56.911
32487	C20H40O	2-eicosanone	29703-52-4	104.8237	773.72	0.3800	332.15	773.72	2	625.00	56.015
32489	C20H40O	3,7,11,15-tetramethyl-1-hexadecen-3-ol	505-32-8	104.8943	783.00	0.3800	529.58	783.00	2	629.58	56.463
32491	C20H40O2	eicosanoic acid	506-30-9	114.6387	822.00	0.3800	348.45	822.88	1,2	670.15	60.450
32492	C20H40O2	3,7,11,15-tetramethylhexadecanoic acid	14721-66-5	134.7113	822.00	0.3800	208.15	822.00	2	706.07	63.996
32493	C20H40O2	nonadecyl formate	66455-49-0	163.7311	782.90	0.3800	373.36	782.90	2	714.52	64.833
32494	C20H40O2	octadecyl acetate	822-23-1	167.4349	779.60	0.3800	305.99	779.60	2	630.00	89.415
32495	C20H40O2	heptadecyl propanoate	---	165.3153	782.00	0.3800	356.99	782.00	2	715.22	64.902
32496	C20H40O2	hexadecyl butanoate	6221-99-4	165.4877	781.80	0.3800	356.99	781.80	2	715.22	64.902
32497	C20H40O2	decyl decanoate	1654-86-0	162.9993	772.00	0.3800	282.85	772.00	2	706.07	63.996
32498	C20H40O2	butyl palmitate	111-06-8	162.9993	772.00	0.3800	290.05	772.00	2	706.07	63.996
32499	C20H40O2	ethyl stearate	111-61-5	162.9993	772.00	0.3800	306.15	772.00	2	706.07	63.996
32500	C20H40O2	methyl nonadecanoate	1731-94-8	162.9993	772.00	0.3800	314.45	772.00	2	706.07	63.996
32504	C20H40S	thiacycloheneicosane	42425-07-0	96.3191	872.75	0.3800	356.93	872.75	1,2	644.15	57.893
32505	C20H41Br	1-bromoeicosane	4276-49-7	111.0549	816.19	0.3800	310.05	816.19	1,2	659.15	59.367
32506	C20H41Cl	1-chloroeicosane	42217-02-7	108.5476	800.64	0.3800	310.75	800.64	1,2	646.15	58.089
32507	C20H41F	1-fluoroeicosane	676-44-8	103.6047	756.80	0.3800	311.15	756.80	1,2	614.15	54.953
32508	C20H41I	1-iodoeicosane	34994-81-5	116.7889	833.96	0.3800	315.05	833.96	1,2	680.15	61.436
32511	C20H41NO2	1-nitroeicosane	66455-50-3	113.6393	821.10	0.3800	458.27	821.10	1,2	667.15	60.154
32515	C20H42	eicosane	112-95-8	115.0000	767.04	0.4090	309.59	767.04	1,2	616.93	59.015
32516	C20H42	2-methylnonadecane	1560-86-7	101.3365	763.21	0.3800	291.45	763.21	1,2	612.15	54.757
32517	C20H42	3-methylnonadecane	6418-45-7	101.5175	764.46	0.3800	281.15	764.46	1,2	613.15	54.855
32518	C20H42	2,2-dimethyloctadecane	61869-06-5	99.5425	759.27	0.3800	317.08	759.27	1,2	606.15	54.171
32519	C20H42	2,3-dimethyloctadecane	61868-04-0	101.3442	767.45	0.3800	284.66	767.45	1,2	614.15	54.953
32520	C20H42	2,4-dimethyloctadecane	61868-10-8	97.7423	742.46	0.3800	284.66	742.46	1,2	594.15	53.000
32522	C20H42O	1-eicosanol	629-96-9	165.5476	792.00	0.5930	338.55	792.00	1,2	629.15	64.799
32523	C20H42O	2-eicosanol	4340-76-5	107.4285	791.20	0.3800	333.15	791.20	1,2	639.15	57.402
32524	C20H42O	didecyl ether	2456-28-2	98.3386	730.80	0.3800	257.15	730.80	2	590.00	52.595
32525	C20H42O	2-octyl-1-dodecanol	5333-42-6	99.0438	791.60	0.3800	273.20	791.60	2	619.43	55.470
32526	C20H42O2	1,2-eicosanediol	39825-93-9	119.2074	849.99	0.3800	358.15	849.99	2	693.15	62.719
32527	C20H42O2	1,3-eicosanediol	---	121.2744	863.48	0.3800	421.30	863.48	2	704.15	63.806
32528	C20H42O2	1,4-eicosanediol	---	125.2279	889.23	0.3800	421.30	889.23	2	725.15	65.887
32529	C20H42O2	1,20-eicosanediol	---	122.6318	873.91	0.3800	436.30	873.91	2	712.15	64.598
32537	C20H42S	1-eicosanethiol	13373-97-2	120.1232	814.57	0.3800	310.37	814.57	1,2	656.16	64.475
32538	C20H42S	2-eicosanethiol	62155-08-2	110.3076	803.00	0.3800	308.15	803.00	1,2	651.15	58.580
32539	C20H42S	didecyl sulfide	693-83-4	121.1629	832.33	0.3800	308.16	832.33	2	645.00	68.746

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
32540	C20H42S	methyl nonadecyl sulfide	62155-12-8	121.1629	832.33	0.3800	308.16	832.33	2	645.00	68.746
32541	C20H42S	ethyl octadecyl sulfide	41947-84-6	121.1629	832.33	0.3800	308.16	832.33	2	645.00	68.746
32542	C20H42S	propyl heptadecyl sulfide	66455-35-4	121.1629	832.33	0.3800	308.16	832.33	2	645.00	68.746
32543	C20H42S	butyl hexadecyl sulfide	18437-89-3	121.1629	832.33	0.3800	308.16	832.33	2	645.00	68.746
32544	C20H42S2	didecyl disulfide	10496-18-1	123.5171	820.08	0.3800	259.16	820.08	1,2	663.16	65.890
32546	C20H43N	eicosylamine	10525-37-8	114.7480	794.60	0.3800	332.15	794.60	1,2	656.15	59.072
32547	C20H43N	methylnonadecylamine	66455-36-5	108.2176	773.40	0.3800	367.32	773.40	1,2	632.15	56.715
32548	C20H43N	ethyloctadecylamine	7317-85-3	109.0600	773.90	0.3800	367.32	773.90	1,2	634.15	56.911
32549	C20H43N	didecylamine	1120-49-6	106.1945	782.30	0.3800	307.15	782.30	1,2	632.15	56.715
32550	C20H43N	dimethyloctadecylamine	124-28-7	105.4038	779.70	0.3800	296.04	779.70	1,2	629.15	56.421
32551	C20H43N	diethylhexadecylamine	30951-88-3	100.3694	746.71	0.3800	280.15	746.71	1,2	602.15	53.780
32860	C21H26	1,1-diphenyl-1-nonene	1530-26-3	100.6037	835.60	0.3800	245.71	835.60	1,2	642.15	57.696
32914	C21H28	1,1-diphenylnonane	1726-13-2	99.0865	816.50	0.3800	288.15	816.50	1,2	630.15	56.519
32944	C21H30	1-undecylnaphthalene	7225-71-0	107.2987	846.34	0.3800	296.15	846.34	1,2	664.15	59.859
32945	C21H30	2-undecylnaphthalene	61886-68-8	108.1813	852.71	0.3800	293.15	852.71	1,2	669.15	60.351
32998	C21H36	pentadecylbenzene	2131-18-2	109.3015	800.00	0.3800	295.16	800.00	1,2	639.16	59.413
33021	C21H40	1,1-dicyclohexylnonane	62155-19-5	100.5593	805.09	0.3800	340.69	805.09	1,2	629.15	56.421
33022	C21H40	1-hexadecylcyclopentene	62184-81-0	101.8572	775.66	0.3800	302.02	775.66	1,2	619.15	55.442
33023	C21H40	1-heneicosyne	61847-81-2	103.9507	782.42	0.3800	314.15	782.42	1,2	627.15	56.225
33032	C21H41N	heneicosanenitrile	66326-13-4	114.3691	824.05	0.3800	324.15	824.05	1,2	670.15	60.450
33036	C21H42	hexadecylcyclopentane	6812-39-1	109.1980	797.25	0.3800	294.16	797.25	1,2	637.16	59.329
33037	C21H42	pentadecylcyclohexane	6006-95-7	106.2441	803.46	0.3800	302.16	803.46	1,2	640.16	57.990
33038	C21H42	1-heneicosene	1599-68-4	105.0303	779.35	0.3800	306.45	779.35	1,2	628.15	56.323
33039	C21H42Br2	1,1-dibromoheneicosane	62168-38-1	119.2087	858.13	0.3800	430.53	858.13	1,2	697.15	63.114
33040	C21H42Cl2	1,1-dichloroheneicosane	62017-23-6	115.4847	835.53	0.3800	370.77	835.53	1,2	678.15	61.238
33041	C21H42F2	1,1-difluoroheneicosane	62127-10-0	103.6672	756.52	0.3800	375.23	756.52	1,2	614.15	54.953
33042	C21H42I2	1,1-diiodoheneicosane	66326-14-5	150.4024	1068.11	0.3800	427.05	1068.11	2	865.72	79.934
33043	C21H42O2	eicosyl formate	66326-15-6	187.2422	790.50	0.3800	384.63	790.50	2	737.40	67.102
33044	C21H42O2	nonadecyl acetate	53939-51-8	192.5126	787.40	0.3800	310.75	787.40	2	645.00	100.517
33045	C21H42O2	octadecyl propanoate	52663-48-6	189.1554	789.90	0.3800	303.95	789.90	2	738.10	67.172
33046	C21H42O2	heptadecyl butanoate	84869-41-0	189.4155	789.70	0.3800	368.26	789.70	2	738.10	67.172
33047	C21H42O2	isopropyl stearate	112-10-7	195.6431	785.00	0.3800	301.15	785.00	2	737.93	67.154
33048	C21H42O2	propyl stearate	3634-92-2	195.6431	785.00	0.3800	302.05	785.00	2	737.93	67.154
33049	C21H42O2	methyl eicosanoate	1120-28-1	195.6431	785.00	0.3800	327.65	785.00	2	737.93	67.154
33050	C21H42O2	heneicosanoic acid	2363-71-5	152.6601	834.00	0.3800	348.15	834.00	2	737.93	67.154
33051	C21H42O2	isopropyl isostearate	68171-33-5	195.6431	785.00	0.3800	637.93	785.00	2	737.93	67.154
33055	C21H43Br	1-bromoheneicosane	4276-50-0	113.8200	826.47	0.3800	319.25	826.47	1,2	670.15	60.450
33056	C21H43Cl	1-chloroheneicosane	66326-16-7	111.3123	810.87	0.3800	317.15	810.87	1,2	657.15	59.170
33057	C21H43F	1-fluoroheneicosane	62126-78-7	105.6083	772.53	0.3800	320.15	772.53	1,2	626.15	56.127
33058	C21H43I	1-iodoheneicosane	62127-52-0	119.0922	846.44	0.3800	322.25	846.44	1,2	691.15	62.521
33059	C21H44	heneicosane	629-94-7	105.6682	779.52	0.3800	313.65	779.52	1,2	629.65	56.470
33062	C21H44O	henicosanol	15594-90-8	106.5094	801.60	0.3800	342.65	801.60	2	642.00	57.682
33065	C21H45N	heneicosylamine	14130-15-5	113.8102	822.40	0.3800	331.15	822.40	1,2	668.15	60.253
33066	C21H45N	methyleicosylamine	66326-20-3	109.1783	791.58	0.3800	319.15	791.58	1,2	643.15	57.794
33067	C21H45N	ethylnonadecylamine	66326-79-0	109.7348	795.27	0.3800	378.59	795.27	1,2	646.15	58.089
33068	C21H45N	isopropyloctadecylamine	13329-71-0	107.5730	783.99	0.3800	535.98	783.99	2	635.98	57.091
33069	C21H45N	dimethylnonadecylamine	49859-87-2	108.2419	791.64	0.3800	358.40	791.64	1,2	641.15	57.598
33070	C21H45N	diethylheptadecylamine	66326-18-9	103.2708	758.30	0.3800	358.40	758.30	1,2	614.15	54.953
33071	C21H45N	triheptylamine	2411-36-1	101.2508	744.72	0.3800	358.40	744.72	1,2	603.15	53.878
33313	C22H28	1,1-diphenyl-1-decene	1530-27-4	104.2055	843.78	0.3800	240.61	843.78	1,2	655.15	58.973
33343	C22H30	1,1-diphenyldecane	1530-07-0	99.7245	822.00	0.3800	276.15	822.00	1,2	634.15	56.911
33361	C22H32	1-dodecylnaphthalene	26438-28-8	110.6826	854.65	0.3800	301.15	854.65	1,2	676.15	61.041
33362	C22H32	2-dodecylnaphthalene	60899-39-0	111.7556	862.23	0.3800	305.15	862.23	1,2	682.15	61.633
33401	C22H38	1-phenylhexadecane	1459-09-2	113.8897	808.00	0.3800	300.16	808.00	1,2	651.16	61.086
33425	C22H42	1,1-dicyclohexyldecane	62155-20-8	103.7109	812.16	0.3800	351.96	812.16	1,2	640.15	57.500
33426	C22H42	1-docosyne	61847-82-3	107.0154	793.12	0.3800	318.15	793.12	1,2	639.15	57.402
33431	C22H42O2	cis-13-docosenoic acid	112-86-7	91.1044	996.00	0.3800	307.85	996.00	2	665.00	59.943
33432	C22H42O2	trans-13-docosenoic acid	506-33-2	91.1044	996.00	0.3800	335.05	996.00	2	665.00	59.943
33433	C22H42O2	13-docosenoic acid	1072-39-5	91.1044	996.00	0.3800	307.85	996.00	2	665.00	59.943
33454	C22H44	heptadecylcyclopentane	62016-52-8	108.6033	808.79	0.3800	300.15	808.79	1,2	650.15	58.482
33455	C22H44	hexadecylcyclohexane	6812-38-0	109.7303	813.42	0.3800	306.76	813.42	1,2	652.16	59.329
33456	C22H44	1-docosene	1599-67-3	107.9849	790.73	0.3800	310.95	790.73	1,2	640.15	57.500
33457	C22H44Br2	1,1-dibromodocosane	62168-39-2	121.6081	868.14	0.3800	441.80	868.14	1,2	707.15	64.103
33458	C22H44Cl2	1,1-dichlorodocosane	62017-24-7	118.0964	846.62	0.3800	382.04	846.62	1,2	689.15	62.324
33459	C22H44F2	1,1-difluorodocosane	62127-11-1	106.0108	766.65	0.3800	386.50	766.65	1,2	624.15	55.931
33460	C22H44I2	1,1-diiododocosane	66326-05-4	155.5673	1092.78	0.3800	438.32	1092.78	2	888.60	82.239
33462	C22H44O	cis-13-docosen-1-ol	629-98-1	109.2152	811.00	0.3800	308.15	811.00	2	652.58	58.720
33463	C22H44O2	eicosyl acetate	822-24-2	230.7460	794.70	0.3800	313.15	794.70	2	650.00	120.791
33464	C22H44O2	nonadecyl propanoate	66326-06-5	224.6028	797.30	0.3800	379.53	797.30	2	760.98	69.447
33465	C22H44O2	octadecyl butanoate	13373-83-6	224.8275	797.20	0.3800	379.53	797.20	2	760.98	69.447
33466	C22H44O2	butyl stearate	123-95-5	129.6142	764.00	0.4720	299.45	764.00	1,2	623.15	58.351
33467	C22H44O2	isobutyl stearate	646-13-9	207.6039	764.00	0.3800	302.05	764.00	2	726.52	66.023
33468	C22H44O2	docosanoic acid	112-85-6	138.9072	846.00	0.3800	354.65	846.00	2	726.52	66.023
33469	C22H44O2	ethyl eicosanoate	18281-05-5	207.6039	764.00	0.3800	323.15	764.00	2	726.52	66.023
33470	C22H44O2	methyl heneicosanoate	6064-90-0	207.6039	764.00	0.3800	322.15	764.00	2	726.52	66.023
33473	C22H45Br	1-bromodocosane	6938-66-5	116.4628	837.39	0.3800	317.45	837.39	1,2	681.15	61.534
33474	C22H45Cl	1-chlorodocosane	42217-03-8	113.9600	821.75	0.3800	318.15	821.75	1,2	668.15	60.253
33475	C22H45F	1-fluorodocosane	62126-79-8	108.2127	783.55	0.3800	319.15	783.55	1,2	637.15	57.206
33476	C22H45I	1-iododocosane	62127-53-1	121.0397	858.41	0.3800	321.95	858.41	1,2	701.15	63.510
33477	C22H46	docosane	629-97-0	108.5883	791.32	0.3800	317.55	791.32	1,2	641.75	57.657

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
33479	C22H46O	1-docosanol	661-19-8	109.2777	811.60	0.3800	345.65	811.60	2	653.00	58.762
33483	C22H47N	docosylamine	14130-06-4	116.5518	834.97	0.3800	336.15	834.97	1,2	680.15	61.436
33484	C22H47N	methylheneicosylamine	66326-08-7	111.7029	803.02	0.3800	321.15	803.02	1,2	654.15	58.875
33485	C22H47N	ethyleicosylamine	66326-07-6	112.2626	806.70	0.3800	389.86	806.70	1,2	657.15	59.170
33486	C22H47N	diundecylamine	16165-33-6	111.8894	804.24	0.3800	315.15	804.24	1,2	655.15	58.973
33487	C22H47N	dimethyleicosylamine	45275-74-9	110.8922	802.46	0.3800	306.15	802.46	1,2	652.15	58.679
33488	C22H47N	diethyloctadecylamine	30427-51-1	105.8858	769.24	0.3800	369.67	769.24	1,2	625.15	56.029
33607	C23H30	1,1-diphenyl-1-undecene	1530-28-5	107.4534	850.03	0.3800	235.51	850.03	1,2	666.15	60.056
33633	C23H32	1,1-diphenylundecane	1530-08-1	104.9363	827.90	0.3800	294.15	827.90	1,2	650.15	58.482
33674	C23H40	heptadecylbenzene	14752-75-1	110.9446	823.00	0.3800	305.15	823.00	1,2	662.15	59.662
33677	C23H44	1,1-dicyclohexylundecane	62155-21-9	106.6472	818.57	0.3800	363.23	818.57	1,2	650.15	58.482
33678	C23H44	1-tricosyne	61847-83-4	109.9912	804.42	0.3800	322.15	804.42	1,2	651.15	58.580
33684	C23H46	octadecylcyclopentane	62016-53-9	111.6534	819.70	0.3800	303.15	819.70	1,2	662.15	59.662
33685	C23H46	heptadecylcyclohexane	19781-73-8	111.6326	823.97	0.3800	310.95	823.97	1,2	664.15	59.859
33686	C23H46	1-tricosene	18835-32-0	110.8336	802.72	0.3800	314.75	802.72	1,2	652.15	58.679
33687	C23H46	cis-9-tricosene	27519-02-4	94.5702	802.72	0.3800	273.15	802.72	1,2	612.15	54.757
33688	C23H46Br2	1,1-dibromotricosane	62168-40-5	123.8515	878.87	0.3800	453.07	878.87	1,2	717.15	65.093
33689	C23H46Cl2	1,1-dichlorotricosane	62017-25-8	120.3747	857.18	0.3800	393.31	857.18	1,2	699.15	63.312
33690	C23H46F2	1,1-difluorotricosane	62127-12-2	108.4097	778.63	0.3800	397.77	778.63	1,2	635.15	57.009
33691	C23H46I2	1,1-diiodotricosane	66325-82-4	160.5683	1118.27	0.3800	449.59	1118.27	2	911.48	84.549
33694	C23H46O	12-tricosanone	540-09-0	123.8929	794.72	0.3800	343.35	794.72	2	673.00	60.731
33695	C23H46O2	eicosyl propanoate	65591-14-2	289.5784	804.30	0.3800	390.80	804.30	2	783.86	71.728
33696	C23H46O2	nonadecyl butanoate	84869-42-1	290.1049	804.20	0.3800	390.80	804.20	2	783.86	71.728
33697	C23H46O2	isopentyl stearate	627-88-3	332.1088	798.00	0.3800	298.65	798.00	2	783.86	71.728
33698	C23H46O2	pentyl stearate	6382-13-4	332.1088	798.00	0.3800	303.15	798.00	2	783.86	71.728
33699	C23H46O2	methyl docosanoate	929-77-1	332.1088	798.00	0.3800	327.15	798.00	2	783.86	71.728
33700	C23H46O2	tricosanoic acid	2433-96-7	181.8843	858.00	0.3800	352.65	858.00	2	783.86	71.728
33701	C23H46O2	isostearyl neopentanoate	58958-60-4	332.1088	798.00	0.3800	683.86	798.00	2	783.86	71.728
33702	C23H47Br	1-bromotricosane	62108-44-5	118.7782	847.76	0.3800	325.85	847.76	1,2	691.15	62.521
33703	C23H47Cl	1-chlorotricosane	62016-77-7	116.2862	832.05	0.3800	324.15	832.05	1,2	678.15	61.238
33704	C23H47F	1-fluorotricosane	62126-80-1	110.6904	795.19	0.3800	327.15	795.19	1,2	648.15	58.285
33705	C23H47I	1-iodotricosane	62127-54-2	122.9982	872.37	0.3800	328.35	872.37	1,2	712.15	64.598
33706	C23H48	tricosane	638-67-5	111.3021	803.12	0.3800	324.05	803.12	1,2	653.35	58.796
33707	C23H48	9-hexylheptadecane	55124-79-3	111.3021	803.12	0.3800	253.75	803.12	2	653.35	58.796
33708	C23H48O	1-tricosanol	3133-01-5	112.0782	821.60	0.3800	348.15	821.60	2	664.00	59.844
33710	C23H49N	tricosylamine	14130-07-5	118.9604	846.99	0.3800	337.15	846.99	1,2	691.15	62.521
33711	C23H49N	methyldocosylamine	66375-05-1	114.0871	815.11	0.3800	324.15	815.11	1,2	665.15	59.957
33712	C23H49N	ethylheneicosylamine	66375-04-0	114.6493	818.78	0.3800	401.13	818.78	1,2	668.15	60.253
33713	C23H49N	dimethylheneicosylamine	66375-03-9	113.4148	813.93	0.3800	380.94	813.93	1,2	663.15	59.760
33714	C23H49N	diethylnonadecylamine	66375-02-8	108.3799	780.79	0.3800	380.94	780.79	1,2	636.15	57.107
33887	C24H32	1,1-diphenyl-1-dodecene	1530-29-6	110.6728	856.93	0.3800	230.41	856.93	1,2	677.15	61.140
33906	C24H34	1,1-diphenyldodecane	1603-53-8	107.7142	832.80	0.3800	283.15	832.80	1,2	659.15	59.367
33924	C24H38O4	diisooctyl phthalate	27554-26-3	144.1231	851.00	0.4180	594.00	851.00	1,2	694.00	71.106
33925	C24H38O4	dioctyl phthalate	117-84-0	145.7859	806.00	0.4680	298.00	806.00	1,2	657.15	66.130
33931.1	C24H38O4	heptyl nonyl phthalate	19295-81-9	160.4600	841.00	0.4800	240.00	841.00	1,2	687.00	71.035
33959	C24H42	octadecylbenzene	4445-07-2	113.8112	832.72	0.3800	309.15	832.72	1,2	673.15	60.745
33960	C24H42O	dinonylphenol	1323-65-5	153.2883	886.00	0.4320	622.00	886.00	1,2	722.00	73.966
33967	C24H46	1,1-dicyclohexyldodecane	18254-57-4	109.5253	825.63	0.3800	374.50	825.63	1,2	660.15	59.465
33968	C24H46	1-tetracosyne	61847-84-5	112.6731	815.11	0.3800	325.15	815.11	1,2	662.15	59.662
33970	C24H46O2	cis-15-tetracosenoic acid	506-37-6	95.0108	996.00	0.3800	316.15	996.00	2	680.00	61.421
33971	C24H46O2	trans-15-tetracosenoic acid	14490-79-0	95.0108	996.00	0.3800	334.15	996.00	2	680.00	61.421
33983	C24H48	nonadecylcyclopentane	62016-54-0	114.4153	829.99	0.3800	308.15	829.99	1,2	673.15	60.745
33984	C24H48	octadecylcyclohexane	4445-06-1	114.4578	833.93	0.3800	313.65	833.93	1,2	675.15	60.943
33985	C24H48	1-tetracosene	10192-32-2	113.3717	814.11	0.3800	318.45	814.11	1,2	663.15	59.760
33986	C24H48Br2	1,1-dibromotetracosane	62168-03-0	125.7363	889.11	0.3800	464.34	889.11	1,2	726.15	65.986
33987	C24H48Cl2	1,1-dichlorotetracosane	62017-26-9	122.4913	868.44	0.3800	404.58	868.44	1,2	709.15	64.301
33988	C24H48F2	1,1-difluorotetracosane	62127-13-3	110.2911	788.81	0.3800	409.04	788.81	1,2	644.15	57.893
33989	C24H48I2	1,1-diiodotetracosane	66374-96-7	165.3772	1144.63	0.3800	460.86	1144.63	2	934.36	86.864
33990	C24H48O2	eicosyl butanoate	41927-66-6	559.1928	810.70	0.3800	402.07	810.70	2	806.74	74.015
33991	C24H48O2	ethyl docosanoate	5908-87-2	423.7467	815.00	0.3800	323.15	815.00	2	806.74	74.015
33992	C24H48O2	tetracosanoic acid	557-59-5	200.4043	870.00	0.3800	360.65	870.00	2	806.74	74.015
33993	C24H48O2	hexadecyl 2-ethylhexanoate	59130-69-7	423.7467	815.00	0.3800	706.74	815.00	2	806.74	74.015
33994	C24H48O2	octyl palmitate	29806-73-3	423.7467	815.00	0.3800	706.74	815.00	2	806.74	74.015
33998	C24H49Br	1-bromotetracosane	6946-24-3	120.9371	858.84	0.3800	323.85	858.84	1,2	701.15	63.510
33999	C24H49Cl	1-chlorotetracosane	6422-18-0	118.4610	843.04	0.3800	325.15	843.04	1,2	688.15	62.225
34000	C24H49F	1-fluorotetracosane	62126-81-2	112.8387	806.26	0.3800	326.15	806.26	1,2	658.15	59.268
34001	C24H49I	1-iodotetracosane	62127-55-3	124.5838	885.88	0.3800	327.85	885.88	1,2	722.15	65.589
34002	C24H50	tetracosane	646-31-1	113.7908	814.95	0.3800	324.05	814.95	1,2	664.45	59.888
34003	C24H50	2-methyltricosane	1928-30-9	113.7908	814.95	0.3800	310.75	814.95	2	664.45	59.888
34004	C24H50O	2-decyl-1-tetradecanol	58670-89-6	114.9110	831.60	0.3800	291.65	831.60	2	675.00	60.928
34005	C24H50O	tetracosanol	506-51-4	112.7506	841.60	0.3800	349.15	841.60	1,2	675.00	60.928
34008	C24H50S	dodecyl sulfide	2469-45-6	108.4412	876.33	0.3800	312.65	876.33	2	680.00	61.421
34012	C24H51N	tetracosylamine	14130-08-6	121.2077	859.72	0.3800	340.15	859.72	1,2	702.15	63.609
34013	C24H51N	methyltricosylamine	66374-99-0	116.1292	826.65	0.3800	326.15	826.65	1,2	675.15	60.943
34014	C24H51N	ethyldocosylamine	66374-98-9	116.6929	830.33	0.3800	412.40	830.33	1,2	678.15	61.238
34015	C24H51N	didodecylamine	3007-31-6	116.3171	827.88	0.3800	324.15	827.88	1,2	676.15	61.041
34016	C24H51N	dimethyldocosylamine	21542-96-1	115.6061	824.83	0.3800	317.15	824.83	1,2	673.15	60.745
34017	C24H51N	diethyleicosylamine	66374-97-8	110.5506	791.74	0.3800	392.21	791.74	1,2	646.15	58.089
34018	C24H51N	trioctylamine	1116-76-3	107.5631	772.14	0.3800	238.55	772.14	1,2	630.15	56.519
34019	C24H51N	triisooctylamine	2757-28-0	114.8607	819.04	0.3800	568.72	819.04	2	668.72	60.309

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
34140	C25H34	1,1-diphenyl-1-tridecene	62155-37-7	113.6650	863.24	0.3800	225.31	863.24	1,2	687.15	62.126
34150	C25H36	1,1-diphenyltridecane	62155-14-0	110.5058	838.00	0.3800	300.15	838.00	1,2	668.15	60.253
34171	C25H44	nonadecylbenzene	29136-19-4	116.3809	841.84	0.3800	313.15	841.84	1,2	683.15	61.732
34172	C25H44	(3-octylundecyl)benzene	5637-96-7	116.3809	841.84	0.3800	246.45	841.84	2	683.15	61.732
34173	C25H44	9-(4-tolyl)octadecane	4445-08-3	116.3809	841.84	0.3800	233.15	841.84	2	683.15	61.732
34178	C25H48	1,1-dicyclohexyltridecane	62155-22-0	112.3266	833.34	0.3800	385.77	833.34	1,2	670.15	60.450
34179	C25H48	1-pentacosyne	61847-85-6	115.0398	825.22	0.3800	328.15	825.22	1,2	672.15	60.647
34182	C25H50	eicosylcyclopentane	22331-38-0	116.8664	839.72	0.3800	311.15	839.72	1,2	683.15	61.732
34183	C25H50	nonadecylcyclohexane	22349-03-7	116.9794	843.31	0.3800	318.35	843.31	1,2	685.15	61.929
34184	C26H52	heneicosylcyclopentane	6703-82-8	119.1745	850.13	0.3800	315.15	850.13	1,2	693.15	62.719
34185	C25H50	1-pentacosene	16980-85-1	115.7674	826.16	0.3800	321.85	826.16	1,2	674.15	60.844
34186	C25H50	9-octyl-8-heptadecene	24306-18-1	115.7674	826.16	0.3800	233.15	826.16	2	674.15	60.844
34187	C25H50Br2	1,1-dibromopentacosane	62168-04-1	127.6289	901.35	0.3800	475.61	901.35	1,2	736.15	66.978
34188	C25H50Cl2	1,1-dichloropentacosane	62017-27-0	124.4341	880.46	0.3800	415.85	880.46	1,2	719.15	65.292
34189	C25H50F2	1,1-difluoropentacosane	62127-14-4	112.2029	800.89	0.3800	420.31	800.89	1,2	654.15	58.875
34190	C25H50I2	1,1-diiodopentacosane	66359-84-0	169.9683	1171.95	0.3800	472.13	1171.95	2	957.24	89.184
34192	C25H50O2	methyl tetracosanoate	2442-49-1	364.1293	830.00	0.3800	334.15	830.00	2	817.00	75.042
34193	C25H51Br	1-bromopentacosane	62108-45-6	122.7381	869.43	0.3800	331.45	869.43	1,2	710.15	64.400
34194	C25H51Cl	1-chloropentacosane	62016-78-8	120.4715	854.75	0.3800	330.15	854.75	1,2	698.15	63.213
34195	C25H51F	1-fluoropentacosane	62126-82-3	114.8309	818.02	0.3800	333.15	818.02	1,2	668.15	60.253
34196	C25H51I	1-iodopentacosane	62127-56-4	125.7936	899.00	0.3800	333.75	899.00	1,2	731.15	66.482
34197	C25H52	pentacosane	629-99-2	116.0375	826.84	0.3800	326.85	826.84	1,2	675.05	60.933
34198	C25H52	9-octylheptadecane	7225-64-1	116.0375	826.84	0.3800	259.35	826.84	2	675.05	60.933
34199	C25H53N	pentacosylamine	14130-09-7	123.0930	871.97	0.3800	341.15	871.97	1,2	712.15	64.598
34200	C25H53N	methyltetracosylamine	66359-78-2	117.8166	837.69	0.3800	327.15	837.69	1,2	684.15	61.830
34201	C25H53N	ethyltricosylamine	66359-77-1	118.5690	842.59	0.3800	423.67	842.59	1,2	688.15	62.225
34202	C25H53N	dimethyltricosylamine	66359-76-0	117.6388	836.42	0.3800	403.48	836.42	1,2	683.15	61.732
34203	C25H53N	diethylheneicosylamine	66359-75-9	112.5702	803.37	0.3800	403.48	803.37	1,2	656.15	59.072
34221	C26H20	tetraphenylethylene	632-51-9	126.4136	996.00	0.3780	496.15	996.00	1,2	693.20	80.599
34296	C26H36	1,1-diphenyl-1-tetradecene	62155-38-8	116.4047	868.99	0.3800	220.21	868.99	1,2	696.15	63.015
34302	C26H38	1,1-diphenyltetradecane	55268-63-8	113.1330	842.20	0.3800	291.15	842.20	1,2	676.15	61.041
34319.1	C26H42O4	heptyl undecyl phthalate	65185-88-8	157.0200	878.00	0.4675	240.00	878.00	1,2	717.00	71.050
34326	C26H46	eicosylbenzene	2398-68-7	118.8191	851.65	0.3800	317.15	851.65	1,2	693.15	62.719
34327	C26H46	(1-butylhexadecyl)benzene	2400-04-6	118.8191	851.65	0.3800	303.35	851.65	2	693.15	62.719
34328	C26H46	(1-ethyloctadecyl)benzene	2400-02-4	118.8191	851.65	0.3800	302.45	851.65	2	693.15	62.719
34329	C26H46	(1-methylnonadecyl)benzene	2398-66-5	118.8191	851.65	0.3800	302.15	851.65	2	693.15	62.719
34330	C26H46	(1-octyldodecyl)benzene	2398-65-4	118.8191	851.65	0.3800	291.05	851.65	2	693.15	62.719
34331	C26H46	(1-propylheptadecyl)benzene	2400-03-5	118.8191	851.65	0.3800	304.55	851.65	2	693.15	62.719
34338	C26H50	1,1-dicyclohexyltetradecane	55334-08-2	114.8478	840.47	0.3800	310.75	840.47	1,2	679.15	61.337
34339	C26H50	1-hexacosyne	61847-86-7	117.2602	836.00	0.3800	330.15	836.00	1,2	682.15	61.633
34348	C26H52	eicosylcyclohexane	4443-55-4	119.3637	853.38	0.3800	321.65	853.38	1,2	695.15	62.917
34349	C26H52	1-hexacosene	18835-33-1	117.8185	837.68	0.3800	324.95	837.68	1,2	684.15	61.830
34350	C26H52	3-cyclohexyleicosane	4443-57-6	116.8064	853.38	0.3800	295.88	853.38	2	689.65	62.373
34351	C26H52	9-cyclohexyleicosane	4443-61-2	116.8064	853.38	0.3800	314.00	853.38	2	689.65	62.373
34352	C26H52Br2	1,1-dibromohexacosane	62168-05-2	128.9540	911.94	0.3800	486.88	911.94	1,2	744.15	67.773
34353	C26H52Cl2	1,1-dichlorohexacosane	62017-28-1	126.0051	892.02	0.3800	427.12	892.02	1,2	728.15	66.184
34354	C26H52F2	1,1-difluorohexacosane	62127-15-5	113.7623	812.45	0.3800	431.58	812.45	1,2	663.15	59.760
34355	C26H52I2	1,1-diiodohexacosane	66291-94-9	174.3192	1200.28	0.3800	483.40	1200.28	2	980.12	91.508
34356	C26H52O2	hexacosanoic acid	506-46-7	212.1887	894.00	0.3800	361.65	894.00	2	832.74	76.620
34357	C26H52O2	hexadecyl neodecanoate	67749-11-5	328.2977	845.00	0.3800	727.00	845.00	2	827.00	76.044
34358	C26H52O2	octyl stearate	22047-49-0	328.2977	845.00	0.3800	727.00	845.00	2	827.00	76.044
34360	C26H53Br	1-bromohexacosane	4276-51-1	124.5484	881.99	0.3800	329.55	881.99	1,2	720.15	65.391
34361	C26H53Cl	1-chlorohexacosane	56134-53-3	122.1187	865.98	0.3800	331.15	865.98	1,2	707.15	64.103
34362	C26H53F	1-fluorohexacosane	62126-83-4	116.4687	829.26	0.3800	332.15	829.26	1,2	677.15	61.140
34363	C26H53I	1-iodohexacosane	52644-81-2	126.8166	912.99	0.3800	333.05	912.99	1,2	740.15	67.375
34364	C26H54	hexacosane	630-01-3	118.0662	839.06	0.3800	329.55	839.06	1,2	685.35	61.949
34365	C26H54	5-butyldocosane	55282-16-1	118.0662	839.06	0.3800	481.15	839.06	2	685.35	61.949
34366	C26H54	7-butyldocosane	55282-15-0	118.0662	839.06	0.3800	274.75	839.06	2	685.35	61.949
34367	C26H54	9-butyldocosane	55282-14-9	118.0662	839.06	0.3800	273.85	839.06	2	685.35	61.949
34368	C26H54	11-butyldocosane	13475-76-8	118.0662	839.06	0.3800	585.35	839.06	2	685.35	61.949
34369	C26H54	11-(2,2-dimethylpropyl)heneicosane	55282-10-5	118.0662	839.06	0.3800	252.15	839.06	2	685.35	61.949
34370	C26H54	6,11-dipentylhexadecane	15874-03-0	118.0662	839.06	0.3800	256.95	839.06	2	685.35	61.949
34371	C26H54	3-ethyl-5-(2-ethylbutyl)octadecane	55282-12-7	118.0662	839.06	0.3800	222.15	839.06	2	685.35	61.949
34372	C26H54	3-ethyltetracosane	55282-17-2	118.0662	839.06	0.3800	303.25	839.06	2	685.35	61.949
34373	C26H54O	1-hexacosanol	506-52-5	120.6744	851.60	0.3800	353.15	851.60	2	697.00	63.099
34377	C26H55N	hexacosylamine	14130-10-0	124.7959	884.99	0.3800	344.15	884.99	1,2	722.15	65.589
34378	C26H55N	methylpentacosylamine	66291-92-7	119.5173	850.70	0.3800	329.15	850.70	1,2	694.15	62.818
34379	C26H55N	ethyltetracosylamine	66291-91-6	120.2694	855.60	0.3800	434.94	855.60	1,2	698.15	63.213
34380	C26H55N	ditridecylamine	5910-75-8	119.7053	851.92	0.3800	329.65	851.92	1,2	695.15	62.917
34381	C26H55N	dimethyltetracosylamine	66291-90-5	119.5021	848.75	0.3800	322.15	848.75	1,2	693.15	62.719
34382	C26H55N	diethyldocosylamine	66291-89-2	114.2403	814.46	0.3800	414.75	814.46	1,2	665.15	59.957
34464	C27H38	1,1-diphenyl-1-pentadecene	62155-39-9	119.0516	875.43	0.3800	215.11	875.43	1,2	705.15	63.905
34475	C27H40	1,1-diphenylpentadecane	62155-15-1	115.7612	846.70	0.3800	306.15	846.70	1,2	684.15	61.830
34536	C27H48	heneicosylbenzene	40775-09-5	120.9215	860.93	0.3800	321.15	860.93	1,2	702.15	63.609
34537	C27H48	11-phenylheneicosane	6703-80-6	120.9215	860.93	0.3800	293.95	860.93	2	702.15	63.609
34547	C27H52	1,1-dicyclohexylpentadecane	62155-23-1	117.2521	848.27	0.3800	408.31	848.27	1,2	688.15	62.225
34548	C27H52	1-heptacosyne	61847-87-8	119.3208	847.49	0.3800	333.15	847.49	1,2	692.15	62.620
34549	C27H54	docosylcyclopentane	62016-55-1	121.3247	861.25	0.3800	318.15	861.25	1,2	703.15	63.708
34550	C27H54	heneicosylcyclohexane	26718-82-1	121.5952	864.14	0.3800	324.65	864.14	1,2	705.15	63.905
34551	C27H54	(1-decylundecyl)cyclohexane	6703-99-7	119.5518	864.14	0.3800	272.60	864.14	2	700.82	63.477

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
34552	C27H54	1-heptacosene	15306-27-1	119.7007	849.93	0.3800	327.85	849.93	1,2	694.15	62.818
34553	C27H54Br2	1,1-dibromoheptacosane	62168-06-3	130.2749	924.58	0.3800	498.15	924.58	1,2	753.15	68.668
34554	C27H54Cl2	1,1-dichloroheptacosane	62017-29-2	127.3873	904.39	0.3800	438.39	904.39	1,2	737.15	67.077
34555	C27H54F2	1,1-difluoroheptacosane	62127-16-6	115.1510	824.74	0.3800	442.85	824.74	1,2	672.15	60.647
34556	C27H54I2	1,1-diiodoheptacosane	66291-84-7	178.4112	1229.70	0.3800	494.67	1229.70	2	1003.00	93.837
34557	C27H54O	14-heptacosanone	542-50-7	154.7359	822.72	0.3800	350.65	822.72	2	733.00	66.665
34558	C27H54O2	methyl hexacosanoate	5802-82-4	305.0776	860.00	0.3800	336.95	860.00	2	837.00	77.047
34559	C27H55Br	1-bromoheptacosane	62108-46-7	125.9840	894.13	0.3800	336.55	894.13	1,2	729.15	66.283
34560	C27H55Cl	1-chloroheptacosane	62016-79-9	123.5840	877.97	0.3800	335.15	877.97	1,2	716.15	64.994
34561	C27H55F	1-fluoroheptacosane	62108-81-0	117.9329	841.24	0.3800	338.15	841.24	1,2	686.15	62.028
34562	C27H55I	1-iodoheptacosane	62127-57-5	126.5407	920.45	0.3800	338.45	920.45	1,2	743.15	67.673
34563	C27H56	heptacosane	593-49-7	119.8475	851.53	0.3800	332.15	851.53	1,2	695.25	62.926
34566	C27H57N	heptacosylamine	14130-11-1	126.3110	898.82	0.3800	345.15	898.82	1,2	732.15	66.581
34567	C27H57N	methylhexacosylamine	66291-81-4	120.8502	863.26	0.3800	331.15	863.26	1,2	703.15	63.708
34568	C27H57N	ethylpentacosylamine	66291-80-3	121.6010	868.17	0.3800	446.21	868.17	1,2	707.15	64.103
34569	C27H57N	dimethylpentacosylamine	66291-79-0	120.9998	860.60	0.3800	426.02	860.60	1,2	702.15	63.609
34570	C27H57N	diethyltricosylamine	66291-86-9	115.7408	826.28	0.3800	426.02	826.28	1,2	674.15	60.844
34571	C27H57N	trinonylamine	2044-22-6	112.1826	802.99	0.3800	426.02	802.99	1,2	655.15	58.973
34663	C28H40	1,1-diphenyl-1-hexadecene	13456-25-2	121.4012	881.36	0.3800	210.01	881.36	1,2	713.15	64.697
34677	C28H42	1,1-diphenylhexadecane	13456-23-0	118.2355	850.10	0.3800	299.15	850.10	1,2	691.15	62.521
34691	C28H46O4	diisodecyl phthalate	26761-40-0	142.2561	887.00	0.4100	350.00	887.00	1,2	723.00	71.205
34704	C28H50	docosylbenzene	5634-22-0	122.8605	870.93	0.3800	324.15	870.93	1,2	711.15	64.499
34712	C28H54	1,1-dicyclohexylhexadecane	13287-09-7	119.5225	856.76	0.3800	419.58	856.76	1,2	697.15	63.114
34713	C28H54	1-octacosyne	61847-88-9	121.0220	858.49	0.3800	335.15	858.49	1,2	701.15	63.510
34716	C28H56	tricosylcyclopentane	62016-56-2	123.1160	871.87	0.3800	322.15	871.87	1,2	712.15	64.598
34717	C28H56	docosylcyclohexane	61828-07-7	123.4714	874.41	0.3800	327.55	874.41	1,2	714.15	64.796
34718	C28H56	1-octacosene	18835-34-2	121.2173	861.70	0.3800	330.65	861.70	1,2	703.15	63.708
34719	C28H56Br2	1,1-dibromooctacosane	62168-07-4	131.2127	936.86	0.3800	509.42	936.86	1,2	761.15	69.464
34720	C28H56Cl2	1,1-dichlorooctacosane	62017-30-5	128.5783	917.60	0.3800	449.66	917.60	1,2	746.15	67.972
34721	C28H56F2	1,1-difluorooctacosane	62127-17-7	116.1798	836.58	0.3800	454.12	836.58	1,2	680.15	61.436
34722	C28H56I2	1,1-diiodooctacosane	66291-74-5	182.2302	1260.30	0.3800	505.94	1260.30	2	1025.88	96.170
34723	C28H56O2	octacosanoic acid	506-48-9	224.4550	918.00	0.3800	364.05	918.00	2	858.74	79.232
34728	C28H57Br	1-bromooctacosane	16331-21-8	127.0422	905.86	0.3800	334.55	905.86	1,2	737.15	67.077
34729	C28H57Cl	1-chlorooctacosane	62016-80-2	124.8634	890.78	0.3800	336.15	890.78	1,2	725.15	65.887
34730	C28H57F	1-fluorooctacosane	62108-82-1	119.2196	854.00	0.3800	337.15	854.00	1,2	695.15	62.917
34731	C28H57I	1-iodooctacosane	62154-80-7	128.3173	943.74	0.3800	337.75	943.74	1,2	758.15	69.165
34732	C28H58	octacosane	630-02-4	121.3744	864.27	0.3800	337.65	864.27	1,2	704.75	63.866
34733	C28H58	2,2,4,10,12,12-hexamethyl-7-(3,5,5-trimethylhexyl)tridecane	3035-75-4	121.3744	864.27	0.3800	604.75	864.27	2	704.75	63.866
34734	C28H58	7-hexyldocosane	55373-86-9	121.3744	864.27	0.3800	292.45	864.27	2	704.75	63.866
34735	C28H58	9-octyleicosane	13475-77-9	121.3744	864.27	0.3800	273.65	864.27	2	704.75	63.866
34737	C28H58O	1-octacosanol	557-61-9	129.3033	861.60	0.3800	356.55	861.60	2	719.00	65.277
34738	C28H59N	octacosylamine	14130-12-2	127.4482	912.27	0.3800	348.15	912.27	1,2	741.15	67.475
34739	C28H59N	methylheptacosylamine	66291-78-9	121.8148	875.40	0.3800	332.15	875.40	1,2	711.15	64.499
34740	C28H59N	ethylhexacosylamine	66291-77-8	122.7501	881.56	0.3800	457.48	881.56	1,2	716.15	64.994
34741	C28H59N	ditetradecylamine	17361-44-3	122.1889	877.86	0.3800	333.77	877.86	1,2	713.15	64.697
34742	C28H59N	dimethylhexacosylamine	66291-76-7	122.3157	873.23	0.3800	328.15	873.23	1,2	711.15	64.499
34743	C28H59N	diethyltetracosylamine	66291-75-6	117.0671	838.85	0.3800	437.29	838.85	1,2	683.15	61.732
34812	C29H52	tricosylbenzene	61828-04-4	124.4358	880.45	0.3800	327.15	880.45	1,2	719.15	65.292
34814	C29H56	1-nonacosyne	61847-89-0	122.5438	870.24	0.3800	338.15	870.24	1,2	710.15	64.400
34815	C29H58	tetracosylcyclopentane	62016-57-3	124.5382	882.04	0.3800	324.15	882.04	1,2	720.15	65.391
34816	C29H58	tricosylcyclohexane	61828-08-8	124.9805	884.21	0.3800	330.15	884.21	1,2	722.15	65.589
34817	C29H58	1-nonacosene	18835-35-3	122.7397	875.48	0.3800	323.15	875.48	1,2	713.15	64.697
34818	C29H58Br2	1,1-dibromononacosane	62168-08-5	131.9591	950.04	0.3800	520.69	950.04	1,2	769.15	70.261
34819	C29H58Cl2	1,1-dichlorononacosane	62017-31-6	129.3915	930.45	0.3800	460.93	930.45	1,2	754.15	68.767
34820	C29H58F2	1,1-difluorononacosane	62127-18-8	117.0368	849.23	0.3800	465.39	849.23	1,2	688.15	62.225
34821	C29H58I2	1,1-diiodononacosane	66213-91-0	185.7665	1292.15	0.3800	517.21	1292.15	2	1048.76	98.507
34823	C29H59Br	1-bromononacosane	62108-47-8	128.0997	919.68	0.3800	340.95	919.68	1,2	746.15	67.972
34824	C29H59Cl	1-chlorononacosane	62016-81-3	125.7691	903.20	0.3800	340.15	903.20	1,2	733.15	66.680
34825	C29H59F	1-fluorononacosane	62108-83-2	120.1412	866.34	0.3800	343.15	866.34	1,2	703.15	63.708
34826	C29H59I	1-iodononacosane	62154-81-8	128.6254	959.36	0.3800	342.65	959.36	1,2	766.15	69.962
34827	C29H60	nonacosane	630-03-5	122.6621	877.44	0.3800	336.85	877.44	1,2	713.95	64.776
34828	C29H60O	1-nonacosanol	6624-76-6	132.3954	871.60	0.3800	357.65	871.60	2	730.00	66.368
34829	C29H61N	nonacosylamine	66213-93-2	128.3977	926.61	0.3800	349.15	926.61	1,2	750.15	68.369
34830	C29H61N	methyloctacosylamine	66213-97-6	122.7872	889.63	0.3800	334.15	889.63	1,2	720.15	65.391
34831	C29H61N	ethylheptacosylamine	66213-96-5	123.7180	895.80	0.3800	468.75	895.80	1,2	725.15	65.887
34832	C29H61N	dimethylheptacosylamine	66213-95-4	123.2611	885.47	0.3800	448.56	885.47	1,2	719.15	65.292
34833	C29H61N	diethylpentacosylamine	66213-94-3	118.0311	850.99	0.3800	448.56	850.99	1,2	691.15	62.521
34922.1	C30H48O6	tri-n-heptyl trimellitate	1528-48-9	167.5400	1020.00	0.7129	339.00	1020.00	1,2	815.00	53.377
34936	C30H54	tetracosylbenzene	61828-05-5	125.8277	890.74	0.3800	330.15	890.74	1,2	727.15	66.085
34940	C30H58	1-triacontyne	61847-90-3	123.8817	882.79	0.3800	340.15	882.79	1,2	719.15	65.292
34946	C30H60	pentacosylcyclopentane	62016-74-4	125.9629	894.22	0.3800	327.15	894.22	1,2	729.15	66.283
34947	C30H60	tetracosylcyclohexane	61828-09-9	126.4930	896.02	0.3800	332.65	896.02	1,2	731.15	66.482
34948	C30H60	1-triacontene	18435-53-5	123.7025	887.64	0.3800	325.55	887.64	1,2	721.15	65.490
34949	C30H60Br2	1,1-dibromotriacontane	62168-09-6	132.5194	964.17	0.3800	531.96	964.17	1,2	777.15	71.059
34950	C30H60Cl2	1,1-dichlorotriacontane	62017-32-7	130.0199	944.23	0.3800	472.20	944.23	1,2	762.15	69.564
34951	C30H60F2	1,1-difluorotriacontane	62127-19-9	117.7257	862.72	0.3800	476.66	862.72	1,2	696.15	63.015
34952	C30H60I2	1,1-diiodotriacontane	66213-98-7	189.0152	1325.37	0.3800	528.48	1325.37	2	1071.64	100.848
34954	C30H60O2	triacontanoic acid	506-50-3	237.2324	942.00	0.3800	366.75	942.00	2	884.74	81.850
34957	C30H61Br	1-bromotriacontane	4209-22-7	128.7842	933.17	0.3800	338.95	933.17	1,2	754.15	68.767
34958	C30H61Cl	1-chlorotriacontane	62016-82-4	126.4922	916.50	0.3800	340.15	916.50	1,2	741.15	67.475

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
34959	C30H61F	1-fluorotriacontane	62108-84-3	120.8881	879.52	0.3800	342.15	879.52	1,2	711.15	64.499
34960	C30H61I	1-iodotriacontane	62154-82-9	128.7766	976.04	0.3800	281.85	976.04	1,2	774.15	70.759
34961	C30H62	triacontane	638-68-6	123.7105	891.09	0.3800	338.95	891.09	1,2	722.85	65.658
34962	C30H62	2,6,10,15,19,23-hexamethyltetracosane	111-01-3	97.0297	891.09	0.3800	235.15	891.09	2	653.00	58.762
34963	C30H62	9-octyldocosane	55319-83-0	103.6801	891.09	0.3800	281.75	891.09	2	673.00	60.731
34964	C30H62O	1-triacontanol	593-50-0	135.5233	881.60	0.3800	361.15	881.60	2	741.00	67.460
34965	C30H63N	triacontylamine	66214-00-4	129.1637	941.88	0.3800	351.15	941.88	1,2	759.15	69.265
34966	C30H63N	methylnonacosylamine	66214-04-8	123.3985	903.52	0.3800	335.15	903.52	1,2	728.15	66.184
34967	C30H63N	ethyloctacosylamine	66214-03-7	124.3236	909.72	0.3800	480.02	909.72	1,2	733.15	66.680
34968	C30H63N	dipentadecylamine	35551-81-6	123.7684	906.00	0.3800	336.45	906.00	1,2	730.15	66.383
34969	C30H63N	dimethyloctacosylamine	66214-02-6	124.0265	898.56	0.3800	333.15	898.56	1,2	727.15	66.085
34970	C30H63N	diethylhexacosylamine	66214-01-5	119.0079	865.20	0.3800	459.83	865.20	1,2	700.15	63.411
34971	C30H63N	tri-N-decylamine	1070-01-5	115.1157	839.25	0.3800	272.15	839.25	1,2	679.15	61.337
35019	C31H56	pentacosylbenzene	61828-06-6	127.0315	901.84	0.3800	332.15	901.84	1,2	735.15	66.879
35020	C31H56	13-phenylpentacosane	6006-90-2	127.0315	901.84	0.3800	304.85	901.84	2	735.15	66.879
35023	C31H60	1-hentriacontyne	61847-91-4	125.0337	896.17	0.3800	342.15	896.17	1,2	728.15	66.184
35025	C31H62	hexacosylcyclopentane	62016-58-4	127.0104	905.99	0.3800	329.15	905.99	1,2	737.15	67.077
35026	C31H62	pentacosylcyclohexane	61828-10-2	127.6271	907.42	0.3800	335.05	907.42	1,2	739.15	67.276
35027	C31H62	1-hentriacontene	18435-54-6	124.6706	901.89	0.3800	327.75	901.89	1,2	730.15	66.383
35028	C31H62	13-cyclohexylpentacosane	6697-15-0	126.2250	905.99	0.3800	270.20	905.99	2	735.48	66.912
35029	C31H62Br2	1,1-dibromohentriacontane	62168-10-9	132.9012	979.29	0.3800	543.23	979.29	1,2	785.15	71.857
35030	C31H62Cl2	1,1-dichlorohentriacontane	62017-33-8	130.4703	958.98	0.3800	483.47	958.98	1,2	770.15	70.361
35031	C31H62F2	1,1-difluorohentriacontane	62127-20-2	118.2522	877.11	0.3800	487.93	877.11	1,2	704.15	63.806
35032	C31H62I2	1,1-diiodohentriacontane	66214-07-1	191.9758	1360.04	0.3800	539.75	1360.04	2	1094.52	103.193
35033	C31H62O	16-hentriacontanone	502-73-8	225.2642	860.00	0.3800	356.95	860.00	2	813.00	74.641
35034	C31H63Br	1-bromohentriacontane	62108-48-9	129.1049	946.37	0.3800	344.85	946.37	1,2	761.15	69.464
35035	C31H63Cl	1-chlorohentriacontane	62016-83-5	127.0383	930.73	0.3800	344.15	930.73	1,2	749.15	68.270
35036	C31H63F	1-fluorohentriacontane	62108-85-4	121.4652	893.61	0.3800	347.15	893.61	1,2	719.15	65.292
35037	C31H63I	1-iodohentriacontane	57094-91-4	128.7824	993.86	0.3800	346.45	993.86	1,2	782.15	71.558
35039	C31H64	hentriacontane	630-04-6	124.4671	904.88	0.3800	341.05	904.88	1,2	731.15	66.482
35040	C31H64	11-decylheneicosane	55320-06-4	124.4671	904.88	0.3800	283.15	904.88	2	731.15	66.482
35041	C31H65N	hentriacontylamine	66214-08-2	129.7528	958.15	0.3800	352.15	958.15	1,2	768.15	70.161
35042	C31H65N	methyltriacontylamine	66214-12-8	123.8425	918.35	0.3800	336.15	918.35	1,2	736.15	66.978
35043	C31H65N	ethylnonacosylamine	66214-11-7	124.7608	924.58	0.3800	491.29	924.58	1,2	741.15	67.475
35044	C31H65N	dimethylnonacosylamine	66214-10-6	124.6168	912.56	0.3800	471.10	912.56	1,2	735.15	66.879
35045	C31H65N	diethylheptacosylamine	66214-09-3	119.4451	877.80	0.3800	471.10	877.80	1,2	707.15	64.103
35105	C32H58	hexacosylbenzene	13024-80-1	128.0454	913.77	0.3800	335.15	913.77	1,2	743.15	67.673
35108	C32H62	1-dotriacontyne	61847-92-5	125.8147	909.18	0.3800	344.15	909.18	1,2	736.15	66.978
35111	C32H64	heptacosylcyclopentane	61827-90-5	127.8701	918.63	0.3800	332.15	918.63	1,2	745.15	67.872
35112	C32H64	hexacosylcyclohexane	61828-11-3	128.5711	919.67	0.3800	337.15	919.67	1,2	747.15	68.071
35113	C32H64	1-dotriacontene	18435-55-7	125.2748	915.81	0.3800	329.85	915.81	1,2	738.15	67.177
35114	C32H64Br2	1,1-dibromodotriacontane	62168-11-0	132.9312	994.22	0.3800	554.50	994.22	1,2	792.15	72.556
35115	C32H64Cl2	1,1-dichlorodotriacontane	62017-34-9	130.7514	974.75	0.3800	494.74	974.75	1,2	778.15	71.158
35116	C32H64F2	1,1-difluorodotriacontane	62127-21-3	118.4422	891.19	0.3800	499.20	891.19	1,2	711.15	64.499
35117	C32H64I2	1,1-diiododotriacontane	66214-13-9	194.6521	1396.28	0.3800	551.02	1396.28	2	1117.40	105.543
35122	C32H65Br	1-bromodotriacontane	7596-92-1	129.4415	961.80	0.3800	342.85	961.80	1,2	769.15	70.261
35123	C32H65Cl	1-chlorodotriacontane	62016-84-6	127.4150	945.94	0.3800	344.15	945.94	1,2	757.15	69.066
35124	C32H65F	1-fluorodotriacontane	62108-86-5	121.8799	908.63	0.3800	346.15	908.63	1,2	727.15	66.085
35125	C32H65I	1-iododotriacontane	62154-83-0	128.4776	1011.61	0.3800	345.55	1011.61	1,2	789.15	72.256
35126	C32H66	dotriacontane	544-85-4	125.1793	920.46	0.3800	342.85	920.46	1,2	740.15	67.375
35127	C32H66	3-methylhentriacontane	4981-99-1	125.1793	920.46	0.3800	274.15	920.46	2	740.15	67.375
35129	C32H67N	dotriacontylamine	66214-14-0	129.9912	974.21	0.3800	354.15	974.21	1,2	776.15	70.959
35130	C32H67N	methylhentriacontylamine	66214-18-4	123.9462	932.92	0.3800	338.15	932.92	1,2	743.15	67.673
35131	C32H67N	ethyltriacontylamine	66214-17-3	125.0387	940.45	0.3800	502.56	940.45	1,2	749.15	68.270
35132	C32H67N	dihexadecylamine	16724-63-3	124.4923	936.69	0.3800	340.18	936.69	1,2	746.15	67.972
35133	C32H67N	dimethyltriacontylamine	66214-16-2	125.0392	927.51	0.3800	338.15	927.51	1,2	743.15	67.673
35134	C32H67N	diethyloctacosylamine	66214-15-1	119.7231	891.32	0.3800	482.37	891.32	1,2	714.15	64.796
35178	C33H60	heptacosylbenzene	61828-25-9	128.6835	925.34	0.3800	337.15	925.34	1,2	750.15	68.369
35179	C33H64	1-tritriacontyne	61847-93-6	126.4172	923.11	0.3800	346.15	923.11	1,2	744.15	67.773
35180	C33H66	octacosylcyclopentane	61827-91-6	128.5455	932.17	0.3800	334.15	932.17	1,2	753.15	68.668
35181	C33H66	heptacosylcyclohexane	61828-12-4	129.1406	931.57	0.3800	339.25	931.57	1,2	754.15	68.767
35182	C33H66	1-tritriacontene	61868-11-9	125.7092	930.68	0.3800	331.85	930.68	1,2	746.15	67.972
35183	C33H66Br2	1,1-dibromotritriacontane	62168-12-1	132.8074	1010.24	0.3800	565.77	1010.24	1,2	799.15	73.256
35184	C33H66Cl2	1,1-dichlorotritriacontane	62017-35-0	130.6925	990.34	0.3800	506.01	990.34	1,2	785.15	71.857
35185	C33H66F2	1,1-difluorotritriacontane	62127-22-4	118.4903	906.25	0.3800	510.47	906.25	1,2	718.15	65.193
35186	C33H66I2	1,1-diiodotritriacontane	66214-19-5	197.0515	1434.22	0.3800	562.29	1434.22	2	1140.28	107.896
35187	C33H67Br	1-bromotritriacontane	62108-49-0	129.4360	977.03	0.3800	348.45	977.03	1,2	776.15	70.959
35188	C33H67Cl	1-chlorotritriacontane	62016-85-7	127.4501	960.92	0.3800	348.15	960.92	1,2	764.15	69.763
35189	C33H67F	1-fluorotritriacontane	62108-87-6	121.9599	923.40	0.3800	350.15	923.40	1,2	734.15	66.780
35190	C33H67I	1-iodotritriacontane	62154-84-1	128.2327	1031.91	0.3800	349.85	1031.91	1,2	797.15	73.056
35191	C33H68	tritriacontane	630-05-7	125.5402	935.79	0.3800	344.55	935.79	1,2	748.15	68.170
35192	C33H69N	tritriacontylamine	---	130.0754	991.36	0.3800	355.15	991.36	1,2	784.15	71.757
35193	C33H69N	methyldotriacontylamine	66214-25-3	124.0856	949.80	0.3800	339.15	949.80	1,2	751.15	68.469
35194	C33H69N	ethylhentriacontylamine	66214-24-2	124.9872	956.12	0.3800	513.83	956.12	1,2	756.15	68.966
35195	C33H69N	dimethylhentriacontylamine	66214-23-1	125.1206	942.21	0.3800	493.64	942.21	1,2	750.15	68.369
35196	C33H69N	diethylnonacosylamine	66214-22-0	120.0324	907.05	0.3800	493.64	907.05	1,2	722.15	65.589
35197	C33H69N	triundecylamine	42910-16-7	116.2271	880.67	0.3800	493.64	880.67	1,2	701.15	63.510
35257	C34H62	octacosylbenzene	61828-26-0	129.1393	937.81	0.3800	339.15	937.81	1,2	757.15	69.066
35260	C34H66	1-tetratriacontyne	26185-83-1	126.6645	936.74	0.3800	347.15	936.74	1,2	751.15	68.469
35263	C34H67I	1-iodotetratriacontane	62154-85-2	127.7075	1052.30	0.3800	348.95	1052.30	1,2	804.15	73.756

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
35265	C34H68	nonacosylcyclopentane	61827-92-7	128.8580	945.42	0.3800	336.15	945.42	1,2	760.15	69.364
35266	C34H68	octacosylcyclohexane	61828-13-5	129.5297	944.39	0.3800	341.15	944.39	1,2	761.15	69.464
35267	C34H68	1-tetratriacontene	61868-12-0	125.9830	946.56	0.3800	343.65	946.56	1,2	754.15	68.767
35268	C34H68Br2	1,1-dibromotetratriacontane	62168-13-2	132.5427	1027.44	0.3800	577.04	1027.44	1,2	806.15	73.956
35269	C34H68Cl2	1,1-dichlorotetratriacontane	62017-36-1	130.4908	1007.06	0.3800	517.28	1007.06	1,2	792.15	72.556
35270	C34H68F2	1,1-difluorotetratriacontane	62127-23-5	118.4075	922.37	0.3800	521.74	922.37	1,2	725.15	65.887
35271	C34H68I2	1,1-diiodotetratriacontane	66214-26-4	199.1846	1474.00	0.3800	573.56	1474.00	2	1163.16	110.253
35274	C34H69Br	1-bromotetratriacontane	62108-50-3	129.2854	993.37	0.3800	346.45	993.37	1,2	783.15	71.657
35275	C34H69Cl	1-chlorotetratriacontane	62016-86-8	127.3401	976.98	0.3800	348.15	976.98	1,2	771.15	70.460
35276	C34H69F	1-fluorotetratriacontane	62108-88-7	121.9005	939.21	0.3800	349.15	939.21	1,2	741.15	67.475
35277	C34H70	tetratriacontane	14167-59-0	125.5641	950.88	0.3800	343.25	950.88	1,2	755.15	68.867
35278	C34H70	11-decyltetracosane	55429-84-0	125.5641	950.88	0.3800	283.95	950.88	2	755.15	68.867
35280	C34H71N	tetratriacontylamine	66214-29-7	129.8386	1008.41	0.3800	357.15	1008.41	1,2	791.15	72.456
35281	C34H71N	methyltritriacontylamine	66214-33-3	123.9102	966.53	0.3800	340.15	966.53	1,2	758.15	69.165
35282	C34H71N	ethyldotriacontylamine	66214-32-2	124.9805	974.18	0.3800	525.10	974.18	1,2	764.15	69.763
35283	C34H71N	diheptadecylamine	16130-73-7	124.2669	969.08	0.3800	344.15	969.08	1,2	760.15	69.364
35284	C34H71N	dimethyldotriacontylamine	66214-31-1	125.2375	959.24	0.3800	342.15	959.24	1,2	758.15	69.165
35285	C34H71N	diethyltriacontylamine	66214-30-0	120.1986	923.81	0.3800	504.91	923.81	1,2	730.15	66.383
35312	C35H64	nonacosylbenzene	61828-27-1	129.4199	951.23	0.3800	341.15	951.23	1,2	764.15	69.763
35313	C35H68	1-pentatriacontyne	61847-94-7	126.9349	952.63	0.3800	349.15	952.63	1,2	759.15	69.265
35314	C35H70	triacontylcyclopentane	61827-93-8	129.0037	959.65	0.3800	338.15	959.65	1,2	767.15	70.062
35315	C35H70	nonacosylcyclohexane	61828-14-6	129.7467	958.18	0.3800	343.05	958.18	1,2	768.15	70.161
35316	C35H70	1-pentatriacontene	61868-13-1	126.1066	963.51	0.3800	345.45	963.51	1,2	762.15	69.564
35317	C35H70Br2	1,1-dibromopentatriacontane	---	132.1507	1045.87	0.3800	588.31	1045.87	1,2	813.15	74.656
35318	C35H70Cl2	1,1-dichloropentatriacontane	62017-37-2	130.1594	1024.98	0.3800	528.55	1024.98	1,2	799.15	73.256
35319	C35H70F2	1,1-difluoropentatriacontane	62127-24-6	118.2054	939.61	0.3800	533.01	939.61	1,2	732.15	66.581
35320	C35H70I2	1,1-diiodopentatriacontane	66576-85-0	201.0645	1515.76	0.3800	584.83	1515.76	2	1186.04	112.614
35321	C35H70O	18-pentatriacontanone	504-53-0	523.4695	900.00	0.3800	362.15	900.00	2	893.00	82.683
35322	C35H71Br	1-bromopentatriacontane	62108-51-4	129.0025	1010.87	0.3800	351.65	1010.87	1,2	790.15	72.356
35323	C35H71Cl	1-chloropentatriacontane	---	127.0977	994.20	0.3800	351.15	994.20	1,2	778.15	71.158
35324	C35H71F	1-fluoropentatriacontane	62108-89-8	121.7137	956.14	0.3800	354.15	956.14	1,2	748.15	68.170
35325	C35H71I	1-iodopentatriacontane	62154-86-3	127.0929	1074.15	0.3800	352.85	1074.15	1,2	811.15	74.456
35326	C35H72	pentatriacontane	630-07-9	125.6266	968.33	0.3800	347.85	968.33	1,2	763.15	69.663
35327	C35H73N	pentatriacontylamine	66576-87-2	129.6537	1027.97	0.3800	358.15	1027.97	1,2	799.15	73.256
35328	C35H73N	methyltetratriacontylamine	66576-91-8	123.6145	984.44	0.3800	341.15	984.44	1,2	765.15	69.862
35329	C35H73N	ethyltritriacontylamine	66576-90-7	124.6724	992.16	0.3800	536.37	992.16	1,2	771.15	70.460
35330	C35H73N	dimethyltritriacontylamine	66576-89-4	125.0396	976.13	0.3800	516.18	976.13	1,2	765.15	69.862
35331	C35H73N	diethylhentriacontylamine	66576-88-3	120.0549	940.41	0.3800	516.18	940.41	1,2	737.15	67.077
35400	C36H66	triacontylbenzene	50715-02-1	129.5349	965.65	0.3800	343.15	965.65	1,2	771.15	70.460
35408	C36H70	1-hexatriacontyne	61847-95-8	126.8732	968.33	0.3800	350.15	968.33	1,2	766.15	69.962
35418	C36H72	hentriacontylcyclopentane	61827-94-9	128.9934	974.92	0.3800	340.15	974.92	1,2	774.15	70.759
35419	C36H72	triacontylcyclohexane	61828-15-7	129.8016	972.99	0.3800	344.75	972.99	1,2	775.15	70.859
35420	C36H72	1-hexatriacontene	61868-14-2	125.9129	980.33	0.3800	347.05	980.33	1,2	769.15	70.261
35421	C36H72Br2	1,1-dibromohexatriacontane	62168-15-4	131.4703	1064.34	0.3800	599.58	1064.34	1,2	819.15	75.257
35422	C36H72Cl2	1,1-dichlorohexatriacontane	62017-38-3	129.7120	1044.19	0.3800	539.82	1044.19	1,2	806.15	73.956
35424	C36H72F2	1,1-difluorohexatriacontane	62127-25-7	117.8962	958.04	0.3800	544.28	958.04	1,2	739.15	67.276
35425	C36H72I2	1,1-diiodohexatriacontane	66576-72-5	202.7062	1559.68	0.3800	596.10	1559.68	2	1208.92	114.979
35430	C36H73Br	1-bromohexatriacontane	7461-19-0	128.6007	1029.64	0.3800	349.65	1029.64	1,2	797.15	73.056
35431	C36H73Cl	1-chlorohexatriacontane	62016-88-0	126.7357	1012.64	0.3800	351.15	1012.64	1,2	785.15	71.857
35432	C36H73F	1-fluorohexatriacontane	62108-90-1	121.4116	974.25	0.3800	353.15	974.25	1,2	755.15	68.867
35433	C36H73I	1-iodohexatriacontane	62154-87-4	126.2327	1096.24	0.3800	351.95	1096.24	1,2	817.15	75.057
35434	C36H74	hexatriacontane	630-06-8	125.3790	985.67	0.3800	349.35	985.67	1,2	770.15	70.361
35435	C36H74	13-undecylpentacosane	55517-89-0	125.3790	985.67	0.3800	282.85	985.67	2	770.15	70.361
35437	C36H75N	hexatriacontylamine	45313-33-5	129.1780	1047.57	0.3800	359.15	1047.57	1,2	806.15	73.956
35438	C36H75N	methylpentatriacontylamine	66577-27-3	123.0372	1002.31	0.3800	342.15	1002.31	1,2	771.15	70.460
35439	C36H75N	ethyltetratriacontylamine	66577-26-2	124.2561	1011.41	0.3800	547.64	1011.41	1,2	778.15	71.158
35440	C36H75N	dioctadecylamine	112-99-2	123.5595	1006.21	0.3800	345.45	1006.21	1,2	774.15	70.759
35441	C36H75N	dimethyltetratriacontylamine	66577-25-1	124.5453	992.92	0.3800	346.15	992.92	1,2	771.15	70.460
35442	C36H75N	diethyldotriacontylamine	66577-24-0	119.6192	956.87	0.3800	527.45	956.87	1,2	743.15	67.673
35443	C36H75N	tridodecylamine	102-87-4	115.7596	928.54	0.3800	288.85	928.54	1,2	721.15	65.490
35476	C37H68	hentriacontylbenzene	61828-28-2	129.3138	979.86	0.3800	345.15	979.86	1,2	777.15	71.059
35477	C37H72	1-heptatriacontyne	---	126.6756	985.15	0.3800	352.15	985.15	1,2	773.15	70.660
35478	C37H74	dotriacontylcyclopentane	---	128.6593	990.03	0.3800	342.15	990.03	1,2	780.15	71.358
35479	C37H74	hentriacontylcyclohexane	61828-16-8	129.5251	987.61	0.3800	346.45	987.61	1,2	781.15	71.458
35480	C37H74	1-heptatriacontene	61868-15-3	125.5972	998.34	0.3800	348.65	998.34	1,2	776.15	70.959
35481	C37H74Br2	1,1-dibromoheptatriacontane	62168-16-5	130.8673	1085.52	0.3800	610.85	1085.52	1,2	826.15	75.959
35482	C37H74Cl2	1,1-dichloroheptatriacontane	62017-39-4	129.1619	1064.78	0.3800	551.09	1064.78	1,2	813.15	74.656
35483	C37H74F2	1,1-difluoroheptatriacontane	62127-26-8	117.3201	976.45	0.3800	555.55	976.45	1,2	745.15	67.872
35484	C37H74I2	1,1-diiodoheptatriacontane	66577-05-7	204.1261	1605.93	0.3800	607.37	1605.93	2	1231.80	117.347
35486	C37H75Br	1-bromoheptatriacontane	62108-52-5	128.0933	1049.74	0.3800	354.55	1049.74	1,2	804.15	73.756
35487	C37H75Cl	1-chloroheptatriacontane	62016-89-1	126.2674	1032.39	0.3800	354.15	1032.39	1,2	792.15	72.556
35488	C37H75F	1-fluoroheptatriacontane	62108-91-2	121.0069	993.63	0.3800	357.15	993.63	1,2	762.15	69.564
35489	C37H75I	1-iodoheptatriacontane	62154-88-5	125.4782	1121.36	0.3800	355.65	1121.36	1,2	824.15	75.758
35490	C37H76	heptatriacontane	7194-84-5	125.0156	1004.23	0.3800	350.85	1004.23	1,2	777.15	71.059
35491	C37H77N	heptatriacontylamine	66577-08-0	128.6040	1068.57	0.3800	360.15	1068.57	1,2	813.15	74.656
35492	C37H77N	methylhexatriacontylamine	66577-12-6	122.7132	1024.15	0.3800	343.15	1024.15	1,2	779.15	71.258
35493	C37H77N	ethylpentatriacontylamine	66577-11-5	123.5725	1030.72	0.3800	558.91	1030.72	1,2	784.15	71.757
35494	C37H77N	dimethylpentatriacontylamine	66577-10-4	124.1222	1012.28	0.3800	538.72	1012.28	1,2	778.15	71.158
35495	C37H77N	diethyltritriacontylamine	66577-09-1	119.2572	975.85	0.3800	538.72	975.85	1,2	750.15	68.369
35496	C37H77N	N-methyldioctadecylamine	4088-22-6	123.6389	1022.31	0.3800	317.65	1022.31	2	780.95	71.438

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
35513	C38H70	dotriacontylbenzene	61828-29-3	128.9540	995.18	0.3800	347.15	995.18	1,2	783.15	71.657
35514	C38H74	1-octatriacontyne	---	126.3548	1003.17	0.3800	353.15	1003.17	1,2	780.15	71.358
35518	C38H76	tritriacontylcyclopentane	---	128.3759	1007.57	0.3800	343.15	1007.57	1,2	787.15	72.057
35519	C38H76	dotriacontylcyclohexane	61828-17-9	129.2935	1004.63	0.3800	347.95	1004.63	1,2	788.15	72.157
35520	C38H76	1-octatriacontene	61868-16-4	125.1722	1017.62	0.3800	350.15	1017.62	1,2	783.15	71.657
35521	C38H76Br2	1,1-dibromooctatriacontane	62168-17-6	130.0075	1106.90	0.3800	622.12	1106.90	1,2	832.15	76.561
35522	C38H76Cl2	1,1-dichlorooctatriacontane	62017-40-7	128.3514	1085.53	0.3800	562.36	1085.53	1,2	819.15	75.257
35523	C38H76F2	1,1-difluorooctatriacontane	62126-87-8	116.6653	996.21	0.3800	566.82	996.21	1,2	751.15	68.469
35524	C38H76I2	1,1-diiodooctatriacontane	66577-13-7	205.3411	1654.72	0.3800	618.64	1654.72	2	1254.68	119.718
35526	C38H77Br	1-bromooctatriacontane	62108-53-6	127.3220	1069.97	0.3800	352.55	1069.97	1,2	810.15	74.356
35527	C38H77Cl	1-chlorooctatriacontane	62016-90-4	125.5341	1052.23	0.3800	354.15	1052.23	1,2	798.15	73.156
35528	C38H77F	1-fluorooctatriacontane	62108-92-3	120.3409	1013.07	0.3800	355.15	1013.07	1,2	768.15	70.161
35529	C38H77I	1-iodooctatriacontane	62154-89-6	124.5059	1146.96	0.3800	354.75	1146.96	1,2	830.15	76.360
35530	C38H78	octatriacontane	7194-85-6	124.5493	1024.12	0.3800	352.15	1024.12	1,2	784.15	71.757
35531	C38H78	13-dodecylhexacosane	55517-73-2	124.5493	1024.12	0.3800	286.85	1024.12	2	784.15	71.757
35532	C38H79N	octatriacontylamine	66576-94-1	127.9446	1091.09	0.3800	361.15	1091.09	1,2	820.15	75.358
35533	C38H79N	methylheptatriacontylamine	66576-99-6	121.7936	1043.48	0.3800	344.15	1043.48	1,2	784.15	71.757
35534	C38H79N	ethylhexatriacontylamine	66576-98-5	122.9801	1052.80	0.3800	570.18	1052.80	1,2	791.15	72.456
35535	C38H79N	dinonadecylamine	66576-97-4	122.3020	1047.47	0.3800	351.15	1047.47	1,2	787.15	72.057
35536	C38H79N	dimethylhexatriacontylamine	66576-96-3	123.4329	1031.69	0.3800	349.15	1031.69	1,2	784.15	71.757
35537	C38H79N	diethyltetratriacontylamine	66576-95-2	118.6323	994.85	0.3800	549.99	994.85	1,2	756.15	68.966
35553	C39H72	tritriacontylbenzene	61828-30-6	128.4691	1011.66	0.3800	348.15	1011.66	1,2	789.15	72.256
35553.1	C39H72O5	glycerol dioleate	2465-32-9	340.6800	1025.00	0.5083	294.65	1025.00	1,2	920.00	106.998
35555	C39H76	1-nonatriacontyne	---	125.7494	1021.18	0.3800	355.15	1021.18	1,2	786.15	71.957
35556	C39H78	tetratriacontylcyclopentane	---	127.7991	1025.07	0.3800	345.15	1025.07	1,2	793.15	72.656
35557	C39H78	tritriacontylcyclohexane	55517-75-4	128.7604	1021.59	0.3800	349.45	1021.59	1,2	794.15	72.756
35558	C39H78	1-nonatriacontene	61868-17-5	124.6511	1038.28	0.3800	351.55	1038.28	1,2	790.15	72.356
35559	C39H78Br2	1,1-dibromononatriacontane	62168-18-7	129.0788	1129.91	0.3800	633.39	1129.91	1,2	838.15	77.163
35560	C39H78Cl2	1,1-dichlorononatriacontane	62017-41-8	127.4690	1107.85	0.3800	573.63	1107.85	1,2	825.15	75.859
35561	C39H78F2	1,1-difluorononatriacontane	62126-88-9	116.1104	1018.78	0.3800	578.09	1018.78	1,2	758.15	69.165
35562	C39H78I2	1,1-diiodononatriacontane	66576-58-7	206.3685	1706.29	0.3800	629.91	1706.29	2	1277.56	122.093
35563	C39H79Br	1-bromononatriacontane	62108-54-7	126.4758	1091.72	0.3800	357.25	1091.72	1,2	816.15	74.957
35564	C39H79Cl	1-chlorononatriacontane	62016-91-5	124.7248	1073.56	0.3800	357.15	1073.56	1,2	804.15	73.756
35565	C39H79F	1-fluorononatriacontane	62108-93-4	119.7699	1035.28	0.3800	359.15	1035.28	1,2	775.15	70.859
35566	C39H79I	1-iodononatriacontane	62154-90-9	123.4944	1174.54	0.3800	358.15	1174.54	1,2	836.15	76.962
35567	C39H80	nonatriacontane	7194-86-7	123.9928	1045.41	0.3800	353.45	1045.41	1,2	791.15	72.456
35568	C39H81N	nonatriacontylamine	66576-42-9	127.2122	1115.25	0.3800	362.15	1115.25	1,2	827.15	76.059
35569	C39H81N	methyloctatriacontylamine	66576-46-3	120.9799	1065.67	0.3800	345.15	1065.67	1,2	790.15	72.356
35570	C39H81N	ethylheptatriacontylamine	66576-45-2	122.1494	1075.11	0.3800	581.45	1075.11	1,2	797.15	73.056
35571	C39H81N	dimethylheptatriacontylamine	66576-44-1	122.8358	1053.87	0.3800	561.26	1053.87	1,2	791.15	72.456
35572	C39H81N	diethylpentatriacontylamine	66576-43-0	118.1008	1016.58	0.3800	561.26	1016.58	1,2	763.15	69.663
35573	C39H81N	tritridecylamine	5910-77-0	114.2222	985.94	0.3800	561.26	985.94	1,2	740.15	67.375
35615	C40H74	tetratriacontylbenzene	61828-31-7	127.8728	1029.38	0.3800	350.15	1029.38	1,2	795.15	72.856
35616	C40H78	1-tetracontyne	---	125.2238	1041.84	0.3800	356.15	1041.84	1,2	793.15	72.656
35617	C40H80	pentatriacontylcyclopentane	61827-98-3	127.1223	1043.89	0.3800	347.15	1043.89	1,2	799.15	73.256
35618	C40H80	tetratriacontylcyclohexane	61828-19-1	128.1206	1039.83	0.3800	350.85	1039.83	1,2	800.15	73.356
35619	C40H80	1-tetracontene	61868-18-6	123.8765	1059.09	0.3800	352.95	1059.09	1,2	796.15	72.956
35620	C40H80Br2	1,1-dibromotetracontane	62168-19-8	128.0929	1154.67	0.3800	644.66	1154.67	1,2	844.15	77.765
35621	C40H80Cl2	1,1-dichlorotetracontane	62017-42-9	126.5265	1131.86	0.3800	584.90	1131.86	1,2	831.15	76.460
35622	C40H80F2	1,1-difluorotetracontane	62126-89-0	115.1649	1040.24	0.3800	589.36	1040.24	1,2	763.15	69.663
35623	C40H80I2	1,1-diiodotetracontane	66576-47-4	207.2256	1760.88	0.3800	641.18	1760.88	2	1300.44	124.472
35626	C40H81Br	1-bromotetracontane	62108-55-8	125.5667	1115.11	0.3800	355.25	1115.11	1,2	822.15	75.558
35627	C40H81Cl	1-chlorotetracontane	62016-92-6	123.8514	1096.50	0.3800	357.15	1096.50	1,2	810.15	74.356
35628	C40H81F	1-fluorotetracontane	62108-94-5	118.9656	1057.73	0.3800	358.15	1057.73	1,2	781.15	71.458
35629	C40H81I	1-iodotetracontane	62154-91-0	122.4527	1204.29	0.3800	357.25	1204.29	1,2	842.15	77.564
35630	C40H82	tetracontane	4181-95-7	123.3585	1068.24	0.3800	354.65	1068.24	1,2	798.15	73.156
35631	C40H83N	tetracontylamine	66576-50-9	126.2532	1139.81	0.3800	363.15	1139.81	1,2	833.15	76.661
35632	C40H83N	methylnonatriacontylamine	66576-36-1	120.1113	1089.54	0.3800	346.15	1089.54	1,2	796.15	72.956
35633	C40H83N	ethyloctatriacontylamine	66576-53-2	121.2636	1099.12	0.3800	592.72	1099.12	1,2	803.15	73.656
35634	C40H83N	dieicosylamine	3071-00-9	120.6051	1093.64	0.3800	353.15	1093.64	1,2	799.15	73.256
35635	C40H83N	dimethyloctatriacontylamine	66576-52-1	122.0015	1076.31	0.3800	352.15	1076.31	1,2	797.15	73.056
35636	C40H83N	diethylhexatriacontylamine	66576-51-0	117.3343	1038.51	0.3800	572.53	1038.51	1,2	769.15	70.261
35656	C41H76	pentatriacontylbenzene	61828-32-8	127.1786	1048.44	0.3800	352.15	1048.44	1,2	801.15	73.456
35658	C41H82	hexatriacontylcyclopentane	61827-99-4	126.3589	1064.12	0.3800	348.15	1064.12	1,2	805.15	73.856
35659	C41H82	pentatriacontylcyclohexane	61828-20-4	127.5599	1060.75	0.3800	352.25	1060.75	1,2	807.15	74.056
35660	C41H84	n-hentetracontane	7194-87-8	122.7466	1089.24	0.3800	353.90	1089.24	1,2	804.15	73.756
35703	C42H78	hexatriacontylbenzene	61828-33-9	126.2290	1067.60	0.3800	353.15	1067.60	1,2	806.15	73.956
35705	C42H84	hexatriacontylcyclohexane	61828-21-5	126.4044	1079.19	0.3800	353.55	1079.19	1,2	811.15	74.456
35708	C42H86	n-dotetracontane	7098-20-6	122.2417	1110.24	0.3800	356.10	1110.24	1,2	810.15	74.356
35709	C42H87N	tritetradecylamine	27911-72-4	111.7803	1054.03	0.3800	306.15	1054.03	1,2	757.15	69.066
35735	C43H88	tritetracontane	7098-21-7	121.6760	1131.24	0.3800	358.65	1131.24	1,2	815.65	74.907
35763	C44H90	n-tetratetracontane	7098-22-8	121.2022	1152.24	0.3800	359.15	1152.24	1,2	821.15	75.458
35774	C45H92	n-pentatetracontane	7098-23-9	120.9558	1173.24	0.3800	360.00	1173.24	1,2	827.15	76.059
35775	C45H93N	tripentadecylamine	66576-66-7	114.3394	1076.51	0.3800	628.88	1137.76	1,2	773.15	70.660
35788	C46H94	n-hexatetracontane	7098-24-0	120.4897	1194.24	0.3800	361.00	1194.24	1,2	832.15	76.561
35798	C47H96	n-heptatetracontane	7098-25-1	120.0957	1215.24	0.3800	361.20	1215.24	1,2	837.15	77.062
35816	C48H98	n-octatetracontane	7098-26-2	120.0372	1236.24	0.3800	361.40	1236.24	1,2	843.15	77.665
35817	C48H99N	trihexadecylamine	28947-77-5	113.6303	1133.51	0.3800	316.15	1244.11	1,2	789.15	72.256
35823	C49H100	n-nonatetracontane	7098-27-3	119.4950	1257.24	0.3800	363.00	1257.24	1,2	847.15	78.067
35831	C50H102	n-pentacontane	6596-40-3	119.2760	1278.24	0.3800	365.30	1278.24	1,2	852.15	78.569

Table 7 Enthalpy of Vaporization - Organic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
35838	C51H104	n-henpentacontane	7667-76-7	119.1047	1299.24	0.3800	366.00	1299.24	1,2	857.15	79.072
35839	C51H105N	triheptadecylamine	66575-83-5	114.3266	1171.51	0.3800	696.50	1378.45	1,2	803.15	73.656
35847	C52H106	n-dopentacontane	7719-79-1	118.7277	1320.24	0.3800	367.00	1320.24	1,2	861.15	79.474
35849	C53H108	n-tripentacontane	'7719-80-4	118.6434	1341.24	0.3800	367.50	1341.24	1,2	866.15	79.977
35869	C54H110	n-tetrapentacontane	5856-66-6	118.3549	1362.24	0.3800	368.00	1362.24	1,2	870.15	80.380
35871	C54H111N	trioctadecylamine	102-88-5	113.4241	1229.51	0.3800	327.15	1555.88	1,2	816.15	74.957
35880	C55H112	n-pentapentacontane	5846-40-2	118.1074	1383.24	0.3800	368.50	1383.24	1,2	874.15	80.783
35891	C56H114	n-hexapentacontane	7719-82-6	117.8973	1404.24	0.3800	369.00	1404.24	1,2	878.15	81.186
35900	C57H116	n-heptapentacontane	5856-67-7	117.7217	1425.24	0.3800	369.70	1425.24	1,2	882.15	81.589
35901	C57H117N	trinonadecylamine	66575-72-2	112.9731	1286.51	0.3800	764.12	1802.35	1,2	829.15	76.260
35904	C58H118	n-octapentacontane	7667-78-9	117.5777	1446.24	0.3800	370.00	1446.24	1,2	886.15	81.992
35908	C59H120	n-nonapentacontane	7667-79-0	117.4630	1467.24	0.3800	371.00	1467.24	1,2	890.15	82.396
35922	C60H122	n-hexacontane	7667-80-3	117.1575	1488.24	0.3800	372.10	1488.24	1,2	893.15	82.698
35923	C60H123N	trieicosylamine	45324-58-1	112.5760	1343.51	0.3800	335.15	2161.84	1,2	841.15	77.464
35925	C61H124	n-henhexacontane	7667-81-4	117.0979	1509.24	0.3800	373.00	1509.24	1,2	897.15	83.102
35932	C62H126	n-dohexacontane	7719-83-7	117.0614	1530.24	0.3800	375.00	2539.78	1,2	901.15	83.506
35940	C63H128	n-trihexacontane	7719-84-8	116.8370	1551.24	0.3800	375.10	2750.15	1,2	904.15	83.809
35943	C64H130	n-tetrahexacontane	7719-87-1	116.6378	1572.24	0.3800	375.20	3003.81	1,2	907.15	84.112
35944	C65H132	n-pentahexacontane	7719-88-2	116.4620	1593.24	0.3800	376.00	3315.41	1,2	910.15	84.415
35949	C66H134	n-hexahexacontane	7719-89-3	116.5101	1614.24	0.3800	376.80	3711.11	1,2	914.15	84.819
35952	C67H136	n-heptahexacontane	7719-90-6	116.3744	1635.24	0.3800	377.30	4218.32	1,2	917.15	85.123
35956	C68H138	n-octahexacontane	7719-91-7	116.2580	1656.24	0.3800	377.70	4899.66	1,2	920.15	85.426
35958	C69H140	n-nonahexacontane	7719-92-8	116.1597	1677.24	0.3800	378.10	5862.68	1,2	923.15	85.729
35960	C70H142	n-heptacontane	7719-93-9	116.0783	1698.24	0.3800	378.40	7326.47	1,2	926.15	86.033
35961	C71H144	n-henheptacontane	7667-82-5	115.8212	1719.24	0.3800	373.80	1719.24	1,2	928.15	86.236
35968	C72H146	n-doheptacontane	7667-83-6	115.7725	1740.24	0.3800	374.60	1740.24	1,2	931.15	86.539
35970	C73H148	n-triheptacontane	7667-84-7	115.7380	1761.24	0.3800	375.40	1761.24	1,2	934.15	86.843
35972	C74H150	n-tetraheptacontane	7667-85-8	115.5302	1782.24	0.3800	376.20	1782.24	1,2	936.15	87.046
35975	C75H152	n-pentaheptacontane	7667-86-9	115.5230	1803.24	0.3800	377.00	1803.24	1,2	939.15	87.350
35977	C76H154	n-hexaheptacontane	7667-87-0	115.3443	1824.24	0.3800	377.80	1824.24	1,2	941.15	87.552
35979	C77H156	n-heptaheptacontane	7719-94-0	115.3615	1845.24	0.3800	378.60	1845.24	1,2	944.15	87.856
35980	C78H158	n-octaheptacontane	7719-85-9	115.2088	1866.24	0.3800	379.40	1866.24	1,2	946.15	88.059
35982	C79H160	n-nonaheptacontane	7719-86-0	115.2478	1887.24	0.3800	380.20	1887.24	1,2	949.15	88.363
35984	C80H162	n-octacontane	7667-88-1	115.1186	1908.24	0.3800	381.00	1908.24	1,2	951.15	88.566
35985	C81H164	n-henoctacontane	7667-89-2	115.0010	1929.24	0.3800	382.00	1929.24	1,2	953.15	88.769
35986	C82H166	n-dooctacontane	7719-95-1	114.8942	1950.24	0.3800	383.50	1950.24	1,2	955.15	88.972
35987	C83H168	n-trioctacontane	7667-90-5	114.7979	1971.24	0.3800	383.80	1971.24	1,2	957.15	89.175
35990	C84H170	n-tetraoctacontane	7667-91-6	114.7114	1992.24	0.3800	384.10	1992.24	1,2	959.15	89.378
35991	C85H172	n-pentaoctacontane	7719-96-2	114.6344	2013.24	0.3800	384.40	2013.24	1,2	961.15	89.581
35992	C86H174	n-hexaoctacontane	7667-92-7	114.5663	2034.24	0.3800	384.70	2034.24	1,2	963.15	89.784
35993	C87H176	n-heptaoctacontane	7667-93-8	114.5068	2055.24	0.3800	385.00	2055.24	1,2	965.15	89.987
35998	C88H178	n-octaoctacontane	7667-94-9	114.4554	2076.24	0.3800	385.30	2076.24	1,2	967.15	90.190
36000	C89H180	n-nonaoctacontane	7719-76-8	114.4119	2097.24	0.3800	385.60	2097.24	1,2	969.15	90.393
36002	C90H182	n-nonacontane	7667-51-8	114.3758	2118.24	0.3800	385.90	2118.24	1,2	971.15	90.596
36003	C91H184	n-hennonacontane	7719-97-3	114.3468	2139.24	0.3800	386.20	2139.24	1,2	973.15	90.800
36004	C92H186	n-dononacontane	7667-95-0	114.3247	2160.24	0.3800	386.50	2160.24	1,2	975.15	91.003
36005	C93H188	n-trinonacontane	7667-96-1	114.3091	2181.24	0.3800	386.80	2181.24	1,2	977.15	91.206
36006	C94H190	n-tetranonacontane	1574-32-9	114.1372	2202.24	0.3800	387.40	2202.24	1,2	978.15	91.308
36008	C95H192	n-pentanonacontane	7667-97-2	114.1347	2223.24	0.3800	387.50	2223.24	1,2	980.15	91.511
36010	C96H194	n-hexanonacontane	7763-13-5	114.1379	2244.24	0.3800	387.60	2244.24	1,2	982.15	91.714
36011	C97H196	n-heptanonacontane	7670-25-9	113.9865	2265.24	0.3800	387.70	2265.24	1,2	983.15	91.816
36012	C98H198	n-octanonacontane	7670-26-0	114.0013	2286.24	0.3800	387.80	2286.24	1,2	985.15	92.020
36013	C99H200	n-nonanonacontane	7670-27-1	113.8626	2307.24	0.3800	387.90	2307.24	1,2	986.15	92.121
36014	C100H202	n-hectane	6703-98-6	113.8880	2328.24	0.3800	388.40	2328.24	1,2	988.15	92.325

code: 1 - data, 2 - estimate

HVAP - enthalpy of vaporization, kjoule/mol

A, T_c, and n - regression coefficients of chemical compound

T- temperature, K

TMAX - maximum temperature, K

TMIN - minimum temperature, K

Chapter 8

ENTHALPY OF VAPORIZATION – INORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 8. For the tabulation, a modified Watson equation was selected for enthalpy of vaporization as a function of temperature:

$$\Delta H_{vap} = A\,(1 - T/T_C)^n \qquad (8)$$

where ΔH_{vap} = enthalpy of vaporization, kjoule/mol
A, T_C, and n = regression coefficients for chemical compound
T = temperature, K

The tabulation is arranged by alphabetical order (Ag, Al, Ar, ..., Zr) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for regression coefficients are given in the adjacent columns. The temperature range for use is given in the next columns (TMIN and TMAX). The equation should not be used for temperatures outside this range. The next column provides the code for the tabulation. The last two columns provide a representative temperature and a value for enthalpy of vaporization at the representative temperature.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-35). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (1-2), Daubert and Danner (3), Lange's Handbook (8-9), web sites (18-20), and Yaws (21-35) were used extensively for enthalpy of vaporization. The Kistiakowsky rule (13) and Riedel method (13) were primarily used for estimates of enthalpy of vaporization at the boiling point. Estimates for critical temperature were primarily based on the Gates-Thodos metod (10) and Grosse equation (10).

For the inorganic compounds, most of the data for enthalpy of vaporization and critical temperature are only available for compounds with low boiling points. The data available for compounds with high boiling points (normal boiling points in the range of 1200 K and greater) is very meager. In the absence of data, the estimates for enthalpy of vaporization and critical temperature should be considered rough approximations for those compounds with very high normal boiling points and very high critical temperatures.

A comparison of calculated and data values is shown in Figure 8 for a representative compound. The graph shows favorable agreement of equation and data.

Example

In an engineering analysis, the enthalpy of vaporization is needed for nitrogen (N2) at 90.00 K. Determine the enthalpy of vaporization of nitrogen at this temperature.

Substitution of the coefficients from the tabulation and temperature into the above equation yields:

$$HVAP = 7.4905\,(1-90.00/126.20)^{0.3130}$$

HVAP = 5.067 kjoule/mol

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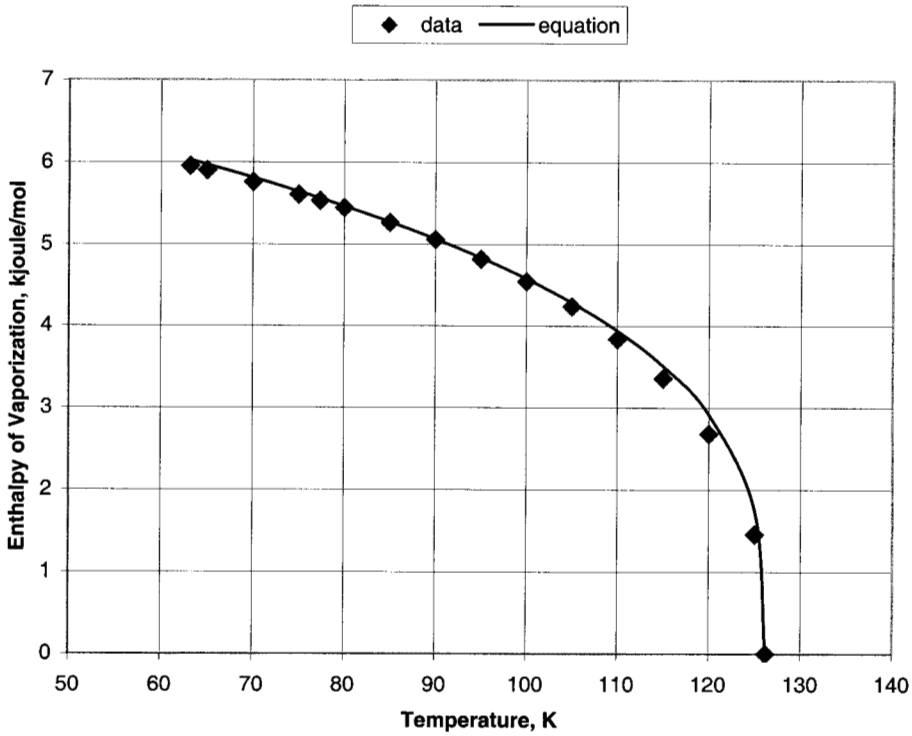


Figure 8 Enthalpy of Vaporization for Nitrogen

Table 8 Enthalpy of Vaporization - Inorganic Compounds

			HVAP = A (1 - T/T_c)^n				(HVAP - kjoule/mol, T - K)				
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
1	Ac	actinium	7440-34-8	461.9113	11010.67	0.3800	1324.15	11010.67	1,2	3471.15	400.000
13	Ag	silver	7440-22-4	317.0206	6410.00	0.4200	1234.00	6410.00	1,2	2485.00	258.000
35	AgCl	silver (i) chloride	7783-90-6	284.1440	2992.10	0.3800	728.15	2992.10	1,2	1820.15	199.000
45	AgI	silver (i) iodide	7783-96-2	206.6129	2897.64	0.3800	825.15	2897.64	1,2	1779.15	143.900
77	Al	aluminum	7429-90-5	336.7166	9300.00	0.3800	933.45	9300.00	1,2	2790.81	294.023
80	AlB3H12	aluminum borohydride	16962-07-5	43.2569	513.77	0.3800	209.15	513.77	1,2	317.65	30.000
82	AlBr3	aluminum bromide	7727-15-3	36.7728	763.00	0.3800	390.15	763.00	1,2	528.15	23.500
86	AlC2H6Cl	aluminum, dimethyl chloride	1184-58-3	53.6930	619.00	0.4360	252.15	619.00	1,2	399.15	34.190
88	AlC3H9	aluminum, trimethyl	75-24-1	56.5000	620.00	0.4309	288.43	620.00	1,2	400.27	36.135
96	AlC6H15	aluminum, triethyl	97-93-8	92.8640	678.15	0.3787	220.65	678.15	1,2	467.15	59.682
127	AlCl3	aluminum chloride	7446-70-0	98.6870	629.00	0.6838	465.70	629.00	1,2	453.15	41.284
134	AlF3	aluminum fluoride	7784-18-1	267.3381	2948.13	0.3800	1313.15	2948.13	1,2	1549.15	201.392
146	AlI3	aluminum iodide	7784-23-8	48.8731	983.00	0.3800	464.15	983.00	1,2	655.15	32.200
167	Al2O3	aluminum oxide	1344-28-1	865.6965	5335.00	0.3800	2325.00	5335.00	1,2	3253.15	605.432
200	Ar	argon	7440-37-1	8.7290	150.86	0.3520	83.80	150.86	1,2	87.28	6.440
202	As	arsenic	7440-38-3	42.5463	1673.15	0.3800	1090.15	1673.15	1,2	888.00	31.915
203	AsBr3	arsenic (iii) bromide	7784-33-0	60.7594	789.01	0.3800	306.15	789.01	1,2	494.15	41.800
228	AsCl3	arsenic trichloride	7784-34-1	50.3888	654.00	0.3800	255.15	654.00	1,2	403.15	35.010
230	AsF3	arsenic trifluoride	7784-35-2	43.0791	530.21	0.3800	267.25	530.21	1,2	330.95	29.700
231	AsF5	arsenic pentafluoride	7784-36-3	29.9229	357.73	0.3800	193.35	357.73	1,2	220.35	20.800
234	AsH3	arsine	7784-42-1	22.1700	373.00	0.3559	156.28	373.00	1,2	210.67	16.489
238	AsI3	arsenic triiodide	7784-45-4	86.7987	1101.22	0.3800	419.15	1101.22	1,2	697.15	59.300
245	As2O3	arsenic trioxide	1327-53-3	77.0140	1200.00	0.3493	551.00	1200.00	1,2	740.30	55.083
255	At	astatine	7440-68-8	121.4967	1096.37	0.3800	575.15	1096.37	1,2	607.00	89.422
256	Au	gold	7440-57-5	519.6203	4398.00	0.3800	1337.33	4398.00	1,2	3129.15	324.000
283	B	boron	7440-42-8	643.9806	7934.59	0.3800	2348.15	7934.59	1,2	4273.15	480.000
285	BBr3	boron tribromide	10294-33-4	44.3554	581.00	0.3800	228.15	581.00	1,2	364.15	30.500
361	BCl3	boron trichloride	10294-34-5	37.2130	451.95	0.4479	166.15	451.95	1,2	285.65	23.780
363	BF3	boron trifluoride	7637-07-2	29.1480	260.90	0.3809	144.79	260.90	1,2	173.35	19.230
372	BI3	boron triiodide	13517-10-7	58.7946	773.00	0.3800	316.15	773.00	1,2	483.15	40.500
391	B2D6	diborane, deutero	20396-66-1	18.1141	293.74	0.3800	150.00	293.74	1,2	180.65	12.604
392	B2F4	diborane, tetrafluoro	13965-73-6	42.0030	364.54	0.3800	217.15	364.54	1,2	239.15	28.000
393	B2H5Br	diborane hydrobromide	---	33.7988	466.98	0.3800	168.95	466.98	1,2	289.45	23.404
394	B2H6	diborane	19287-45-7	20.7820	289.80	0.3828	107.65	289.80	1,2	180.65	14.301
401	B3N3H6	borazine	6569-51-3	46.6349	521.20	0.3800	214.95	521.20	1,2	326.15	32.100
404	B4H10	tetraborane	18283-93-7	39.2966	466.66	0.3800	153.25	466.66	1,2	291.15	27.100
405	B5H9	pentaborane	19624-22-7	34.1949	568.45	0.3800	226.35	568.45	1,2	333.15	24.457
406	B5H11	pentaborane	18433-84-6	45.6762	547.13	0.3800	225.00	547.13	1,2	336.15	31.800
413	B10H14	decaborane	---	61.4648	791.78	0.3800	372.75	791.78	1,2	486.15	42.809
416	Ba	barium	7440-39-3	199.7462	3572.13	0.3800	1000.15	3572.13	1,2	2170.15	140.000
530	Be	beryllium	7440-41-7	322.4100	5205.00	0.1171	1556.00	5205.00	1,2	2757.00	295.145
534	BeBr2	beryllium bromide	7787-46-4	149.3156	1216.86	0.3800	763.15	1216.86	1,2	793.15	100.000
541	BeCl2	beryllium chloride	7787-47-5	150.1648	1238.03	0.3800	678.15	1238.03	1,2	755.15	105.000
550	BeI2	beryllium iodide	7787-53-3	101.2245	1238.03	0.3800	761.15	1238.03	1,2	760.15	70.500
562	Bi	bismuth	7440-69-9	167.7816	4620.00	0.2079	544.54	4620.00	1,2	1837.15	151.000
564	BiBr3	bismuth tribromide	7787-58-8	106.3217	1220.00	0.3800	491.15	1220.00	1,2	726.15	75.400
576	BiCl3	bismuth trichloride	7787-60-2	103.9817	1178.00	0.3800	503.15	1178.00	1,2	720.15	72.610
626	BrF3	bromine trifluoride	7787-71-5	68.2932	649.89	0.3800	281.92	649.89	1,2	398.95	47.570
628	BrF5	bromine pentafluoride	7789-30-2	46.5196	470.00	0.3800	211.75	470.00	1,2	313.65	30.619
633	Br2	bromine	7726-95-6	42.9929	584.15	0.4300	265.90	584.15	1,2	331.90	29.963
641	CCl2O	carbonyl chloride	75-44-5	35.6000	455.00	0.3780	145.37	455.00	1,2	280.71	24.770
642	CF2O	carbonyl fluoride	353-50-4	25.9139	297.00	0.4660	161.89	297.00	1,2	190.05	16.100
644	CH4N2O	urea	57-13-6	87.8640	705.00	0.3800	298.10	705.00	1,2	465.00	58.342
645	CH4N2S	thiourea	62-56-6	81.1300	854.00	0.3969	452.20	854.00	1,2	453.00	60.102
646	CNBr	cyanogen bromide	506-68-3	44.6822	545.03	0.3800	331.15	545.03	1,2	334.65	31.120
647	CNCl	cyanogen chloride	506-77-4	38.0900	449.00	0.3450	266.65	449.00	1,2	286.00	26.853
648	CNF	cyanogen fluoride	1495-50-7	31.7760	368.51	0.3800	217.00	368.51	1,2	227.15	22.079
651	CN4O8	tetranitromethane	509-14-8	58.4840	540.00	0.3800	285.65	540.00	1,2	398.85	35.125
652	CO	carbon monoxide	630-08-0	8.0030	132.92	0.3180	68.15	132.92	1,2	81.70	5.910
653	COS	carbonyl sulfide	463-58-1	25.7000	378.80	0.3632	134.31	378.80	1,2	223.00	18.612
654	COSe	carbon oxyselenide	1603-84-5	36.2982	406.58	0.3800	160.00	406.58	1,2	251.65	25.157
655	CO2	carbon dioxide	124-38-9	22.5763	304.19	0.3800	216.58	304.19	1,2	194.70	15.312
656	CS2	carbon disulfide	75-15-0	36.9608	552.00	0.3800	161.11	552.00	1,2	319.15	26.625
661	C2N2	cyanogen	460-19-5	34.9382	399.90	0.3800	238.75	399.90	1,2	252.05	23.938
675	Ca	calcium	7440-70-2	207.4447	3267.00	0.3801	1115.00	3267.00	1,2	1757.00	154.706
728	CaF2	calcium fluoride	7789-75-5	443.5214	4570.85	0.3800	2806.50	4570.85	1,2	2806.50	308.900
776	Cd	cadmium	7440-43-9	125.6917	2291.00	0.3800	594.05	2291.00	1,2	1040.15	99.870
791	CdCl2	cadmium chloride	10108-64-2	177.8659	2019.79	0.3800	841.15	2019.79	1,2	1233.15	124.300
798	CdF2	cadmium fluoride	7790-79-6	306.9885	3296.66	0.3800	793.15	3296.66	1,2	2021.15	214.000
804	CdI2	cadmium iodide	7790-80-9	160.3397	1741.29	0.3800	658.15	1741.29	1,2	1015.15	115.000
809	CdO	cadmium oxide	1306-19-0	339.5456	2983.96	0.3800	1732.00	2983.96	1,2	1832.15	236.484
830	Ce	cerium	7440-45-1	458.2284	11993.80	0.3800	1071.15	11993.80	1,2	3716.15	398.000
891	ClF	chlorine monofluoride	7790-89-8	34.3051	282.32	0.3800	128.15	282.32	1,2	172.05	24.000
892	ClFO3	perchloryl fluoride	7616-94-6	27.7560	368.40	0.3795	125.41	368.40	1,2	226.49	19.325
893	ClF3	chlorine trifluoride	7790-91-2	39.7706	459.39	0.3800	190.15	459.39	1,2	284.90	27.530
894	ClF5	chlorine pentafluoride	13637-63-3	33.1850	415.90	0.3800	200.00	415.90	1,2	260.05	22.854
896	ClNO2	nitryl chloride	13444-90-1	38.4501	394.96	0.3800	128.15	394.96	1,2	258.15	25.700
898	ClO2	chlorine dioxide	10049-04-4	43.0728	465.00	0.3830	213.55	465.00	1,2	284.05	30.006
899	Cl2	chlorine	7782-50-5	28.5600	417.15	0.3900	172.12	417.15	1,2	239.12	20.490
900	Cl2O	chlorine monoxide	7791-21-1	37.3800	444.68	0.3800	157.15	444.68	1,2	275.35	25.900

Table 8 Enthalpy of Vaporization - Inorganic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
905	Cl2O7	chlorine heptoxide	10294-48-1	50.4978	565.78	0.3800	182.15	565.78	1,2	355.15	34.690
916	Co	cobalt	7440-48-4	467.5697	7398.48	0.3800	1768.15	7398.48	1,2	3200.15	377.000
968	CoCl2	cobalt chloride	7646-79-9	209.5324	2154.97	0.3800	1008.15	2154.97	1,2	1322.15	146.000
1002	CoNC3O4	cobalt nitrosyl tricarbonyl	14096-82-3	42.8977	567.68	0.3800	262.15	567.68	1,2	320.00	31.301
1035	Cr	chromium	7440-47-3	398.4671	8560.93	0.3800	2180.15	8560.93	1,2	2944.15	339.500
1099	CrO2Cl2	chromium oxychloride	14977-61-8	50.8464	626.33	0.3800	176.65	626.33	1,2	390.15	35.100
1124	Cs	cesium	7440-46-2	80.8153	2048.10	0.3800	301.65	2048.10	1,2	944.15	63.900
1128	CsBr	cesium bromide	7787-69-1	216.8074	2562.13	0.3800	909.15	2562.13	1,2	1573.15	151.000
1137	CsCl	cesium chloride	7647-17-8	165.0717	2562.13	0.3800	919.15	2562.13	1,2	1570.15	115.100
1140	CsF	cesium fluoride	13400-13-0	165.8360	2482.33	0.3800	956.15	2482.33	1,2	1524.15	115.500
1144	CsI	cesium iodide	7789-17-5	215.6586	2529.56	0.3800	894.15	2529.56	1,2	1553.15	150.200
1169	Cu	copper	7440-50-8	408.0719	5123.00	0.3800	1357.77	5123.00	1,2	2835.15	300.400
1173	CuBr	cuprous bromide	7787-70-4	293.8106	2651.71	0.3800	777.15	2651.71	1,2	1618.15	205.388
1229	CuCl	cuprous chloride	7758-89-6	88.0846	2435.00	0.3800	1079.50	2435.00	1,2	1763.15	54.000
1230	CuCl2	cupric chloride	7447-39-4	230.4402	2010.00	0.3800	906.15	2010.00	1,2	1266.15	157.946
1255	CuI	copper iodide	7681-65-4	289.6027	2620.77	0.3800	878.15	2620.77	1,2	1609.15	201.700
1302	D2	deuterium	7782-39-0	1.6570	38.35	0.3520	18.73	38.35	1,2	23.65	1.182
1303	D2O	deuterium oxide	7789-20-0	59.6720	643.89	0.4054	276.96	643.89	1,2	374.55	41.910
1369	Eu	europium	7440-53-1	207.2948	5150.00	0.3800	1095.15	5150.00	1,2	1802.15	176.000
1406	FNO	nitrosyl fluoride	7789-25-5	27.4324	352.67	0.3800	139.15	352.67	1,2	213.25	19.280
1407	FNO2	nitryl fluoride	10022-50-1	24.9720	349.50	0.3800	107.15	349.50	1,2	200.75	18.050
1409	F2	fluorine	7782-41-4	8.8757	144.12	0.3407	53.54	144.12	1,2	84.95	6.553
1412	F2O	fluorine oxide	7783-41-7	15.6635	215.10	0.3800	49.25	215.10	1,2	128.40	11.090
1413	F2O2	difluorine dioxide	7783-44-0	28.1320	338.24	0.3800	119.15	338.24	1,2	216.15	19.100
1420	Fe	iron	7439-89-6	397.1278	9340.00	0.3800	1811.00	9340.00	1,2	3133.35	340.000
1434	FeC5O5	iron pentacarbonyl	13463-40-6	48.6794	607.20	0.3800	252.15	607.20	1,2	376.15	33.720
1502	FeCl2	ferrous chloride	7758-94-3	37.7241	2115.88	0.3800	945.15	2115.88	1,2	1297.00	26.300
1505	FeCl3	ferric chloride	7705-08-0	62.8312	964.41	0.3800	577.15	964.41	1,2	592.15	43.760
1574	Fr	francium	7440-73-5	182.4464	1606.46	0.3800	300.15	1606.46	1,2	946.15	130.139
1575	Ga	gallium	7440-55-3	294.9301	7620.00	0.3800	302.91	7620.00	1,2	2477.15	254.000
1577	GaBr3	gallium (iii) bromide	13450-88-9	60.2985	806.70	0.3800	394.65	806.70	1,2	552.15	38.900
1578	GaC3H9	gallium, trimethyl	1445-79-0	52.6200	510.00	0.5349	257.45	510.00	1,2	328.95	30.239
1585	GaCl3	gallium trichloride	13450-90-3	34.0144	694.00	0.3070	350.90	694.00	1,2	474.15	23.900
1593	GaI3	gallium (iii) iodide	13450-91-4	83.7225	951.00	0.3800	485.15	951.00	1,2	613.15	56.500
1637	Ge	germanium	7440-56-4	369.6293	9803.00	0.2660	1210.40	9803.00	1,2	3100.00	334.082
1639	GeBr4	germanium bromide	13450-92-5	59.8541	740.00	0.3800	299.25	740.00	1,2	459.50	41.400
1661	GeCl4	germanium chloride	10038-98-9	40.5697	574.00	0.3800	223.65	574.00	1,2	359.70	27.900
1668	GeHCl3	germane, trichloro	1184-65-2	41.8769	559.78	0.3800	202.05	559.78	1,2	348.45	28.921
1675	GeH4	germane	7782-65-2	17.5322	312.20	0.2457	107.26	312.20	1,2	185.00	14.061
1686	Ge2H6	digermane	13818-89-8	36.2189	491.01	0.3800	164.15	491.01	1,2	303.95	25.100
1687	Ge3H8	trigermane	14691-44-2	46.6229	616.37	0.3800	167.55	616.37	1,2	383.65	32.200
1691	HBr	hydrogen bromide	10035-10-6	25.3000	363.15	0.4010	186.34	363.15	1,2	206.45	18.061
1694	HCN	hydrogen cyanide	74-90-8	41.4470	456.65	0.3870	259.83	456.65	1,2	299.15	27.452
1695	HCl	hydrogen chloride	7647-01-0	22.0930	324.65	0.3466	158.97	324.65	1,2	188.15	16.362
1696	HClO3S	chlorosulfonic acid	7790-94-5	61.5600	700.00	0.4432	193.15	700.00	1,2	427.00	40.555
1697	HClO4	perchloric acid	7601-90-3	38.2070	631.00	0.3800	273.15	631.00	1,2	385.00	26.711
1698	HF	hydrogen fluoride	7664-39-3	11.0420	461.15	0.3800	189.79	461.15	1,2	292.67	7.531
1699	HI	hydrogen iodide	10034-85-2	27.4557	423.85	0.4000	222.38	423.85	1,2	237.55	19.762
1702	HNO3	nitric acid	7697-37-2	70.1000	520.00	0.6866	231.55	520.00	1,2	356.15	31.721
1709	H2	hydrogen	1333-74-0	1.3962	33.18	0.4560	13.95	33.18	1,2	20.39	0.904
1712	H2O	water	7732-18-5	54.0000	647.13	0.3400	273.15	647.13	1,2	373.15	40.316
1713	H2O2	hydrogen peroxide	7722-84-1	61.5220	730.15	0.3201	272.73	730.15	1,2	423.35	46.612
1714	H2S	hydrogen sulfide	7783-06-4	25.6760	373.53	0.3736	187.68	373.53	1,2	212.80	18.738
1716	H2SO4	sulfuric acid	7664-93-9	75.5926	925.00	0.3800	599.10	925.00	1,2	610.00	50.200
1718	H2S2	hydrogen disulfide	13465-07-1	49.8037	542.39	0.3800	183.45	542.39	1,2	343.85	33.994
1719	H2Se	hydrogen selenide	7783-07-5	27.5045	411.15	0.4020	207.45	411.15	1,2	231.15	19.733
1721	H2Te	hydrogen telluride	7783-09-7	27.7047	438.04	0.3800	224.15	438.04	1,2	271.15	19.200
1722	H3NO	hydroxylamine	7803-49-8	83.4874	574.00	0.3800	306.25	574.00	1,2	383.00	54.958
1738	He	helium-3	14762-55-1	0.0352	3.31	0.1000	3.20	3.31	1,2	3.20	0.025
1739	He	helium-4	7440-59-7	0.1035	5.20	0.1300	2.20	5.20	1,2	4.22	0.083
1740	Hf	hafnium	7440-58-6	629.0217	21688.00	0.3800	2506.15	21688.00	1,2	4876.15	571.000
1771	Hg	mercury	7439-97-6	70.2660	1735.00	0.3799	234.29	1735.00	1,2	629.84	59.200
1773	HgBr2	mercuric bromide	7789-47-1	84.8154	964.41	0.3800	510.15	964.41	1,2	595.15	58.890
1800	HgCl2	mercuric chloride	7487-94-7	84.5694	939.98	0.3800	550.15	939.98	1,2	577.15	58.900
1813	HgI2	mercuric iodide	7774-29-0	82.4448	1078.10	0.3800	532.15	1078.10	1,2	627.15	59.200
1868	IF5	iodine pentafluoride	7783-66-6	60.1801	594.33	0.3800	282.58	594.33	1,2	373.65	41.300
1869	IF7	iodine heptafluoride	16921-96-3	31.6388	447.53	0.3800	278.65	447.53	1,2	277.95	21.881
1873	I2	iodine	7553-56-2	57.1980	819.15	0.3812	386.75	819.15	1,2	457.56	41.878
1877	In	indium	7440-74-6	272.7824	6730.00	0.3800	429.75	6730.00	1,2	2345.15	231.800
1917	Ir	iridium	7439-88-5	649.2143	15035.00	0.3800	2719.15	15035.00	1,2	4701.15	563.000
1960	K	potassium	7440-09-7	97.4353	2223.00	0.3798	336.35	2223.00	1,2	1031.00	76.900
1972	KBr	potassium bromide	7758-02-3	213.9888	2697.31	0.3800	1003.15	2697.31	1,2	1653.15	149.200
2009	KCl	potassium chloride	7447-40-7	183.7779	3470.00	0.5863	1044.00	3470.00	1,2	1689.00	124.300
2018	KF	potassium fluoride	7789-23-3	203.5979	2891.12	0.3800	1153.15	2891.12	1,2	1775.15	141.800
2035	KI	potassium iodide	7681-11-0	276.2905	2601.22	0.3800	996.15	2601.22	1,2	1618.00	190.900
2047	KOH	potassium hydroxide	1310-58-3	204.8902	2605.86	0.3800	1596.00	2605.86	1,2	1600.00	142.700
2162	Kr	krypton	7439-90-9	9.9500	209.35	0.1000	115.78	209.35	1,2	119.80	9.140
2168	La	lanthanum	7439-91-0	486.0748	9511.00	0.3800	1193.15	9511.00	1,2	3737.15	402.100
2203	Li	lithium	7439-93-2	198.3286	2966.00	0.3800	453.69	2966.00	1,2	1615.00	147.100
2213	LiBr	lithium bromide	7550-35-8	153.7752	2578.42	0.3800	820.15	2578.42	1,2	1583.15	107.100

Table 8 Enthalpy of Vaporization - Inorganic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
2253	LiCl	lithium chloride	7447-41-8	299.8059	2695.68	0.3800	887.15	2695.68	1,2	1656.15	208.730
2261	LiF	lithium fluoride	7789-24-4	210.5442	3182.65	0.3800	1143.15	3182.65	1,2	1946.15	147.000
2270	LiI	lithium iodide	10377-51-2	206.4400	2370.00	0.2230	742.00	2370.00	1,2	1447.00	167.290
2316	Lu	lutetium	7439-94-3	958.3073	4128.66	0.3800	1936.15	4128.66	1,2	3675.15	414.000
2335	Mg	magnesium	7439-95-4	182.7568	2241.04	0.3800	923.15	2241.04	1,2	1363.15	128.000
2392	MgCl2	magnesium chloride	7786-30-3	223.7941	2754.32	0.3800	985.15	2754.32	1,2	1685.15	156.200
2429	MgO	magnesium oxide	1309-48-4	449.1500	5950.00	0.3173	3105.00	5950.00	1,2	3873.20	321.623
2464	Mn	manganese	7439-96-5	258.5248	6902.82	0.3800	1519.15	6902.82	1,2	2334.15	221.000
2495	MnCl2	manganese (ii) chloride	7773-01-5	213.9356	2382.98	0.3800	923.15	2382.98	1,2	1463.15	149.000
2548	Mo	molybdenum	7439-98-7	809.5042	9620.00	0.3800	2895.15	9620.00	1,2	4912.15	617.000
2567	MoCl5	molybdenum (v) chloride	10241-05-1	92.2645	850.00	0.3800	467.15	850.00	1,2	541.15	62.800
2572	MoF5	molybdenum (v) fluoride	13819-84-6	75.5887	772.50	0.3800	340.15	772.50	1,2	486.75	51.800
2573	MoF6	molybdenum fluoride	7783-77-9	41.7463	498.12	0.3800	290.15	498.12	1,2	307.15	29.000
2582	MoOF4	molybdenum (vi) oxytetrafluoride	14459-59-7	74.9278	712.86	0.3800	371.15	712.86	1,2	459.15	50.600
2585	MoO3	molybdenum oxide	1313-27-5	198.4793	2319.46	0.3800	1068.15	2319.46	1,2	1428.15	138.000
2607	NClO	nitrosyl chloride	2696-92-6	32.6787	440.65	0.2536	213.55	440.65	1,2	267.77	25.775
2608	NCl3	nitrogen trichloride	10025-85-1	43.5441	564.00	0.3800	246.15	564.00	1,2	344.15	30.440
2610	ND3	heavy ammonia	---	38.3092	388.40	0.3800	199.15	388.40	1,2	240.15	26.568
2613	NF3	nitrogen trifluoride	7783-54-2	16.4098	234.00	0.3649	66.46	234.00	1,2	144.09	11.575
2619	NH3	ammonia	7664-41-7	31.5230	405.65	0.3400	195.41	405.65	1,2	239.72	23.261
2625	NH4Br	ammonium bromide	12124-97-9	51.7296	1089.82	0.3800	793.00	1089.82	1,2	669.15	36.028
2627	NH4Cl	ammonium chloride	12125-02-9	65.8370	882.00	0.3800	793.20	882.00	1,2	612.00	41.987
2634	NH4I	ammonium iodide	12027-06-4	52.7872	1104.32	0.3800	793.00	1104.32	1,2	678.15	36.762
2674	NO	nitric oxide	10102-43-9	21.3100	180.15	0.4056	112.15	180.15	1,2	121.38	13.529
2676	NO2	nitrogen dioxide	10102-44-0	38.1160	431.35	0.3800	294.30	431.35	1,2	294.15	24.664
2678	N2	nitrogen	7727-37-9	7.4905	126.20	0.3130	63.15	126.20	1,2	77.34	5.566
2684	N2F4	tetrafluorohydrazine	10036-47-2	15.9184	309.35	0.1763	111.65	309.35	1,2	198.95	13.274
2685	N2H4	hydrazine	302-01-2	59.7940	653.15	0.4250	274.69	653.15	1,2	386.65	40.851
2686	N2H4C	ammonium cyanide	12211-52-8	47.5841	491.32	0.3800	309.15	491.32	1,2	304.85	32.929
2747	N2O	nitrous oxide	10024-97-2	23.2150	309.57	0.3840	182.33	309.57	1,2	184.67	16.383
2748	N2O3	nitrogen trioxide	10544-73-7	58.5760	425.00	0.3800	246.00	425.00	1,2	275.15	39.417
2749	N2O4	nitrogen tetraoxide	10544-72-6	58.9574	431.15	0.3800	294.25	431.15	1,2	294.31	38.119
2750	N2O5	nitrogen pentoxide	10102-03-1	87.0000	515.51	0.3800	263.00	515.51	1,2	306.15	61.774
2781	Na	sodium	7440-23-5	120.1558	2573.00	0.3516	370.95	2573.00	1,2	1156.00	97.420
2800	NaBr	sodium bromide	7647-15-6	193.6777	4287.00	0.3800	1720.00	4287.00	1,2	1663.82	160.700
2810	NaCN	sodium cyanide	143-33-9	211.8226	2900.00	0.3800	1773.10	2900.00	1,2	1769.15	148.100
2855	NaCl	sodium chloride	7647-14-5	170.7100	3400.00	0.3800	1738.00	3400.00	1,2	1738.20	130.052
2864	NaF	sodium fluoride	7681-49-4	208.4657	5530.00	0.3800	2060.00	5530.00	1,2	1982.72	176.100
2888	NaI	sodium iodide	7681-82-5	309.8138	2568.65	0.3800	924.15	2568.65	1,2	1577.00	215.789
2897	NaOH	sodium hydroxide	1310-73-2	245.3592	2820.00	0.3800	596.00	2820.00	1,2	1830.00	164.835
3019	Nb	niobium	7440-03-1	781.7197	17904.10	0.3800	2750.15	17904.10	1,2	5017.15	689.900
3034	NbCl5	niobium (v) chloride	10026-12-7	79.0589	803.50	0.3800	477.85	803.50	1,2	527.15	52.700
3037	NbF5	niobium (v) fluoride	7783-68-8	75.4605	811.32	0.3800	348.65	811.32	1,2	502.15	52.300
3057	Nd	neodymium	7440-00-8	333.4698	10665.10	0.3800	1289.15	10665.10	1,2	3347.15	289.000
3091	Ne	neon	7440-01-9	2.3890	44.40	0.3494	24.55	44.40	1,2	27.09	1.719
3092	Ni	nickel	7440-02-0	475.7837	6986.15	0.3800	1728.15	6986.15	1,2	3186.15	377.500
3105	NiC4O4	nickel carbonyl	13463-39-3	42.3573	508.40	0.3800	248.15	508.40	1,2	315.65	29.300
3198	O2	oxygen	7782-44-7	9.0080	154.58	0.3230	54.36	154.58	1,2	90.19	6.789
3199	O3	ozone	10028-15-6	18.5870	261.00	0.3042	80.15	261.00	1,2	161.85	13.847
3200	Os	osmium	7440-04-2	851.2222	16878.70	0.3800	3306.15	16878.70	1,2	5285.15	738.000
3213	OsF5	osmium (v) fluoride	31576-40-6	87.4886	939.36	0.3800	343.15	939.36	1,2	499.05	65.600
3214	OsF6	osmium (vi) fluoride	13768-38-2	38.1176	581.16	0.3800	306.35	581.16	1,2	320.65	28.100
3222	OsO4	osmium tetroxide	20816-12-0	57.2032	656.60	0.3800	315.15	656.60	1,2	408.15	39.540
3234	P	phosphorus (white)	7723-14-0	16.8981	993.75	0.3800	317.25	993.75	1,2	553.65	12.400
3238	PBr3	phosphorus tribromide	7789-60-8	56.4639	711.00	0.3800	233.15	711.00	1,2	446.10	38.800
3252	PC3H9O4	phosphate, trimethyl	512-56-1	64.1530	729.00	0.2792	227.00	729.00	1,2	470.35	48.039
3280	PC6H15O4	phosphate, triethyl	78-40-0	69.3320	757.00	0.3800	216.65	757.00	1,2	488.15	46.783
3378	PClF2	phosphorus (iii) chloride difluoride	14335-40-1	25.5067	362.40	0.3800	250.00	362.40	1,2	225.90	17.600
3379	PCl2F	phosphorus (iii) dichloride fluoride	15597-63-4	35.9721	463.00	0.3800	250.00	463.00	1,2	287.15	24.900
3380	PCl2F3	phosphorus (v) dichloride trifluoride	13454-99-4	32.1348	457.02	0.3800	265.15	457.02	1,2	280.25	22.398
3381	PCl3	phosphorus (iii) chloride	7719-12-2	45.9178	563.15	0.4229	181.15	563.15	1,2	349.25	30.491
3382	PCl5	phosphorus pentachloride	10026-13-8	70.3214	646.15	0.3800	433.15	646.15	1,2	433.00	46.138
3384	PF3	phosphorus (iii) fluoride	7783-55-3	24.1478	271.20	0.3800	121.65	271.20	1,2	171.65	16.500
3387	PF5	phosphorus (v) fluoride	7647-19-0	25.2612	296.31	0.3800	179.35	296.31	1,2	188.55	17.200
3389	PH3	phosphine	7803-51-2	19.3290	324.75	0.3332	139.37	324.75	1,2	185.41	14.581
3392	PH4I	phosphonium iodide	12125-09-6	47.6886	539.70	0.3800	291.65	539.70	1,2	335.65	32.953
3395	POBr3	phosphorus (v) oxybromide	7789-59-5	56.7672	712.70	0.3800	329.15	712.70	1,2	464.85	38.000
3396	POCl3	phosphorus oxychloride	10025-87-3	50.0603	602.15	0.3800	274.33	602.15	1,2	378.65	34.350
3398	PSCl3	phosphorus thiochloride	3982-91-0	49.0121	638.82	0.3800	236.95	638.82	1,2	398.15	33.822
3400	PSF3	phosphorus (v) sulfide trifluoride	2404-52-6	28.8501	346.00	0.3800	124.35	346.00	1,2	220.90	19.600
3451	P2S5	phosphorus (v) sulfide	1314-80-3	70.7261	1291.00	0.3800	561.15	1291.00	1,2	787.15	49.465
3461	P4O6	phosphorous (iii) oxide	12440-00-5	62.9892	714.86	0.3800	295.65	714.86	1,2	446.15	43.430
3483	Pb	lead	7439-92-1	214.1915	5400.00	0.3800	600.61	5400.00	1,2	2022.15	179.216
3487	PbBr2	lead bromide	10031-22-8	188.8660	1933.47	0.3800	646.15	1933.47	1,2	1165.15	133.000
3504	PbC8H20	tetraethyl lead	78-00-2	72.6130	655.00	0.4256	139.41	655.00	1,2	473.15	42.088
3514	PbCl2	lead chloride	7758-95-4	182.0788	1998.62	0.3800	774.15	1998.62	1,2	1224.15	127.000
3521	PbF2	lead fluoride	7783-46-2	230.3040	2550.73	0.3800	1128.15	2550.73	1,2	1566.15	160.400
3530	PbI2	lead iodide	10101-63-0	149.3240	1865.07	0.3800	675.15	1865.07	1,2	1145.15	104.000
3537	PbO	lead oxide	1317-36-8	297.4190	2842.26	0.3800	1163.15	2842.26	1,2	1747.15	207.000
3545	PbS	lead sulfide	1314-87-0	330.2361	2531.19	0.3800	1387.15	2531.19	1,2	1554.15	230.000

Table 8 Enthalpy of Vaporization - Inorganic Compounds

			HVAP = A (1 - T/T_c)^n								(HVAP - kjoule/mol, T - K)
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
3571	Pd	palladium	7440-05-3	415.2942	10669.10	0.3800	1828.05	10669.10	1,2	3236.15	362.000
3641	Po	polonium	7440-08-6	125.7518	3013.08	0.3800	527.15	3013.08	1,2	1235.15	102.910
3691	Pt	platinum	7440-06-4	656.2389	6983.00	0.3800	2041.55	6983.00	1,2	4098.15	469.000
3773	Ra	radium	7440-14-4	138.3859	4862.82	0.3800	973.15	4862.82	1,2	1799.15	116.104
3781	Rb	rubidium	7440-17-7	95.4449	2111.10	0.3800	312.46	2111.10	1,2	961.15	75.770
3786	RbBr	rubidium bromide	7789-39-1	221.2795	2646.82	0.3800	955.15	2646.82	1,2	1613.15	154.800
3791	RbCl	rubidium chloride	7791-11-9	238.7005	2694.06	0.3800	988.15	2694.06	1,2	1663.15	165.700
3795	RbF	rubidium fluoride	13446-74-7	255.4707	2738.03	0.3800	1033.15	2738.03	1,2	1683.15	177.800
3801	RbI	rubidium iodide	7790-29-6	282.5368	2568.65	0.3800	915.15	2568.65	1,2	1573.15	197.080
3828	Re	rhenium	7440-15-5	794.7591	21482.80	0.3800	3459.15	21482.80	1,2	5869.15	704.000
3850	ReF5	rhenium (v) fluoride	30937-52-1	85.5469	774.10	0.3800	321.15	774.10	1,2	494.45	58.100
3852	ReF6	rhenium (vi) fluoride	10049-17-9	42.7229	472.97	0.3800	291.65	472.97	1,2	306.95	28.700
3858	ReOF4	rhenium (vi) oxytetrafluoride	17026-29-8	91.1053	682.25	0.3800	381.15	682.25	1,2	444.85	61.000
3861	ReO2F3	rhenium (vii) dioxytrifluoride	57246-89-6	99.4746	690.26	0.3800	363.15	690.26	1,2	458.55	65.700
3875	Re2O7	rhenium heptoxide	1314-68-7	106.1515	1035.10	0.3800	569.15	1035.10	1,2	633.15	74.100
3880	Rh	rhodium	7440-16-6	568.0098	12906.60	0.3800	2237.15	12906.60	1,2	3968.15	494.000
3940	Rn	radon	10043-92-2	24.7299	377.40	0.3800	202.15	377.40	1,2	211.45	18.098
3941	Ru	ruthenium	7440-18-8	673.8647	15247.10	0.3800	2607.15	15247.10	1,2	4423.15	591.600
3974	RuF5	ruthenium (v) fluoride	14521-18-7	83.5929	977.44	0.3800	359.65	977.44	1,2	500.15	63.661
3991	S	sulfur	7704-34-9	61.2418	1314.00	0.3900	388.36	1314.00	1,2	717.82	44.998
3994	SCl2	sulfur dichloride	10545-99-0	46.5214	542.00	0.3801	151.15	542.00	1,2	332.75	32.400
3996	SCl2O	thionyl chloride	7719-09-7	45.5632	567.00	0.3800	168.65	567.00	1,2	348.75	31.700
3998	SF4	sulfur tetrafluoride	7783-60-0	38.9529	364.00	0.3800	149.15	364.00	1,2	232.70	26.440
4001	SF6	sulfur hexafluoride	2551-62-4	24.1700	318.69	0.3590	233.15	318.69	1,2	209.25	16.468
4004	SOBr2	thionyl bromide	507-16-4	55.9984	661.75	0.3800	220.95	661.75	1,2	413.15	38.601
4005	SOCl2	thionyl chloride	7719-09-7	45.6071	567.00	0.3810	172.00	567.00	1,2	348.75	31.700
4006	SOF2	thionyl fluoride	7783-42-8	31.4178	371.25	0.3800	162.65	371.25	1,2	229.35	21.800
4007	SO2	sulfur dioxide	7446-09-5	36.7600	430.75	0.4000	200.00	430.75	1,2	263.13	25.201
4008	SO2Cl2	sulfuryl chloride	7791-25-5	47.9680	545.00	0.4279	219.00	545.00	1,2	342.55	31.400
4010	SO3	sulfur trioxide	7446-11-9	73.3700	490.85	0.5647	289.95	490.85	1,2	317.90	40.709
4013	S2Cl2	sulfur monochloride	10025-67-9	52.1039	659.37	0.3800	193.15	659.37	1,2	410.15	36.000
4023	Sb	antimony	7440-36-0	230.1244	5070.00	0.3800	903.78	5070.00	1,2	1860.15	193.430
4025	SbBr3	antimony tribromide	7789-61-9	85.1847	892.75	0.3800	369.75	892.75	1,2	553.15	59.000
4042	SbCl3	antimony trichloride	10025-91-9	68.9504	794.00	0.4349	346.55	794.00	1,2	493.40	45.193
4044	SbCl5	antimony pentachloride	7647-18-9	74.4423	662.54	0.3800	275.95	662.54	1,2	449.15	48.400
4047	SbH3	stibine	7803-52-3	30.1047	440.35	0.3800	185.15	440.35	1,2	255.15	21.662
4049	SbI3	antimony triiodide	7790-44-5	98.4968	1097.96	0.3800	440.15	1097.96	1,2	674.15	68.600
4056	Sb2O3	antimony (iii) oxide	1309-64-4	107.1113	2765.72	0.3800	929.15	2765.72	1,2	1698.15	74.600
4065	Sc	scandium	7440-20-2	400.6854	8035.08	0.3800	1814.15	8035.08	1,2	3109.15	332.700
4083	Se	selenium (gray)	7782-49-2	128.5237	1766.00	0.3800	494.15	1766.00	1,2	958.15	95.480
4089	SeCS	selenosulfide, carbon	5951-19-9	50.4491	576.53	0.3800	197.95	576.53	1,2	358.75	34.849
4107	SeCl4	selenium tetrachloride	10026-03-6	62.1003	743.95	0.3800	450.00	743.95	1,2	464.55	42.803
4109	SeF4	selenium tetrafluoride	13465-66-2	68.3768	608.64	0.3800	263.15	608.64	1,2	379.15	47.200
4110	SeF6	selenium hexafluoride	7783-79-1	26.4175	368.80	0.3800	238.45	368.80	1,2	227.35	18.354
4115	SeOCl2	selenium oxychloride	7791-23-3	62.7496	706.80	0.3800	281.65	706.80	1,2	450.15	42.700
4117	SeO2	selenium dioxide	7446-08-4	135.4068	961.16	0.3800	613.15	961.16	1,2	588.15	94.500
4140	Si	silicon	7440-21-3	551.2339	5159.00	0.3800	1685.00	5159.00	1,2	3490.00	359.000
4143	SiBrCl2F	silane, bromodichlorofluoro	---	34.4378	497.17	0.3800	160.85	497.17	1,2	308.55	23.828
4143.1	SiBrF3	silane, bromotrifluoro	---	25.2283	375.28	0.3800	202.65	375.28	1,2	231.45	17.523
4144	SiBr2ClF	silane, dibromochlorofluoro	---	37.6428	535.27	0.3800	173.85	535.27	1,2	332.65	26.023
4146	SiBr4	tetrabromosilane	7789-66-4	56.1323	663.00	0.3800	278.54	663.00	1,2	427.15	37.900
4149	SiCH3Cl3	silane, methyltrichloro	75-79-6	38.2000	517.00	0.2870	195.35	517.00	1,2	339.55	28.105
4150	SiCH4Cl2	silane, methyldichloro	75-54-7	36.7560	483.00	0.3127	182.55	483.00	1,2	314.70	26.435
4152	SiC2H5Cl3	silane, ethyltrichloro	115-21-9	49.4820	559.95	0.3987	167.55	559.95	1,2	371.05	32.084
4153	SiC2H6Cl2	silane, dimethyldichloro	75-78-5	44.5400	520.35	0.3850	197.05	520.35	1,2	343.35	29.407
4157	SiC3H10	silane, trimethyl	933-07-7	32.3100	432.00	0.3656	137.26	432.00	1,2	279.85	22.062
4187	SiC7H8Cl2	silane, methylphenyldichloro	149-74-6	67.0820	689.00	0.3853	229.65	689.00	1,2	477.35	42.569
4196	SiC8H20	silane, tetraethyl	631-36-7	57.4370	606.00	0.3777	190.65	606.00	1,2	426.56	36.271
4238	SiClC3H9	chlorotrimethylsilane	75-77-4	42.1520	497.75	0.3789	215.45	497.75	1,2	330.75	27.869
4240	SiClF3	silane, chlorotrifluoro	14049-36-6	26.8655	330.54	0.3800	131.15	330.54	1,2	203.15	18.700
4241	SiCl2F2	silane, dichlorodifluoro	18356-71-3	30.3814	390.93	0.3800	133.45	390.93	1,2	241.15	21.100
4243	SiCl3F	silane, trichlorofluoro	14965-52-7	31.3903	460.49	0.3800	152.35	460.49	1,2	285.40	21.738
4244	SiCl4	silicon tetrachloride	10026-04-7	41.5620	507.00	0.3795	204.30	507.00	1,2	330.00	27.879
4245	SiF4	silicon tetrafluoride	7783-61-1	24.1050	259.00	0.3799	186.35	259.00	1,2	187.15	14.810
4246	SiHBr3	silane, tribromo	7789-57-3	50.5939	610.00	0.3800	199.65	610.00	1,2	382.15	34.800
4247	SiHCl3	silane, trichloro	10025-78-2	38.9070	479.00	0.3817	144.95	479.00	1,2	305.00	26.433
4248	SiHF3	silane, trifluoro	13465-71-9	23.2181	291.02	0.3800	141.75	291.02	1,2	178.15	16.200
4250	SiH2Br2	silane, dibromo	13768-94-0	44.6262	550.00	0.3800	202.95	550.00	1,2	339.15	31.000
4251	SiH2Cl2	silane, dichloro	4109-96-0	36.8400	459.00	0.4022	151.15	459.00	1,2	281.45	25.143
4252	SiH2F2	silane, difluoro	13824-36-7	23.4015	318.21	0.3800	151.00	318.21	1,2	195.35	16.300
4253	SiH2I2	silane, diiodo	13760-02-6	62.3360	660.00	0.3800	272.15	660.00	1,2	423.15	42.229
4257	SiH3Br	silane, monobromo	13465-73-1	34.7932	454.00	0.3800	179.25	454.00	1,2	275.55	24.400
4258	SiH3Cl	silane, monochloro	13465-78-6	30.0929	396.65	0.3800	155.05	396.65	1,2	242.75	21.000
4259	SiH3F	silane, monofluoro	13537-33-2	26.8803	286.28	0.3800	155.00	286.28	1,2	175.15	18.762
4260	SiH3I	silane, iodo	13598-42-0	43.2189	515.00	0.3800	216.15	515.00	1,2	318.55	29.966
4261	SiH4	silane	7803-62-5	15.7100	269.70	0.2860	88.48	269.70	1,2	161.00	12.115
4263	SiI4	silane, tetraiodo	13465-84-4	70.6907	944.00	0.3800	393.65	944.00	1,2	560.50	50.200
4265	SiO2	silicon dioxide (alpha quartz)	14808-60-7	496.1346	4076.87	0.3800	1883.00	4076.87	1,2	2503.20	345.543
4274	Si2C6H18O	disiloxane, hexamethyl	107-46-0	49.3310	518.70	0.3592	204.93	518.70	1,2	373.67	31.211
4275	Si2C6H19N	disilazane, hexamethyl	999-97-3	54.0500	544.00	0.3380	293.15	544.00	1,2	399.15	34.558

Table 8 Enthalpy of Vaporization - Inorganic Compounds

			HVAP = A (1 - T/T_c)^n			(HVAP - kjoule/mol, T - K)					
ID	FORMULA	NAME	CAS No	A	T_c	n	TMIN	TMAX	code	T	HVAP@T
4286	Si2Cl6	disilane, hexachloro	13465-77-5	41.7382	660.96	0.3800	271.95	660.96	1,2	418.15	28.528
4287	Si2Cl6O	disiloxane, hexachloro	14986-21-1	40.6393	655.58	0.3800	239.95	655.58	1,2	410.15	27.977
4288	Si2F6	disilane, hexafluoro	---	25.5407	411.33	0.3800	254.55	411.33	1,2	254.25	17.716
4288.1	Si2H5Cl	disilanyl chloride	---	36.2647	506.89	0.3800	310.00	506.89	1,2	314.70	25.086
4289	Si2H6	disilane	1590-87-0	29.2160	432.00	0.3508	140.65	432.00	1,2	259.00	21.194
4290	Si2H6O	disiloxane	13597-73-4	27.8843	416.86	0.3800	128.95	416.86	1,2	257.95	19.329
4291	Si2OCl3F3	disiloxane, trichlorotrifluoro	---	30.5021	508.78	0.3800	310.00	508.78	1,2	315.89	21.099
4295	Si3Cl8	octachlorotrisilane	---	45.9168	775.41	0.3800	450.00	775.41	1,2	484.55	31.634
4296	Si3H8	trisilane	7783-26-8	41.2008	525.15	0.3800	155.95	525.15	1,2	326.05	28.500
4297	Si3H9N	trisilazane	---	33.3999	518.20	0.3800	167.45	518.20	1,2	321.85	23.099
4300	Si4H10	tetrasilane	7783-29-1	37.9496	599.30	0.3800	179.55	599.30	1,2	380.55	25.875
4303	Sm	samarium	7440-19-9	201.2036	5082.92	0.3800	1345.15	5082.92	1,2	2067.15	165.000
4332	Sn	tin (white)	7440-31-5	356.9578	7400.00	0.3800	505.08	7400.00	1,2	2875.15	296.100
4334	SnBr2	tin (ii) bromide	10031-24-0	147.6474	1466.09	0.3800	488.15	1466.09	1,2	912.15	102.000
4335	SnBr4	stannic bromide	7789-67-5	63.1592	764.82	0.3800	304.15	764.82	1,2	478.15	43.500
4422	SnCl2	stannous chloride	7772-99-8	124.6281	1459.53	0.3800	519.95	1459.53	1,2	896.15	86.800
4424	SnCl4	stannic chloride	7646-78-8	50.6545	619.85	0.3800	242.95	619.85	1,2	387.30	34.900
4431	SnH4	stannane	2406-52-2	27.4443	358.52	0.3800	123.25	358.52	1,2	221.35	19.050
4432	SnI2	tin (ii) iodide	10294-70-9	149.2338	1635.64	0.3800	593.15	1635.64	1,2	987.15	105.000
4433	SnI4	stannic iodide	7790-47-8	83.0365	1011.64	0.3800	417.65	1011.64	1,2	637.50	56.900
4461	Sr	strontium	7440-24-6	164.9699	4267.20	0.3800	1050.15	4267.20	1,2	1655.15	136.900
4517	Ta	tantalum	7440-25-7	833.7569	19900.90	0.3800	3290.15	19900.90	1,2	5731.15	732.800
4523	TaBr5	tantalum (v) bromide	13451-11-1	91.7328	974.00	0.3800	538.15	974.00	1,2	622.15	62.300
4531	TaCl5	tantalum (v) chloride	7721-01-9	83.3377	767.00	0.3800	489.15	767.00	1,2	512.50	54.800
4533	TaF5	tantalum (v) fluoride	7783-71-3	83.6740	787.96	0.3800	368.25	787.96	1,2	502.35	56.900
4536	TaI5	tantalum (v) iodide	14693-81-3	93.6334	1318.80	0.3800	769.15	1318.80	1,2	816.15	64.900
4550	Tb	terbium	7440-27-9	338.2124	11138.10	0.3800	1629.15	11138.10	1,2	3503.15	293.000
4570	Tc	technetium	7440-26-8	656.4098	17400.80	0.3800	2430.15	17400.80	1,2	4538.15	585.200
4583	Te	tellurium	13494-80-9	127.9689	4840.00	0.3800	722.66	4840.00	1,2	1261.15	114.100
4588	TeCl4	tellurium tetrachloride	10026-07-0	110.0589	1083.31	0.3800	497.15	1083.31	1,2	660.15	77.000
4590	TeF6	tellurium hexafluoride	7783-80-4	24.7532	380.18	0.3800	235.35	380.18	1,2	234.25	17.203
4609	Th	thorium	7440-29-1	584.3374	17668.05	0.3800	2023.15	17668.05	1,2	5061.15	514.000
4639	Ti	titanium	7440-32-6	578.7421	6400.00	0.3800	1941.15	6400.00	1,2	3560.15	425.000
4643	TiBr4	titanium (iv) bromide	7789-68-6	64.8960	795.70	0.3800	312.15	795.70	1,2	503.15	44.370
4676	TiCl2	titanium (ii) chloride	10049-06-6	331.8583	2906.02	0.3800	1308.15	2906.02	1,2	1773.15	232.000
4677	TiCl3	titanium (iii) chloride	7705-07-9	180.0924	1971.57	0.3800	713.15	1971.57	1,2	1233.15	124.000
4678	TiCl4	titanium tetrachloride	7550-45-0	48.6123	638.00	0.2870	249.05	638.00	1,2	409.00	36.227
4686	TiI4	titanium (iv) iodide	7720-83-4	84.7900	1040.00	0.3800	423.15	1040.00	1,2	650.15	58.400
4703	Tl	thallium	7440-28-0	197.3455	4648.06	0.3800	577.15	4648.06	1,2	1746.15	165.000
4704	TlBr	thallous bromide	7789-40-4	142.9490	1778.75	0.3800	733.15	1778.75	1,2	1092.15	99.560
4728	TlI	thallium iodide	7790-30-9	150.4123	1785.26	0.3800	713.15	1785.26	1,2	1097.15	104.700
4747	Tm	thulium	7440-30-4	291.4985	6283.16	0.3800	1818.15	6283.16	1,2	2223.15	246.927
4766	U	uranium	7440-61-1	483.2505	13712.60	0.3800	1408.15	13712.60	1,2	4404.15	417.100
4780	UCl4	uranium (iv) chloride	10026-10-5	208.6065	1661.19	0.3800	863.15	1661.19	1,2	1064.15	141.400
4787	UF6	uranium fluoride	7783-81-5	43.1494	505.80	0.3800	342.35	505.80	1,2	329.65	28.900
4836	V	vanadium	7440-62-2	527.9465	11787.10	0.3800	2183.15	11787.10	1,2	3653.15	458.532
4860	VCl4	vanadium tetrachloride	7632-51-1	51.9468	697.00	0.2448	247.45	697.00	1,2	425.00	41.258
4865	VF5	vanadium (v) fluoride	7783-72-4	65.9302	499.01	0.3800	292.65	499.01	1,2	321.45	44.520
4880	VOCl3	vanadium oxytrichloride	7727-18-6	53.6191	636.00	0.3800	193.65	636.00	1,2	400.00	36.789
4899	W	tungsten	7440-33-7	976.4192	14756.00	0.3800	3695.15	14756.00	1,2	5828.15	806.700
4904	WBr5	tungsten (v) bromide	13470-11-6	122.2797	923.75	0.3800	559.15	923.75	1,2	606.15	81.500
4913	WCl5	tungsten (v) chloride	13470-14-9	101.3609	861.73	0.3800	515.15	861.73	1,2	559.15	68.100
4914	WCl6	tungsten (vi) chloride	13283-01-7	80.4608	923.00	0.3800	548.15	923.00	1,2	619.90	52.700
4917	WF6	tungsten fluoride	7783-82-6	38.2551	468.56	0.3800	272.65	468.56	1,2	290.25	26.500
4926	WOCl4	tungsten (vi) oxytetrachloride	13520-78-0	99.9917	782.00	0.3800	484.15	782.00	1,2	500.70	67.800
4927	WOF4	tungsten (vi) oxytetrafluoride	13520-79-1	88.5417	707.67	0.3800	379.15	707.67	1,2	459.05	59.500
4945	Xe	xenon	7440-63-3	17.0905	289.74	0.3600	161.36	289.74	1,2	165.03	12.617
4960	Y	yttrium	7440-65-5	439.2399	9381.32	0.3800	1799.15	9381.32	1,2	3618.15	365.000
4995	Yb	ytterbium	7440-64-4	185.7459	4365.92	0.3800	1097.15	4365.92	1,2	1469.15	158.934
5021	Zn	zinc	7440-66-6	147.5455	3170.00	0.3803	692.68	3170.00	1,2	1180.15	123.600
5062	ZnCl2	zinc chloride	7646-85-7	180.9121	1637.05	0.3800	638.15	1637.05	1,2	1005.15	126.000
5069	ZnF2	zinc fluoride	7783-49-5	273.2275	2882.98	0.3800	1145.15	2882.98	1,2	1773.15	190.100
5113	Zr	zirconium	7440-67-7	764.6111	8802.00	0.3800	2128.15	8802.00	1,2	4682.15	573.000
5117	ZrBr4	zirconium bromide	13777-25-8	89.0395	1026.30	0.3800	723.15	1026.30	1,2	633.15	61.834

code: 1 - data, 2 - estimate

HVAP - enthalpy of vaporization, kjoule/mol

A, T_c, and n - regression coefficients of chemical compound

T- temperature, K

TMAX - maximum temperature, K

TMIN - minimum temperature, K

Chapter 9

ENTHALPY OF VAPORIZATION AT BOILING POINT – ORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 9 for enthalpy of vaporization at boiling point. The tabulation is arranged by carbon number (C, C2, C3, ...) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. The next columns provides the normal boiling point and the enthalpy of vaporization at the boiling point. The last column gives the code for the tabulation.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-33). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (1-2), Daubert and Danner (3), TRC (11-12), and Yaws (15-33) were used extensively. Estimates for enthalpy of vaporization at the boiling point were primarily based on the Kistiakowsky rule (9) and Riedel method (9).

Example

In an engineering analysis, the enthalpy of vaporization is needed for carbon tetrachloride (CCl4) at the boiling point temperature of 349.79 K. Determine the enthalpy of vaporization of carbon tetrachloride at the boiling point.

Inspection of the tabulation provides the following:

HVAP = 29.840 kjoule/mol

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Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
6	CAgN3S2	silver azidodithioformate	74093-43-9	1,154.15	109.325	1,2	142	CH2BrI	bromoiodomethane	557-68-6	412.65	35.559	1,2
11	CB4	boron carbide	12069-32-8	3,773.15	394.563	1,2	143	CH2BrNO2	bromonitromethane	563-70-2	422.15	36.457	1,2
12	CBaO3	barium carbonate	513-77-9	1,723.15	168.964	1,2	144	CH2Br2	dibromomethane	74-95-3	370.10	33.933	1,2
13	CBrClF2	bromochlorodifluoromethane	353-59-3	269.14	22.372	1,2	145	CH2ClF	chlorofluoromethane	593-70-4	264.06	22.744	1,2
16	CBrCl3	bromotrichloromethane	75-62-7	378.05	32.156	1,2	146	CH2ClI	chloroiodomethane	593-71-5	382.15	32.687	1,2
17	CBrF3	bromotrifluoromethane	75-63-8	215.26	17.531	1,2	147	CH2ClNO	carbamic chloride	463-72-9	335.15	28.301	2
19	CBrN	cyanogen bromide	506-68-3	334.65	28.254	1,2	148	CH2ClNO2	chloronitromethane	1794-84-9	395.65	33.956	1,2
21	CBr2ClF	dibromochlorofluoromethane	353-55-9	353.45	30.002	1,2	149	CH2Cl2	dichloromethane	75-09-2	312.90	28.381	1,2
22	CBr2Cl2	dibromodichloromethane	594-18-3	423.35	36.571	1,2	150	CH2Cl2O2S	chloromethane sulfonyl chloride	3518-65-8	251.15	20.605	1,2
23	CBr2F2	dibromodifluoromethane	75-61-6	295.94	26.653	1,2	153	CH2Cl4Si	trichloro(chloromethyl)silane	1558-25-4	391.15	33.532	1,2
24	CBr2N2O4	dibromodinitromethane	2973-00-4	431.15	37.310	2	154	CH2Cl6Si2	bis(trichlorosilyl)methane	4142-85-2	455.15	39.592	1,2
25	CBr2O	carbonyl bromide	593-95-3	337.65	28.533	1,2	157	CH2FI	fluoroiodomethane	373-53-5	326.55	27.504	1,2
26	CBr3Cl	tribromochloromethane	594-15-0	431.65	37.358	1,2	158	CH2F2	difluoromethane	75-10-5	221.50	20.209	1,2
27	CBr3F	tribromofluoromethane	353-54-8	381.15	32.593	1,2	159	CH2F2N2O	1,1-difluorourea	1510-31-2	272.45	22.537	1,2
29	CBr4	carbon tetrabromide	558-13-4	462.65	45.761	1,2	160	CH2F3P	trifluoromethyl phosphine	420-52-0	286.25	23.796	1,2
34	CClF3	chlorotrifluoromethane	75-72-9	191.74	15.600	1,2	161	CH2I2	diiodomethane	75-11-6	455.15	40.743	1,2
36	CClF3O2S	trifluoromethanesulfonyl chloride	421-83-0	435.15	37.690	1,2	163	CH2Mg	methylenemagnesium	25382-52-9	380.15	32.499	1,2
37	CClF3O3S	chlorine(1)trifluoromethanesulfonate	65597-24-2	400.15	34.379	1,2	166	CH2N2	diazomethane	334-88-3	250.15	20.515	1,2
39	CClN	cyanogen chloride	506-77-4	286.00	26.857	1,2	173	CH2N4S	5-amino-1,2,3,4-thiatriazole	6630-99-5	181.85	14.431	1,2
40	CClNO3S	sulfuryl chloride isocyanate	1189-71-5	380.15	32.499	1,2	174	CH2N6O2	5-N-nitroaminotetrazole	18588-16-4	190.15	15.161	1,2
41	CClN3O6	chlorotrinitromethane	1943-16-4	407.15	35.039	2	175	CH2O	formaldehyde	50-00-0	254.05	23.160	1,2
42	CCl2F2	dichlorodifluoromethane	75-71-8	243.36	20.607	1,2	176	CH2O2	formic acid	64-18-6	373.71	21.990	1,2
43	CCl2N2O4	dichlorodinitromethane	1587-41-3	394.65	33.861	1,2	179	CH2S3	trithiocarbonic acid	594-08-1	330.95	27.912	1,2
44	CCl2O	phosgene	75-44-5	280.71	24.777	1,2	180	CH3Ag	methylsilver	75993-65-6	213.15	17.197	1,2
45	CCl2OS	chlorocarbonylsulfenyl chloride	2757-23-5	371.15	31.656	1,2	183	CH3AsF2	methyldifluoroarsine	420-24-6	349.65	29.648	1,2
46	CCl2S	carbonothioic dichloride	463-71-8	346.15	29.323	1,2	184	CH3AsI2	methylarsine diiodide	7207-97-8	353.65	30.021	1,2
47	CCl3F	trichlorofluoromethane	75-69-4	296.97	25.156	1,2	185	CH3AsNa2O3	disodium methanearsonate	144-21-8	438.15	37.975	1,2
48	CCl3I	trichloroiodomethane	594-22-9	415.15	35.795	1,2	187	CH3BBr2	dibromomethylborane	17933-16-3	145.45	11.273	1,2
49	CCl3NO2	trichloronitromethane	76-06-2	385.15	32.968	1,2	189	CH3BO	borane carbonyl	13205-44-2	209.15	16.841	1,2
50	CCl4	carbon tetrachloride	56-23-5	349.79	29.840	1,2	190	CH3BiO	methylbismuth oxide	---	241.15	19.703	1,2
52	CCl4O2S	trichloromethanesulfonyl chloride	2547-61-7	443.15	38.450	1,2	191	CH3Br	methyl bromide	74-83-9	276.71	24.276	1,2
54	CCl4S	perchloromethyl mercaptan	594-42-3	420.65	36.315	1,2	192	CH3BrMg	methylmagnesium bromide (ethyl ether solutio*	75-16-1	253.15	20.786	1,2
56	CCl6Si	trichloro(trichloromethyl)silane	17760-13-3	428.15	37.026	1,2	194	CH3Br3Si	tribromomethylsilane	4095-09-4	405.15	34.851	1,2
61	CDCl3	trichloromethane-d	865-49-6	334.65	28.254	1,2	195	CH3CdN3	methyl cadmium azide	7568-37-8	178.15	14.107	1,2
63	CD4O	methanol-d4	811-98-3	338.15	28.579	1,2	196	CH3Cl	methyl chloride	74-87-3	248.93	21.549	1,2
64	CFN	cyanogen fluoride	1495-50-7	227.15	18.447	1,2	201	CH3ClO2S	methanesulfonyl chloride	124-63-0	435.15	37.690	1,2
65	CFN3O6	fluorotrinitromethane	1840-42-2	356.65	30.301	1,2	202	CH3ClO3S	methyl chlorosulfonate	812-01-1	407.15	35.039	1,2
66	CFN5O4	fluoro dinitromethyl azide	17003-82-6	349.95	29.676	1,2	203	CH3ClO4	methyl perchlorate	17043-56-0	272.05	22.501	1,2
67	CF2N2	difluorodiazirine	693-85-6	377.35	32.236	1,2	204	CH3Cl2N	N,N-dichloromethylamine	7651-91-4	211.15	17.019	1,2
68	CF2O	carbonyl fluoride	353-50-4	190.15	18.040	1,2	205	CH3Cl2OP	methyl dichlorophosphite	3279-26-3	366.15	31.188	1,2
69	CF3I	trifluoroiodomethane	2314-97-8	250.65	20.560	1,2	206	CH3Cl2OP	methylphosphonic dichloride	676-97-1	435.65	37.737	1,2
71	CF3N	difluoro-N-fluoromethanimine	338-66-9	269.15	22.237	1,2	208	CH3Cl2P	dichloromethylphosphine	676-83-5	354.65	30.114	1,2
73	CF3N3O2S	trifluoromethylsulfonyl azide	3855-45-6	215.35	17.393	1,2	210	CH3Cl3Si	methyl trichlorosilane	75-79-6	339.55	28.100	1,2
74	CF4	carbon tetrafluoride	75-73-0	145.09	11.688	1,2	211	CH3Cl3Sn	methyltin trichloride	993-16-8	444.15	38.545	1,2
75	CF4N2	perfluoroformamidine	14362-70-0	334.75	28.264	1,2	212	CH3Cu	methyl copper	1184-53-8	241.15	19.703	1,2
76	CF4N2	tetrafluorodiaziridine	17224-09-8	244.15	19.974	1,2	213	CH3DO	methan-d1-ol	1455-13-6	338.65	28.626	1,2
77	CF4N2O	tetrafluorourea	10256-92-5	394.90	33.885	1,2	214	CH3F	methyl fluoride	593-53-3	194.82	17.670	1,2
78	CF4O	trifluoromethylhypofluorite	373-91-1	178.00	14.094	1,2	215	CH3FO2S	methanesulfonyl fluoride	558-25-8	396.65	34.050	1,2
79	CF4O2	difluoromethylene dihypofluorite	16282-67-0	211.25	17.028	1,2	216	CH3FO3S	methyl fluorosulfonate	421-20-5	365.65	31.141	1,2
80	CF4O2Xe	xenon(ii) fluoride trifluoroacetate	25710-89-8	280.75	23.294	1,2	217	CH3FO3SXe	xenon(ii) fluoride methanesulfonate	---	278.75	23.111	1,2
81	CF4O3SXe	xenon(ii) fluoride trifluoromethanesulfonate	39274-39-0	346.65	29.369	1,2	218	CH3F2OP	methyl difluorophosphite	676-99-3	371.15	31.656	1,2
82	CF4S	trifluoromethanesulfenyl fluoride	17742-04-0	420.65	36.315	1,2	219	CH3F3Si	trifluoromethylsilane	373-74-0	243.00	19.870	1,2
83	CF5N3	pentafluoroguanidine	10051-06-6	272.15	22.510	1,2	222	CH3I	methyl iodide	74-88-4	315.58	27.320	1,2
85	CF6N2	bis(difluoroamino)difluoromethane	4394-93-8	241.25	19.712	1,2	226	CH3K	methyl potassium	17814-73-2	356.65	30.301	1,2
86	CF7N3	tris(difluoroamine)fluoromethane	14362-68-6	278.75	23.111	1,2	230	CH3LiO	lithium methoxide	865-34-9	337.75	28.542	1,2
87	CF8S	(trifluoromethyl)sulfur pentafluoride	373-80-8	253.15	20.786	1,2	232	CH3NO	formamide	75-12-7	493.00	48.250	1,2
90	CHBrClF	bromochlorofluoromethane	593-98-6	309.15	25.898	1,2	235	CH3NO2	nitromethane	75-52-5	374.35	35.040	1,2
91	CHBrCl2	bromodichloromethane	75-27-4	363.15	30.908	1,2	236	CH3NO2	methyl nitrite	624-91-9	261.16	21.511	1,2
94	CHBr2Cl	chlorodibromomethane	124-48-1	393.15	33.720	1,2	238	CH3NO3	methyl nitrate	598-58-3	339.16	28.673	1,2
95	CHBr2F	dibromofluoromethane	1868-53-7	338.05	28.570	1,2	251	CH4	methane	74-82-8	111.66	8.160	1,2
96	CHBr3	bromoform	75-25-2	422.35	37.545	1,2	253	CH4Cl2N2	chloroformamidinium chloride	29671-92-9	340.95	28.839	1,2
97	CHClF2	chlorodifluoromethane	75-45-6	232.32	20.193	1,2	254	CH4Cl2Si	methyl dichlorosilane	75-54-7	314.70	26.435	1,2
98	CHClI2	chlorodiiodomethane	638-73-3	473.15	41.310	2	255	CH4HgO	methylmercury hydroxide	1184-57-2	312.95	26.248	1,2
101	CHCl2F	dichlorofluoromethane	75-43-4	282.05	24.640	1,2	267	CH4N2Se	selenourea	630-10-4	473.15	41.310	2
102	CHCl2I	dichloroiodomethane	594-04-7	405.15	34.851	1,2	270	CH4N4O4	methylene bis(nitramine)	14168-44-6	264.15	21.783	1,2
104	CHCl3	chloroform	67-66-3	334.33	29.785	1,2	272	CH4O	methyl alcohol	67-56-1	337.85	35.139	1,2
105	CHCl5Si	trichloro(dichloromethyl)silane	1558-24-3	418.15	36.079	1,2	273	CH4O2	methylhydroperoxide	3031-73-0	359.15	30.534	1,2
108	CHD3O	methanol-d3	1849-29-2	338.15	28.579	1,2	275	CH4O3S	methanesulfonic acid	75-75-2	561.00	49.775	1,2
109	CHFI2	fluorodiiodomethane	1493-01-2	373.15	31.843	1,2	278	CH4S	methyl mercaptan	74-93-1	279.11	24.574	1,2
111	CHFO	formyl fluoride	1493-02-3	246.65	20.199	1,2	280	CH5As	methylarsine	593-52-2	275.15	22.783	1,2
112	CHF2I	difluoroiodomethane	1493-03-4	294.75	24.575	1,2	283	CH5ClN2O5	urea perchlorate	18727-07-6	246.65	20.199	1,2
113	CHF3	fluoroform	75-46-7	190.99	16.617	1,2	284	CH5ClSi	methyl chlorosilane	993-00-0	281.85	23.460	1,2
114	CHF3O3S	trifluoromethanesulfonic acid	1493-13-6	437.10	37.875	1,2	285	CH5HgO4P	methylmercuric phosphate	32787-44-3	454.15	39.497	2
116	CHHgNO	cyanohydroxymercury	31065-88-0	373.95	31.918	1,2	286	CH5N	methylamine	74-89-5	266.82	26.111	1,2
117	CHI3	iodoform	75-47-8	491.16	42.359	1,2	289	CH5NO	o-methylhydroxylamine	67-62-9	322.65	27.143	1,2
122	CHN	hydrogen cyanide	74-90-8	298.85	26.896	1,2	302	CH5P	methylphosphine	593-54-4	257.15	21.148	1,2
124	CHNO	cyanic acid	420-05-3	296.15	24.703	1,2	305	CH6ClNO2	methylammonium chlorite	---	259.15	21.329	1,2
139	CH2B2F4	bis(difluoroboryl)methane	55124-14-6	191.75	15.302	1,2	306	CH6ClNO4	methylammonium perchlorate	---	250.15	20.515	1,2
140	CH2BrCl	bromochloromethane	74-97-5	341.20	31.117	1,2	309	CH6ClN3O4	guanidinium perchlorate	10308-84-6	533.15	47.078	1,2
141	CH2BrF	bromofluoromethane	373-52-4	292.15	24.336	1,2	310	CH6Ge	methylgermane	1449-65-6	250.15	20.515	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
312	CH6N2	methylhydrazine	60-34-4	360.65	30.674	1,2	490	C2F4N2O4	1,1,2,2-tetrafluoro-1,2-dinitroethane	356-16-1	331.65	27.976	1,2
322	CH6Si	methyl silane	992-94-9	216.25	17.099	1,2	491	C2F4O	trifluoroacetyl fluoride	354-34-7	254.15	20.876	1,2
327	CH8B2S	μ-methylthiodiborane(6)	91572-15-5	326.15	27.467	1,2	493	C2F5I	pentafluoro-iodoethane	354-64-3	285.60	23.737	1,2
330	CH8Si2	disilylmethane	1759-88-2	288.15	23.970	1,2	494	C2F6	hexafluoroethane	76-16-4	194.95	16.119	1,2
334	CH15Cl2N6O8RuS	pentaamminethiocyanatoruthenium(ii) perchlor*	38139-15-0	422.15	36.457	2	496	C2F6NO	bis(trifluoromethyl)nitroxide	2154-71-4	248.25	20.343	1,2
335	CHg2N2	mercury(i) cyanamide	72044-13-4	252.15	20.696	1,2	497	C2F6N2	bis(trifluoromethyl)diazene	372-63-4	242.00	19.780	1,2
337	CI4	carbon tetraiodide	507-25-5	591.61	51.541	2	503	C2F6O5S2	trifluoromethanesulfonic anhydride	358-23-6	355.55	30.198	1,2
338	CKN	potassium cyanide	151-50-8	1,898.15	187.650	1,2	505	C2F6S	bis(trifluoromethyl)sulfide	371-78-8	251.05	20.596	1,2
340	CKNS	potassium thiocyanate	333-20-0	773.15	70.660	2	506	C2F6S2	bis(trifluoromethyl) disulfide	372-64-5	307.75	25.769	1,2
343	CKO	carbonyl potassium	12397-35-2	276.71	22.925	1,2	507	C2F7N	heptafluoroethanamine	354-80-3	235.05	19.155	1,2
346	CLi2O3	lithium carbonate	554-13-2	1,473.15	142.530	2	510	C2HBr	bromoacetylene	593-61-3	277.85	23.029	1,2
351	CNNa	sodium cyanide	143-33-9	1,770.15	173.968	1,2	511	C2HBrClF3	halothane	151-67-7	323.35	28.593	1,2
359	CN2OS	sulfinyl cyanamide	---	300.15	25.070	1,2	512	C2HBrClF3	1-bromo-2-chloro-1,1,2-trifluoroethane	354-06-3	325.65	27.421	1,2
362	CN4O4	dinitrodiazomethane	25240-93-1	249.45	20.452	1,2	514	C2HBrCl2	2-bromo-1,1-dichloroethene	5870-61-1	380.65	32.546	1,2
363	CN4O8	tetranitromethane	509-14-8	398.85	35.484	1,2	515	C2HBrCl2	trans-1-bromo-1,2-dichloroethene	6795-75-1	386.95	33.137	1,2
364	CN5NaO2	sodium-5-nitrotetrazolide	67312-43-0	332.65	28.069	1,2	516	C2HBrF2	1-bromo-1,2-difluoroethene	358-99-6	292.15	24.336	1,2
365	CN6	5-diazoniotetrazolide	13101-58-1	435.15	37.690	1,2	518	C2HBr2F3	1,2-dibromo-1,1,2-trifluoroethane	354-04-1	349.15	29.602	1,2
366	CN6O	carbonyl diazide	14435-92-8	450.65	39.163	1,2	519	C2HBr2N	dibromoacetonitrile	3252-43-5	442.15	38.355	1,2
367	CN7Na	sodium-5-azidotetrazolide	35038-45-0	339.15	28.672	1,2	520	C2HBr3	tribromoethene	598-16-3	437.15	37.880	1,2
369	CNa2O3	sodium carbonate	497-19-8	1,873.15	184.972	1,2	521	C2HBr3O	tribromoacetaldehyde	115-17-3	447.15	38.830	1,2
372	CO	carbon monoxide	630-08-0	81.70	5.910	1,2	522	C2HBr3O2	tribromoacetic acid	75-96-7	518.15	45.631	2
373	COS	carbonyl sulfide	463-58-1	223.00	18.612	1,2	524	C2HCl	chloroacetylene	593-63-5	243.15	19.883	1,2
374	COSe	carbon oxyselenide	1603-84-5	251.65	20.650	1,2	525	C2HClF2	2-chloro-1,1-difluoroethylene	359-10-4	254.55	22.030	1,2
382	CS2	carbon disulfide	75-15-0	319.37	26.616	1,2	526	C2HClF2O2	chlorodifluoroacetic acid	76-04-0	395.15	33.908	1,2
383	CSe2	carbon diselenide	506-80-9	398.65	34.238	1,2	527	C2HClF3I	1-chloro-1,1,2-trifluoro-2-iodoethane	354-26-7	355.15	30.161	1,2
392	C2Ag2O	disilver ketenide	---	371.15	31.656	1,2	528	C2HClF4	1-chloro-1,1,2,2-tetrafluoroethane	354-25-6	261.41	21.997	1,2
394	C2Au2	gold(i) acetylide	70950-00-4	365.15	31.094	1,2	529	C2HClF4	2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0	261.19	22.107	1,2
397	C2BaN2	barium cyanide	542-62-1	315.65	26.497	1,2	530	C2HClF4	chlorotetrafluoroethane	63938-10-3	261.30	21.524	2
402	C2BrClN2S	3-bromo-5-chloro-1,2,4-thiadiazole	37159-60-7	466.15	40.641	1,2	532	C2HCl2F	1,1-dichloro-2-fluoroethene	359-02-4	310.65	26.036	1,2
403	C2BrCl3O	trichloroacetyl bromide	34069-94-8	416.15	35.890	1,2	533	C2HCl2FO	chlorofluoroacetyl chloride	359-32-0	342.65	28.997	1,2
404	C2BrF3	bromotrifluoroethylene	598-73-2	270.65	22.507	1,2	534	C2HCl2F3	1,1-dichloro-1,2,2-trifluoroethane	812-04-4	303.00	24.863	2
405	C2BrF5	bromopentafluoroethane	354-55-2	252.15	20.696	1,2	535	C2HCl2F3	1,2-dichloro-1,1,2-trifluoroethane	354-23-4	302.70	25.740	1,2
408	C2Br2ClF3	1,2-dibromo-1-chloro-1,2,2-trifluoroethane	354-51-8	366.15	31.188	1,2	536	C2HCl2F3	2,2-dichloro-1,1,1-trifluoroethane	306-83-2	301.05	25.639	1,2
409	C2Br2ClF3	1,1-dibromo-1-chloro-2,2,2-trifluoroethane	754-17-6	364.45	31.029	1,2	537	C2HCl2N	dichloroacetonitrile	3018-12-0	385.65	33.015	1,2
410	C2Br2ClF3	monochlorodibromotrifluoroethane	29256-79-9	365.30	31.108	2	539	C2HCl3	trichloroethylene	79-01-6	360.10	31.624	1,2
412	C2Br2F2	1,1-dibromodifluoroethylene	430-85-3	341.50	28.890	1,2	540	C2HCl3F2	1,1,1-trichloro-2,2-difluoroethane	354-12-1	346.15	29.800	1,2
413	C2Br2F4	1,2-dibromotetrafluoroethane	124-73-2	320.41	26.774	1,2	541	C2HCl3F2	1,1,2-trichloro-1,2-difluoroethane	354-15-4	345.65	29.750	1,2
415	C2Br4	tetrabromoethene	79-28-7	499.15	43.802	1,2	542	C2HCl3F2	1,2,2-trichloro-1,1-difluoroethane	354-21-2	345.05	29.701	1,2
416	C2Br6	hexabromoethane	594-73-0	473.15	41.310	2	543	C2HCl3O	dichloroacetyl chloride	79-36-7	382.15	36.200	1,2
423	C2ClF3	chlorotrifluoroethylene	79-38-9	245.30	21.364	1,2	544	C2HCl3O	trichloroacetaldehyde	75-87-6	370.85	34.130	1,2
425	C2ClF3O	trifluoroacetyl chloride	354-32-5	248.70	20.384	1,2	546	C2HCl3O2	dichloromethyl chloroformate	22128-63-8	383.65	32.827	1,2
427	C2ClF5	chloropentafluoroethane	76-15-3	234.04	19.330	1,2	547	C2HCl3O2	trichloroacetic acid	76-03-9	469.65	40.976	1,2
430	C2ClI	chloroiodoacetylene	25604-71-1	261.15	21.510	1,2	549	C2HCl4F	1,1,1,2-tetrachloro-2-fluoroethane	354-11-0	390.15	33.816	1,2
431	C2ClLi	lithium chloroacetylide	6180-21-8	374.15	31.937	1,2	550	C2HCl4F	1,1,2,2-tetrachloro-1-fluoroethane	354-14-3	389.75	33.778	1,2
432	C2ClNa	sodium chloroacetylide	---	338.15	28.579	2	551	C2HCl5	pentachloroethane	76-01-7	433.03	37.093	1,2
434	C2Cl2	dichloroacetylene	7572-29-4	306.15	25.622	1,2	553	C2HF	fluoro acetylene	2713-09-9	168.25	13.243	1,2
435	C2Cl2FN	dichlorofluoroacetonitrile	353-82-2	306.15	25.622	1,2	554	C2HF3	trifluoroethene	359-11-5	221.01	19.142	1,2
436	C2Cl2F2	1,1-dichloro-2,2-difluoroethene	79-35-6	292.15	24.336	1,2	555	C2HF3N2	2,2,2-trifluorodiazoethane	371-67-5	274.15	22.692	1,2
437	C2Cl2F2	1,2-dichloro-1,2-difluoroethene	598-88-9	294.25	24.529	1,2	556	C2HF3O2	trifluoroacetic acid	76-05-1	344.95	31.604	1,2
438	C2Cl2F2	dichlorodifluoroethylene	27156-03-2	293.20	24.433	2	558	C2HF5	pentafluoroethane	354-33-6	225.15	19.147	1,2
440	C2Cl2F3I	1,2-dichloro-1,1,2-trifluoro-2-iodoethane	354-61-0	373.50	31.876	1,2	559	C2HF5O	trifluoromethyl difluoromethyl ether	3822-68-2	237.15	19.344	1,2
441	C2Cl2F4	1,2-dichloro-1,1,2,2-tetrafluoroethane	76-14-2	276.92	23.147	1,2	560	C2HF6NO4S2	bistrifluoromethanesulfonimide	82113-65-3	363.65	30.954	1,2
442	C2Cl2F4	1,1-dichloro-1,2,2,2-tetrafluoroethane	374-07-2	276.17	22.838	1,2	562	C2HI	iodoacetylene	14545-08-5	305.05	25.520	1,2
443	C2Cl2F4	dichlorotetrafluoroethane	1320-37-2	276.55	22.910	2	564	C2HN3	diazoacetonitrile	13138-21-1	248.15	20.334	1,2
444	C2Cl2N2S	3,5-dichloro-1,2,4-thiadiazole	2254-88-8	439.15	38.070	1,2	569	C2HNa	monosodium acetylide	1066-26-8	250.95	20.587	1,2
445	C2Cl2N2S	3,4-dichloro-1,2,5-thiadiazole	5728-20-1	430.65	37.263	1,2	573	C2H2AsCl3	dichloro-(2-chlorovinyl) arsine	541-25-3	466.45	40.670	1,2
446	C2Cl2O2	oxalyl chloride	79-37-8	336.65	28.440	1,2	574	C2H2BrCl	1-bromo-2-chloroethene	3018-09-5	357.75	30.403	1,2
447	C2Cl3F	trichlorofluoroethene	359-29-5	344.15	29.137	1,2	575	C2H2BrClF2	2-bromo-1-chloro-1,1-difluoroethane	421-01-2	341.55	28.895	1,2
449	C2Cl3F3	1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	320.75	27.215	1,2	576	C2H2BrClO	bromoacetyl chloride	22118-09-8	400.10	34.375	1,2
450	C2Cl3F3	1,1,1-trichloro-2,2,2-trifluoroethane	354-58-5	319.03	27.224	1,2	577	C2H2BrClO2	bromochloroacetic acid	5589-96-8	488.15	42.747	1,2
451	C2Cl3N	trichloroacetonitrile	545-06-2	358.85	30.506	1,2	578	C2H2BrFO2	bromofluoroacetic acid	359-25-1	456.15	39.687	1,2
452	C2Cl3NO	trichloromethyl isocyanate	30121-98-3	394.15	33.814	1,2	579	C2H2BrF3	2-bromo-1,1,1-trifluoroethane	421-06-7	299.15	24.978	1,2
453	C2Cl3NS	thiocyanic acid, trichloromethyl ester	20233-04-9	293.65	24.474	1,2	580	C2H2BrN	bromoacetonitrile	590-17-0	334.15	28.208	1,2
455	C2Cl4	tetrachloroethylene	127-18-4	394.40	34.344	1,2	581	C2H2Br2	1,1-dibromoethene	593-92-0	365.15	31.094	1,2
456	C2Cl4F2	1,1,2,2-tetrachloro-1,2-difluoroethane	76-12-0	366.00	31.828	1,2	582	C2H2Br2	cis-1,2-dibromoethene	590-11-4	385.65	33.015	1,2
457	C2Cl4F2	1,1,1,2-tetrachloro-2,2-difluoroethane	76-11-9	364.65	31.179	1,2	583	C2H2Br2	trans-1,2-dibromoethene	590-12-5	381.15	32.593	1,2
459	C2Cl4O	trichloroacetyl chloride	76-02-8	391.15	35.950	1,2	584	C2H2Br2	1,2-dibromoethylene; (cis+trans)	540-49-8	384.10	32.870	1,2
461	C2Cl4O2	diphosgene	503-38-8	401.15	34.474	1,2	585	C2H2Br2Cl2	1,2-dibromo-1,1-dichloroethane	75-81-0	468.15	40.833	1,2
462	C2Cl5F	pentachlorofluoroethane	354-56-3	411.05	35.534	1,2	586	C2H2Br2Cl2	1,2-dibromo-1,2-dichloroethane	683-68-1	468.15	40.833	1,2
463	C2Cl6	hexachloroethane	67-72-1	460.00	49.000	1,2	587	C2H2Br2F2	1,2-dibromo-1,1-difluoroethane	75-82-1	365.65	31.141	1,2
466	C2Cl6Si2	bis(trichlorosilyl)acetylene	18038-55-6	446.65	38.783	1,2	588	C2H2Br2O	bromoacetyl bromide	598-21-0	421.65	36.410	1,2
469	C2Cr3	chromium carbide	12012-35-0	4,073.05	428.514	1,2	592	C2H2Br4	1,1,2,2-tetrabromoethane	79-27-6	516.65	52.394	1,2
470	C2Cs2	cesium acetylide	22750-56-7	408.15	35.134	2	593	C2H2Br4	1,1,1,2-tetrabromoethane	630-16-0	523.15	52.101	1,2
474	C2CuN2	copper(ii) cyanide	14763-77-0	314.15	26.359	1,2	600	C2H2ClF	1-chloro-1-fluoroethene	2317-91-1	249.00	20.411	1,2
477	C2Cu2O	dicopper(i) ketenide	41084-90-6	111.65	8.408	1,2	601	C2H2ClF	1-chloro-2-fluoroethene	460-16-2	283.00	23.499	1,2
480	C2F2O2	oxalyl fluoride	359-40-0	299.70	25.029	1,2	603	C2H2ClFO2	chlorofluoroacetic acid	471-44-3	435.15	37.690	1,2
481	C2F3I	trifluoroiodoethene	359-37-5	303.15	25.346	1,2	604	C2H2ClF3	1-chloro-1,1,2-trifluoroethane	421-04-5	285.15	22.982	1,2
484	C2F3N	trifluoroacetonitrile	353-85-5	204.35	16.415	1,2	605	C2H2ClF3	1-chloro-1,2,2-trifluoroethane	431-07-2	290.15	23.243	1,2
488	C2F4	tetrafluoroethylene	116-14-3	197.51	16.858	1,2	606	C2H2ClF3	2-chloro-1,1,1-trifluoroethane	75-88-7	279.25	23.643	1,2
489	C2F4I2	1,2-diiodotetrafluoroethane	354-65-4	385.65	33.015	1,2	608	C2H2ClF3S	chloromethyl trifluoromethyl sulfide	460-58-2	336.65	28.440	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
609	C2H2ClI	1-chloro-2-iodoethene	20244-71-7	392.15	33.626	1,2	740	C2H3F3O3S	methyl trifluoromethanesulfonate	333-27-7	369.65	31.515	1,2
610	C2H2ClIO	2-iodosylvinyl chloride	---	279.45	23.175	1,2	741	C2H3F3S	2,2,2-trifluoroethanethiol	1544-53-2	307.65	25.760	1,2
612	C2H2ClN	chloroacetonitrile	107-14-2	399.65	34.332	1,2	743	C2H3I	vinyl iodide	593-66-8	329.15	27.710	1,2
613	C2H2ClNS	chloromethyl thiocyanate	3268-79-9	458.15	39.878	1,2	744	C2H3IO	acetyl iodide	507-02-8	381.15	32.593	1,2
615	C2H2Cl2	1,1-dichloroethylene	75-35-4	304.71	26.607	1,2	746	C2H3I3	1,1,1-triiodoethane	594-21-8	521.35	44.812	2
616	C2H2Cl2	cis-1,2-dichloroethylene	156-59-2	333.65	29.749	1,2	747	C2H3I3	1,1,2-triiodoethane	---	524.14	45.878	2
617	C2H2Cl2	trans-1,2-dichloroethylene	156-60-5	320.85	28.221	1,2	751	C2H3Li	vinyllithium	917-57-7	215.65	17.419	1,2
618	C2H2Cl2	dichloroethylene	25323-30-2	333.15	32.782	1,2	753	C2H3N	acetonitrile	75-05-8	354.75	30.299	1,2
619	C2H2Cl2	1,2-dichloroethylene, cis and trans	540-59-0	328.15	31.154	1,2	754	C2H3N	methyl isocyanide	593-75-9	332.16	29.020	1,2
620	C2H2Cl2F2	1,1-dichloro-1,2-difluoroethane	1842-05-3	315.33	26.885	2	755	C2H3NO	methyl isocyanate	624-83-9	312.00	26.775	1,2
621	C2H2Cl2F2	1,1-dichloro-2,2-difluoroethane	471-43-2	333.15	28.481	1,2	756	C2H3NO	hydroxyacetonitrile	107-16-4	456.15	39.687	2
622	C2H2Cl2F2	1,2-dichloro-1,1-difluoroethane	1649-08-7	319.78	27.791	1,2	757	C2H3NO2	nitroethene	3638-64-0	371.65	31.702	1,2
623	C2H2Cl2F2	1,2-dichloro-1,2-difluoroethane	431-06-1	319.95	27.227	1,2	762	C2H3NO5	peroxyacetyl nitrate	2278-22-0	394.65	33.861	1,2
625	C2H2Cl2O	chloroacetyl chloride	79-04-9	379.15	36.220	1,2	763	C2H3NS	methyl isothiocyanate	556-61-6	392.15	33.626	1,2
626	C2H2Cl2O	dichloroacetaldehyde	79-02-7	362.00	34.146	1,2	764	C2H3NS	methyl thiocyanate	556-64-9	406.05	34.936	1,2
627	C2H2Cl2O2	dichloroacetic acid	79-43-6	467.15	49.505	1,2	766	C2H3N3	1H-1,2,3-triazole	288-36-8	477.15	41.693	1,2
628	C2H2Cl2O2	chloromethyl chloroformate	22128-62-7	380.15	32.499	1,2	767	C2H3N3	1,2,4-triazole	288-88-0	533.15	47.078	1,2
630	C2H2Cl3F	1,1,1-trichloro-2-fluoroethane	2366-36-1	366.00	31.530	1,2	787	C2H4	ethylene	74-85-1	169.47	13.463	1,2
631	C2H2Cl3F	1,1,2-trichloro-1-fluoroethane	811-95-0	361.15	31.027	1,2	788	C2H4AsCl3	b-chloroethyldichloroarsine	30077-45-3	422.15	36.457	1,2
632	C2H2Cl3F	1,1,2-trichloro-2-fluoroethane	359-28-4	375.15	30.276	1,2	789	C2H4BrCl	1-bromo-1-chloroethane	593-96-4	356.15	30.254	1,2
633	C2H2Cl3NO	2,2,2-trichloroacetamide	594-65-0	513.15	45.149	1,2	790	C2H4BrCl	1-bromo-2-chloroethane	107-04-0	380.15	32.499	1,2
635	C2H2Cl4	1,1,1,2-tetrachloroethane	630-20-6	403.65	35.409	1,2	792	C2H4BrF	1-bromo-2-fluoroethane	762-49-2	344.65	29.183	1,2
636	C2H2Cl4	1,1,2,2-tetrachloroethane	79-34-5	418.25	38.488	1,2	793	C2H4BrI	1-bromo-2-iodoethane	590-16-9	436.15	37.785	1,2
640	C2H2FN	fluoroacetonitrile	503-20-8	352.65	29.928	1,2	794	C2H4BrN	1-bromoaziridine	19816-89-8	361.65	30.767	1,2
642	C2H2F2	1,1-difluoroethylene	75-38-7	190.15	15.120	1,2	798	C2H4Br2	1,1-dibromoethane	557-91-5	381.15	34.969	1,2
643	C2H2F2	cis-1,2-difluoroethene	1630-77-9	245.15	21.415	1,2	799	C2H4Br2	1,2-dibromoethane	106-93-4	404.51	35.790	1,2
644	C2H2F2	trans-1,2-difluoroethene	1630-78-0	245.15	21.415	2	800	C2H4Br2O	bis(bromomethyl) ether	4497-29-4	427.65	36.978	1,2
646	C2H2F2O2	difluoroacetic acid	381-73-7	406.15	34.945	1,2	801	C2H4ClF	1-chloro-1-fluoroethane	1615-75-4	289.30	24.382	1,2
647	C2H2F3I	1,1,1-trifluoro-2-iodoethane	353-83-3	327.65	27.606	1,2	802	C2H4ClF	1-chloro-2-fluoroethane	762-50-5	326.15	27.915	1,2
648	C2H2F3NO	trifluoroacetamide	354-38-1	436.05	37.775	1,2	803	C2H4ClI	1-chloro-2-iodoethane	624-70-4	413.15	35.606	1,2
649	C2H2F3NO2	1,1,1-trifluoro-2-nitroethane	819-07-8	369.15	31.468	1,2	804	C2H4ClN	1-chloroaziridine	25167-31-1	334.45	28.236	1,2
650	C2H2F4	1,1,1,2-tetrafluoroethane	811-97-2	247.15	20.972	1,2	805	C2H4ClN	N-chloroaziridine	10165-13-6	345.05	29.220	1,2
651	C2H2F4	1,1,2,2-tetrafluoroethane	359-35-3	253.10	21.795	1,2	806	C2H4ClNO	2-chloroacetamide	79-07-2	498.15	43.706	1,2
656	C2H2IN	iodoacetonitrile	624-75-9	458.15	39.878	1,2	807	C2H4ClNO	N-chloroacetamide	598-49-2	498.15	43.706	2
660	C2H2I4	1,1,1,2-tetraiodoethane	---	614.49	53.830	2	808	C2H4ClNO2	1-chloro-1-nitroethane	598-92-5	397.65	34.144	1,2
661	C2H2I4	1,1,2,2-tetraiodoethane	---	619.12	54.648	2	809	C2H4ClNO2	2-chloronitroethane	625-47-8	446.65	38.783	1,2
664	C2H2N2O	1,3,4-oxadiazole	288-99-3	423.15	36.552	1,2	812	C2H4Cl2	1,1-dichloroethane	75-34-3	330.45	29.231	1,2
666	C2H2N2S	1,2,4-thiadiazole	288-92-6	394.15	33.814	1,2	813	C2H4Cl2	1,2-dichloroethane	107-06-2	356.59	32.163	1,2
667	C2H2N2S	1,2,5-thiadiazole	288-39-1	367.15	31.281	1,2	814	C2H4Cl2	dichloroethane	1300-21-6	343.52	31.002	2
668	C2H2N2S	1,3,4-thiadiazole	289-06-5	477.15	41.693	1,2	816	C2H4Cl2O	bis(chloromethyl) ether	542-88-1	378.00	34.863	1,2
678	C2H2N6	3-azido-1,2,4-triazole	---	322.65	27.143	1,2	817	C2H4Cl2O	2,2-dichloroethanol	598-38-9	419.15	36.173	1,2
681	C2H2O	ketene	463-51-4	223.34	19.390	1,2	818	C2H4Cl2O	dichloromethyl methyl ether	4885-02-3	357.05	30.338	1,2
682	C2H2O2	glyoxal	107-22-2	323.55	27.227	1,2	819	C2H4Cl2O2	1,2-dichloroethyl hydroperoxide	90584-32-0	242.15	19.793	1,2
684	C2H2O4	oxalic acid	144-62-7	569.00	72.570	1,2	820	C2H4Cl2O2S	2-chloroethanesulfonyl chloride	1622-32-8	474.65	41.454	1,2
688	C2H3Br	vinyl bromide	593-60-2	288.95	24.716	1,2	821	C2H4Cl2O8	ethylene diperchlorate	52936-25-1	282.05	23.412	1,2
689	C2H3BrF2	2-bromo-1,1-difluoroethane	359-07-9	330.35	27.856	1,2	823	C2H4Cl3NO	1-amino-2,2,2-trichloroethanol	507-47-1	373.15	31.843	2
690	C2H3BrHgO2	methyl-(bromomercuri)formate	23471-23-0	314.15	26.359	1,2	826	C2H4Cl4Si	dichloro(dichloromethyl)methylsilane	1558-31-2	422.15	36.457	1,2
691	C2H3BrO	acetyl bromide	506-96-7	349.15	29.602	1,2	827	C2H4Cl4Si	beta-chloroethyl trichloro silane	6233-20-1	425.00	36.727	1,2
692	C2H3BrO	bromoacetaldehyde	17157-48-1	382.50	32.719	1,2	828	C2H4Cl6Si2	1,2-bis(trichlorosilyl)ethane	2504-64-5	474.65	41.454	1,2
693	C2H3BrO2	bromoacetic acid	79-08-3	481.15	42.076	1,2	829	C2H4Cs2	ethylenedicesium	65313-36-2	232.35	18.913	1,2
694	C2H3BrO2	acetyl hypobromite	4254-22-2	448.15	38.925	1,2	834	C2H4F2	1,1-difluoroethane	75-37-6	247.35	21.732	1,2
697	C2H3Br3	1,1,1-tribromoethane	2311-14-0	446.15	42.029	1,2	835	C2H4F2	1,2-difluoroethane	624-72-6	303.65	26.179	1,2
698	C2H3Br3	1,1,2-tribromoethane	78-74-0	462.08	44.469	1,2	836	C2H4F2O	2,2-difluoroethanol	359-13-7	368.65	31.422	1,2
701	C2H3Cl	vinyl chloride	75-01-4	259.78	22.823	1,2	837	C2H4F3N	2,2,2-trifluoroethylamine	753-90-2	310.10	25.985	1,2
702	C2H3ClF2	1-chloro-1,1-difluoroethane	75-68-3	263.14	22.457	1,2	839	C2H4F4N2O	1,2-bis(difluoroamino)ethanol	13084-47-4	190.95	15.231	1,2
703	C2H3ClF2	1-chloro-1,2-difluoroethane	338-64-7	280.69	23.918	2	840	C2H4F4N4O2	1,2-bis(difluoroamino)-N-nitroethylamine	18273-30-8	435.15	37.690	1,2
704	C2H3ClF2	2-chloro-1,1-difluoroethane	338-65-8	308.25	26.386	1,2	844	C2H4I2	1,1-diiodoethane	594-02-5	452.15	38.856	1,2
707	C2H3ClO	acetyl chloride	75-36-5	323.90	30.055	1,2	845	C2H4I2	1,2-diiodoethane	624-73-7	473.16	40.882	1,2
708	C2H3ClO	chloroacetaldehyde	107-20-0	358.00	34.104	1,2	849	C2H4NNaS2	sodium methyldithiocarbamate	137-42-8	383.15	32.780	1,2
710	C2H3ClO2	chloroacetic acid	79-11-8	462.50	45.153	1,2	857	C2H4N2O3	2-nitroacetaldehyde oxime	5653-21-4	298.85	24.951	1,2
711	C2H3ClO2	methyl chloroformate	79-22-1	344.00	33.681	1,2	859	C2H4N2O4	1,1-dinitroethane	600-40-8	458.65	39.926	1,2
712	C2H3ClO2S	methoxycarbonylsulfenyl chloride	26555-40-8	406.65	34.992	1,2	860	C2H4N2O4	1,2-dinitroethane	7570-26-5	458.65	39.926	2
713	C2H3ClO6	peroxyacetyl perchlorate	66955-43-9	360.95	30.702	1,2	861	C2H4N2O4	ethylene glycol dinitrite	629-16-3	371.15	31.656	1,2
714	C2H3Cl2F	1,1-dichloro-1-fluoroethane	1717-00-6	304.90	25.769	1,2	865	C2H4N2O6	ethylene glycol dinitrate	628-96-6	471.65	41.167	1,2
715	C2H3Cl2F	1,1-dichloro-2-fluoroethane	430-53-5	305.00	26.123	2	884	C2H4O	acetaldehyde	75-07-0	293.55	23.991	1,2
716	C2H3Cl2F	1,2-dichloro-1-fluoroethane	430-57-9	346.95	29.902	1,2	885	C2H4O	ethylene oxide	75-21-8	283.85	25.697	1,2
717	C2H3Cl2NO	2,2-dichloroacetamide	683-72-7	507.15	44.572	1,2	886	C2H4O	polyvinyl alcohol	9002-89-5	613.15	54.855	1,2
718	C2H3Cl2NO2	1,1-dichloro-1-nitroethane	594-72-9	396.65	34.050	1,2	888	C2H4OS	thioacetic-acid	507-09-5	360.16	34.464	1,2
720	C2H3Cl3	1,1,1-trichloroethane	71-55-6	347.23	29.839	1,2	889	C2H4O2	acetic acid	64-19-7	391.05	23.330	1,2
721	C2H3Cl3	1,1,2-trichloroethane	79-00-5	387.00	34.620	1,2	890	C2H4O2	methyl formate	107-31-3	304.90	28.186	1,2
723	C2H3Cl3O	2,2,2-trichloroethanol	115-20-8	425.15	36.741	1,2	893	C2H4O3	glycolic acid	79-14-1	373.15	31.843	1,2
724	C2H3Cl3O2	chloral hydrate	302-17-0	369.15	31.468	2	894	C2H4O3	peroxyacetic acid	79-21-0	383.15	32.780	1,2
725	C2H3Cl3Si	trichlorovinylsilane	75-94-5	364.65	31.048	1,2	896	C2H4O3S	ethylene glycol sulfite	3741-38-6	446.15	38.735	1,2
728	C2H3F	vinyl fluoride	75-02-5	200.95	18.322	1,2	898	C2H4O5S	sulfoacetic acid	123-43-3	518.15	45.631	2
731	C2H3FO	acetyl fluoride	557-99-3	293.95	24.501	1,2	901	C2H4S	ethylene sulfide	420-12-2	328.07	29.204	1,2
733	C2H3FO2	fluoroacetic acid	144-49-0	441.15	38.260	1,2	904	C2H4Si	ethynylsilane	1066-27-9	250.65	20.560	1,2
735	C2H3F3	1,1,1-trifluoroethane	420-46-2	225.75	19.459	1,2	905	C2H5AlCl2	dichloroethylaluminum	563-43-9	467.15	40.737	1,2
736	C2H3F3	1,1,2-trifluoroethane	430-66-0	276.85	23.424	1,2	908	C2H5AsF2	ethyldifluoroarsine	430-40-0	367.45	31.309	1,2
737	C2H3F3O	methyl trifluoromethyl ether	421-14-7	249.15	20.425	1,2	910	C2H5Br	bromoethane	74-96-4	311.50	27.526	1,2
738	C2H3F3O	2,2,2-trifluoroethanol	75-89-8	347.15	29.416	1,2	912	C2H5BrO	2-bromoethanol	540-51-2	423.15	36.552	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
913	C2H5BrO	bromomethoxymethane	13057-17-5	360.15	30.627	1,2	1071	C2H6OSn	dimethyloxostannane	2273-45-2	364.15	31.001	1,2
914	C2H5Cl	ethyl chloride	75-00-3	285.42	24.750	1,2	1072	C2H6O2	ethylene glycol	107-21-1	470.45	52.495	1,2
917	C2H5ClO	2-chloroethanol	107-07-3	401.75	41.660	1,2	1073	C2H6O2	dimethylperoxide	690-02-8	287.15	23.879	1,2
918	C2H5ClO	chloromethyl methyl ether	107-30-2	332.65	28.069	1,2	1074	C2H6O2	ethyl hydroperoxide	3031-74-1	368.15	31.375	1,2
919	C2H5ClO	ethyl hypochlorite	624-85-1	310.15	25.990	1,2	1075	C2H6O2S	dimethyl sulfone	67-71-0	511.15	44.956	1,2
920	C2H5ClO2S	ethanesulfonyl chloride	594-44-5	447.15	38.830	1,2	1077	C2H6O3	hydroxymethyl methyl peroxide	---	358.85	30.506	1,2
922	C2H5ClO3S	ethyl chlorosulfonate	625-01-4	425.65	36.789	1,2	1078	C2H6O3S	dimethyl sulfite	616-42-2	399.15	34.285	1,2
924	C2H5ClS	2-chloroethanethiol	4325-97-7	386.15	33.062	1,2	1080	C2H6O3S	methyl methanesulfonate	66-27-3	475.65	41.550	1,2
925	C2H5ClS	chloro(methylthio)methane	2373-51-5	378.15	32.311	1,2	1083	C2H6O4S	dimethyl sulfate	77-78-1	461.95	47.951	1,2
926	C2H5Cl2OP	ethyl dichlorophosphite	1498-42-6	390.65	33.485	1,2	1084	C2H6O4S	ethyl sulfate	540-82-9	461.95	38.375	2
930	C2H5Cl2N	2,2-dichloroethylamine	5960-88-3	398.85	34.257	1,2	1092	C2H6S	ethyl mercaptan	75-08-1	308.15	26.870	1,2
932	C2H5Cl2P	dichloroethylphosphine	1498-40-4	385.15	32.968	1,2	1093	C2H6S	dimethyl sulfide	75-18-3	310.48	26.908	1,2
934	C2H5Cl3Ge	ethylgermanium trichloride	993-42-0	413.15	35.606	1,2	1094	C2H6S2	dimethyl disulfide	624-92-0	382.90	34.342	1,2
935	C2H5Cl3OSi	trichloroethoxysilane	1825-82-7	375.05	32.021	1,2	1095	C2H6S2	1,2-ethanedithiol	540-63-6	419.25	36.183	1,2
936	C2H5Cl3Si	dichloro(chloromethyl)methylsilane	1558-33-4	394.65	33.861	1,2	1097	C2H6Se	dimethyl selenide	593-79-3	330.15	27.837	1,2
937	C2H5Cl3Si	trichloroethylsilane	115-21-9	373.65	31.890	1,2	1098	C2H6Se2	dimethyl diselenide	7101-31-7	429.15	37.121	1,2
938	C2H5Cl3Sn	ethyltin trichloride	1066-57-5	470.15	41.024	1,2	1099	C2H6Zn	dimethyl zinc	544-97-8	319.15	26.820	1,2
939	C2H5F	ethyl fluoride	353-36-6	235.45	19.957	1,2	1100	C2H7Al	dimethylaluminum hydride	865-37-2	365.95	31.169	1,2
940	C2H5FO	2-fluoroethanol	371-62-0	376.65	32.171	1,2	1101	C2H7As	dimethylarsine	593-57-7	309.15	25.898	1,2
941	C2H5FO	fluoroethanol	63919-01-7	376.65	32.171	2	1102	C2H7As	ethylarsine	593-59-9	309.15	25.898	1,2
943	C2H5F3N2	2,2,2-trifluoroethylhydrazine	5042-30-8	370.15	31.562	1,2	1107	C2H7BO2	dimethoxyborane	4542-61-4	299.05	24.969	1,2
944	C2H5F3OSi	ethoxytrifluorosilane	460-55-9	266.15	21.964	1,2	1112	C2H7ClSi	chlorodimethylsilane	1066-35-9	308.40	25.829	1,2
945	C2H5F3Si	ethyltrifluorosilane	353-89-9	268.75	22.201	1,2	1113	C2H7HgO4P	ethylmercuric phosphate	2235-25-8	388.15	33.250	1,2
947	C2H5HgNO4	2-hydroxyethylmercury(ii) nitrate	51821-32-0	213.15	17.197	1,2	1115	C2H7N	ethylamine	75-04-7	289.73	27.349	1,2
948	C2H5I	ethyl iodide	75-03-6	345.45	30.030	1,2	1116	C2H7N	dimethylamine	124-40-3	280.03	26.636	1,2
950	C2H5IO	2-iodoethanol	624-76-0	449.15	39.021	2	1117	C2H7NO	monoethanolamine	141-43-5	444.15	51.534	1,2
951	C2H5IO	iodomethoxymethane	13057-19-7	395.15	33.908	1,2	1118	C2H7NO	1-aminoethanol	75-39-8	444.15	55.521	2
954	C2H5N	ethyleneimine	151-56-4	329.00	31.752	1,2	1123	C2H7NO2	o-(2-hydroxyethyl)hydroxylamine	3279-95-6	536.15	47.368	1,2
955	C2H5NO	acetaldoxime	107-29-9	388.15	33.250	1,2	1124	C2H7NO2S	N-methylmethanesulfonamide	1184-85-6	254.15	20.876	1,2
956	C2H5NO	acetamide	60-35-5	494.30	55.610	1,2	1130	C2H7N3	1,3-dimethyl-1-triazine	3585-32-8	459.95	40.050	1,2
957	C2H5NO	N-methylformamide	123-39-7	472.66	47.224	1,2	1132	C2H7N3O	glycine hydrazide	14379-80-7	423.15	36.552	2
958	C2H5NO2	nitroethane	79-24-3	387.22	36.105	1,2	1134	C2H7N5	imidodicarbonimidic diamide	56-03-1	415.15	35.795	2
959	C2H5NO2	ethyl nitrite	109-95-5	291.15	24.245	1,2	1136	C2H7N5O5	1-methyl-3-nitroguanidinium nitrate	---	246.95	20.226	1,2
961	C2H5NO2	methyl carbamate	598-55-0	450.15	39.116	1,2	1137	C2H7O2P	dimethylphosphinic acid	3283-12-3	650.15	58.482	1,2
964	C2H5NO3	ethyl nitrate	625-58-1	360.36	30.647	1,2	1139	C2H7O3P	dimethyl hydrogen phosphite	868-85-9	443.65	38.497	1,2
965	C2H5NO3	2-nitroethanol	625-48-9	467.15	40.737	1,2	1141	C2H7O4P	dimethyl hydrogen phosphate	813-78-5	447.15	38.830	2
968	C2H5N3	ethyl azide	871-31-8	1,769.15	173.862	1,2	1143	C2H7P	dimethylphosphine	676-59-5	298.15	24.887	1,2
978	C2H5NaO	sodium ethoxide	141-52-6	364.15	31.001	1,2	1144	C2H7P	ethyl phosphine	593-68-0	298.15	24.887	1,2
979	C2H5NaO2	sodium-2-hydroxyethoxide	7388-28-5	83.15	6.058	1,2	1149	C2H8ClNO4	dimethylammonium perchlorate	14488-49-4	294.40	24.543	1,2
981	C2H5OK	potassium ethoxide	917-58-8	194.65	15.557	1,2	1153	C2H8Cl2N2Pt	dichloro(ethylenediammine)platinum(ii)	14096-51-6	235.45	19.191	1,2
982	C2H5OTl	thallium(i) ethoxide	20398-06-5	403.15	34.662	2	1158	C2H8P2	1,2-diphosphinoethane	5518-62-7	382.15	32.687	1,2
985	C2H6	ethane	74-84-0	184.55	14.689	1,2	1159	C2H8N2	ethylenediamine	107-15-3	390.41	40.010	1,2
986	C2H6AlCl	dimethylaluminum chloride	1184-58-3	399.15	34.190	1,2	1160	C2H8N2	1,1-dimethylhydrazine	57-14-7	337.05	28.477	1,2
987	C2H6AsCl	dimethylarsinous chloride	557-89-1	382.15	32.687	1,2	1161	C2H8N2	1,2-dimethylhydrazine	540-73-8	354.15	30.068	1,2
988	C2H6AsF	dimethylfluoroarsine	420-23-5	319.65	26.866	1,2	1162	C2H8N2O	2-hydrazinoethanol	109-84-2	492.15	43.130	1,2
991	C2H6AsNaO2	sodium cacodylate	124-65-2	473.15	41.310	1,2	1168	C2H8Si	dimethyl silane	1111-74-6	253.55	20.073	1,2
992	C2H6As2S2	dimethyl arsinic sulfide	13367-92-5	323.35	27.208	1,2	1169	C2H9BS	borane-methyl sulfide complex	13292-87-0	317.15	26.635	1,2
993	C2H6BCl	dimethylchloroborane	1803-36-7	278.05	23.047	1,2	1172	C2H10BN	borane–dimethylamine complex	74-94-2	332.15	28.023	1,2
994	C2H6BF3O	boron trifluoride - dimethyl ether complex	353-42-4	400.15	34.379	2	1180	C2H10N2O	1,2-ethanediamine monohydrate	6780-13-8	391.15	33.532	1,2
995	C2H6BN3	azidodimethyl borane	---	222.15	17.999	1,2	1185	C2H12ClCoN8O4S2	tetraaminedithiocyanato cobalt(iii) perchlor*	36294-69-6	337.95	28.561	1,2
997	C2H6Be	dimethyl beryllium	506-63-8	317.15	26.635	2	1189	C2H18B10	ethyl decaborane	26747-87-5	279.10	23.143	1,2
1002	C2H6Br2Sn	dimethyltin dibromide	2767-47-7	483.65	42.315	1,2	1195	C2HgN10O4	mercury(ii) 5-nitrotetrazolide	60345-95-1	194.75	15.566	1,2
1007	C2H6ClNO2S	N,N-dimethylsulfamoyl chloride	13360-57-1	387.15	33.156	1,2	1197	C2Hg2N2O	mercuric oxycyanide	1335-31-5	629.75	56.480	1,2
1008	C2H6ClOP	dimethylphosphinic chloride	1111-92-8	477.15	41.693	1,2	1198	C2ITl	thallium(i) iodoacetylide	---	307.75	25.769	1,2
1009	C2H6ClO2PS	dimethyl chlorothiophosphate	2524-03-0	339.65	28.719	1,2	1201	C2K2N2O8Pt	potassium dinitrooxalatoplatinate(2-)	15213-49-7	262.15	21.601	1,2
1012	C2H6ClP	chlorodimethylphosphine	811-62-1	347.65	29.462	1,2	1203	C2K2N4O8	potassium-1,1,2,2-tetranitroethandiide	32607-31-1	272.15	22.510	1,2
1014	C2H6Cl2Ge	dimethylgermanium dichloride	1529-48-2	396.15	34.003	1,2	1210	C2N2	cyanogen	460-19-5	252.00	23.413	1,2
1015	C2H6Cl2NP	dimethylphosphoramidous dichloride	683-85-2	423.15	36.552	1,2	1225	C2N6O2W	dicarbonyltungsten diazide	68379-32-8	189.15	15.073	1,2
1017	C2H6Cl2Si	dichlorodimethylsilane	75-78-5	343.45	29.072	1,2	1228	C2N8	diazidomethylenecyanamide	67880-22-2	463.15	40.355	2
1018	C2H6Cl2Si	ethyldichlorosilane	1789-58-8	347.90	29.486	1,2	1239	C2U	uranium carbide	12071-33-9	4,643.15	493.550	1,2
1019	C2H6Cl2Sn	dimethyltin dichloride	753-73-1	460.15	40.069	1,2	1242	C3Al4	aluminum carbide	1299-86-1	2,473.15	249.935	1,2
1027	C2H6F3NS	dimethylaminosulfur trifluoride	3880-03-3	390.65	33.485	1,2	1244	C3Br2F6	1,2-dibromohexafluoropropane	661-95-0	345.95	29.304	1,2
1030	C2H6Hg	dimethyl mercury	593-74-8	366.15	31.188	1,2	1246	C3ClF5	2-chloro-1,1,3,3,3-pentafluoro-1-propene	2804-50-4	279.95	23.221	1,2
1037	C2H6N2	trans-dimethyldiazene	4143-41-3	274.65	22.738	1,2	1247	C3ClF5	3-chloropentafluoropropene	79-47-0	279.95	23.221	2
1038	C2H6N2	azomethane	503-28-6	274.90	22.760	1,2	1248	C3ClF5O	chloropentafluoroacetone	79-53-8	281.15	23.330	1,2
1042	C2H6N2O	N-nitrosodimethylamine	62-75-9	425.15	36.741	1,2	1249	C3ClF5O2	pentafluoropropionyl hypochlorite	---	321.15	27.005	1,2
1043	C2H6N2O	diazene, dimethyl-, 1-oxide	25843-45-2	371.00	31.642	1,2	1252	C3Cl2F4	1,2-dichloro-1,3,3,3-tetrafluoro-1-propene	431-53-8	320.45	26.940	1,2
1046	C2H6N2O2	N-methyl-N-nitromethanamine	4164-28-7	460.15	40.069	1,2	1253	C3Cl2F4O	1,3-dichlorotetrafluoroacetone	127-21-9	317.65	26.682	1,2
1048	C2H6N2O2	N,O-dimethyl-N-nitrosohydroxylamine	16339-12-1	306.15	25.622	1,2	1254	C3Cl2F6	1,2-dichlorohexafluoropropane	661-97-2	307.25	25.723	1,2
1053	C2H6N4	N-azido methyl amine	---	276.65	22.920	1,2	1255	C3Cl2N2	dichloropropanedinitrile	13063-43-9	370.15	31.562	1,2
1054	C2H6N4O	(aminoiminomethyl)urea	141-83-3	433.15	37.500	2	1257	C3Cl3F3	1,1,2-trichloro-3,3,3-trifluoro-1-propene	431-52-7	361.25	30.730	1,2
1062	C2H6N6O6Sn	dimethyltin dinitrate	40237-34-1	277.25	22.974	1,2	1258	C3Cl3F5	1,1,1-trichloro-2,2,3,3,3-pentafluoropropane	4259-43-2	347.15	29.416	1,2
1063	C2H6N6S5	S,S-dimethylpentasulfur hexanitride	71901-54-7	336.65	28.440	1,2	1259	C3Cl3F5	1,2,2-trichloro-1,1,3,3,3-pentafluoropropane	1599-41-3	345.15	29.230	1,2
1064	C2H6N6Si	diazidodimethylsilane	4774-73-6	318.95	26.802	1,2	1260	C3Cl3F5	1,2,3-trichloro-1,1,2,3,3-pentafluoropropane	76-17-5	346.85	29.388	1,2
1065	C2H6O	ethyl alcohol	64-17-5	351.44	39.400	1,2	1263	C3Cl3N3	2,4,6-trichloro-1,3,5-triazine	108-77-0	465.15	40.546	1,2
1066	C2H6O	dimethyl ether	115-10-6	248.31	21.560	1,2	1265	C3Cl4	tetrachlorocyclopropene	6262-42-6	400.65	34.426	1,2
1067	C2H6OS	dimethyl sulfoxide	67-68-5	462.15	42.699	1,2	1266	C3Cl4F4	1,2,2,3-tetrachloro-1,1,3,3-tetrafluoropropa*	677-68-9	385.15	32.968	1,2
1068	C2H6OS	2-mercaptoethanol	60-24-2	431.15	37.310	1,2	1267	C3Cl4O	2,3,3-trichloro-2-propenoyl chloride	815-58-7	431.15	37.310	1,2
1069	C2H6OS2	S-methyl methanethiosulfinate	13882-12-7	394.35	33.833	1,2	1269	C3Cl6	hexachloropropene	1888-71-7	482.65	42.220	1,2
1070	C2H6OSi	polydimethylsiloxane	9016-00-6	478.15	41.789	1,2	1270	C3Cl6F2	hexachloro-2,2-difluoropropane	3182-26-1	469.95	41.005	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
1272	C3Cl6O	hexachloroacetone	116-16-5	476.15	41.597	1,2	1410	C3H3ClO2	2-chloroacrylic acid	598-79-8	361.15	30.721	1,2
1273	C3Cl6O2	trichloromethyl trichloroacetate	6135-29-1	464.65	40.498	1,2	1412	C3H3ClO2	vinyl chloroformate	5130-24-5	341.65	28.904	1,2
1274	C3Cl6O3	bis(trichloromethyl) carbonate	32315-10-9	476.15	41.597	1,2	1414	C3H3ClO3	methyl chlorooxoacetate	5781-53-3	392.15	33.626	1,2
1275	C3CoNO4	cobalt tricarbonyl nitrosyl	14096-82-3	320.00	26.899	1,2	1416	C3H3Cl2F	1,1-dichloro-2-fluoropropene	430-95-5	351.15	29.788	1,2
1276	C3CrK3N3O4	potassium tricyanodiperoxochromate (3-)	65521-60-0	332.15	28.023	1,2	1417	C3H3Cl2F3	2,3-dichloro-1,1,1-trifluoropropane	338-75-0	349.50	29.634	1,2
1279	C3F3NO2	trifluoroacetylisocyanate	14565-32-3	310.65	26.036	1,2	1419	C3H3Cl3	1,1,2-trichloro-1-propene	21400-25-9	391.15	33.532	1,2
1280	C3F3NO3	2-trifluoroacetyl-1,3,4-dioxazalone	87050-94-0	328.15	27.652	1,2	1420	C3H3Cl3	1,2,3-trichloropropene	96-19-5	415.15	35.795	1,2
1281	C3F4O	trifluoroacryloyl fluoride	667-49-2	304.75	25.493	1,2	1421	C3H3Cl3	3,3,3-trichloro-1-propene	2233-00-3	387.65	33.203	1,2
1282	C3F4O3S	O-trifluoroacetyl-S-fluoroformyl thioperoxide	27961-70-2	319.15	26.820	1,2	1422	C3H3Cl3	1,1,3-trichloro-1-propene	2567-14-8	404.70	34.808	1,2
1283	C3F3N3	cyanuric fluoride	675-14-9	345.85	29.295	1,2	1424	C3H3Cl3O	(trichloromethyl)oxirane	3083-23-6	422.15	36.457	1,2
1284	C3F6	hexafluoropropylene	116-15-4	243.55	19.400	1,2	1425	C3H3Cl3O	1,1,1-trichloro-2-propanone	918-00-3	422.15	36.457	1,2
1286	C3F6NP	bis(trifluoromethyl)cyanophosphine	431-97-0	382.15	32.687	1,2	1427	C3H3Cl3O	2,2-dichloropropanoyl chloride	26073-26-7	391.15	33.532	1,2
1287	C3F6O	hexafluoroacetone	684-16-2	245.88	21.744	1,2	1430	C3H3Cl3O	1,1,3-trichloroacetone	921-03-9	445.15	38.640	1,2
1288	C3F6O	perfluorooxetane	425-82-1	244.15	19.974	1,2	1432	C3H3Cl3O	2,3,3-trichloro-2-propen-1-ol	3266-39-5	349.85	29.667	1,2
1290	C3F6O	pentafluoropropionyl fluoride	422-61-7	246.00	20.140	1,2	1433	C3H3Cl3O2	methyl trichloroacetate	598-99-2	426.95	36.912	1,2
1292	C3F6O2	pentafluoropropionyl hypofluorite	5930-63-2	363.65	30.954	1,2	1436	C3H3Cl3S3	trichloromethyl methyl perthioxanthate	25991-93-9	382.65	32.734	1,2
1293	C3F6O4S	trifluoroacetyl triflate	68602-57-3	335.15	28.301	1,2	1437	C3H3Cl5	1,1,1,2,3-pentachloropropane	21700-31-2	452.65	39.354	1,2
1294	C3F7I	heptafluoro-2-iodopropane	677-69-0	312.10	26.170	1,2	1438	C3H3Cl5	1,1,2,3,3-pentachloropropane	15104-61-7	472.15	41.215	1,2
1295	C3F7I	heptafluoro-1-iodopropane	754-34-7	313.70	26.317	1,2	1439	C3H3Cl5	1,1,2,2,3-pentachloropropane	16714-68-4	464.40	40.474	1,2
1296	C3F7I	heptafluoroiodopropane	27636-85-7	312.90	26.243	2	1440	C3H3Cu	1-propynyl copper(i)	30645-13-7	259.25	21.338	1,2
1297	C3F7N	1-fluoroiminohexafluoropropane	78343-32-5	467.15	40.737	1,2	1441	C3H3F3	3,3,3-trifluoropropene	677-21-4	256.15	21.057	1,2
1298	C3F7N	2-fluoroiminohexafluoropropane	2802-70-2	467.15	40.737	2	1442	C3H3F3O	1,1,1-trifluoroacetone	421-50-1	295.05	24.602	1,2
1299	C3F8	octafluoropropane	76-19-7	236.40	19.701	1,2	1445	C3H3F3O2	methyl trifluoroacetate	431-47-0	316.55	26.580	1,2
1301	C3F8O2	perfluorodimethoxymethane	53772-78-4	263.15	21.692	1,2	1446	C3H3F3O2	3,3,3-trifluoropropionic acid	2516-99-6	418.65	36.126	1,2
1302	C3F8O2	1,1-bis(fluorooxy)hexafluoropropane	72985-54-7	487.15	42.651	1,2	1448	C3H3F4I	1,1,2,2-tetrafluoro-3-iodopropane	679-87-8	370.15	31.562	1,2
1305	C3F9GeI	iodotris(trifluoromethyl)germanium	66348-18-3	345.15	29.230	1,2	1449	C3H3F5	1,1,1,2,2-pentafluoropropane	1814-88-6	253.15	21.099	1,2
1310	C3F9P	tris(trifluoromethyl)phosphine	432-04-2	408.25	35.143	1,2	1450	C3H3F5	1,1,1,2,3-pentafluoropropane	431-31-2	270.00	23.012	2
1315	C3HClO	propioloyl chloride	50277-65-1	293.95	24.501	1,2	1451	C3H3F5	1,1,1,3,3-pentafluoropropane	460-73-1	270.00	23.012	2
1316	C3HCl2F3	1,2-dichloro-3,3,3-trifluoropropene	431-27-6	326.85	27.532	1,2	1452	C3H3F5	1,1,2,2,3-pentafluoropropane	679-86-7	299.15	25.624	1,2
1317	C3HCl2F5	3,3-dichloro-1,1,2,2-pentafluoropropane	422-56-0	324.15	27.282	1,2	1453	C3H3F5	1,1,2,3,3-pentafluoropropane	24270-66-4	300.00	25.889	2
1318	C3HCl2F5	1,3-dichloro-1,1,2,2,3-pentafluoropropane	507-55-1	327.25	27.569	1,2	1454	C3H3F5O	perfluoroethyl methyl ether	---	278.74	23.110	1,2
1323	C3HCl3O2	2,3,3-trichloro-2-propenoic acid	2257-35-4	495.15	43.418	1,2	1455	C3H3F5O	2,2,3,3,3-pentafluoro-1-propanol	422-05-9	354.15	30.068	1,2
1324	C3HCl5	1,1,2,3,3-pentachloro-1-propene	1600-37-9	458.15	39.878	1,2	1457	C3H3F6N3O3	1,1-bis(difluoroamino)-2,2-difluoro-2-nitroe*	30957-47-2	397.15	34.097	1,2
1328	C3HCl7	1,1,1,2,2,3,3-heptachloropropane	594-89-8	520.65	45.872	1,2	1458	C3H3I	1-iodo-1-propyne	624-66-8	383.15	32.780	1,2
1329	C3HCl7	1,1,1,2,3,3,3-heptachloropropane	3849-33-0	522.15	46.016	1,2	1459	C3H3I	3-iodo-1-propyne	659-86-9	388.15	33.250	1,2
1331	C3HF5O2	pentafluoropropionic acid	422-64-0	369.95	31.543	1,2	1461	C3H3KN4O2	potassium-1-tetrazolacetate	51286-83-0	347.25	29.425	1,2
1332	C3HF6N	hexafluoroisopropylideneamine	1645-75-6	283.85	23.577	1,2	1462	C3H3N	acrylonitrile	107-13-1	350.50	31.060	1,2
1333	C3HF7	heptafluoropropane	431-89-0	256.25	21.066	1,2	1463	C3H3NO	oxazole	288-42-6	342.65	31.065	1,2
1334	C3HF7O	trifluoromethyl 1,1,2,2-tetrafluoroethyl eth*	2356-61-8	270.15	22.328	1,2	1464	C3H3NO	isoxazole	288-14-2	368.15	31.375	1,2
1335	C3HN	cyanoacetylene	1070-71-9	315.65	26.497	1,2	1465	C3H3NO	2-oxopropanenitrile	631-57-2	365.45	31.122	1,2
1336	C3H2BrF3O	3-bromo-1,1,1-trifluoroacetone	431-35-6	359.05	30.525	1,2	1466	C3H3NOS	acetyl isothiocyanate	13250-46-9	405.65	34.898	1,2
1338	C3H2BrNS	2-bromothiazole	3034-53-5	444.15	38.545	1,2	1468	C3H3NO2	cyanoacetic acid	372-09-8	433.15	37.500	2
1342	C3H2Br2O2	3,3-dibromo-2-propenoic acid	1578-21-8	518.15	45.631	1,2	1469	C3H3NO2	(formyloxy)acetonitrile	150760-95-5	446.15	38.735	1,2
1343	C3H2Br2O2	cis-2,3-dibromo-2-propenoic acid	24557-10-6	518.15	45.631	2	1470	C3H3NO2	methyl cyanoformate	17640-15-2	373.65	31.890	1,2
1344	C3H2Cl	1-chloro-2-propyne	624-65-7	309.65	25.944	2	1472	C3H3NO3	methyl isocyanatoformate	5843-42-5	370.15	31.562	1,2
1346	C3H2ClF5O	enflurane	13838-16-9	329.65	27.791	1,2	1473	C3H3NS	thiazole	288-47-1	391.15	33.532	1,2
1347	C3H2ClF5O	isoflurane	26675-46-7	321.65	27.051	1,2	1474	C3H3NS	isothiazole	288-16-4	391.15	33.532	2
1349	C3H2ClN	2-chloro-2-propenenitrile	920-37-6	361.65	30.767	1,2	1475	C3H3N3	1,3,5-triazine	290-87-9	387.15	33.156	1,2
1357	C3H2Cl3NO	3,3,3-trichloro-2-hydroxypropanenitrile	513-96-2	490.15	42.939	2	1476	C3H3N3	1,2,4-triazine	290-38-0	387.15	33.156	2
1358	C3H2Cl4	1,2,3,3-tetrachloro-1-propene	20589-85-9	435.15	37.690	1,2	1486	C3H3N3O4	1-nitrohydantoin	2825-15-2	577.15	51.344	1,2
1359	C3H2Cl4	1,1,2,3-tetrachloropropene	10436-39-2	440.40	38.188	1,2	1489	C3H3N7O5	2-hydroxy-4,6-bis(nitroamino)-1,3,5-triazine	19899-80-0	363.75	30.964	1,2
1360	C3H2Cl4O	1,1,1,3-tetrachloro-2-propanone	16995-35-0	456.15	39.687	1,2	1490	C3H3NaO	sodium methoxyacetylide	---	263.65	21.737	1,2
1361	C3H2Cl4O	1,1,3,3-tetrachloro-2-propanone	632-21-3	456.15	39.687	1,2	1492	C3H4	methylacetylene	74-99-7	249.94	22.247	1,2
1362	C3H2Cl4O	tetrachloroacetone	---	456.15	39.687	2	1493	C3H4	allene	463-49-0	238.65	20.599	1,2
1363	C3H2Cl4O2	2,2,2-trichloroethyl chloroformate	17341-93-4	444.65	38.592	1,2	1494	C3H4	cyclopropene	2781-85-3	237.15	19.344	2
1364	C3H2Cl6	1,1,1,2,2,3-hexachloropropane	24425-97-6	489.15	42.843	1,2	1495	C3H4BrClO	1-bromo-3-chloroacetone	53535-68-5	452.15	39.306	1,2
1365	C3H2Cl6	1,1,1,3,3,3-hexachloropropane	3607-78-1	479.15	41.884	1,2	1496	C3H4BrClO	2-bromopropanoyl chloride	7148-74-5	405.15	34.851	1,2
1366	C3H2Cl6	1,1,2,2,3,3-hexachloropropane	15600-01-8	491.65	43.082	1,2	1498	C3H4BrClO2	(2-bromoethyl) chloroformate	4801-27-8	340.15	28.765	1,2
1367	C3H2F4O2	2,2,3,3-tetrafluoropropionic acid	756-09-2	406.65	34.992	1,2	1499	C3H4BrCl3	3-bromo-1,1,1-trichloropropane	13749-37-6	386.65	33.109	1,2
1368	C3H2F6	1,1,1,2,2,3-hexafluoropropane	677-56-5	274.35	23.946	1,2	1500	C3H4BrF3	3-bromo-1,1,1-trifluoropropane	460-32-2	335.90	28.370	1,2
1369	C3H2F6	1,1,1,2,3,3-hexafluoropropane	431-63-0	279.25	23.268	1,2	1501	C3H4BrF3O	3-bromo-1,1,1-trifluoro-2-propanol	431-34-5	397.65	34.144	1,2
1370	C3H2F6	1,1,1,3,3,3-hexafluoropropane	690-39-1	272.45	23.093	1,2	1504	C3H4BrNO	2-bromoethyl isocyanate	42865-19-0	431.15	37.310	1,2
1371	C3H2F6	1,1,2,2,3,3-hexafluoropropane	680-00-2	283.15	24.245	1,2	1505	C3H4Br2	1,1-dibromo-1-propene	13195-80-7	398.15	34.191	1,2
1372	C3H2F6O	1,1,1,3,3,3-hexafluoro-2-propanol	920-66-1	332.15	28.023	1,2	1506	C3H4Br2	cis-1,3-dibromo-1-propene	32121-06-5	413.65	35.653	2
1373	C3H2F6O	1,2,2,2-tetrafluoroethyl difluoromethyl ether	57041-67-5	296.50	24.735	1,2	1507	C3H4Br2	trans-1,3-dibromo-1-propene	32121-07-6	413.65	35.653	2
1376	C3H2NNaO4	sodium nitromalonaldehyde	34461-00-2	288.75	24.025	1,2	1508	C3H4Br2	2,3-dibromo-1-propene	513-31-5	414.15	35.701	1,2
1377	C3H2N2	malononitrile	109-77-3	491.50	46.140	1,2	1509	C3H4Br2	1,3-dibromo-1-propene	627-15-6	428.65	37.073	1,2
1378	C3H2N2O2	diisocyanatomethane	4747-90-4	217.15	17.553	1,2	1510	C3H4Br2O	2,3-dibromopropanal	5221-17-0	426.25	36.846	2
1384	C3H2O	2-propynal	624-67-9	333.15	28.115	1,2	1511	C3H4Br2O	1,3-dibromo-2-propanone	816-39-7	426.25	36.846	2
1385	C3H2O2	2-propynoic acid	471-25-0	417.15	35.984	2	1512	C3H4Br2O	2-bromopropionyl bromide	563-76-8	426.25	36.846	1,2
1391	C3H3Br	3-bromo-1-propyne	106-96-7	362.15	30.814	1,2	1514	C3H4Br4	1,1,1,2-tetrabromopropane	62127-49-5	523.15	51.752	1,2
1392	C3H3Br2ClO	2,3-dibromopropionyl chloride	18791-02-1	465.15	40.546	1,2	1515	C3H4Br4	1,1,1,3-tetrabromopropane	62127-50-8	533.15	53.295	1,2
1393	C3H3Br2N	2,3-dibromopropionitrile	4554-16-9	446.15	38.735	1,2	1516	C3H4Br4	1,1,2,2-tetrabromopropane	34570-59-7	508.15	50.207	1,2
1396	C3H3BrF2	3-bromo-3,3-difluoro-1-propene	420-90-6	315.15	26.451	1,2	1517	C3H4Br4	1,1,2,3-tetrabromopropane	34581-76-5	538.15	54.413	1,2
1397	C3H3BrF4	3-bromo-1,1,2,2-tetrafluoropropane	679-84-5	347.15	29.416	1,2	1518	C3H4Br4	1,1,3,3-tetrabromopropane	51525-97-4	548.15	55.466	1,2
1398	C3H3BrN2	4-bromopyrazole	2075-45-8	528.15	46.595	1,2	1519	C3H4Br4	1,2,2,3-tetrabromopropane	54268-02-9	523.15	52.254	1,2
1402	C3H3Cl	propargyl chloride	624-65-7	331.00	28.078	1,2	1521	C3H4ClFO2	methyl chlorofluoroacetate	433-52-3	389.15	33.344	1,2
1403	C3H3ClF2O2	methyl chlorodifluoroacetate	1514-87-0	353.15	29.974	1,2	1522	C3H4ClFO2	2-fluoroethyl chloroformate	462-27-1	435.35	37.709	1,2
1405	C3H3ClO	2-chloro-2-propenal	683-51-2	382.15	32.687	1,2	1523	C3H4ClF3	3-chloro-1,1,1-trifluoropropane	460-35-5	318.25	26.737	1,2
1406	C3H3ClO	2-propenoyl chloride	814-68-6	348.65	29.555	1,2	1524	C3H4ClF3N2	2-chloro-N,N,N'-trifluoropropionamidine	25238-02-2	462.15	40.260	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
1525	C3H4ClF3O	2-chloro-1,1,2-trifluoroethyl methyl ether	425-87-6	343.55	29.081	1,2	1653	C3H5BrO	epibromohydrin	3132-64-7	409.85	35.294	1,2
1526	C3H4ClN	3-chloropropanenitrile	542-76-7	448.65	38.973	1,2	1654	C3H5BrO2	2-bromopropanoic acid, (±)	10327-08-9	476.65	41.645	1,2
1527	C3H4ClN	2-chloropropionitrile	1617-17-0	394.95	33.890	1,2	1655	C3H5BrO2	3-bromopropanoic acid	590-92-1	452.48	39.338	2
1532	C3H4ClN5O2	N-(2-chloroethyl)-N-nitrosocarbomoyl azide	60784-40-9	344.55	29.174	1,2	1656	C3H5BrO2	methyl bromoacetate	96-32-2	405.15	34.851	1,2
1533	C3H4Cl2	2,3-dichloropropene	78-88-6	365.75	31.013	1,2	1657	C3H5BrO2	bromomethyl acetate	590-97-6	404.65	34.804	1,2
1534	C3H4Cl2	1,1-dichloropropene	563-58-6	349.65	27.130	1,2	1658	C3H5BrO2	(R)-(+)-2-bromopropionic acid	10009-70-8	476.15	41.597	1,2
1535	C3H4Cl2	cis-1,2-dichloropropene	6923-20-2	366.15	31.160	1,2	1659	C3H5BrO2	(S)-(-)-2-bromopropionic acid	32644-15-8	476.15	41.597	1,2
1536	C3H4Cl2	trans-1,2-dichloropropene	7069-38-7	350.15	27.241	1,2	1660	C3H5BrO2	(±)-2-bromopropionic acid	598-72-1	476.15	41.597	1,2
1537	C3H4Cl2	cis-1,3-dichloropropene	10061-01-5	377.45	34.402	1,2	1661	C3H5BrO2	propionyl hypobromite	82198-80-9	452.48	39.338	2
1538	C3H4Cl2	trans-1,3-dichloropropene	10061-02-6	385.15	36.888	1,2	1662	C3H5Br2Cl	1,2-dibromo-3-chloropropane	96-12-8	469.15	40.928	1,2
1539	C3H4Cl2	3,3-dichloropropene	563-57-5	357.55	28.966	1,2	1663	C3H5Br3	1,1,1-tribromopropane	62127-61-1	465.15	44.040	1,2
1540	C3H4Cl2	1,3-dichloropropene; (cis+trans)	542-75-6	380.65	35.405	1,2	1664	C3H5Br3	1,1,2-tribromopropane	14602-62-1	474.15	45.409	1,2
1541	C3H4Cl2	1,2-dichloropropene	563-54-2	348.15	26.798	1,2	1665	C3H5Br3	1,1,3-tribromopropane	23511-78-6	478.15	46.247	1,2
1542	C3H4Cl2	dichloropropylene	26952-23-8	364.52	30.726	2	1666	C3H5Br3	1,2,2-tribromopropane	14476-30-3	464.15	43.942	1,2
1543	C3H4Cl2F2O	methoxyflurane	76-38-0	378.15	32.311	1,2	1667	C3H5Br3	1,2,3-tribromopropane	96-11-7	495.31	47.979	1,2
1544	C3H4Cl2O	2-chloropropanoyl chloride, (S)	70110-24-6	383.15	32.780	1,2	1668	C3H5Cl	cis-1-chloro-1-propene	16136-84-8	305.95	25.749	1,2
1545	C3H4Cl2O	3-chloropropanoyl chloride	625-36-5	417.15	35.984	1,2	1669	C3H5Cl	trans-1-chloro-1-propene	16136-85-9	310.55	26.155	1,2
1546	C3H4Cl2O	2,3-dichloropropanal	10140-89-3	391.30	33.546	2	1670	C3H5Cl	2-chloro-1-propene	557-98-2	295.80	24.336	1,2
1547	C3H4Cl2O	1,1-dichloroacetone	513-88-2	393.15	33.720	1,2	1671	C3H5Cl	3-chloro-1-propene	107-05-1	318.11	26.242	1,2
1548	C3H4Cl2O	1,3-dichloroacetone	534-07-6	446.55	38.773	1,2	1672	C3H5Cl	1-chloro-1-propene	590-21-6	302.50	24.504	1,2
1549	C3H4Cl2O	2-chloropropionyl chloride	7623-09-8	383.15	32.780	1,2	1673	C3H5ClF2	1-chloro-2,2-difluoropropane	420-99-5	328.15	27.652	1,2
1550	C3H4Cl2O	cis-DCPO	66826-72-0	391.30	33.546	2	1674	C3H5ClN2	pyruvohydroximoyl chloride, oxime	4732-59-6	294.15	24.520	1,2
1551	C3H4Cl2O	trans-1,3-dichloropropene oxide	66826-73-1	391.30	33.546	2	1675	C3H5ClN2O6	3-chloro-1,2-propanediol dinitrate	2612-33-1	465.65	40.594	1,2
1552	C3H4Cl2O	2,3-dichloro-2-propen-1-ol	2736-73-4	324.65	27.328	1,2	1676	C3H5ClO	alpha-epichlorohydrin	106-89-8	389.26	37.230	1,2
1553	C3H4Cl2O2	2-chloroethyl chloroformate	627-11-2	428.15	37.026	1,2	1677	C3H5ClO	epichlorohydrin	13403-37-7	391.15	33.532	1,2
1554	C3H4Cl2O2	2,2-dichloropropanoic acid	75-99-0	460.65	40.117	1,2	1678	C3H5ClO	chloroacetone	78-95-5	392.15	33.626	1,2
1555	C3H4Cl2O2	2,3-dichloropropanoic acid	565-64-0	483.15	42.268	1,2	1679	C3H5ClO	2-chloropropanal	683-50-1	359.15	30.534	1,2
1556	C3H4Cl2O2	methyl dichloroacetate	116-54-1	416.05	35.880	1,2	1680	C3H5ClO	3-chloropropanal	19434-65-2	403.15	34.662	1,2
1557	C3H4Cl2O2	1-chloroethyl chloroformate	50893-53-3	391.65	33.579	1,2	1681	C3H5ClO	propanoyl chloride	79-03-8	353.15	29.974	1,2
1559	C3H4Cl3F3Si	trichloro(3,3,3-trifluoropropyl)silane	592-09-6	386.65	33.109	1,2	1682	C3H5ClO	2-chloro-2-propen-1-ol	5976-47-6	408.15	35.134	1,2
1560	C3H4Cl3NO	methyl 2,2,2-trichloroacetimidate	2533-69-9	421.65	36.410	1,2	1683	C3H5ClO	3-chloro-2-propen-1-ol	29560-84-7	420.15	36.268	1,2
1565	C3H4Cl4	1,1,1,2-tetrachloropropane	812-03-3	423.15	36.528	1,2	1684	C3H5ClO	(R)-(-)-epichlorohydrin	51594-55-9	387.15	33.156	1,2
1566	C3H4Cl4	1,1,1,3-tetrachloropropane	1070-78-6	432.15	37.674	1,2	1685	C3H5ClO	(S)-(+)-epichlorohydrin	67843-74-7	387.15	33.156	1,2
1567	C3H4Cl4	1,1,2,2-tetrachloropropane	13116-60-4	428.15	36.981	1,2	1686	C3H5ClO	trans-1-chloropropene oxide	21947-76-2	389.06	33.336	2
1568	C3H4Cl4	1,1,2,3-tetrachloropropane	18495-30-2	451.15	39.806	1,2	1687	C3H5ClOS	chlorothioformic acid ethyl ester	2812-73-9	381.15	32.593	1,2
1569	C3H4Cl4	1,1,3,3-tetrachloropropane	1653-17-4	440.00	38.777	2	1688	C3H5ClO2	methyl chloroacetate	96-34-4	402.97	39.446	1,2
1570	C3H4Cl4	1,2,2,3-tetrachloropropane	13116-53-5	437.15	38.131	1,2	1689	C3H5ClO2	ethyl chloroformate	541-41-3	366.00	42.775	1,2
1573	C3H4F2	1,1-difluoro-1-propene	430-63-7	270.00	22.314	2	1690	C3H5ClO2	chloromethyl acetate	625-56-9	389.15	33.344	1,2
1574	C3H4F2O2	methyl difluoroacetate	433-53-4	358.50	30.473	1,2	1691	C3H5ClO2	2-chloropropanoic acid	598-78-7	458.15	39.878	1,2
1575	C3H4F3I	1,1,1-trifluoro-3-iodopropane	460-37-7	358.15	30.441	1,2	1692	C3H5ClO2	3-chloropropanoic acid	107-94-8	477.15	41.693	2
1576	C3H4F3NO	N-methyltrifluoroacetamide	815-06-5	429.65	37.168	1,2	1693	C3H5ClO2	methoxyacetyl chloride	38870-89-2	385.65	33.015	1,2
1577	C3H4F3NO2	1,1,1-trifluoro-3-nitropropane	461-35-8	408.15	35.134	1,2	1694	C3H5ClO2	L-a-chloropropionic acid	29617-66-1	470.00	41.009	2
1578	C3H4F4	1,1,1,2-tetrafluoropropane	421-48-7	272.15	22.901	1,2	1695	C3H5ClO2	(R)-(+)-2-chloropropionic acid	7474-05-7	470.00	41.009	2
1579	C3H4F4	1,1,1,3-tetrafluoropropane	460-36-6	302.55	25.823	1,2	1696	C3H5ClO3S	chloropropanediol cyclic sulfite	15121-11-6	440.65	38.212	1,2
1580	C3H4F4	1,1,2,2-tetrafluoropropane	40723-63-5	300.00	25.366	2	1699	C3H5Cl2F	1,2-dichloro-2-fluoropropane	420-97-3	361.75	30.777	1,2
1581	C3H4F4	1,1,2,3-tetrafluoropropane	---	300.00	25.855	2	1700	C3H5Cl2NO2	1,1-dichloro-1-nitropropane	595-44-8	418.15	36.079	1,2
1582	C3H4F4	1,1,3,3-tetrafluoropropane	---	300.00	25.855	2	1703	C3H5Cl3	1,1,1-trichloropropane	7789-89-1	379.15	32.399	1,2
1583	C3H4F4	1,2,2,3-tetrafluoropropane	813-75-2	300.00	25.595	2	1704	C3H5Cl3	1,1,2-trichloropropane	598-77-6	405.15	35.075	1,2
1584	C3H4F4O	2,2,3,3-tetrafluoro-1-propanol	76-37-9	382.65	32.734	1,2	1705	C3H5Cl3	1,1,3-trichloropropane	20395-25-9	418.70	36.629	1,2
1585	C3H4I4	1,1,1,2-tetraiodopropane	66794-31-8	636.93	55.661	2	1706	C3H5Cl3	1,2,2-trichloropropane	3175-23-3	396.15	33.924	1,2
1586	C3H4I4	1,1,1,3-tetraiodopropane	66794-32-9	637.37	56.178	2	1707	C3H5Cl3	1,2,3-trichloropropane	96-18-4	430.00	38.332	1,2
1587	C3H4I4	1,1,2,2-tetraiodopropane	66794-33-0	636.93	55.661	2	1708	C3H5Cl3N2O2	(1-hydroxy-2,2,2-trichloroethyl)urea	2000-40-0	293.95	24.501	1,2
1588	C3H4I4	1,1,2,3-tetraiodopropane	66794-21-6	639.72	56.942	2	1709	C3H5Cl3O	1,1,1-trichloro-2-propanol	76-00-6	436.15	37.785	1,2
1589	C3H4I4	1,1,3,3-tetraiodopropane	66794-34-1	639.72	56.942	2	1710	C3H5Cl3Si	trichloro-2-propenylsilane	107-37-9	390.65	33.485	1,2
1590	C3H4I4	1,2,2,3-tetraiodopropane	66794-20-5	637.37	56.178	2	1711	C3H5F	cis-1-fluoro-1-propene	19184-10-2	271.47	22.688	2
1592	C3H4N2	imidazole	288-32-4	530.15	46.788	1,2	1712	C3H5F	trans-1-fluoro-1-propene	20327-65-5	271.47	22.688	2
1594	C3H4N2	1H-pyrazole	288-13-1	460.15	40.069	1,2	1713	C3H5F	2-fluoro-1-propene	1184-60-7	249.15	20.624	1,2
1597	C3H4N2O	3-aminoisoxazole	1750-42-1	348.65	29.555	1,2	1714	C3H5F	3-fluoro-1-propene	818-92-8	270.15	19.700	1,2
1621	C3H4O	acrolein	107-02-8	325.84	29.030	1,2	1715	C3H5FO	(fluoromethyl)oxirane	503-09-3	358.65	30.487	1,2
1622	C3H4O	propargyl alcohol	107-19-7	386.75	42.329	1,2	1716	C3H5FO	1-fluoro-2-propanone	430-51-3	350.15	29.695	1,2
1626	C3H4O2	acrylic acid	79-10-7	414.15	42.520	1,2	1717	C3H5FO	propanoyl fluoride	430-71-7	317.15	26.635	1,2
1627	C3H4O2	beta-propiolactone	57-57-8	435.15	43.057	1,2	1718	C3H5FO	2-fluoro-2-propen-1-ol	5675-31-0	341.98	28.935	2
1628	C3H4O2	vinyl formate	692-45-5	320.00	31.199	1,2	1719	C3H5FO2	methyl fluoroacetate	453-18-9	377.65	32.265	1,2
1630	C3H4O2	oxiranecarboxaldehyde	765-34-4	385.65	33.015	1,2	1720	C3H5FO2	3-fluoropropionic acid	461-56-3	377.65	32.265	2
1631	C3H4O2	1,2-propanedione	78-98-8	345.15	29.230	1,2	1721	C3H5F3	1,1,1-trifluoropropane	421-07-8	260.15	21.928	1,2
1633	C3H4O3	ethylene carbonate	96-49-1	511.15	51.676	1,2	1722	C3H5F3	1,1,2-trifluoropropane	---	264.97	22.402	2
1634	C3H4O3	pyruvic acid	127-17-3	438.15	45.740	1,2	1723	C3H5F3	1,1,3-trifluoropropane	24270-67-5	265.41	22.646	2
1635	C3H4O3	methyl glyoxylate	922-68-9	491.05	43.025	1,2	1724	C3H5F3	1,2,2-trifluoropropane	811-94-9	262.62	21.973	2
1641	C3H4S3	ethylene trithiocarbonate	822-38-8	580.15	51.636	1,2	1725	C3H5F3	1,2,3-trifluoropropane	66794-36-3	265.41	22.646	2
1642	C3H5Br	cis-1-bromo-1-propene	590-13-6	330.95	28.820	1,2	1728	C3H5F3O	2,2,2-trifluoroethyl methyl ether	460-43-5	304.77	25.495	1,2
1643	C3H5Br	trans-1-bromo-1-propene	590-15-8	336.35	29.313	1,2	1729	C3H5F3O	1,1,1-trifluoro-2-propanol, (±)	17556-48-8	351.15	29.788	1,2
1644	C3H5Br	2-bromo-1-propene	557-93-7	321.55	27.812	1,2	1730	C3H5F3O	3,3,3-trifluoro-1-propanol	2240-88-2	334.69	28.258	2
1645	C3H5Br	3-bromo-1-propene	106-95-6	343.16	30.957	1,2	1731	C3H5F3O	1,1,1-trifluoropropan-2-ol	374-01-6	348.15	29.509	1,2
1646	C3H5Br	bromocyclopropane	4333-56-6	341.65	28.904	1,2	1733	C3H5F3O3S	ethyl trifluoromethanesulfonate	425-75-2	388.15	33.250	1,2
1647	C3H5Br	1-bromo-1-propene; (cis+trans)	590-14-7	333.65	30.053	1,2	1734	C3H5I	cis-1-iodo-1-propene	7796-36-3	365.34	30.964	2
1648	C3H5BrO	bromoacetone	598-31-2	411.15	35.417	1,2	1735	C3H5I	trans-1-iodo-1-propene	7796-54-5	365.34	30.964	2
1649	C3H5BrO	(bromomethyl)oxirane, (±)	82584-73-4	410.15	35.323	1,2	1736	C3H5I	2-iodo-1-propene	4375-96-6	373.15	31.495	1,2
1650	C3H5BrO	2-bromopropanal	19967-57-8	382.65	32.734	1,2	1737	C3H5I	3-iodo-1-propene	556-56-9	375.16	26.818	1,2
1651	C3H5BrO	propanoyl bromide	598-22-1	375.15	32.030	1,2	1739	C3H5IO	(iodomethyl)oxirane	624-57-7	434.15	37.595	1,2
1652	C3H5BrO	2-bromo-2-propen-1-ol	598-19-6	427.15	36.931	1,2	1742	C3H5I3	1,1,1-triiodopropane	---	544.23	47.070	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
1743	C3H5I3	1,1,2-triiodopropane	---	546.58	47.737	2	1876	C3H6KNS2	potassium dimethyldithiocarbamate	128-03-0	373.15	31.843	1,2
1744	C3H5I3	1,1,3-triiodopropane	---	547.02	48.192	2	1877	C3H6NOTl	dimethylthallium fulminate	---	356.15	30.254	1,2
1745	C3H5I3	1,2,2-triiodopropane	---	544.23	47.070	2	1878	C3H6N2	3-aminopropanenitrile	151-18-8	458.15	39.878	1,2
1746	C3H5I3	1,2,3-triiodopropane	---	547.02	48.192	2	1879	C3H6N2	4,5-dihydro-1H-pyrazole	109-98-8	417.15	35.984	1,2
1747	C3H5KN2O4	potassium-1,1-dinitropropanide	30533-63-2	354.25	30.077	1,2	1880	C3H6N2	dimethylcyanamide	1467-79-4	436.65	37.832	1,2
1749	C3H5Li	allyllithium	3052-45-7	332.75	28.078	1,2	1894	C3H6N2O2	N-nitrosooxazolidine	39884-52-1	330.45	27.865	1,2
1751	C3H5LiO3	lithium (S)-lactate	27848-80-2	473.15	41.310	1,2	1895	C3H6N2O3	N-nitrososarcosine	13256-22-9	356.65	30.301	1,2
1752	C3H5N	propionitrile	107-12-0	370.50	32.850	1,2	1896	C3H6N2O4	1,1-dinitropropane	601-76-3	457.15	39.783	1,2
1753	C3H5N	ethyl isocyanide	624-79-3	351.65	30.949	1,2	1897	C3H6N2O4	1,3-dinitropropane	6125-21-9	457.15	39.783	2
1754	C3H5N	2-propyn-1-amine	2450-71-7	356.15	30.254	1,2	1898	C3H6N2O4	2,2-dinitropropane	595-49-3	458.65	39.926	1,2
1755	C3H5NO	acrylamide	79-06-1	465.75	76.920	1,2	1899	C3H6N2O4	ethyl nitrocarbamate	626-37-9	413.15	35.606	2
1756	C3H5NO	hydracrylonitrile	109-78-4	494.15	54.960	1,2	1908	C3H6N2Se	2-aminoselenoazoline	15267-04-6	378.15	32.311	1,2
1757	C3H5NO	lactonitrile	78-97-7	457.00	53.667	1,2	1909	C3H6N4	2,5-dimethyl-2H-tetrazole	4135-93-7	419.15	36.173	2
1759	C3H5NO	ethyl cyanate	627-48-5	435.15	37.690	2	1910	C3H6N4	1,5-dimethyl-1H-tetrazole	5144-11-6	419.15	36.173	2
1760	C3H5NO	ethyl isocyanate	109-90-0	333.15	28.751	1,2	1911	C3H6N4	2-ethyltetrazole	82944-28-3	419.15	36.173	2
1761	C3H5NO	methoxyacetonitrile	1738-36-9	392.15	33.626	1,2	1912	C3H6N4	5-ethyltetrazole	50764-78-8	419.15	36.173	1,2
1762	C3H5NO	N-vinylformamide	13162-05-5	483.15	42.268	1,2	1920	C3H6O	allyl alcohol	107-18-6	370.23	39.800	1,2
1763	C3H5NOS	2-thioxotetrahydro-1,3-oxazole	5840-81-3	361.15	30.721	1,2	1921	C3H6O	methyl vinyl ether	107-25-5	278.65	25.053	1,2
1764	C3H5NO2	1-nitro-1-propene	3156-70-5	400.65	34.426	2	1922	C3H6O	propionaldehyde	123-38-6	321.15	28.640	1,2
1765	C3H5NO2	2-nitro-1-propene	4749-28-4	400.65	34.426	2	1923	C3H6O	acetone	67-64-1	329.44	29.792	1,2
1766	C3H5NO2	3-nitro-1-propene	625-46-7	400.65	34.426	1,2	1924	C3H6O	1,2-propylene oxide	75-56-9	307.05	27.735	1,2
1776	C3H5NO4	3-nitropropionic acid	504-88-1	456.15	39.687	2	1925	C3H6O	1,3-propylene oxide	503-30-0	321.00	28.540	1,2
1777	C3H5NO5	peroxypropionyl nitrate	5796-89-4	317.15	26.635	1,2	1926	C3H6O	methyloxirane	16033-71-9	308.15	25.806	1,2
1778	C3H5NS	ethyl isothiocyanate	542-85-8	404.65	34.804	1,2	1927	C3H6O	(S)-(-)-propylene oxide	16088-62-3	308.05	26.319	1,2
1779	C3H5NS	ethyl thiocyanate	542-90-5	419.15	36.173	1,2	1928	C3H6O	(R)-(+)-propylene oxide	15448-47-2	317.97	28.985	2
1789	C3H5N3O	2-(N-methyl-N-nitroso)aminoacetonitrile	3684-97-7	479.65	41.932	1,2	1930	C3H6O2	propanoic acid	79-09-4	414.32	31.220	1,2
1792	C3H5N3O2	1-nitrosoimidazolidinone	3844-63-1	303.15	25.346	1,2	1931	C3H6O2	ethyl formate	109-94-4	327.46	29.786	1,2
1796	C3H5N3O9	nitroglycerine	55-63-0	523.00	65.581	1,2	1932	C3H6O2	methyl acetate	79-20-9	330.09	30.612	1,2
1809	C3H6	cyclopropane	75-19-4	240.37	20.083	1,2	1933	C3H6O2	1,3-dioxolane	646-06-0	351.15	29.788	1,2
1810	C3H6	propylene	115-07-1	225.43	18.492	1,2	1934	C3H6O2	1-hydroxy-2-propanone	116-09-6	418.65	36.126	1,2
1811	C3H6BrCl	1-bromo-2-chloropropane	3017-96-7	391.15	33.532	1,2	1935	C3H6O2	methoxyacetaldehyde	10312-83-1	365.15	31.094	1,2
1812	C3H6BrCl	1-bromo-3-chloropropane	109-70-6	416.45	35.918	1,2	1936	C3H6O2	oxiranemethanol, (±)	61915-27-3	440.15	38.165	2
1813	C3H6BrCl	2-bromo-1-chloropropane	3017-95-6	390.15	33.438	1,2	1937	C3H6O2	(±)-glycidol	556-52-5	436.65	37.832	1,2
1814	C3H6BrCl	2-bromo-2-chloropropane	2310-98-7	368.15	31.375	1,2	1942	C3H6O2S	3-mercaptopropionic acid	107-96-0	501.00	52.860	1,2
1816	C3H6BrCl3Si	(3-bromopropyl)trichlorosilane	13883-39-1	476.15	41.597	1,2	1947	C3H6O2S	thiolactic acid	79-42-5	390.15	33.438	1,2
1817	C3H6BrF	1-bromo-3-fluoropropane	352-91-0	374.55	31.974	1,2	1948	C3H6O3	lactic acid	50-21-5	447.00	58.158	1,2
1819	C3H6BrNO2	2-bromo-2-nitropropane	5447-97-2	426.15	36.836	1,2	1949	C3H6O3	methoxyacetic acid	625-45-6	478.26	52.916	1,2
1821	C3H6BrN3O2	nitrosobromoethylurea	69113-02-6	392.15	33.626	1,2	1950	C3H6O3	trioxane	110-88-3	387.65	37.481	1,2
1824	C3H6Br2	1,1-dibromopropane	598-17-4	406.65	37.252	1,2	1953	C3H6O3	dimethyl carbonate	616-38-6	363.65	30.954	1,2
1825	C3H6Br2	1,2-dibromopropane	78-75-1	413.16	41.012	1,2	1956	C3H6O3	methyl hydroxyacetate	96-35-5	422.15	36.457	1,2
1826	C3H6Br2	1,3-dibromopropane	109-64-8	440.45	40.871	1,2	1958	C3H6O3	L-(+)-lactic acid	79-33-4	398.15	34.191	1,2
1827	C3H6Br2	2,2-dibromopropane	594-16-1	388.25	34.811	1,2	1967	C3H6S	thiacyclobutane	287-27-4	368.13	32.217	1,2
1828	C3H6Br2O	1,3-dibromo-2-propanol	96-21-9	492.15	43.130	2	1968	C3H6S	2-methylthiacyclopropane	1072-43-1	347.55	29.700	1,2
1829	C3H6Br2O	2,3-dibromo-1-propanol	96-13-9	492.15	43.130	2	1969	C3H6S	(methylthio)ethene	1822-74-8	342.65	28.997	1,2
1830	C3H6ClF	1-chloro-3-fluoropropane	462-38-4	353.15	29.974	1,2	1970	C3H6S	2-propene-1-thiol	870-23-5	338.15	28.579	1,2
1831	C3H6ClI	1-chloro-3-iodopropane	6940-76-7	444.15	38.545	1,2	1972	C3H6S2	1,2-dithiolane	557-22-2	448.15	38.925	2
1832	C3H6ClNO	dimethylcarbamic chloride	79-44-7	440.15	38.165	1,2	1973	C3H6S2	1,3-dithiolane	4829-04-3	448.15	38.925	1,2
1834	C3H6ClNO2	1-chloro-2-nitropropane	2425-66-3	445.65	38.688	1,2	1978	C3H7Br	1-bromopropane	106-94-5	344.15	30.286	1,2
1835	C3H6ClNO2	1-chloro-3-nitropropane	16694-52-3	470.15	41.024	2	1979	C3H7Br	2-bromopropane	75-26-3	332.56	28.837	1,2
1836	C3H6ClNO2	2-chloro-1-nitropropane	503-76-4	445.15	38.640	1,2	1980	C3H7BrO	(bromomethoxy)ethane	53588-92-4	383.15	32.780	1,2
1837	C3H6ClNO2	1-chloro-1-nitropropane	600-25-9	415.15	35.795	1,2	1981	C3H7BrO	1-bromo-2-methoxyethane	6482-24-2	383.15	32.780	1,2
1838	C3H6ClNO2	2-chloro-2-nitropropane	594-71-8	407.15	35.039	2	1982	C3H7BrO	1-bromo-2-propanol	19686-73-8	419.65	36.221	1,2
1843	C3H6ClN3O2	1-(2-chloroethyl)-1-nitrosourea	2365-30-2	169.25	13.331	1,2	1983	C3H7BrO	3-bromo-1-propanol	627-18-9	395.32	33.924	2
1844	C3H6Cl2	1,1-dichloropropane	78-99-9	361.25	31.806	1,2	1986	C3H7Cl	1-chloropropane	540-54-5	319.67	27.887	1,2
1845	C3H6Cl2	1,2-dichloropropane	78-87-5	369.52	32.030	1,2	1987	C3H7Cl	2-chloropropane	75-29-6	308.85	26.692	1,2
1846	C3H6Cl2	1,3-dichloropropane	142-28-9	393.55	34.903	1,2	1993	C3H7ClO	(chloromethoxy)ethane	3188-13-4	356.15	30.254	1,2
1847	C3H6Cl2	2,2-dichloropropane	594-20-7	342.46	29.288	1,2	1994	C3H7ClO	1-chloro-1-methoxyethane	1538-87-0	344.15	29.137	1,2
1848	C3H6Cl2	1,2-dichloropropane, (±)	26198-63-0	369.55	32.621	1,2	1995	C3H7ClO	1-chloro-2-methoxyethane	627-42-9	365.65	31.141	1,2
1849	C3H6Cl2	dichloropropane	26638-19-7	369.75	32.680	1,2	1996	C3H7ClO	2-chloro-1-propanol	78-89-7	406.65	34.992	1,2
1850	C3H6Cl2O	2,3-dichloro-1-propanol	616-23-9	457.15	39.783	1,2	1997	C3H7ClO	3-chloro-1-propanol	627-30-5	438.15	37.975	1,2
1851	C3H6Cl2O	3,3-dichloro-1-propanol	83682-72-8	451.15	39.211	1,2	1998	C3H7ClO	1-chloro-2-propanol	127-00-4	400.15	34.379	1,2
1852	C3H6Cl2O	1,1-dichloro-2-propanol	53894-19-2	420.15	36.268	1,2	1999	C3H7ClO	(S)-(+)-2-chloro-1-propanol	19210-21-0	403.15	34.662	1,2
1853	C3H6Cl2O	1,3-dichloro-2-propanol	96-23-1	449.15	39.021	1,2	2000	C3H7ClO	(R)-(-)-2-chloropropan-1-ol	37493-14-4	403.15	34.662	1,2
1855	C3H6Cl2O5	3-chloro-2-hydroxypropyl perchlorate	---	404.65	34.804	1,2	2001	C3H7ClO	isopropyl hypochlorite	53578-07-7	389.65	33.391	2
1856	C3H6Cl2Si	dichlorovinylmethylsilane	124-70-9	365.65	31.141	1,2	2002	C3H7ClO2	3-chloro-1,2-propanediol	96-24-2	486.15	42.555	2
1857	C3H6Cl2Si	1,1-dichlorosilacyclobutane	2351-33-9	387.15	33.156	1,2	2003	C3H7ClO2	2-chloro-1,3-propanediol	497-04-1	489.15	42.843	2
1859	C3H6Cl3NO	3-amino-1-trichloro-2-propanol	35695-70-6	481.15	42.076	1,2	2004	C3H7ClO2	(R)-(-)-3-chloro-1,2-propanediol	57090-45-6	486.15	42.555	1,2
1861	C3H6Cl4Si	trichloro(3-chloropropyl)silane	2550-06-3	454.65	39.544	1,2	2005	C3H7ClO2	(S)-(+)-3-chloro-1,2-propanediol	60827-45-4	486.15	42.555	1,2
1862	C3H6Cl4Si	trichloro(chlorophenyl)silane	26571-79-9	503.15	44.187	1,2	2006	C3H7ClO2	DL-a-chlorohydrin	52340-46-2	489.15	42.843	2
1865	C3H6F2	1,1-difluoropropane	430-61-5	281.15	23.757	1,2	2007	C3H7ClO2	chloropropane diol-1,3	1331-07-3	498.15	43.706	2
1866	C3H6F2	1,2-difluoropropane	62126-90-3	288.15	24.340	1,2	2008	C3H7ClO2S	1-propanesulfonyl chloride	10147-36-1	453.15	39.402	2
1867	C3H6F2	1,3-difluoropropane	462-39-5	314.45	26.944	1,2	2009	C3H7ClO2S	2-propanesulfonyl chloride	10147-37-2	453.15	39.402	2
1868	C3H6F2	2,2-difluoropropane	420-45-1	272.75	22.578	1,2	2011	C3H7ClS	1-chloro-2-(methylthio)ethane	542-81-4	413.15	35.606	1,2
1869	C3H6F2O	1,3-difluoro-2-propanol	453-13-4	400.15	34.379	1,2	2012	C3H7ClS	3-chloro-1-propanethiol	17481-19-5	418.65	36.126	1,2
1870	C3H6HgN4	methylmercuric dicyandiamide	502-39-6	404.55	34.794	1,2	2013	C3H7Cl2N	N,N-dichloro-1-propanamine	69947-01-9	390.15	33.438	1,2
1871	C3H6I2	1,1-diiodopropane	10250-52-9	453.88	39.176	2	2016	C3H7Cl3Si	chloro(dichloromethyl)dimethylsilane	18171-59-0	422.15	36.457	1,2
1872	C3H6I2	1,2-diiodopropane	598-29-8	500.16	42.844	1,2	2017	C3H7Cl3Si	trichloroisopropylsilane	4170-46-1	394.15	33.814	1,2
1873	C3H6I2	1,3-diiodopropane	627-31-6	496.15	43.382	1,2	2018	C3H7Cl3Si	trichloropropylsilane	141-57-1	396.65	34.050	1,2
1874	C3H6I2	2,2-diiodopropane	630-13-7	446.15	37.789	1,2	2019	C3H7Cu	propylcopper(i)	18365-12-3	398.15	34.191	1,2
1875	C3H6KNO2	potassium-O-propionohydroxamate	71939-10-1	380.15	32.499	1,2	2020	C3H7F	1-fluoropropane	460-13-9	269.95	22.937	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
2021	C3H7F	2-fluoropropane	420-26-8	263.81	22.112	1,2	2192	C3H9FSi	fluorotrimethylsilane	420-56-4	290.00	24.139	1,2
2022	C3H7FO	3-fluoro-1-propanol	462-43-1	400.95	34.455	1,2	2193	C3H9Ga	trimethylgallium	1445-79-0	328.85	27.717	1,2
2025	C3H7I	1-iodopropane	107-08-4	375.60	32.163	1,2	2194	C3H9GeI	trimethylgermanium iodide	1066-38-2	406.65	34.992	1,2
2026	C3H7I	2-iodopropane	75-30-9	362.65	31.321	1,2	2197	C3H9ISi	iodotrimethylsilane	16029-98-4	379.55	32.443	1,2
2027	C3H7IO	3-iodo-1-propanol	627-32-7	499.15	43.802	1,2	2199	C3H9In	trimethylindium	3385-78-2	408.85	35.200	1,2
2030	C3H7N	allylamine	107-11-9	326.45	30.657	1,2	2200	C3H9N	propylamine	107-10-8	321.65	29.537	1,2
2031	C3H7N	propyleneimine	75-55-8	334.00	30.328	1,2	2201	C3H9N	isopropylamine	75-31-0	305.55	28.228	1,2
2032	C3H7N	azetidine	503-29-7	336.15	28.394	1,2	2202	C3H9N	methylethylamine	624-78-2	309.15	26.961	1,2
2033	C3H7N	1-methylaziridine	1072-44-2	300.65	25.116	1,2	2203	C3H9N	trimethylamine	75-50-3	276.02	23.444	1,2
2034	C3H7N	cyclopropylamine	765-30-0	323.65	27.236	1,2	2204	C3H9NO	1-amino-2-propanol	78-96-6	432.61	46.879	1,2
2036	C3H7NO	N,N-dimethylformamide	68-12-2	426.15	39.409	1,2	2205	C3H9NO	3-amino-1-propanol	156-87-6	460.65	55.256	1,2
2037	C3H7NO	N-methylacetamide	79-16-3	478.15	47.876	1,2	2206	C3H9NO	methylethanolamine	109-83-1	431.15	46.363	1,2
2038	C3H7NO	N-ethylformamide	627-45-2	471.15	41.119	1,2	2207	C3H9NO	2-amino-1-propanol, (±)	6168-72-5	447.65	38.878	1,2
2039	C3H7NO	propanal oxime	627-39-4	404.65	34.804	1,2	2208	C3H9NO	2-methoxyethylamine	109-85-3	368.15	31.375	1,2
2040	C3H7NO	propanamide	79-05-0	486.15	42.555	1,2	2210	C3H9NO	s(+)-2-amino-1-propanol	2749-11-3	447.65	38.878	1,2
2041	C3H7NO	2-propanone oxime	127-06-0	409.15	35.228	1,2	2211	C3H9NO	(R)-(-)-1-amino-2-propanol	2799-16-8	433.15	48.285	1,2
2044	C3H7NOS	1-(methylthio)acetaldoxime	13749-94-5	398.15	34.191	2	2212	C3H9NO	(S)-(+)-1-amino-2-propanol	2799-17-9	433.15	48.285	1,2
2045	C3H7NO2	1-nitropropane	108-03-2	404.33	37.556	1,2	2213	C3H9NO	(R)-(-)-2-amino-1-propanol	35320-23-1	447.65	38.878	1,2
2046	C3H7NO2	2-nitropropane	79-46-9	393.40	35.803	1,2	2214	C3H9NO	2-aminopropanol	78-91-1	447.15	38.830	1,2
2051	C3H7NO2	ethyl carbamate	51-79-6	458.15	39.878	1,2	2215	C3H9NO2	3-amino-1,2-propanediol, (±)	13552-31-3	537.88	47.535	2
2053	C3H7NO2	isopropyl nitrite	541-42-4	313.15	26.266	1,2	2216	C3H9NO2	(S)-3-amino-1,2-propanediol	61278-21-5	537.88	47.535	2
2054	C3H7NO2	propyl nitrite	543-67-9	321.15	27.005	1,2	2217	C3H9NO2	(±)-3-amino-1,2-propanediol	616-30-8	537.60	47.508	1,2
2061	C3H7NO3	propyl nitrate	627-13-4	383.16	32.781	1,2	2218	C3H9NO2	serinol	534-03-2	537.88	47.535	2
2062	C3H7NO3	isopropyl nitrate	1712-64-7	373.66	31.891	1,2	2227	C3H9N3Si	azidotrimethylsilane	4648-54-8	325.65	27.421	1,2
2063	C3H7NO3	2-nitro-1-propanol	2902-96-7	443.20	38.455	2	2232	C3H9O3P	dimethyl methylphosphonate	756-79-6	454.15	39.497	1,2
2064	C3H7NO3	3-nitro-1-propanol	25182-84-7	443.20	38.455	2	2236	C3H9O3P	trimethyl phosphite	121-45-9	384.65	32.921	1,2
2065	C3H7NO3	1-nitro-2-propanol	3156-73-8	443.20	38.455	2	2241	C3H9O4P	trimethyl phosphate	512-56-1	465.85	42.974	1,2
2072	C3H7NO5	1,2,3-propanetriol 1-nitrate	624-43-1	430.65	37.263	1,2	2243	C3H9P	trimethylphosphine	594-09-2	310.65	26.036	1,2
2073	C3H7NO5	1,2,3-propanetriol 2-nitrate	620-12-2	430.65	37.263	1,2	2245	C3H9Sb	trimethylstibine	594-10-5	353.75	30.030	1,2
2076	C3H7NS	thiazolidine	504-78-9	437.65	37.927	1,2	2251	C3H10ClNO4	trimethylammonium perchlorate	15576-35-9	419.55	36.211	1,2
2084	C3H7N3O3	1-(2-hydroxyethyl)-1-nitrosourea	13743-07-2	246.65	20.199	1,2	2252	C3H10ClNO5	trimethylamine-N-oxide perchlorate	22755-36-8	279.25	23.157	1,2
2085	C3H7N3O4	L-alanosine	5854-93-3	309.15	25.898	1,2	2255	C3H10N2	1,2-propanediamine	78-90-0	392.45	39.675	1,2
2089	C3H7Na	propyl sodium	15790-54-2	373.15	31.843	1,2	2256	C3H10N2	N-methyl-1,2-ethanediamine	109-81-9	388.15	33.250	1,2
2094	C3H8	propane	74-98-6	231.11	18.799	1,2	2257	C3H10N2	1,2-propanediamine, (±)	10424-38-1	392.65	40.337	1,2
2096	C3H8BrClSi	(bromomethyl)chlorodimethylsilane	16532-02-8	404.15	34.756	1,2	2258	C3H10N2	1,3-propanediamine	109-76-2	412.95	35.587	1,2
2099	C3H8Cl2Si	chloro(chloromethyl)dimethylsilane	1719-57-9	388.65	33.297	1,2	2259	C3H10N2	trimethylhydrazine	1741-01-1	363.00	30.894	2
2100	C3H8Cl2Si	dichloroethylmethylsilane	4525-44-4	374.15	31.937	1,2	2266	C3H10O3Si	trimethoxysilane	2487-90-3	357.15	30.347	1,2
2109	C3H8N2	acetaldehyde methylhydrazone	17167-73-6	558.65	49.547	1,2	2267	C3H10O4SSn	trimethyltin sulphate	63869-87-4	399.65	34.332	1,2
2112	C3H8N2O	N,N'-dimethylurea	96-31-1	542.15	47.948	1,2	2268	C3H10Si	trimethyl silane	993-07-7	279.85	22.062	1,2
2114	C3H8N2O	1-ethyl-1-formylhydrazine	74920-78-8	555.65	49.256	1,2	2269	C3H10Si	propyl silane	13154-66-0	279.85	23.212	2
2117	C3H8N2O2	ethyl hydrazinecarboxylate	4114-31-2	471.15	41.119	2	2270	C3H11GeNO6S	cysteine-germanic acid	51025-94-6	407.15	35.039	1,2
2119	C3H8N2O2	methoxymethyl methylnitrosamine	39885-14-8	558.65	49.547	1,2	2272	C3H11NOSi	O-(trimethylsilyl)hydroxylamine	22737-36-6	372.15	31.749	1,2
2129	C3H8O	propyl alcohol	71-23-8	370.35	41.380	1,2	2276	C3H12BN	trimethylamine borane	75-22-9	445.15	38.640	1,2
2130	C3H8O	isopropyl alcohol	67-63-0	355.41	39.870	1,2	2280	C3H12B3N3	2,4,6-trimethylborazine	5314-85-2	402.15	34.568	1,2
2131	C3H8O	methyl ethyl ether	540-67-0	280.50	31.224	1,2	2281	C3K2N2O4	dipotassium diazirine-3,3-dicarboxylate	76429-97-5	391.25	33.542	1,2
2137	C3H8OS2	methyl methylthiomethyl sulfoxide	33577-16-1	497.15	43.610	1,2	2282	C3N2O	carbonyl dicyanide	1115-12-4	338.65	28.626	1,2
2138	C3H8O2	2-methoxyethanol	109-86-4	397.55	39.470	1,2	2287	C3N8	diazidomalononitrile	67880-21-1	378.15	32.311	1,2
2139	C3H8O2	methylal	109-87-5	315.00	27.794	1,2	2288	C3N12	2,4,6-triazido-1,3,5-triazine	5637-83-2	304.65	25.484	1,2
2140	C3H8O2	1,2-propanediol (propylene glycol)	57-55-6	460.75	54.480	1,2	2289	C3O2	carbon suboxide	504-64-3	279.95	23.221	1,2
2141	C3H8O2	1,3-propanediol	504-63-2	487.55	57.865	1,2	2290	C4Br2	1,4-dibromo-1,3-butadiyne	36333-41-2	443.65	38.497	1,2
2143	C3H8O2	(R)-(-)-1,2-propanediol	4254-14-2	460.15	40.069	1,2	2291	C4Br2F8	1,4-dibromooctafluorobutane	335-48-8	370.15	31.562	1,2
2144	C3H8O2	(S)-(+)-1,2-propanediol	4254-15-3	460.15	40.069	1,2	2292	C4Br4S	tetrabromothiophene	3958-03-0	599.15	53.487	1,2
2148	C3H8O3	glycerol	56-81-5	563.15	66.128	1,2	2293	C4ClF3N2	5-chloro-2,4,6-trifluoropyrimidine	697-83-6	388.15	33.250	1,2
2149	C3H8O3S	ethyl methyl sulfite	10315-59-0	414.15	35.701	1,2	2295	C4ClF7O	heptafluorobutanoyl chloride	375-16-6	311.65	26.128	1,2
2152	C3H8O3S	2-(methanesulfonyl)ethanol	15205-66-0	421.65	36.410	1,2	2296	C4ClF7O2	heptafluorobutyryl hypochlorite	71359-62-1	422.65	36.505	1,2
2156	C3H8O4S	ethyl methyl sulfate	814-40-4	472.42	41.339	2	2298	C4Cl2Cu2	copper(i) chloroacetylide	---	518.15	45.631	2
2158	C3H8S	propyl mercaptan	107-03-9	340.87	29.790	1,2	2299	C4Cl2F4	1,2-dichloro-3,3,4,4-tetrafluorocyclobutene	377-93-5	340.15	28.765	1,2
2159	C3H8S	isopropyl mercaptan	75-33-2	325.71	28.208	1,2	2300	C4Cl2F4O3	chlorodifluoroacetic anhydride	2834-23-3	367.65	31.328	1,2
2160	C3H8S	methyl ethyl sulfide	624-89-5	340.15	29.497	1,2	2301	C4Cl2F6	2,3-dichloro-1,1,1,4,4,4-hexafluoro-2-butene	303-04-8	341.65	28.904	1,2
2161	C3H8S2	bis(methylthio)methane	1618-26-4	421.15	42.293	1,2	2302	C4Cl2F6	1,2-dichloro-1,2,3,3,4,4-hexafluorocyclobuta*	356-18-3	332.65	28.069	1,2
2162	C3H8S2	1,2-propanedithiol	814-67-5	425.15	36.741	1,2	2304	C4Cl2F8	2,3-dichloro-1,1,1,2,3,4,4,4-octafluorobutane	355-20-4	336.15	28.394	1,2
2163	C3H8S2	1,3-propanedithiol	109-80-8	446.05	38.726	1,2	2305	C4Cl2Hg	mercury bis(chloroacetylide)	64771-59-1	366.15	31.188	1,2
2165	C3H9Al	trimethyl aluminum	75-24-1	403.15	34.662	1,2	2306	C4Cl2Li2S	3,4-dichloro-2,5-dilithiothiophene	29202-04-8	328.65	27.698	1,2
2167	C3H9Al2Cl3	methyl aluminum sesquichloride	12542-85-7	417.15	35.984	1,2	2310	C4Cl3F7	2,2,3-trichloro-1,1,1,3,4,4,4-heptafluorobut*	335-44-4	371.15	31.656	1,2
2168	C3H9As	trimethylarsine	593-88-4	325.15	27.375	1,2	2311	C4Cl4	1,1,4,4-tetrachlorobutatriene	19792-18-8	429.15	37.121	2
2169	C3H9As	ethyl methyl arsine	689-93-0	325.15	27.375	2	2312	C4Cl4F4	1,3,4,4-tetrachloro-1,2,3,4-tetrafluoro-1-bu*	357-20-0	413.95	35.682	1,2
2173	C3H9B	trimethylborane	593-90-8	252.95	20.768	1,2	2313	C4Cl4F4	1,1,2,2-tetrachloro-3,3,4,4-tetrafluorocyclo*	336-50-5	404.50	34.789	1,2
2176	C3H9BO3	trimethyl borate	121-43-7	340.65	28.811	1,2	2314	C4Cl4F6	2,2,3,3-tetrachlorohexafluorobutane	375-34-8	405.00	34.837	1,2
2177	C3H9BS	methyl dimethylthioborane	19163-05-4	344.15	29.137	1,2	2316	C4Cl4O	perchloro-2-cyclobutene-1-one	3200-96-2	311.55	26.119	1,2
2178	C3H9BS3	trimethyl thioborate	997-49-9	491.35	43.054	1,2	2317	C4Cl4S	tetrachlorothiophene	6012-97-1	506.54	47.124	1,2
2179	C3H9B3O3	trimethylboroxine	823-96-1	352.15	29.881	1,2	2318	C4Cl6	hexachloro-1,3-butadiene	87-68-3	488.15	44.660	1,2
2180	C3H9B3O6	trimethoxyboroxine	102-24-9	403.15	34.662	1,2	2319	C4Cl6F6	trichlorotrifluoroethane	26523-64-8	319.65	26.866	1,2
2181	C3H9Bi	trimethyl bismuth	593-91-9	383.15	32.780	1,2	2320	C4Cl6O3	trichloroacetic anhydride	4124-31-6	496.15	43.514	2
2182	C3H9BrGe	trimethylgermanium bromide	1066-37-1	387.05	33.147	1,2	2323	C4D10O	tert-butanol-d10	53001-22-2	354.15	30.068	1,2
2184	C3H9BrSi	bromotrimethylsilane	2857-97-8	352.15	29.881	1,2	2324	C4F	tetracarbon monofluoride	12774-81-1	285.45	23.723	1,2
2185	C3H9BrSn	trimethyltin bromide	1066-44-0	437.15	37.880	1,2	2326	C4F4O3	3,3,4,4-tetrafluorodihydro-2,5-furandione	699-30-9	327.65	27.606	1,2
2186	C3H9ClGe	chlorotrimethylgermane	1529-47-1	375.15	32.030	1,2	2327	C4F6	1,1,2,3,4,4-hexafluoro-1,3-butadiene	685-63-2	279.15	23.148	1,2
2187	C3H9ClO3SSi	trimethylsilyl chlorosulfonate	4353-77-9	441.65	38.307	1,2	2328	C4F6	1,1,1,4,4,4-hexafluoro-2-butyne	692-50-2	248.55	20.370	1,2
2190	C3H9ClSi	trimethylchlorosilane	75-77-4	333.15	28.115	1,2	2329	C4F6	hexafluorocyclobutene	697-11-0	278.65	23.102	1,2
2191	C3H9ClSn	chlorotrimethylstannane	1066-45-1	421.15	36.363	1,2	2331	C4F6O3	trifluoroacetic acid anhydride	407-25-0	312.65	26.220	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
2333	C4F7NO3	heptafluorobutyryl nitrate	663-25-2	372.65	31.796	1,2	2479	C4H3F3O3	methyl 3,3,3-trifluoropyruvate	13089-11-7	358.65	30.487	1,2
2334	C4F8	octafluoro-2-butene	360-89-4	270.36	21.748	1,2	2481	C4H3F5O2	methyl pentafluoropropanoate	378-75-6	332.65	28.069	1,2
2335	C4F8	perfluoroisobutene	382-21-8	280.15	23.239	1,2	2482	C4H3F7O	2,2,3,3,4,4,4-heptafluoro-1-butanol	375-01-9	368.15	31.375	1,2
2336	C4F8	octafluorocyclobutane	115-25-3	267.17	23.217	1,2	2483	C4H3F7O	perfluoroisopropyl methyl ether	22052-84-2	302.56	25.292	1,2
2337	C4F8	1,1,2,3,3,4,4,4-octafluoro-1-butene	357-26-6	277.00	22.952	1,2	2484	C4H3F7O	perfluoropropyl methyl ether	375-03-1	307.38	25.735	1,2
2338	C4F8I2	octafluoro-1,4-diiodobutane	375-50-8	423.15	36.552	1,2	2486	C4H3IO	2-iodofuran	54829-48-0	406.15	34.945	2
2338.1	C4F8O	pentafluoroethyl trifluorovinyl ether	10493-43-3	281.15	26.237	1,2	2487	C4H3IO	3-iodofuran	29172-20-1	406.15	34.945	1,2
2339	C4F8O2	heptafluorobutyryl hypofluorite	---	470.15	41.024	1,2	2488	C4H3IS	2-iodothiophene	3437-95-4	454.15	39.497	1,2
2340	C4F9I	nonafluoro-1-iodobutane	423-39-2	340.05	28.756	1,2	2489	C4H3IS	3-iodothiophene	10486-61-0	454.15	39.497	2
2341	C4F9I	perfluoro-tert-butyl iodide	4459-18-1	334.15	28.208	1,2	2493	C4H3NO2S	2-nitrothiophene	609-40-5	497.65	43.658	1,2
2342	C4F9IO3S	tetrafluoro-2-(tetrafluoro-2-iodoethoxy)etha*	66137-74-4	399.65	34.332	1,2	2494	C4H3NO2S	3-nitrothiophene	822-84-4	498.15	43.706	1,2
2344	C4F10	decafluorobutane	355-25-9	271.15	23.188	1,2	2509	C4H3N5O	5-diazoimidazole-4-carboxamide	7008-85-7	461.15	40.164	2
2345	C4F10	perfluoroisobutane	354-92-7	261.15	19.919	2	2510	C4H4	vinylacetylene	689-97-4	278.25	23.792	1,2
2348	C4F10O2	perfluoro-tert-butyl peroxyhypofluorite	66793-67-7	440.15	38.165	1,2	2511	C4H4AsCl3	bis(2-chlorovinyl)chloroarsine	40334-69-8	462.15	40.260	1,2
2349	C4F10O2S	perfluoro-1-butanesulfonyl fluoride	375-72-4	338.05	28.570	1,2	2515	C4H4BrF3	4-bromo-1,1,2-trifluoro-1-butene	10493-44-4	370.55	31.599	1,2
2352	C4HBrO3	bromomaleic anhydride	5926-51-2	488.15	42.747	1,2	2525	C4H4ClNS	2-chloro-3-isothiocyanato-1-propene	14214-31-4	455.15	39.592	1,2
2354	C4HBr3S	2,3,5-tribromothiophene	3141-24-0	533.15	47.078	1,2	2526	C4H4CuN22	copper(ii)-1,3-di(5-tetrazolyl)triazenide	32061-49-7	419.15	36.173	1,2
2355	C4HClF6	2-chloro-1,1,1,4,4,4-hexafluorobutene-2	400-44-2	306.20	25.626	1,2	2527	C4H4ClF3	1-chloro-1,2,2-trifluorocyclobutane	661-71-2	354.00	30.054	1,2
2356	C4HClN2	cis-2-chloro-2-butenedinitrile	71200-79-8	445.15	38.640	1,2	2528	C4H4ClF3O3S	2-chloro-2-propenyl trifluoromethane sulfona*	62861-56-7	310.90	26.059	1,2
2357	C4HClO3	3-chloro-2,5-furandione	96-02-6	469.15	40.928	1,2	2529	C4H4ClNOS	5-chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	382.85	32.752	1,2
2360	C4HCl3N2	2,4,6-trichloropyrimidine	3764-01-0	485.65	42.507	1,2	2533	C4H4Cl2	1,1-dichloro-1,3-butadiene	6061-06-9	395.65	33.956	2
2361	C4HCl3O2	cis-2-chloro-2-butenedioyl dichloride	17096-37-6	458.15	39.878	2	2534	C4H4Cl2	1,2-dichloro-1,3-butadiene	3574-40-1	377.15	32.218	1,2
2362	C4HCl3S	2,3,5-trichlorothiophene	17249-77-3	471.85	41.186	1,2	2535	C4H4Cl2	2,3-dichloro-1,3-butadiene	1653-19-6	371.15	31.656	1,2
2363	C4HCl5O2	2,2,3,4,4-pentachloro-3-butenoic acid	85743-61-9	392.05	33.617	1,2	2536	C4H4Cl2	1,4-dichloro-2-butyne	821-10-3	438.65	38.022	1,2
2366	C4HF7O2	heptafluorobutanoic acid	375-22-4	394.15	33.814	1,2	2537	C4H4Cl2	dichloro-1,3-butadiene	28577-62-0	395.65	33.956	2
2367	C4HF9O	nonafluoro-tert-butyl alcohol	2378-02-1	318.15	26.728	1,2	2538	C4H4Cl2O2	butanedioyl dichloride	543-20-4	466.45	40.670	1,2
2368	C4HF9O3S	1-perfluorobutanesulfonic acid	375-73-5	408.65	35.181	1,2	2541	C4H4Cl2O3	chloroacetic anhydride	541-88-8	476.15	41.597	1,2
2369	C4HI	1-iodo-1,3-butadiyne	6088-91-1	343.95	29.118	1,2	2545	C4H4Cl4	1,3,4,4-tetrachloro-1-butene	2984-40-9	470.00	41.009	2
2374	C4H2	biacetylene	460-12-8	283.46	32.472	1,2	2546	C4H4Cl4	2,3,3,4-tetrachloro-1-butene	64346-45-8	470.00	41.009	2
2375	C4H2BrClS	2-bromo-5-chlorothiophene	2873-18-9	468.15	40.833	2	2548	C4H4Cl4O2	2-chloroethyl trichloroacetate	4974-21-4	490.15	42.939	1,2
2376	C4H2BrClS	3-bromo-2-chlorothiophene	40032-73-3	468.15	40.833	1,2	2550	C4H4Cl6	hexachlorobutane	26523-63-7	309.25	25.907	1,2
2378	C4H2Br2O	2,3-dibromofuran	30544-34-4	440.15	38.165	1,2	2555	C4H4F4N2O2	tetrafluorosuccinamide	377-37-7	331.15	27.930	1,2
2379	C4H2Br2O	2,5-dibromofuran	32460-00-7	437.65	37.927	1,2	2556	C4H4F6N4	2-cyano-1,2,3-tris(difluoroamino)propane	16176-02-6	319.15	26.820	1,2
2382	C4H2Br2S	2,3-dibromothiophene	3140-93-0	491.65	43.082	1,2	2557	C4H4F6O	bis(2,2,2-trifluoroethyl) ether	333-36-8	336.10	28.389	1,2
2383	C4H2Br2S	2,4-dibromothiophene	3140-92-9	483.15	42.268	1,2	2558	C4H4F6O	2,2,3,4,4,4-hexafluoro-1-butanol	382-31-0	387.15	33.156	1,2
2384	C4H2Br2S	2,5-dibromothiophene	3141-27-3	483.45	42.296	1,2	2559	C4H4F6O	1,1,1,3,3,3-hexafluoro-2-methyl-2-propanol	1515-14-6	334.10	28.203	1,2
2385	C4H2Br2S	3,4-dibromothiophene	3141-26-2	494.65	43.370	1,2	2562	C4H4N2	succinonitrile	110-61-2	540.15	54.322	1,2
2386	C4H2ClF3	1-chloro-2,3,3-trifluorocyclobutene	694-62-2	324.65	27.328	1,2	2563	C4H4N2	pyrazine	290-37-9	388.15	33.250	1,2
2389	C4H2Cl2N2	2,6-dichloropyrazine	4774-14-5	449.15	39.021	2	2564	C4H4N2	pyridazine	289-80-5	481.15	42.076	1,2
2390	C4H2Cl2N2	3,6-dichloropyridazine	141-30-0	449.15	39.021	2	2565	C4H4N2	pyrimidine	289-95-2	396.95	34.078	1,2
2391	C4H2Cl2N2	4,6-dichloropyrimidine	1193-21-1	449.15	39.021	1,2	2572	C4H4N2O2	maleic hydrazide	123-33-1	533.15	47.078	1,2
2392	C4H2Cl2N2	2,4-dichloropyrimidine	3934-20-1	449.15	39.021	2	2574	C4H4N2O3	barbituric acid	67-52-7	533.15	47.078	2
2393	C4H2Cl2O2	trans-2-butenedioyl dichloride	627-63-4	432.15	37.405	1,2	2584	C4H4N4O	2,2'-(N-nitrosoimino)diacetonitrile	16339-18-7	309.15	25.898	1,2
2396	C4H2Cl2S	2,3-dichlorothiophene	17249-79-5	446.65	38.783	1,2	2592	C4H4O	furan	110-00-9	304.50	27.175	1,2
2397	C4H2Cl2S	2,4-dichlorothiophene	17249-75-1	440.75	38.222	1,2	2593	C4H4O	2-butynal	1119-19-3	379.65	32.452	1,2
2398	C4H2Cl2S	2,5-dichlorothiophene	3172-52-9	435.15	37.690	1,2	2594	C4H4O	3-butyn-2-one	1423-60-5	357.15	30.347	1,2
2399	C4H2Cl2S	3,4-dichlorothiophene	17249-76-2	458.15	39.878	1,2	2595	C4H4OS	thiophene-2-ol	17236-58-7	491.15	43.034	1,2
2400	C4H2Cl3F3	1,1,2-trichloro-2,3,3-trifluorocyclobutane	697-17-6	393.05	33.711	1,2	2597	C4H4O2	1,4-dioxin	290-67-5	349.15	29.602	1,2
2401	C4H2Cl4	1,2,3,4-tetrachloro-1,3-butadiene	1637-31-6	461.15	40.164	1,2	2598	C4H4O2	diketene	674-82-8	399.20	38.820	1,2
2402	C4H2Cl4	1,1,2,3-tetrachloro-1,3-butadiene	921-09-5	324.65	27.328	1,2	2599	C4H4O2	2-butynoic acid	590-93-2	476.15	41.597	1,2
2403	C4H2Cl4O3	dichloroacetic anhydride	4124-30-5	488.15	42.747	2	2600	C4H4O2	g-crotonolactone	497-23-4	359.65	30.581	1,2
2405	C4H2Cl8O	bis(1,2,2,2-tetrachloroethyl) ether	41284-12-2	461.15	40.164	1,2	2601	C4H4O2	methyl propiolate	922-67-8	376.65	32.171	1,2
2408	C4H2F6O2	2,2,2-trifluoroethyl trifluoroacetate	407-38-5	328.05	27.643	1,2	2603	C4H4O3	succinic anhydride	108-30-5	536.58	54.150	1,2
2410	C4H2F8O	perfluoroethyl 2,2,2-trifluoroethyl ether	156053-88-2	301.04	25.152	1,2	2605	C4H4O4	fumaric acid	110-17-8	563.15	70.052	1,2
2420	C4H2N2	trans-2-butenedinitrile	764-42-1	459.15	39.973	1,2	2606	C4H4O4	maleic acid	110-16-7	565.00	71.017	1,2
2420.1	C4H2N2	maleonitrile	928-53-0	492.00	49.501	1,2	2607	C4H4O4	diglycolic anhydride	4480-83-5	513.65	45.197	1,2
2422	C4H2N2O4S	2,5-dinitrothiophene	59434-05-8	563.15	49.984	1,2	2613	C4H4S	thiophene	110-02-1	357.31	31.846	1,2
2423	C4H2N2O4S	2,4-dinitrothiophene	5347-12-6	559.15	49.595	1,2	2614	C4H4Se	selenophene	288-05-1	383.60	32.823	1,2
2430	C4H2O3	maleic anhydride	108-31-6	475.15	47.220	1,2	2620	C4H5Br	1-bromo-1,3-butadiene	21890-35-7	366.15	31.188	1,2
2435	C4H3Ag	silver buten-3-ynide	15383-68-3	417.45	36.013	1,2	2621	C4H5Br	2-bromo-1,3-butadiene	1822-86-2	374.65	31.983	2
2438	C4H3BrClF3	4-bromo-3-chloro-3,4,4-trifluoro-1-butene	374-25-4	372.65	31.796	1,2	2622	C4H5Br	4-bromo-1,2-butadiene	18668-68-3	383.15	32.780	1,2
2440	C4H3BrN2	2-bromopyrimidine	4595-60-2	335.15	28.301	1,2	2623	C4H5Br	1-bromo-2-butyne	3355-28-0	374.65	31.983	2
2442	C4H3BrO	2-bromofuran	584-12-3	376.15	32.124	1,2	2624	C4H5BrF2O2	ethyl bromodifluoroacetate	667-27-6	385.15	32.968	1,2
2443	C4H3BrO	3-bromofuran	22037-28-1	376.15	32.124	1,2	2628	C4H5BrO2	3-bromo-2-methyl-2-propenoic acid	89123-63-7	502.15	44.091	1,2
2445	C4H3BrO4	bromomaleic acid	644-80-4	473.15	41.310	2	2632	C4H5Br2FO2	ethyl dibromofluoroacetate	565-53-7	446.15	38.735	1,2
2446	C4H3BrS	2-bromothiophene	1003-09-4	423.15	36.552	1,2	2633	C4H5Br3O2	ethyl tribromoacetate	599-99-5	498.15	43.706	1,2
2447	C4H3BrS	3-bromothiophene	872-31-1	432.65	37.453	1,2	2634	C4H5Cl	chloroprene	126-99-8	332.55	27.897	1,2
2448	C4H3Cl	4-chloro-1-buten-3-yne	40589-38-6	329.15	27.745	1,2	2635	C4H5Cl	4-chloro-1,2-butadiene	25790-55-0	361.15	37.128	1,2
2449	C4H3ClF2O	1-chloro-3,3-difluoro-2-methoxycyclopropene	59034-34-3	351.47	29.818	1,2	2636	C4H5Cl	1-chloro-1,3-butadiene	627-22-5	341.15	30.303	1,2
2450	C4H3ClHgO	chloro(2-furyl)mercury	5857-37-4	470.65	41.071	1,2	2637	C4H5Cl	1-chloro-2-butyne	3355-17-7	376.15	32.124	1,2
2451	C4H3ClHg2O7	1-acetoxymercurio-1-perchloratomercuriopropе*	---	249.45	20.452	1,2	2638	C4H5Cl	3-chloro-1-butyne	21020-24-6	341.65	28.904	1,2
2452	C4H3ClHg4O7	1-acetoxydimercurio-1-perchloratodimercuriop*	---	283.15	23.513	1,2	2639	C4H5ClFO2	2-chloroethyl fluoroacetate	1537-62-8	393.15	33.720	1,2
2453	C4H3ClN2	2-chloropyrazine	14508-49-7	426.65	36.884	1,2	2640	C4H5ClF2O2	ethyl chlorodifluoroacetate	383-62-0	369.90	31.539	1,2
2458	C4H3ClO	2-chlorofuran	3187-94-8	351.15	29.788	1,2	2641	C4H5ClN2	3-chloro-5-methyl-1H-pyrazole	15953-45-4	531.15	46.885	1,2
2459	C4H3ClO	3-chlorofuran	50689-17-3	353.15	29.974	1,2	2645	C4H5ClN4	2,6-diamino-4-chloropyrimidine / 4-chloro-2,*	156-83-2	473.65	41.358	1,2
2460	C4H3ClO2	propargyl chloroformate	35718-08-2	393.15	33.720	1,2	2646	C4H5ClO	2-butenoyl chloride	10487-71-5	397.65	34.144	1,2
2462	C4H3ClS	2-chlorothiophene	96-43-5	401.45	34.502	1,2	2647	C4H5ClO	2-methyl-2-propenoyl chloride	920-46-7	369.15	31.468	1,2
2463	C4H3ClS	3-chlorothiophene	17249-80-8	411.15	35.417	1,2	2648	C4H5ClO	2-chloro-2-butenal	53175-28-3	420.65	36.315	1,2
2477	C4H3F3O2	2-(trifluoromethyl)acrylic acid	381-98-6	359.15	30.534	1,2	2649	C4H5ClO	crotonoyl chloride	625-35-4	394.65	33.861	1,2
2478	C4H3F3O2	vinyl trifluoroacetate	433-28-3	312.60	26.216	1,2	2650	C4H5ClO	cyclopropanecarbonyl chloride	4023-34-1	390.15	33.438	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
2651	C4H5ClO	1-chloro-1-buten-3-one	7119-27-9	535.15	47.271	1,2	2782	C4H6Br2O	3,3-dibromo-2-butanone	2648-69-3	467.70	40.790	1,2
2654	C4H5ClO2	trans-3-chlorobutenoic acid	6214-28-4	468.15	40.833	1,2	2784	C4H6Br2O2	ethyl dibromoacetate	617-33-4	467.15	40.737	1,2
2655	C4H5ClO2	trans-2-chloro-2-butenoic acid	22038-56-8	485.15	42.459	1,2	2785	C4H6Br2O2	methyl 2,3-dibromopropanoate	1729-67-5	479.15	41.884	1,2
2658	C4H5ClO2	isopropenyl chloroformate	57933-83-2	375.15	32.030	1,2	2788	C4H6Br4	1,1,4,4-tetrabromobutane	116779-77-2	533.15	47.078	2
2660	C4H5ClO2	allyl chloroformate	2937-50-0	383.15	32.780	1,2	2789	C4H6Br4	1,2,2,3-tetrabromobutane	116779-78-3	533.15	47.078	2
2661	C4H5ClO3	ethyl 2-chloro-2-oxoacetate	4755-77-5	410.15	35.323	1,2	2790	C4H6Br4	1,2,3,4-tetrabromobutane, (±)	2657-65-0	533.15	47.078	1,2
2663	C4H5ClO3	methyl malonyl chloride	37517-81-0	331.15	27.930	1,2	2791	C4H6Br4	1,2,3,4-tetrabromobutane	1529-68-6	533.15	47.078	2
2665	C4H5Cl3	1,2,4-trichloro-2-butene	2431-54-1	417.65	36.032	2	2794	C4H6ClFO2	ethyl chlorofluoroacetate	401-56-9	402.15	34.568	1,2
2666	C4H5Cl3	2,3,4-trichloro-1-butene	2431-50-7	417.65	36.032	2	2795	C4H6ClN	4-chlorobutanenitrile	628-20-6	465.15	40.546	1,2
2667	C4H5Cl3	1,1,3-trichloro-2-methyl-1-propene	31702-33-7	429.15	37.121	1,2	2796	C4H6ClN	3-chloro-2-methylpropionitrile	7659-45-2	465.15	40.546	2
2668	C4H5Cl3	3,3,3-trichloro-2-methyl-1-propene	4749-27-3	406.15	34.945	1,2	2800	C4H6ClNO	3-chloropropyl isocyanate	13010-19-0	426.15	36.836	1,2
2669	C4H5Cl3O	2,2,3-trichlorobutanal	76-36-8	437.15	37.880	1,2	2803	C4H6ClNO2	N-chloro-3-morpholinone	---	336.45	28.421	1,2
2673	C4H5Cl3O2	ethyl trichloroacetate	515-84-4	440.65	38.212	1,2	2806	C4H6Cl2	1,3-dichloro-trans-2-butene	7415-31-8	402.00	35.795	1,2
2674	C4H5Cl3O2	2,2,3-trichlorobutanoic acid	5344-55-8	510.15	44.860	1,2	2807	C4H6Cl2	1,4-dichloro-cis-2-butene	1476-11-5	425.65	38.332	1,2
2676	C4H5Cl5	1,1,2,3,4-pentachlorobutane	77753-24-3	503.15	44.187	1,2	2808	C4H6Cl2	1,4-dichloro-trans-2-butene	110-57-6	429.26	38.792	1,2
2677	C4H5Cl5	1,2,2,3,4-pentachlorobutane	2431-52-9	497.15	43.610	2	2809	C4H6Cl2	3,4-dichloro-1-butene	760-23-6	388.00	34.321	1,2
2678	C4H5Cl5	1,1,1,2,3-pentachloroisobutane	4749-31-9	488.15	42.747	1,2	2810	C4H6Cl2	3-chloro-2-(chloromethyl)-1-propene	1871-57-4	411.15	36.267	1,2
2679	C4H5Cl5	1,1,2,3-tetrachloro-2-(chloromethyl)propane	66997-45-3	500.15	43.899	1,2	2811	C4H6Cl2	1,3-dichloro-1-butene	52497-07-1	398.15	32.605	1,2
2680	C4H5Cl5	pentachlorobutane	31391-27-2	497.15	43.610	2	2812	C4H6Cl2	2,3-dichloro-1-butene	7013-11-8	385.15	29.432	1,2
2681	C4H5D3N2O3	methylnitrosaminomethyl-d3 ester acetic acid	67557-57-7	280.15	23.239	1,2	2813	C4H6Cl2	1,1-dichloro-2-butene	56800-09-0	399.15	32.868	1,2
2682	C4H5F	2-fluoro-1,3-butadiene	381-61-3	285.15	23.696	1,2	2814	C4H6Cl2	1,2-dichloro-2-butene	13602-13-6	403.65	34.088	1,2
2685	C4H5F3O	2,2,2-trifluoroethyl vinyl ether	406-90-6	315.65	26.497	1,2	2815	C4H6Cl2	cis-1,3-dichloro-2-butene	10075-38-4	403.15	33.950	1,2
2686	C4H5F3OS	S-ethyl trifluorothioacetate	383-64-2	363.75	30.964	1,2	2816	C4H6Cl2	cis-2,3-dichloro-2-butene	1587-26-4	398.65	32.736	1,2
2687	C4H5F3O2	ethyl trifluoroacetate	383-63-1	334.15	28.208	1,2	2817	C4H6Cl2	trans-2,3-dichloro-2-butene	1587-29-7	375.15	27.266	1,2
2688	C4H5F3O3S	prop-2-enyl trifluoromethane sulfonate	41029-45-2	289.75	24.117	1,2	2818	C4H6Cl2	1,1-dichloro-2-methyl-1-propene	6065-93-6	381.65	28.649	1,2
2689	C4H5F5O	perfluoroethyl ethyl ether	22052-81-9	301.26	25.172	1,2	2819	C4H6Cl2	3,3-dichloro-2-methyl-1-propene	22227-75-4	381.15	28.539	1,2
2691	C4H5I	2-iodo-1,3-butadiene	19221-28-4	385.15	32.968	1,2	2820	C4H6Cl2	1,4-dichloro-2-butene	764-41-0	430.15	42.766	1,2
2692	C4H5I	4-iodo-1,2-butadiene	67885-08-9	403.15	34.662	1,2	2821	C4H6Cl2	1,3-dichloro-2-butene, cis and trans	926-57-8	401.15	33.403	1,2
2695	C4H5N	trans-crotonitrile	627-26-9	394.38	35.570	1,2	2822	C4H6Cl2	dichlorobutene	11069-19-5	400.83	33.315	2
2696	C4H5N	cis-crotonitrile	1190-76-7	380.60	33.740	1,2	2825	C4H6Cl2O	2-chloro-2-methylpropanoyl chloride	13222-26-9	399.65	34.332	1,2
2697	C4H5N	methacrylonitrile	126-98-7	363.45	30.650	1,2	2826	C4H6Cl2O	3-chloro-2-methylpropanoyl chloride	7623-10-1	365.15	31.094	1,2
2698	C4H5N	vinylacetonitrile	109-75-1	391.67	35.341	1,2	2827	C4H6Cl2O	2-chlorobutanoyl chloride	7623-11-2	403.65	34.709	1,2
2699	C4H5N	2-butenenitrile	4786-20-3	393.65	38.943	1,2	2829	C4H6Cl2O	4-chlorobutanoyl chloride	4635-59-0	446.65	38.783	1,2
2700	C4H5N	cyclopropanecarbonitrile	5500-21-0	408.25	35.143	1,2	2831	C4H6Cl2O	1,3-dichloro-2-butanone	16714-77-5	439.65	38.117	1,2
2701	C4H5N	pyrrole	109-97-7	403.00	39.093	1,2	2833	C4H6Cl2O	1,2-dichloro-1-ethoxyethene	42345-82-4	401.35	34.492	1,2
2702	C4H5N	3-isocyano-1-propene	2835-21-4	371.15	31.656	1,2	2835	C4H6Cl2O	2,3-dichloro-2-methylpropionaldehyde	10141-22-7	298.15	24.887	1,2
2703	C4H5NO	allyl isocynate	1476-23-9	361.15	30.721	1,2	2836	C4H6Cl2O	2,3-dichlorotetrahydrofuran	3511-19-1	298.15	24.887	1,2
2704	C4H5NO	5-methylisoxazole	5765-44-6	395.15	33.908	1,2	2837	C4H6Cl2O2	2-chloroethyl chloroacetate	3848-12-2	476.15	41.597	1,2
2705	C4H5NO	4-methyloxazole	693-93-6	361.15	30.721	1,2	2838	C4H6Cl2O2	3-chloropropyl chloroformate	628-11-5	450.15	39.116	1,2
2706	C4H5NO	3-methoxyacrylonitrile, isomers	60838-50-8	462.15	40.260	1,2	2842	C4H6Cl2O2	ethyl dichloroacetate	535-15-9	428.15	37.026	1,2
2707	C4H5NO	3-methylisoxazole	30842-90-1	391.20	33.537	1,2	2850	C4H6Cl2O3	methyl 2,2-dichloro-2-methoxyacetate	17640-25-4	453.15	39.402	1,2
2710	C4H5NOS	monothiosuccinimide	4166-00-1	383.15	32.780	1,2	2853	C4H6Cl3NO	2,2,2-trichloro-N,N-dimethylacetamide	7291-33-0	504.15	44.283	2
2713	C4H5NO2	methyl cyanoacetate	105-34-0	478.24	48.477	1,2	2855	C4H6Cl3NSi	3-cyanopropyltrichlorosilane	1071-27-8	510.65	44.908	1,2
2715	C4H5NO2	ethyl cyanoformate	623-49-4	388.65	33.297	1,2	2856	C4H6Cl4	1,1,1,2-tetrachlorobutane	39966-95-5	408.15	35.134	1,2
2716	C4H5NO2	succinimide	123-56-8	560.15	49.692	2	2857	C4H6Cl4	1,2,2,3-tetrachlorobutane	79630-70-9	455.15	39.592	1,2
2717	C4H5NO2	glycolonitrile acetate	1001-55-4	473.15	41.310	1,2	2858	C4H6Cl4	1,2,3,3-tetrachlorobutane	13138-51-7	452.78	39.366	2
2724	C4H5NS	allyl isothiocyanate	57-06-7	425.15	36.741	1,2	2859	C4H6Cl4	1,1,1,2-tetrachloro-2-methylpropane	7086-07-9	452.78	39.366	2
2725	C4H5NS	allyl thiocyanate	764-49-8	434.15	37.595	1,2	2860	C4H6Cl4	1,1,2,3-tetrachloro-2-methylpropane	18963-01-4	463.65	40.403	1,2
2726	C4H5NS	4-methylthiazole	693-95-8	406.45	34.973	1,2	2861	C4H6Cl4	1,2,3-trichloro-2-(chloromethyl)propane	18963-00-3	484.15	42.363	1,2
2727	C4H5NS	2-methylthiazole	3581-87-1	401.15	34.474	1,2	2862	C4H6Cl4	1,2,3,4-tetrachlorobutane	3405-32-1	452.78	39.366	2
2728	C4H5NS	5-methylthiazole	3581-89-3	414.65	35.748	1,2	2865	C4H6Cl6Si2	(2-methylene-1,3-propanediyl)bis[trichlorosi*	78948-04-6	514.15	45.245	1,2
2736	C4H5N3OS	6-amino-2-thiouracil	1004-40-6	519.65	45.775	1,2	2870	C4H6F2O2	ethyl difluoroacetate	454-31-9	373.15	31.843	1,2
2737	C4H5N3OS	1,3,4-thiadiazole-2-acetamido	---	443.65	38.497	1,2	2872	C4H6F3NO	2,2,2-trifluoro-N,N-dimethylacetamide	1547-87-1	406.15	34.945	1,2
2744	C4H5N3O2	1-methyl-2-nitroimidazole	1671-82-5	567.15	50.372	1,2	2876	C4H6F4N2O	1,2-bis(difluoroamino)ethyl vinyl ether	13084-45-2	354.15	30.068	1,2
2745	C4H5N3O2	1-methyl-4-nitro-1H-imidazole	3034-41-1	365.15	31.094	1,2	2877	C4H6F4O2	2,2,3,3-tetrafluoro-1,4-butanediol	425-61-6	358.95	30.515	1,2
2748	C4H5N3O3	1-hydroxyimidazole-2-carboxaldoxime-3-oxide	---	573.95	51.033	1,2	2878	C4H6F8N4O	di-1,2-bis(difluoroamino)ethyl ether	13084-46-3	390.35	33.457	1,2
2752	C4H5OS	S-ethyl chlorothioformate	2941-64-2	405.15	34.851	1,2	2886	C4H6N2	1-methylimidazol	616-47-7	468.65	40.880	1,2
2753	C4H6	cyclobutene	822-35-5	275.75	25.807	1,2	2887	C4H6N2	2-methyl-1H-imidazole	693-98-1	540.15	47.755	1,2
2754	C4H6	dimethylacetylene	503-17-3	300.13	26.430	1,2	2888	C4H6N2	4-methyl-1H-imidazole	822-36-6	536.15	47.368	1,2
2755	C4H6	ethylacetylene	107-00-6	281.22	24.522	1,2	2889	C4H6N2	1-methyl-1H-pyrazole	930-36-9	400.15	34.379	1,2
2756	C4H6	1,2-butadiene	590-19-2	284.00	24.220	1,2	2890	C4H6N2	3-methyl-1H-pyrazole	1453-58-3	477.15	41.693	1,2
2757	C4H6	butadiene (1,3 butadiene)	106-99-0	268.74	22.479	1,2	2891	C4H6N2	4-methyl-1H-pyrazole	7554-65-6	479.15	41.884	1,2
2762	C4H6BrClO	2-bromobutanoyl chloride	22118-12-3	424.15	36.647	1,2	2894	C4H6N2O	dimethylfurazan	4975-21-7	429.15	37.121	1,2
2763	C4H6BrClO	4-bromobutyryl chloride	927-58-2	424.15	36.647	2	2901	C4H6N2O2	ethyl diazoacetate	623-73-4	413.15	35.606	2
2764	C4H6BrClO2	ethyl bromochloroacetate	22524-32-9	447.15	38.830	2	2915	C4H6N2O2	N-nitroso-2-pyrrolidine	54634-49-0	271.15	22.419	1,2
2765	C4H6BrFO2	ethyl bromofluoroacetate	401-55-8	427.15	36.931	1,2	2919	C4H6N2S	1,3-dihydro-1-methyl-2H-imidazole-2-thione	60-56-0	553.15	49.014	2
2766	C4H6BrF3O	2-bromo-1,1,2-trifluoroethyl ethyl ether	380-78-9	389.00	33.330	1,2	2920	C4H6N2S	2,5-dimethyl-1,3,4-thiadiazole	27464-82-0	475.65	41.550	1,2
2767	C4H6BrN	4-bromobutanenitrile	5332-06-9	479.15	41.884	1,2	2928	C4H6N4OSe	N-methyl-4-amino-1,2,5-selenadiazole-3-carbo*	7698-91-1	323.35	27.208	1,2
2768	C4H6BrN	2-bromo-2-methylpropanenitrile	41658-69-9	412.65	35.559	1,2	2939	C4H6NiO4	nickel acetate	373-02-4	289.75	24.117	1,2
2770	C4H6Br2	1,1-dibromo-1-butene	73383-24-1	443.85	38.516	2	2939.1	C4H6O	cis-crotonaldehyde	15798-64-8	361.87	29.636	1,2
2771	C4H6Br2	1,2-dibromo-1-butene	55030-56-3	423.15	36.552	1,2	2940	C4H6O	trans-crotonaldehyde	123-73-9	377.25	34.805	1,2
2772	C4H6Br2	1,3-dibromo-2-butene	64930-16-1	441.15	38.260	2	2941	C4H6O	methacrolein	78-85-3	341.15	29.740	1,2
2773	C4H6Br2	3,4-dibromo-1-butene	10463-48-6	443.85	38.516	2	2942	C4H6O	2,5-dihydrofuran	1708-29-8	339.00	30.391	1,2
2774	C4H6Br2	trans-1,4-dibromo-2-butene	821-06-7	476.15	41.597	1,2	2943	C4H6O	2,3-dihydrofuran	1191-99-7	327.65	27.606	1,2
2775	C4H6Br2	1,1-dibromocyclobutane	33742-81-3	433.15	37.500	1,2	2944	C4H6O	divinyl ether	109-93-3	301.45	26.759	1,2
2776	C4H6Br2	1,2-dibromocyclobutane	89033-70-5	445.65	38.688	1,2	2945	C4H6O	2,3-butadien-1-ol	18913-31-0	401.65	34.521	1,2
2777	C4H6Br2	1,3-dibromo-2-methyl-1-propene	35911-17-2	443.85	38.516	2	2946	C4H6O	3-buten-2-one	78-94-4	354.55	30.105	1,2
2778	C4H6Br2	1,4-dibromo-2-butene	6974-12-5	443.85	38.516	2	2947	C4H6O	2-butyn-1-ol	764-01-2	415.70	36.000	1,2
2780	C4H6Br2O	1,1-dibromo-2-ethoxyethene	77295-79-5	445.15	38.640	1,2	2948	C4H6O	3-butyn-1-ol	927-74-2	402.15	34.568	1,2
2781	C4H6Br2O	2-bromo-2-methylpropanoyl bromide	20769-85-1	436.15	37.785	1,2	2949	C4H6O	3-butyn-2-ol	2028-63-9	379.65	32.452	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
2950	C4H6O	cyclobutanone	1191-95-3	372.15	31.749	1,2	3083	C4H7Br3	1,1,1-tribromobutane	62127-62-2	484.15	46.111	1,2
2951	C4H6O	ethoxyacetylene	927-80-0	323.15	27.190	1,2	3084	C4H7Br3	1,1,2-tribromobutane	3675-68-1	489.35	47.131	1,2
2952	C4H6O	3-methoxy-1-propyne	627-41-8	336.15	28.394	1,2	3085	C4H7Br3	1,1,3-tribromobutane	---	488.52	47.047	2
2953	C4H6O	vinyloxirane	930-22-3	341.15	28.858	1,2	3086	C4H7Br3	1,1,4-tribromobutane	---	488.96	47.549	2
2954	C4H6O	(S)-(-)-3-butyn-2-ol	2914-69-4	382.65	32.734	1,2	3087	C4H7Br3	1,2,2-tribromobutane	3675-69-2	486.95	46.389	1,2
2955	C4H6O	(R)-(+)-3-butyn-2-ol	42969-65-3	382.65	32.734	1,2	3088	C4H7Br3	1,2,3-tribromobutane	632-05-3	493.15	47.512	1,2
2956	C4H6O	crotonaldehyde	4170-30-3	377.15	38.297	1,2	3089	C4H7Br3	1,2,4-tribromobutane	38300-67-3	488.15	47.467	1,2
2957	C4H6O	cyclopropanecarboxaldehyde	1489-69-6	372.65	31.796	1,2	3090	C4H7Br3	1,3,3-tribromobutane	62127-46-2	458.15	43.529	1,2
2958	C4H6O	2-methyl-1-propen-1-one	598-26-5	365.55	31.132	2	3091	C4H7Br3	2,3,3-tribromobutane	62127-47-3	479.15	45.185	1,2
2959	C4H6O	methyl vinyl ketone	78-94-4	412.15	35.512	1,2	3092	C4H7Br3	1,1,1-tribromo-2-methylpropane	---	485.73	45.833	2
2963	C4H6O2	2-butyne-1,4-diol	110-65-6	511.15	68.612	1,2	3093	C4H7Br3	1,1,2-tribromo-2-methylpropane	15331-16-5	503.15	47.550	1,2
2965	C4H6O2	gamma-butyrolactone	96-48-0	477.15	42.773	1,2	3094	C4H7Br3	1,1,3-tribromo-2-methylpropane	---	488.52	47.047	2
2966	C4H6O2	cis-2-butenoic acid	503-64-0	445.05	48.854	1,2	3095	C4H7Br3	1,2,3-tribromo-2-methylpropane	631-28-7	493.15	47.006	1,2
2967	C4H6O2	trans-2-butenoic acid	107-93-7	458.15	48.878	1,2	3096	C4H7Br3	1,3-dibromo-2-(bromomethyl)propane	62127-48-4	493.15	47.974	1,2
2968	C4H6O2	vinylacetic acid	625-38-7	442.15	40.049	1,2	3098	C4H7Cl	cis-1-chloro-1-butene	7611-86-1	336.65	28.596	1,2
2969	C4H6O2	methacrylic acid	79-41-4	434.15	33.220	1,2	3099	C4H7Cl	trans-1-chloro-1-butene	7611-87-2	341.25	29.006	1,2
2970	C4H6O2	methyl acrylate	96-33-3	353.35	32.211	1,2	3100	C4H7Cl	2-chloro-1-butene	2211-70-3	331.65	28.003	1,2
2971	C4H6O2	vinyl acetate	108-05-4	345.65	31.310	1,2	3101	C4H7Cl	3-chloro-1-butene	563-52-0	337.15	28.456	1,2
2972	C4H6O2	allyl formate	1838-59-1	356.75	34.534	1,2	3102	C4H7Cl	4-chloro-1-butene	927-73-1	347.15	29.600	1,2
2973	C4H6O2	2,2'-bioxirane, (R*,S*)	564-00-1	411.15	35.417	1,2	3103	C4H7Cl	1-chloro-cis-2-butene	4628-21-1	357.35	30.443	1,2
2974	C4H6O2	2,2'-bioxirane	1464-53-5	417.15	35.984	1,2	3104	C4H7Cl	1-chloro-trans-2-butene	4894-61-5	358.25	30.523	1,2
2975	C4H6O2	butanedial	638-37-9	443.15	38.450	2	3105	C4H7Cl	2-chloro-cis-2-butene	2211-69-0	339.95	28.673	1,2
2976	C4H6O2	2,3-butanedione	431-03-8	361.15	30.721	1,2	3106	C4H7Cl	2-chloro-trans-2-butene	2211-68-9	335.75	28.301	1,2
2977	C4H6O2	2,3-dihydro-1,4-dioxin	543-75-9	367.25	31.291	1,2	3107	C4H7Cl	1-chloro-2-methyl-1-propene	513-37-1	341.25	28.788	1,2
2978	C4H6O2	cyclopropanecarboxylic acid	1759-53-1	456.15	49.873	1,2	3108	C4H7Cl	3-chloro-2-methyl-1-propene	563-47-3	345.35	29.217	1,2
2979	C4H6O2	L-butadiene diepoxide	30031-64-2	417.65	36.032	1,2	3109	C4H7Cl	(chloromethyl)cyclopropane	5911-08-0	361.15	30.721	1,2
2980	C4H6O2	b-butyrolactone	3068-88-0	345.15	29.230	1,2	3110	C4H7Cl	1-chloro-2-butene	591-97-9	352.15	31.811	1,2
2981	C4H6O2	crotonic acid	3724-65-0	460.15	40.069	1,2	3111	C4H7Cl	2-chloro-2-butene	4461-41-0	337.65	27.690	1,2
2982	C4H6O2	dl-1,2:3,4-diepoxybutane	298-18-0	414.40	35.724	1,2	3112	C4H7Cl	cyclobutyl chloride	1120-57-6	356.15	30.254	1,2
2985	C4H6O2	DL-b-butyrolactone	36536-46-6	241.15	19.703	1,2	3115	C4H7ClO	butanoyl chloride	141-75-3	375.15	32.030	1,2
2987	C4H6O2S	divinyl sulfone	77-77-0	507.65	44.620	1,2	3116	C4H7ClO	2-methylpropanoyl chloride	79-30-1	365.15	31.094	1,2
2989	C4H6O2S4	dimethylxanthogen disulfide	1468-37-7	301.85	25.226	1,2	3117	C4H7ClO	2-chlorobutanal	28832-55-5	380.15	32.499	1,2
2990	C4H6O3	acetic anhydride	108-24-7	411.78	40.830	1,2	3118	C4H7ClO	4-chlorobutanal	6139-84-0	394.65	33.861	2
2991	C4H6O3	acetoacetic acid	541-50-4	373.15	31.843	2	3119	C4H7ClO	2-chloro-2-methylpropanal	917-93-1	363.15	30.908	1,2
2993	C4H6O3	methyl 2-oxopropanoate	600-22-6	408.65	35.181	1,2	3120	C4H7ClO	1-chloro-2-butanone	616-27-3	410.65	35.370	1,2
2995	C4H6O3	propylene carbonate	108-32-7	515.15	45.342	1,2	3121	C4H7ClO	3-chloro-2-butanone	4091-39-8	388.15	33.250	1,2
3001	C4H6O3	(R)-(+)-propylene carbonate	16606-55-6	513.15	45.149	1,2	3122	C4H7ClO	4-chloro-2-butanone	6322-49-2	393.15	33.720	2
3002	C4H6O3	(S)-(-)-propylene carbonate	51260-39-0	513.15	45.149	1,2	3123	C4H7ClO	1-chloro-3-buten-2-ol	671-56-7	418.65	36.126	1,2
3004	C4H6O3S	acetylmercaptoacetic acid	1190-93-8	302.15	25.254	1,2	3124	C4H7ClO	2-chloro-2-buten-1-ol	116723-93-4	432.15	37.405	1,2
3005	C4H6O3S	3,4-epoxysulfolane	4509-11-9	386.15	33.062	1,2	3125	C4H7ClO	2-chloro-3-buten-1-ol	75455-41-3	394.65	33.861	2
3006	C4H6O4	succinic acid	110-15-6	591.00	73.550	1,2	3126	C4H7ClO	3-chloro-2-buten-1-ol	40605-42-3	434.65	37.642	1,2
3009	C4H6O4	dimethyl oxalate	553-90-2	436.65	37.832	1,2	3127	C4H7ClO	3-chloro-3-buten-2-ol	6498-47-1	394.65	33.861	2
3010	C4H6O4	ethylene glycol diformate	629-15-2	447.15	38.830	1,2	3128	C4H7ClO	4-chloro-2-butenol	7523-44-6	394.65	33.861	2
3022	C4H6O4Zn	zinc acetate	557-34-6	1,181.15	112.109	1,2	3129	C4H7ClO	1-chloro-2-ethoxyethene	928-56-3	393.15	33.720	1,2
3023	C4H6O5	diglycolic acid	110-99-6	610.00	77.695	1,2	3130	C4H7ClO	2-chloroethyl vinyl ether	110-75-8	381.15	32.593	1,2
3024	C4H6O5	malic acid	6915-15-7	602.00	90.649	1,2	3131	C4H7ClO	2-(chloromethyl)-2-methyloxirane	598-09-4	395.15	33.908	1,2
3030	C4H6O5	monoperoxy succinic acid	3504-13-0	359.85	30.599	1,2	3132	C4H7ClO	butyryl chloride	141-75-3	394.65	33.861	2
3033	C4H6O6	tartaric acid	87-69-4	660.00	110.084	1,2	3133	C4H7ClOS	S-propyl chlorothioformate	13889-92-4	428.15	37.026	1,2
3039	C4H6O6U	uranyl acetate	541-09-3	548.15	48.529	1,2	3134	C4H7ClO2	2-chlorobutanoic acid	4170-24-5	406.80	35.006	2
3041	C4H6S	2,3-dihydrothiophene	1120-59-8	385.25	32.978	1,2	3135	C4H7ClO2	3-chlorobutanoic acid	625-68-3	406.80	35.006	2
3042	C4H6S	2,5-dihydrothiophene	1708-32-3	395.55	33.946	1,2	3136	C4H7ClO2	4-chlorobutanoic acid	627-00-9	406.80	35.006	2
3043	C4H6S	divinyl sulfide	627-51-0	357.15	30.347	1,2	3137	C4H7ClO2	1-chloroethyl acetate	5912-58-3	396.15	34.003	1,2
3047	C4H7Br	cis-1-bromo-1-butene	31849-78-2	359.30	31.544	1,2	3138	C4H7ClO2	2-chloroethyl acetate	542-58-5	418.15	36.079	1,2
3048	C4H7Br	trans-1-bromo-1-butene	32620-08-9	367.85	32.331	1,2	3139	C4H7ClO2	2-chloro-2-methylpropanoic acid	594-58-1	406.80	35.006	2
3049	C4H7Br	2-bromo-1-butene	23074-36-4	354.15	30.902	1,2	3140	C4H7ClO2	3-chloro-2-methylpropanoic acid	16674-04-7	406.80	35.006	2
3050	C4H7Br	3-bromo-1-butene	22037-73-6	378.15	33.060	1,2	3141	C4H7ClO2	ethoxyacetyl chloride	14077-58-8	398.15	34.191	1,2
3051	C4H7Br	4-bromo-1-butene	5162-44-7	371.95	32.785	1,2	3142	C4H7ClO2	ethyl chloroacetate	105-39-5	417.45	36.013	1,2
3052	C4H7Br	1-bromo-cis-2-butene	39616-19-8	377.15	33.187	1,2	3143	C4H7ClO2	isopropyl chloroformate	108-23-6	378.15	32.311	1,2
3053	C4H7Br	1-bromo-trans-2-butene	29576-14-5	377.15	33.187	1,2	3144	C4H7ClO2	methyl 2-chloropropanoate	17639-93-9	405.65	34.898	1,2
3054	C4H7Br	2-bromo-cis-2-butene	3017-68-3	358.95	31.269	1,2	3145	C4H7ClO2	methyl 3-chloropropanoate	6001-87-2	429.15	37.121	1,2
3055	C4H7Br	2-bromo-trans-2-butene	3017-71-8	367.95	32.091	1,2	3146	C4H7ClO2	propyl chlorocarbonate	109-61-5	388.35	33.269	1,2
3056	C4H7Br	1-bromo-2-methyl-1-propene	3017-69-4	364.15	31.744	1,2	3147	C4H7ClO2	2-chloromethyl-1,3-dioxolane	2568-30-1	430.65	37.263	1,2
3057	C4H7Br	3-bromo-2-methyl-1-propene	1458-98-6	368.15	32.183	1,2	3148	C4H7ClO2	(-)-methyl (S)-2-chloropropionate	73246-45-4	406.80	35.006	2
3058	C4H7Br	1-bromo-2-butene	4784-77-4	377.65	36.201	1,2	3149	C4H7ClO2	(R)-(+)-methyl (R)-2-chloropropionate	77287-29-7	406.15	34.945	1,2
3059	C4H7Br	2-bromo-2-butene; (cis+trans)	13294-71-8	361.65	31.351	1,2	3150	C4H7ClO2	b-chlorobutyric acid	1951-12-8	406.80	35.006	2
3060	C4H7Br	bromocyclobutane	4399-47-7	380.65	32.546	1,2	3151	C4H7ClO3	2-hydroxyethyl chloroacetate	35280-53-6	513.15	45.149	2
3061	C4H7Br	(bromomethyl)cyclopropane	7051-34-5	379.15	32.405	1,2	3152	C4H7ClO3	2-methoxyethyl chloroformate	628-12-6	513.15	45.149	2
3062	C4H7BrO	2-bromobutanal	24764-97-4	508.15	44.668	1,2	3153	C4H7Cl2F3Si	dichloromethyl-3,3,3-trifluoropropylsilane	675-62-7	470.65	41.071	1,2
3063	C4H7BrO	2-bromo-2-methylpropanal	13206-46-7	386.15	33.062	1,2	3156	C4H7Cl3	1,1,1-trichlorobutane	13279-85-1	407.15	35.093	1,2
3064	C4H7BrO	2-methylpropanoyl bromide	2736-37-0	390.15	33.438	1,2	3157	C4H7Cl3	1,1,2-trichlorobutane	---	420.00	36.617	2
3065	C4H7BrO	butanoyl bromide	5856-82-6	402.15	34.568	1,2	3158	C4H7Cl3	1,1,3-trichlorobutane	13279-87-3	426.15	36.202	1,2
3069	C4H7BrO	cis-2-bromovinyl ethyl ether	23521-49-5	408.65	35.181	1,2	3159	C4H7Cl3	1,1,4-trichlorobutane	66250-03-1	420.00	36.949	2
3070	C4H7BrO2	2-bromobutanoic acid, (±)	2385-70-8	490.15	42.939	2	3160	C4H7Cl3	1,2,2-trichlorobutane	---	440.00	38.066	2
3071	C4H7BrO2	2-bromoethyl acetate	927-68-4	435.65	37.737	1,2	3161	C4H7Cl3	1,2,3-trichlorobutane	18338-40-4	439.15	38.368	1,2
3072	C4H7BrO2	2-bromo-2-methylpropanoic acid	2052-01-9	472.15	41.215	1,2	3162	C4H7Cl3	1,2,4-trichlorobutane	1790-22-3	440.00	38.794	2
3073	C4H7BrO2	ethyl bromoacetate	105-36-2	441.65	38.307	1,2	3163	C4H7Cl3	1,3,3-trichlorobutane	13280-60-9	420.00	36.255	2
3074	C4H7BrO2	methyl 2-bromopropanoate, (±)	57885-43-5	417.15	35.984	1,2	3164	C4H7Cl3	2,3,3-trichlorobutane	10403-60-8	416.15	35.592	1,2
3077	C4H7BrO2	2-bromobutyric acid	80-58-0	488.65	42.795	1,2	3165	C4H7Cl3	1,1,1-trichloro-2-methylpropane	---	415.00	35.489	2
3079	C4H7BrO2	methyl 2-bromopropionate	5445-17-0	417.15	35.984	1,2	3166	C4H7Cl3	1,1,2-trichloro-2-methylpropane	29559-52-2	417.65	35.726	1,2
3081	C4H7Br2Cl	mdbcp	10474-14-3	381.15	32.593	1,2	3167	C4H7Cl3	1,1,3-trichloro-2-methylpropane	62108-65-0	415.00	36.160	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
3168	C4H7Cl3	1,2,3-trichloro-2-methylpropane	1871-58-5	437.15	37.808	1,2	3264	C4H7NO2	2,3-butanedione monooxime	57-71-6	458.65	39.926	1,2
3169	C4H7Cl3	1,3-dichloro-2-(chloromethyl)-propane	2014-83-7	402.77	35.363	2	3265	C4H7NO2	N-acetylacetamide	625-77-4	496.65	43.562	1,2
3170	C4H7Cl3O	1,1,1-trichloro-2-butanol	6111-61-1	444.15	38.545	1,2	3272	C4H7NO2	2-nitrobutene	2783-12-2	400.65	34.426	2
3171	C4H7Cl3O	1,1,1-trichloro-2-methyl-2-propanol	57-15-8	440.15	38.165	1,2	3273	C4H7NO2	1-nitro-3-butene	---	400.65	34.426	2
3172	C4H7Cl3O2	2,2,2-trichloro-1-ethoxyethanol	515-83-3	388.65	33.297	1,2	3274	C4H7NO2	2-nitro-2-butene	4812-23-1	400.65	34.426	2
3176	C4H7Cl4O4P	dimethyl-1,2,2,2-tetrachloroethyl phosphate	3862-21-3	434.65	37.642	1,2	3290	C4H7NS	4,5-dihydro-2-methylthiazole	2346-00-1	418.15	36.079	1,2
3177	C4H7F	cis-1-fluoro-1-butene	66675-34-1	294.35	24.813	2	3291	C4H7NS	isopropyl thiocyanate	625-59-2	426.15	36.836	1,2
3178	C4H7F	trans-1-fluoro-1-butene	66675-35-2	294.35	24.813	2	3292	C4H7NS	propyl isothiocyanate	628-30-8	426.15	36.836	1,2
3179	C4H7F	2-fluoro-1-butene	430-44-4	297.65	24.972	1,2	3293	C4H7NS	isopropyl isothiocyanate	2253-73-8	406.15	34.945	1,2
3180	C4H7F	3-fluoro-1-butene	---	286.43	23.957	2	3294	C4H7NS2	2-(methylthio)-2-thiazoline	19975-56-5	489.65	42.891	1,2
3181	C4H7F	4-fluoro-1-butene	---	286.87	24.208	2	3295	C4H7N3	1,5-dimethyl-1H-1,2,3-triazole	15922-53-9	528.15	46.595	1,2
3182	C4H7F	cis-1-fluoro-2-butene	---	294.35	24.813	2	3296	C4H7N3	3-amino-5-methylpyrazole	31230-17-8	529.93	46.767	2
3183	C4H7F	trans-1-fluoro-2-butene	---	294.35	24.813	2	3297	C4H7N3	3,5-dimethyl-1H-1,2,4-triazole	7343-34-2	531.70	46.938	1,2
3184	C4H7F	cis-2-fluoro-2-butene	66675-38-5	300.15	25.135	1,2	3318	C4H8	methylcyclopropane	594-11-6	273.88	22.893	1,2
3185	C4H7F	trans-2-fluoro-2-butene	66675-39-6	300.15	25.135	1,2	3319	C4H8	cyclobutane	287-23-0	285.66	23.982	1,2
3186	C4H7F	1-fluoro-2-methyl-1-propene	---	305.00	25.561	2	3320	C4H8	1-butene	106-98-9	266.90	22.443	1,2
3187	C4H7F	3-fluoro-2-methyl-1-propene	---	305.00	25.620	2	3321	C4H8	2-butene; (cis+trans)	107-01-7	275.50	23.900	1,2
3189	C4H7FO	4-fluorobutanal	462-74-8	168.15	13.235	1,2	3322	C4H8	cis-2-butene	590-18-1	276.87	23.430	1,2
3190	C4H7FO2	ethyl fluoroacetate	459-72-3	393.15	33.720	1,2	3323	C4H8	trans-2-butene	624-64-6	274.03	22.905	1,2
3191	C4H7FO2	4-fluorobutyric acid	462-23-7	393.15	33.720	2	3324	C4H8	isobutene	115-11-7	266.25	22.213	1,2
3192	C4H7F3	1,1,1-trifluorobutane	460-34-4	289.85	24.921	1,2	3325	C4H8BF3O4	boron trifluoride–acetic acid complex	373-61-5	417.15	35.984	1,2
3193	C4H7F3	1,1,2-trifluorobutane	---	287.85	24.570	2	3328	C4H8BrCl	1-bromo-4-chlorobutane	6940-78-9	448.15	38.925	1,2
3194	C4H7F3	1,1,3-trifluorobutane	---	287.85	24.570	2	3329	C4H8BrCl	2-bromo-1-chlorobutane	79504-01-1	419.65	36.221	1,2
3195	C4H7F3	1,1,4-trifluorobutane	---	288.29	24.836	2	3330	C4H8BrCl	1-bromo-3-chloro-2-methylpropane	6974-77-2	428.15	37.026	1,2
3196	C4H7F3	1,2,2-trifluorobutane	---	285.50	24.115	2	3331	C4H8BrF	1-bromo-4-fluorobutane	462-72-6	408.15	35.134	1,2
3197	C4H7F3	1,2,3-trifluorobutane	---	287.85	24.570	2	3333	C4H8Br2	1,1-dibromobutane	62168-25-6	431.15	39.781	1,2
3198	C4H7F3	1,2,4-trifluorobutane	---	288.29	24.836	2	3334	C4H8Br2	1,2-dibromobutane	533-98-2	439.46	42.601	1,2
3199	C4H7F3	1,3,3-trifluorobutane	---	285.50	24.115	2	3335	C4H8Br2	1,3-dibromobutane	107-80-2	448.15	41.421	1,2
3200	C4H7F3	2,3,3-trifluorobutane	---	285.06	23.861	2	3336	C4H8Br2	1,4-dibromobutane	110-52-1	470.15	43.958	1,2
3201	C4H7F3	1,1,1-trifluoro-2-methylpropane	---	285.06	23.861	2	3337	C4H8Br2	2,2-dibromobutane	50341-35-0	417.15	37.685	1,2
3202	C4H7F3	1,1,2-trifluoro-2-methylpropane	---	285.06	23.861	2	3338	C4H8Br2	DL-2,3-dibromobutane	598-71-0	433.65	39.651	1,2
3203	C4H7F3	1,1,3-trifluoro-2-methylpropane	---	287.85	24.570	2	3339	C4H8Br2	meso-2,3-dibromobutane	5780-13-2	430.45	39.345	1,2
3204	C4H7F3	1,3-difluoro-2-(fluoromethyl)-propane	---	288.29	24.836	2	3340	C4H8Br2	1,1-dibromo-2-methylpropane	33693-78-6	420.15	38.362	1,2
3206	C4H7F3O	2-trifluoromethyl-2-propanol	507-52-8	353.50	30.007	1,2	3341	C4H8Br2	1,2-dibromo-2-methylpropane	594-34-3	422.15	38.157	1,2
3207	C4H7F3O2	trifluoroacetaldehyde ethyl hemiacetal	433-27-2	377.65	32.265	1,2	3342	C4H8Br2	1,3-dibromo-2-methylpropane	28148-04-1	448.15	41.421	1,2
3209	C4H7I	cis-1-iodo-1-butene	54068-75-6	441.15	37.899	1,2	3343	C4H8Br2	2,3-dibromobutane	5408-86-6	434.15	41.639	1,2
3210	C4H7I	trans-1-iodo-1-butene	62154-92-1	400.65	34.259	1,2	3344	C4H8Br2O	bis(2-bromoethyl) ether	5414-19-7	458.15	39.878	2
3211	C4H7I	2-iodo-1-butene	24308-61-0	400.00	34.024	2	3345	C4H8Br2O	1,4-dibromo-2-butanol	19398-47-1	458.15	39.878	2
3212	C4H7I	3-iodo-1-butene	62154-74-9	400.00	33.984	2	3346	C4H8Br2O	2,3-dibromo-1-butanol	4021-75-4	458.15	39.878	2
3213	C4H7I	4-iodo-1-butene	7766-51-0	400.00	34.279	2	3347	C4H8Br2O	3,4-dibromo-1-butanol	87018-30-2	458.15	39.878	2
3214	C4H7I	1-iodo-cis-2-butene	53121-23-6	405.15	34.663	1,2	3348	C4H8Br2O	1,2-dibromo-1-ethoxyethane	2983-26-8	458.15	39.878	2
3215	C4H7I	1-iodo-trans-2-butene	38169-04-9	405.15	34.663	1,2	3349	C4H8Br2O	1,2-dibromo-3-methoxypropane	5836-66-8	458.15	39.878	1,2
3216	C4H7I	2-iodo-cis-2-butene	24298-09-7	388.10	32.889	2	3350	C4H8Br2O	(S)-1,4-dibromo-2-butanol	64028-90-6	458.15	39.878	2
3217	C4H7I	2-iodo-trans-2-butene	24298-08-6	388.10	32.889	2	3354	C4H8ClF	1-chloro-4-fluorobutane	462-73-7	387.85	33.222	1,2
3218	C4H7I	1-iodo-2-methyl-1-propene	20687-01-8	388.10	32.889	2	3360	C4H8Cl2	1,1-dichlorobutane	541-33-3	386.95	33.434	1,2
3219	C4H7I	3-iodo-2-methyl-1-propene	3756-30-7	380.62	32.296	2	3361	C4H8Cl2	1,2-dichlorobutane	616-21-7	397.15	34.358	1,2
3220	C4H7IO2	ethyl iodoacetate	623-48-3	452.15	39.306	1,2	3362	C4H8Cl2	1,3-dichlorobutane	1190-22-3	406.65	35.220	1,2
3221	C4H7IO2	methyl 3-iodopropanoate	5029-66-3	461.15	40.164	1,2	3363	C4H8Cl2	1,4-dichlorobutane	110-56-5	427.05	37.964	1,2
3224	C4H7I3	1,1,1-triiodobutane	---	567.11	49.381	2	3364	C4H8Cl2	2,2-dichlorobutane	4279-22-5	376.15	31.856	1,2
3225	C4H7I3	1,1,2-triiodobutane	---	569.46	50.078	2	3365	C4H8Cl2	DL-2,3-dichlorobutane	2211-67-8	392.65	33.651	1,2
3226	C4H7I3	1,1,3-triiodobutane	---	569.46	50.078	2	3366	C4H8Cl2	meso-2,3-dichlorobutane	4028-56-2	389.15	33.336	1,2
3227	C4H7I3	1,1,4-triiodobutane	---	569.90	50.561	2	3367	C4H8Cl2	1,1-dichloro-2-methylpropane	598-76-5	378.15	32.349	1,2
3228	C4H7I3	1,2,2-triiodobutane	---	567.11	49.381	2	3368	C4H8Cl2	1,2-dichloro-2-methylpropane	594-37-6	380.15	32.212	1,2
3229	C4H7I3	1,2,3-triiodobutane	---	569.46	50.078	2	3369	C4H8Cl2	1,3-dichloro-2-methylpropane	616-19-3	408.15	35.356	1,2
3230	C4H7I3	1,2,4-triiodobutane	---	569.90	50.561	2	3370	C4H8Cl2	2,3-dichlorobutane, dl and meso	7581-97-7	391.10	33.091	1,2
3231	C4H7I3	1,3,3-triiodobutane	---	567.11	49.381	2	3371	C4H8Cl2	mixo-dichlorobutane	26761-81-9	393.94	33.912	2
3232	C4H7I3	2,2,3-triiodobutane	---	566.67	48.920	2	3374	C4H8Cl2O	bis(1-chloroethyl) ether	6986-48-7	389.65	33.391	1,2
3233	C4H7I3	1,1,1-triiodo-2-methylpropane	---	566.67	48.920	2	3375	C4H8Cl2O	bis(2-chloroethyl) ether	111-44-4	451.65	39.259	1,2
3234	C4H7I3	1,1,2-triiodo-2-methylpropane	---	566.67	48.920	2	3376	C4H8Cl2O	1-chloro-1-(2-chloroethoxy)ethane	1462-34-6	426.55	36.874	2
3235	C4H7I3	1,1,3-triiodo-2-methylpropane	---	569.46	50.078	2	3377	C4H8Cl2O	1,2-dichloro-1-ethoxyethane	623-46-1	418.15	36.079	1,2
3236	C4H7I3	1,2,3-triiodo-2-methylpropane	---	567.11	49.381	2	3378	C4H8Cl2O	1,1-dichloro-2-methyl-2-propanol	4773-53-9	425.65	36.789	1,2
3237	C4H7I3	1,3-diiodo-2-(iodomethyl)-propane	---	569.90	50.561	2	3379	C4H8Cl2O	1,3-dichloro-2-methyl-2-propanol	597-32-0	447.65	38.878	1,2
3238	C4H7N	butyronitrile	109-74-0	390.75	34.541	1,2	3384	C4H8Cl2S	bis(2-chloroethyl) sulfide	505-60-2	489.15	42.843	1,2
3239	C4H7N	isobutyronitrile	78-82-0	376.76	33.920	1,2	3385	C4H8Cl2Si	allylmethyldichlorosilane	1873-92-3	392.65	33.673	1,2
3240	C4H7N	propyl isocyanide	627-36-1	372.15	33.014	1,2	3386	C4H8Cl2Si	ethylvinyldichlorosilane	10138-21-3	391.15	33.532	1,2
3241	C4H7N	isopropyl isocyanide	598-45-8	360.35	31.627	1,2	3387	C4H8CuO5	copper(ii) acetate monohydrate	6046-93-1	513.15	45.149	2
3242	C4H7N	2,5-dihydro-1H-pyrrole	109-96-6	363.65	30.954	1,2	3389	C4H8F2	1,1-difluorobutane	2358-38-5	314.15	27.181	1,2
3243	C4H7N	N-methyl-2-propyn-1-amine	35161-71-8	356.15	30.254	1,2	3390	C4H8F2	1,2-difluorobutane	686-65-7	323.15	27.624	1,2
3244	C4H7N	(dimethylamino)acetylene	24869-88-3	356.15	30.254	2	3391	C4H8F2	1,3-difluorobutane	691-42-9	333.15	28.521	1,2
3246	C4H7NO	acetone cyanohydrin	75-86-5	463.00	39.830	1,2	3392	C4H8F2	1,4-difluorobutane	372-90-7	350.95	30.394	1,2
3247	C4H7NO	2-methacrylamide	79-39-0	488.00	48.773	1,2	3393	C4H8F2	2,2-difluorobutane	353-81-1	304.05	25.430	1,2
3248	C4H7NO	3-methoxypropionitrile	110-67-8	439.00	41.139	1,2	3394	C4H8F2	2,3-difluorobutane	666-21-7	320.15	27.112	1,2
3249	C4H7NO	2-pyrrolidone	616-45-5	518.15	53.031	1,2	3395	C4H8F2	1,1-difluoro-2-methylpropane	62126-91-4	306.15	25.869	1,2
3251	C4H7NO	2-isocyanatopropane	1795-48-8	347.65	29.462	1,2	3396	C4H8F2	1,2-difluoro-2-methylpropane	62126-92-5	308.15	25.791	1,2
3252	C4H7NO	2-methoxypropanenitrile	33695-59-9	392.15	33.626	1,2	3397	C4H8F2	1,3-difluoro-2-methylpropane	62126-93-6	336.15	28.790	1,2
3253	C4H7NO	2-methyl-2-oxazoline	1120-64-5	384.15	32.874	1,2	3399	C4H8HgO2	ethylmercuric acetate	109-62-6	252.15	20.696	1,2
3254	C4H7NO	propyl isocyanate	110-78-1	356.65	31.265	1,2	3401	C4H8I2	1,1-diiodobutane	66587-65-3	476.76	41.449	2
3255	C4H7NO	(R)-(+)-2-methoxypropionitrile	---	386.15	33.062	1,2	3402	C4H8I2	1,2-diiodobutane	53161-72-1	476.76	41.238	1,2
3256	C4H7NO	(S)-(-)-2-methoxypropionitrile	64531-49-3	386.15	33.062	1,2	3403	C4H8I2	1,3-diiodobutane	18371-24-9	476.76	41.449	2
3259	C4H7NO	2-methyl acrylaldehyde oxime	28051-68-5	305.15	25.530	1,2	3404	C4H8I2	1,4-diiodobutane	628-21-7	477.20	41.857	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
3405	C4H8I2	2,2-diiodobutane	29443-50-3	473.97	40.447	2	3546	C4H8O3	ethylene glycol monoacetate	542-59-6	461.15	40.164	1,2
3406	C4H8I2	2,3-diiodobutane	66587-66-4	476.32	41.050	2	3547	C4H8O3	ethyl hydroxyacetate	623-50-7	433.15	37.500	1,2
3407	C4H8I2	1,1-diiodo-2-methylpropane	10250-55-2	476.32	41.050	2	3548	C4H8O3	ethyl methyl carbonate	623-53-0	380.65	32.546	1,2
3408	C4H8I2	1,2-diiodo-2-methylpropane	66794-23-8	473.97	40.447	2	3549	C4H8O3	2-hydroxybutanoic acid, (±)	600-15-7	485.15	42.459	2
3409	C4H8I2	1,3-diiodo-2-methylpropane	17616-44-3	476.76	41.449	2	3550	C4H8O3	3-hydroxybutanoic acid, (±)	625-71-8	445.17	38.642	2
3412	C4H8N2	4,5-dihydro-2-methyl-1H-imidazole	534-26-9	469.65	40.976	1,2	3551	C4H8O3	4-hydroxybutanoic acid	591-81-1	485.15	42.459	2
3413	C4H8N2	(dimethylamino)acetonitrile	926-64-7	410.65	35.370	1,2	3552	C4H8O3	2-hydroxy-2-methylpropanoic acid	594-61-6	485.15	42.459	1,2
3416	C4H8N2	acetaldehyde, ethylidenehydrazone	592-56-3	369.00	31.454	1,2	3553	C4H8O3	methyl 3-hydroxypropanoate	6149-41-3	452.15	39.306	1,2
3420	C4H8N2O	N-nitrosopyrrolidine	930-55-2	487.15	42.651	1,2	3554	C4H8O3	methyl lactate, (±)	2155-30-8	417.95	36.060	1,2
3431	C4H8N2O2	4-nitrosomorpholine	59-89-2	498.15	43.706	1,2	3555	C4H8O3	methyl methoxyacetate	6290-49-9	404.15	34.756	1,2
3453	C4H8N2O4	1,4-dinitrobutane	4286-49-1	483.65	42.315	2	3556	C4H8O3	glycerol formal	4740-78-7	466.65	40.689	1,2
3467	C4H8N4O3	N-ethyl-N-nitrosobiuret	32976-88-8	317.15	26.635	1,2	3557	C4H8O3	(±)-3-hydroxybutyric acid	300-85-6	445.17	38.642	2
3471	C4H8N6O4	1,6-dimethyl-1,6-dinitrosobiurea	3844-60-8	463.15	40.355	1,2	3558	C4H8O3	2-methoxy-1,3-dioxolane	19693-75-5	402.65	34.615	1,2
3474	C4H8O	1,2-epoxybutane	106-88-7	336.57	29.169	1,2	3559	C4H8O3	(R)-(+)-2-methoxypropionic acid	23943-96-6	445.17	38.642	2
3475	C4H8O	2-methyloxetane	2167-39-7	332.15	28.023	1,2	3560	C4H8O3	(S)-(-)-2-methoxypropionic acid	23953-00-6	445.17	38.642	2
3476	C4H8O	ethyl vinyl ether	109-92-2	308.70	26.877	1,2	3561	C4H8O3	3-methoxypropionic acid	2544-06-1	445.17	38.642	2
3477	C4H8O	3-methoxy-1-propene	627-40-7	317.15	29.574	1,2	3562	C4H8O3	methyl (R)-(+)-lactate	17392-83-5	417.65	36.032	1,2
3478	C4H8O	butyraldehyde	123-72-8	347.95	31.788	1,2	3563	C4H8O3	methyl (S)-(-)-lactate	27871-49-4	417.60	36.027	1,2
3479	C4H8O	isobutyraldehyde	78-84-2	337.25	30.777	1,2	3564	C4H8O3	methyl lactate	547-64-8	417.60	36.027	1,2
3480	C4H8O	methyl ethyl ketone	78-93-3	352.79	31.221	1,2	3565	C4H8O3	trans-2-butene ozonide	16187-15-8	514.25	45.255	1,2
3481	C4H8O	tetrahydrofuran	109-99-9	338.00	30.260	1,2	3566	C4H8O3	1,3-dioxolane-4-methanol	5464-28-8	431.15	37.310	1,2
3482	C4H8O	cis-crotonyl alcohol	4088-60-2	396.15	34.003	1,2	3567	C4H8O3	2-tetrahydrofuryl hydroperoxide	4676-82-8	445.17	38.642	2
3483	C4H8O	trans-2-buten-1-ol	504-61-0	394.35	33.833	1,2	3568	C4H8O3S	4-methyl-1,3,2-dioxathiane 2-oxide	4426-51-1	458.15	39.878	1,2
3484	C4H8O	2-buten-1-ol	6117-91-5	394.65	33.861	1,2	3569	C4H8O3S	1,4-butane sultone	1633-83-6	408.15	35.134	1,2
3485	C4H8O	3-buten-1-ol	627-27-0	386.65	33.109	1,2	3572	C4H8O4	D-erythrose	583-50-6	498.65	43.754	2
3486	C4H8O	3-buten-2-ol, (±)	6118-14-5	370.45	31.590	1,2	3573	C4H8O4	L-erythrulose	533-50-6	498.65	43.754	2
3487	C4H8O	2-methyl-2-propenol	513-42-8	387.65	33.203	1,2	3574	C4H8O4	methyl 2,3-dihydroxypropanoate, (±)	15909-76-9	514.65	45.293	1,2
3488	C4H8O	cyclobutanol	2919-23-5	397.15	34.097	1,2	3575	C4H8O4	D-threose	95-43-2	498.65	43.754	2
3489	C4H8O	cyclopropyl methyl ether	540-47-6	317.85	26.700	1,2	3576	C4H8O4	L(+)-erythrose	533-49-3	498.65	43.754	2
3490	C4H8O	2,2-dimethyloxirane	558-30-5	325.15	27.375	1,2	3577	C4H8O4	3,6-dimethyl-1,2,4,5-tetraoxane	---	498.65	43.754	2
3491	C4H8O	cis-2,3-dimethyloxirane	1758-33-4	333.15	28.115	1,2	3578	C4H8O4	1-hydroxyethyl peroxyacetate	7416-48-0	482.65	42.220	1,2
3492	C4H8O	trans-2,3-dimethyloxirane	21490-63-1	329.65	27.791	1,2	3579	C4H8O4	(R*,R*)-2,3,4-trihydroxybutanal	1758-51-6	498.65	43.754	2
3493	C4H8O	3-buten-2-ol	598-32-3	370.15	31.562	1,2	3581	C4H8S	tetrahydrothiophene	110-01-0	394.27	34.768	1,2
3494	C4H8O	butylene oxide	26249-20-7	334.15	28.208	1,2	3582	C4H8S	2-methylthietane	17837-41-1	379.15	32.405	1,2
3495	C4H8O	cyclopropanemethanol	2516-33-8	396.65	34.050	1,2	3583	C4H8S	2-ethylthiacyclopropane	3195-86-6	378.15	32.573	1,2
3496	C4H8O	2-methoxypropene	116-11-0	308.15	25.806	1,2	3584	C4H8S	2,2-dimethylthiacyclopropane	3772-13-2	359.15	30.626	1,2
3497	C4H8O	2,3-dimethyloxirane	3266-23-7	331.50	27.962	1,2	3585	C4H8S	2,cis-3-dimethylthiacyclopropane	5954-71-2	340.82	28.869	2
3498	C4H8OS	ethyl thioacetate	59094-77-8	389.55	33.382	1,2	3586	C4H8S	2,trans-3-dimethylthiacyclopropane	5955-98-6	340.82	28.869	2
3499	C4H8OS	s-ethyl thioacetate	625-60-5	389.55	33.382	1,2	3587	C4H8S	3-(methylthio)-1-propene	10152-76-8	365.15	31.094	1,2
3500	C4H8OS	3-(methylthio)propanal	3268-49-3	427.10	36.926	2	3588	C4H8S	ethyl vinyl sulfide	627-50-9	366.05	31.179	1,2
3501	C4H8OS	1,4-oxathiane	15980-15-1	420.15	36.268	1,2	3589	C4H8S2	1,2-dithiane	505-20-4	472.65	41.263	2
3502	C4H8OS	tetrahydrothiophene 1-oxide	1600-44-8	509.15	44.764	1,2	3590	C4H8S2	1,3-dithiane	505-23-7	472.65	41.263	2
3503	C4H8OS	2,3-epithiopropyl methoxy ether	19858-14-1	427.10	36.926	2	3591	C4H8S2	1,4-dithiane	505-29-3	472.65	41.263	1,2
3504	C4H8O2	butyric acid	107-92-6	436.42	45.290	1,2	3592	C4H8S2	ethyl dithioacetate	870-73-5	472.65	41.263	2
3505	C4H8O2	isobutyric acid	79-31-2	427.85	43.881	1,2	3593	C4H9AlCl2	isobutylaluminum dichloride	1888-87-5	515.15	45.342	1,2
3506	C4H8O2	propyl formate	110-74-7	353.97	32.007	1,2	3594	C4H9Al2ClN4O7	aluminum chlorohydroxyallantoinate	1317-25-5	476.15	41.597	1,2
3507	C4H8O2	isopropyl formate	625-55-8	341.25	29.536	1,2	3598	C4H9Br	1-bromobutane	109-65-9	374.75	34.552	1,2
3508	C4H8O2	ethyl acetate	141-78-6	350.21	32.231	1,2	3599	C4H9Br	2-bromobutane	78-76-2	364.37	32.371	1,2
3509	C4H8O2	methyl propanoate	554-12-1	352.60	32.438	1,2	3600	C4H9Br	1-bromo-2-methylpropane	78-77-3	364.68	31.918	1,2
3510	C4H8O2	1,4-dioxane	123-91-1	374.47	34.300	1,2	3601	C4H9Br	2-bromo-2-methylpropane	507-19-7	346.40	29.679	1,2
3511	C4H8O2	cis-2-butene-1,4-diol	6117-80-2	508.15	62.740	1,2	3602	C4H9Br	2-bromobutane, (±)	5787-31-5	364.45	32.884	1,2
3512	C4H8O2	trans-2-butene-1,4-diol	821-11-4	510.00	62.950	1,2	3603	C4H9BrO	3-bromo-1-butanol	6089-12-9	413.90	35.677	2
3513	C4H8O2	3-butene-1,2-diol	497-06-3	469.65	52.519	1,2	3604	C4H9BrO	3-bromo-2-butanol, (R*,S*)-(±)	19246-39-0	427.15	36.931	1,2
3514	C4H8O2	1,3-dioxane	505-22-6	379.25	32.415	1,2	3605	C4H9BrO	1-bromo-2-ethoxyethane	592-55-2	400.65	34.426	1,2
3515	C4H8O2	ethoxyacetaldehyde	22056-82-2	408.11	35.130	2	3606	C4H9BrO	(R)-(-)-3-bromo-2-methyl-1-propanol	93381-28-3	413.90	35.677	2
3516	C4H8O2	ethylene glycol monovinyl ether	764-48-7	414.75	35.757	1,2	3607	C4H9BrO	4-bromo-1-butanol	33036-62-3	413.90	35.677	2
3517	C4H8O2	3-hydroxybutanal	107-89-1	408.11	35.130	2	3608	C4H9BrO	2-bromo ethyl ethyl ether	592-55-2	413.90	35.677	2
3518	C4H8O2	1-hydroxy-2-butanone	5077-67-8	433.15	37.500	1,2	3609	C4H9BrO2	2-bromo-1,1-dimethoxyethane	7252-83-7	422.15	36.457	1,2
3519	C4H8O2	3-hydroxy-2-butanone, (±)	52217-02-4	421.15	36.363	1,2	3610	C4H9Cl	1-chlorobutane	109-69-3	351.58	30.729	1,2
3520	C4H8O2	4-hydroxy-2-butanone	590-90-9	455.15	39.592	1,2	3611	C4H9Cl	1-chloro-2-methylpropane	513-36-0	342.00	28.971	1,2
3521	C4H8O2	(methoxymethyl)oxirane	930-37-0	386.15	33.062	1,2	3612	C4H9Cl	2-chlorobutane	78-86-4	341.25	29.214	1,2
3522	C4H8O2	1-methoxy-2-propanone	5878-19-3	389.15	33.344	1,2	3613	C4H9Cl	2-chloro-2-methylpropane	507-20-0	323.75	26.997	1,2
3523	C4H8O2	2-methyl-1,3-dioxolane	497-26-7	354.65	30.114	1,2	3614	C4H9Cl	2-chlorobutane	53178-20-4	341.35	29.527	1,2
3524	C4H8O2	tetrahydro-3-furanol	453-20-3	454.15	39.497	1,2	3616	C4H9ClO	tert-butyl hypochlorite	507-40-4	350.65	29.742	1,2
3525	C4H8O2	acetyl methyl carbinol	513-86-0	418.65	36.126	1,2	3617	C4H9ClO	1-chloro-2-butanol	1873-25-2	414.15	35.701	1,2
3526	C4H8O2	2-butene-1,4-diol	110-64-5	408.11	33.086	2	3618	C4H9ClO	2-chloro-1-butanol	26106-95-6	388.26	33.261	2
3527	C4H8O2	(S)-(+)-glycidyl methyl ether	64491-68-5	383.65	32.827	1,2	3619	C4H9ClO	3-chloro-1-butanol	---	413.00	35.592	2
3528	C4H8O2	(R)-(-)-glycidyl methyl ether	64491-70-9	383.65	32.827	1,2	3620	C4H9ClO	3-chloro-2-butanol	563-84-8	412.15	35.512	1,2
3529	C4H8O2	(R)-(-)-3-hydroxytetrahydrofuran	86087-24-3	454.15	39.497	1,2	3621	C4H9ClO	4-chloro-1-butanol	928-51-8	388.26	33.261	2
3530	C4H8O2	4-methyl-1,3-dioxolane	1072-47-5	355.45	30.189	1,2	3622	C4H9ClO	4-chloro-2-butanol	2203-34-1	388.26	33.261	2
3531	C4H8O2	2-methylene-1,3-propanediol	3513-81-3	408.11	35.130	2	3623	C4H9ClO	1-chloro-2-methyl-2-propanol	558-42-9	401.65	34.521	1,2
3532	C4H8O2	(R)-2-methyl glycidol	86884-89-1	380.15	32.499	1,2	3624	C4H9ClO	1-chloro-1-ethoxyethane	7081-78-9	366.65	31.235	1,2
3533	C4H8O2	R,S-3-butene-1,2-diol	86161-40-2	414.90	34.689	1,2	3625	C4H9ClO	2-chloro-2-methyl-1-propanol	558-38-3	405.15	34.851	2
3534	C4H8O2	(S)-(+)-tetrahydro-3-furanol	86087-23-2	408.11	35.130	2	3626	C4H9ClO	2-chloroethyl ethyl ether	628-34-2	380.65	32.546	1,2
3535	C4H8O2	(R)-3-hydroxy-2-butanone	53584-56-8	416.20	35.894	1,2	3627	C4H9ClO	3-chloro-2-methyl-1-propanol	10317-10-9	388.26	33.261	2
3535.1	C4H8O2	4-hydroxybutraldehyde	25714-71-0	432.00	49.743	1,2	3628	C4H9ClO	1-(chloromethoxy)propane	3587-57-3	382.15	32.687	1,2
3535.2	C4H8O2	3-hydroxy-2-methyl propionaldehyde	38433-80-6	440.00	50.713	1,2	3629	C4H9ClO	1-chloro-2-methoxypropane	5390-72-7	376.65	32.171	1,2
3536	C4H8O2S	sulfolane	126-33-0	558.15	53.932	1,2	3630	C4H9ClO	1-chloro-3-methoxypropane	36215-07-3	384.15	32.874	1,2
3537	C4H8O2S	ethyl mercaptoacetate	623-51-8	430.15	37.215	1,2	3631	C4H9ClO	2-chloro-1-methoxypropane	5390-71-6	372.15	31.749	1,2
3545	C4H8O3	ethoxyacetic acid	627-03-2	479.65	41.932	1,2	3632	C4H9ClOS	2-chloroethyl-2-hydroxyethyl sulfide	693-30-1	244.15	19.974	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
3633	C4H9ClO2	2-chloro-1,1-dimethoxyethane	97-97-2	400.65	34.426	1,2	3795	C4H10ClN	N-(2-chloroethyl)dimethylamine	107-99-3	450.65	39.163	1,2
3634	C4H9ClO2	2-(2-chloroethoxy)ethanol	628-89-7	453.15	39.402	1,2	3796	C4H10ClNO	2-butanone oxime hydrochloride	4154-69-2	347.15	29.416	1,2
3637	C4H9ClO2S	2-methyl-1-propanesulfonyl chloride	35432-36-1	463.15	40.355	1,2	3798	C4H10ClNO5	morpholinium perchlorate	35175-75-8	235.45	19.191	1,2
3642	C4H9ClS	2-chloroethyl ethyl sulfide	693-07-2	429.70	37.173	1,2	3800	C4H10ClO2P	diethyl chlorophosphite	589-57-1	427.15	36.931	1,2
3643	C4H9ClSi	chlorovinyldimethylsilane	1719-58-0	356.65	30.301	1,2	3801	C4H10ClP	chloro(diethyl)phosphine	686-69-1	404.65	34.804	1,2
3644	C4H9ClSi	1-chloro-1-methylsilacyclobutane	2351-34-0	376.15	32.124	1,2	3802	C4H10Cl2Ge	diethylgermanium dichloride	13314-52-8	448.15	38.925	1,2
3649	C4H9Cl2P	tert-butyldichlorophosphine	25979-07-1	419.15	36.173	1,2	3803	C4H10Cl2NP	diethylphosphoramidous dichloride	1069-08-5	452.15	39.306	1,2
3651	C4H9Cl3Si	butyltrichlorosilane	7521-80-4	421.65	36.410	1,2	3804	C4H10ClO2PS	O,O'-diethyl chlorothiophosphate	2524-04-1	318.15	26.728	1,2
3652	C4H9Cl3Si	trichloroisobutylsilane	18169-57-8	416.45	35.918	1,2	3805	C4H10ClO3P	diethyl chlorophosphonate	814-49-3	366.65	31.235	1,2
3653	C4H9Cl3Si	tert-butyltrichlorosilane	18171-74-9	410.15	35.323	1,2	3808	C4H10Cl2O2Si	dichlorodiethoxysilane	4667-38-3	409.05	35.219	1,2
3655	C4H9Cl3Sn	butyltin trichloride	1118-46-3	375.15	32.030	1,2	3809	C4H10Cl2Si	dichlorodiethylsilane	1719-53-5	402.15	34.568	2
3656	C4H9D	2-methylpropane-2-d	13183-68-1	261.14	21.510	1,2	3810	C4H10Cl2Si	dichloromethylisopropylsilane	18236-89-0	394.65	33.861	1,2
3657	C4H9F	1-fluorobutane	2366-52-1	305.65	26.078	1,2	3811	C4H10Cl2Si	bis(chloromethyl)dimethylsilane	2917-46-6	434.15	37.595	1,2
3658	C4H9F	2-fluorobutane	359-01-3	298.25	25.070	1,2	3812	C4H10Cl2Si	(dichloromethyl)trimethylsilane	5926-38-5	407.15	35.039	1,2
3659	C4H9F	1-fluoro-2-methylpropane	359-00-2	289.15	24.267	1,2	3815	C4H10Cl4Si2	1,2-bis(dichloromethylsilyl)ethane	3353-69-3	482.15	42.172	1,2
3660	C4H9F	2-fluoro-2-methylpropane	353-61-7	285.25	23.486	1,2	3817	C4H10FO2P	sarin	107-44-8	420.15	36.268	1,2
3664	C4H9F3O3SSi	trimethylsilyl trifluoromethanesulfonate	27607-77-8	413.55	35.644	1,2	3819	C4H10F2Si	diethyldifluorosilane	358-06-5	334.15	28.208	1,2
3665	C4H9F3Si	trimethyl(trifluoromethyl)silane	81290-20-2	328.15	27.652	1,2	3821	C4H10Hg	diethyl mercury	627-44-1	432.15	37.405	1,2
3666	C4H9I	1-iodobutane	542-69-8	403.68	40.051	1,2	3822	C4H10HgO2S	methylmercury propanediolmercaptide	2597-95-7	385.65	33.015	1,2
3667	C4H9I	2-iodobutane	513-48-4	393.15	38.572	1,2	3825	C4H10Mg	diethyl magnesium	557-18-6	345.55	29.267	1,2
3668	C4H9I	1-iodo-2-methylpropane	513-38-2	393.55	38.613	1,2	3830	C4H10N2	piperazine	110-85-0	419.15	41.865	1,2
3669	C4H9I	2-iodo-2-methylpropane	558-17-8	373.16	30.384	1,2	3831	C4H10N2	diethyldiazene	821-14-7	331.50	27.962	1,2
3670	C4H9I	2-iodobutane, (±)	52152-71-3	393.25	40.853	1,2	3834	C4H10N2O	4-morpholinamine	4319-49-7	439.15	38.070	1,2
3674	C4H9LiN2	lithium acetylide–ethylenediamine complex	6867-30-7	384.15	32.874	1,2	3835	C4H10N2O	N-nitrosodiethylamine	55-18-5	450.05	39.106	1,2
3675	C4H9N	pyrrolidine	123-75-1	359.72	34.016	1,2	3836	C4H10N2O	trimethylurea	632-14-4	505.65	44.427	1,2
3676	C4H9N	cyclobutanamine	2516-34-9	355.15	30.161	1,2	3837	C4H10N2O	diazene, diethyl-, 1-oxide	16301-26-1	319.00	26.806	1,2
3677	C4H9N	N-methyl-2-propen-1-amine	627-37-2	337.15	28.486	1,2	3843	C4H10N2O	1-propylurea	627-06-5	328.65	27.698	1,2
3678	C4H9N	cyclopropanemethylamine	2516-47-4	358.15	30.441	1,2	3845	C4H10N2O2	N-nitrodiethylamine	7119-92-8	479.65	41.932	1,2
3679	C4H9N	2-methylallylamine	2878-14-0	351.15	29.788	1,2	3853	C4H10N2O3	N-(hydroperoxymethyl)-N-nitrosopropylamine	74955-23-0	366.15	31.188	1,2
3681	C4H9NO	N,N-dimethylacetamide	127-19-5	439.25	40.643	1,2	3857	C4H10N2O6Pb	diethyl lead dinitrate	17498-10-1	387.65	33.203	1,2
3682	C4H9NO	morpholine	110-91-8	401.15	38.054	1,2	3859	C4H10N2S	1,1,3-trimethyl-2-thiourea	2489-77-2	494.35	43.342	1,2
3683	C4H9NO	1-aziridineethanol	1072-52-2	441.15	38.260	1,2	3860	C4H10N3O3P	ethyl methyl azidomethyl phosphonate	17982-67-1	455.65	39.640	1,2
3684	C4H9NO	butanal oxime	110-69-0	427.15	36.931	1,2	3862	C4H10N4O2	N,N'-dinitroso-N,N'-dimethylethylenediamine	13256-12-7	290.15	24.153	1,2
3685	C4H9NO	butanamide	541-35-5	489.15	42.843	1,2	3864	C4H10N4O2S	n-butyl amido sulfuryl azide	13449-22-4	450.15	39.116	1,2
3686	C4H9NO	2-butanone oxime	96-29-7	425.65	36.789	1,2	3865	C4H10O	butanol	71-36-3	390.81	43.237	1,2
3687	C4H9NO	N-ethylacetamide	625-50-3	478.15	41.789	1,2	3866	C4H10O	isobutanol	78-83-1	380.81	47.688	1,2
3688	C4H9NO	N-methylpropanamide	1187-58-2	421.15	36.363	1,2	3867	C4H10O	sec-butanol	78-92-2	372.70	42.703	1,2
3689	C4H9NO	2-methylpropanamide	563-83-7	490.15	42.939	1,2	3868	C4H10O	tert-butanol	75-65-0	355.57	54.182	1,2
3695	C4H9NOSi	trimethylsilyl isocyanate	1118-02-1	364.15	31.001	1,2	3869	C4H10O	diethyl ether	60-29-7	307.58	27.087	1,2
3697	C4H9NO2	1-nitrobutane	627-05-4	426.05	38.911	1,2	3870	C4H10O	methyl propyl ether	557-17-5	311.72	31.003	1,2
3698	C4H9NO2	2-nitrobutane	600-24-8	412.85	36.819	1,2	3871	C4H10O	methyl isopropyl ether	598-53-8	303.92	26.501	1,2
3699	C4H9NO2	1-nitro-2-methylpropane	625-74-1	414.87	37.149	1,2	3872	C4H10O	(R)-(-)-2-butanol	14898-79-4	372.65	38.892	1,2
3700	C4H9NO2	2-nitro-2-methylpropane	594-70-7	400.31	35.417	1,2	3873	C4H10O	(S)-(+)-2-butanol	4221-99-2	372.60	38.871	1,2
3701	C4H9NO2	N-acetylethanolamine	142-26-7	395.68	33.959	2	3874	C4H10O	(<+->)-2-butanol	15892-23-6	372.00	38.628	1,2
3706	C4H9NO2	butyl nitrite	544-16-1	351.15	29.788	1,2	3876	C4H10OS	2-(ethylthio)ethanol	110-77-0	457.15	39.783	1,2
3707	C4H9NO2	tert-butyl nitrite	540-80-7	336.15	28.394	1,2	3877	C4H10OS	4-mercapto-1-butanol	14970-83-3	457.15	39.783	2
3708	C4H9NO2	sec-butyl nitrite	924-43-6	341.65	28.904	1,2	3878	C4H10OS	3-mercapto-2-butanol, isomers	54812-86-1	457.15	39.783	2
3710	C4H9NO2	ethyl 2-aminoacetate	459-73-4	422.15	36.457	1,2	3879	C4H10OS	3-(methylthio)-1-propanol	505-10-2	457.15	39.783	2
3711	C4H9NO2	ethyl-N-methyl carbamate	105-40-8	443.15	38.450	1,2	3880	C4H10OS2	2,2'-oxydiethanethiol	2150-02-9	490.15	42.939	1,2
3712	C4H9NO2	isobutyl nitrite	542-56-3	340.15	28.765	1,2	3881	C4H10O2	t-butyl hydroperoxide	75-91-2	405.50	39.921	1,2
3713	C4H9NO2	isopropyl carbamate	1746-77-6	456.15	39.687	1,2	3882	C4H10O2	1,2-dimethoxyethane	110-71-4	357.20	31.903	1,2
3715	C4H9NO2	2-nitrobutane, (±)	116781-85-2	413.15	38.190	1,2	3883	C4H10O2	2-ethoxyethanol	110-80-5	408.15	40.582	1,2
3716	C4H9NO2	propyl carbamate	627-12-3	469.15	40.928	1,2	3884	C4H10O2	1,2-butanediol	584-03-2	464.15	53.530	1,2
3719	C4H9NO2	ethyl acetohydroxamate	10576-12-2	395.68	33.959	2	3885	C4H10O2	1,3-butanediol	107-88-0	480.15	56.580	1,2
3720	C4H9NO2	(S)-(-)-2-methoxypropionamide	330171-21-8	354.15	30.068	1,2	3886	C4H10O2	1,4-butanediol	110-63-4	501.15	62.430	1,2
3721	C4H9NO2	(R)-(+)-2-methoxypropionamide	330171-21-8	354.15	30.068	1,2	3887	C4H10O2	DL-2,3-butanediol	6982-25-8	453.85	51.742	1,2
3728	C4H9NO3	butyl nitrate	928-45-0	406.15	34.945	1,2	3888	C4H10O2	meso-2,3-butanediol	5341-95-7	452.00	51.524	2
3729	C4H9NO3	sec-butyl nitrate	924-52-7	397.15	34.097	1,2	3889	C4H10O2	2-methyl-1,2-propanediol	558-43-0	451.15	50.808	1,2
3731	C4H9NO3	isobutyl nitrate	543-29-3	396.55	34.040	1,2	3890	C4H10O2	1-methyl-1,3-propanediol	18826-95-4	487.15	56.280	1,2
3732	C4H9NO3	2-methyl-2-nitro-1-propanol	76-39-1	419.25	36.183	2	3891	C4H10O2	1,2-butanediol, (±)	26171-83-5	463.65	40.403	1,2
3733	C4H9NO3	2-nitro-1-butanol	609-31-4	419.25	36.183	2	3892	C4H10O2	diethylperoxide	628-37-5	338.15	28.579	1,2
3734	C4H9NO3	1-nitro-2-butanol	3156-74-9	477.15	41.693	1,2	3893	C4H10O2	dimethylacetal	534-15-6	337.65	28.533	1,2
3735	C4H9NO3	3-nitro-2-butanol	6270-16-2	419.25	36.183	2	3893.1	C4H10O2	n-butylhydroperoxide	4813-50-7	405.00	48.629	1,2
3748	C4H9NO3	methoxyethyl carbamate	1616-88-2	419.25	36.183	2	3894	C4H10O2	2-methoxy-1-propanol	1589-47-5	403.15	34.662	1,2
3754	C4H9NS	thiomorpholine	123-90-0	448.15	38.925	1,2	3895	C4H10O2	propylene glycol monomethyl ether	107-98-2	392.15	40.461	1,2
3757	C4H9NSSi	trimethylsilyl isothiocyanate	2290-65-5	416.15	35.890	1,2	3896	C4H10O2	(2S,3S)-(+)-2,3-butanediol	19132-06-0	452.60	39.349	1,2
3758	C4H9NSSn	isothiocyanatotrimethyltin	15597-43-0	446.15	38.735	2	3897	C4H10O2	(2R,3R)-(-)-2,3-butanediol	24347-58-8	430.70	45.957	2
3760	C4H9NS2	dihydro-5-methyl-4H-1,3,5-dithiazine	6302-94-9	458.15	39.878	1,2	3898	C4H10O2	(S)-(+)-1,3-butanediol	24621-61-2	430.70	45.957	2
3761	C4H9NSi	trimethylsilyl cyanide	7677-24-9	389.65	33.391	1,2	3899	C4H10O2	2,3-butanediol	513-85-9	455.15	39.592	1,2
3762	C4H9N3O	acetone semicarbazone	110-20-3	321.15	27.005	1,2	3900	C4H10O2	(R)-(-)-1,3-butanediol	6290-03-5	430.70	45.957	2
3763	C4H9N3O	mononitrosopiperazine	5632-47-3	247.15	20.244	1,2	3901	C4H10O2	(S)-(+)-2-methoxypropanol	116422-39-0	430.70	37.267	2
3769	C4H9N3O2	N-nitroso-N-propylurea	816-57-9	275.15	22.783	1,2	3902	C4H10O2	methoxypropanol	1320-67-8	393.15	40.862	1,2
3773	C4H9N3O3	nitrosoisopropanolurea	71752-69-7	314.35	26.377	1,2	3903	C4H10O2	(S)-(+)-1-methoxy-2-propanol	26550-55-0	430.70	37.267	2
3783	C4H10	butane	106-97-8	272.65	22.435	1,2	3904	C4H10O2	(R)-(-)-1-methoxy-2-propanol	4984-22-9	430.70	37.267	2
3784	C4H10	isobutane	75-28-5	261.43	21.396	1,2	3905	C4H10O2	2-methyl-1,3-propanediol	2163-42-0	487.15	42.651	1,2
3786	C4H10AlCl	diethylaluminum chloride	96-10-6	481.15	42.076	1,2	3906	C4H10O2	3-methoxy-1-propanol	1589-49-7	430.70	37.267	2
3788	C4H10AuBr	diethyl gold bromide	26645-10-3	332.65	28.069	1,2	3907	C4H10O2S	bis(2-hydroxyethyl) sulfide	111-48-8	555.15	49.207	1,2
3789	C4H10BCl	chlorodiethylborane	5314-83-0	351.65	29.835	1,2	3908	C4H10O2S	diethyl sulfone	597-35-3	521.15	45.920	1,2
3790	C4H10BF3O	boron trifluoride etherate	109-63-7	398.65	34.238	1,2	3909	C4H10O2S	diethyl sulfoxylate	10297-38-8	391.15	33.532	1,2
3792	C4H10BiCl	diethylbismuth chloride	65313-34-0	401.95	34.549	1,2	3916	C4H10O2Sn	butyl stannoic acid	2273-43-0	387.15	33.156	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
3918	C4H10O3	diethylene glycol	111-46-6	518.15	56.723	1,2	4039	C4H12BN	(dimethylamino)dimethylborane	1113-30-0	338.15	28.579	1,2
3921	C4H10O3	2-methoxy-1,3-propanediol	761-06-8	505.15	44.379	1,2	4048	C4H12ClO4P	tetrakis(hydroxymethyl)phosphonium chloride	124-64-1	390.85	33.504	1,2
3922	C4H10O3	3-methoxy-1,2-propanediol	623-39-2	493.15	43.226	1,2	4051	C4H12Cl2OSi2	1,3-dichloro-1,1,3,3-tetramethyldisiloxane	2401-73-2	411.15	35.417	1,2
3923	C4H10O3	trimethoxymethane	149-73-5	377.15	32.218	1,2	4053	C4H12Cl2Si2	1,2-dichloro-1,1,2,2-tetramethyldisilane	4342-61-4	421.15	36.363	1,2
3928	C4H10O3S	diethyl sulfite	623-81-4	430.15	37.215	1,2	4054	C4H12CrLiO4	lithium tetramethyl chromate(ii)	---	483.65	42.315	1,2
3933	C4H10O3S	n-propyl methanesulfonate	1912-31-8	360.85	30.693	1,2	4057	C4H12F2Si2	1,2-difluoro-1,1,2,2-tetramethyldisilane	661-68-7	367.15	31.281	1,2
3934	C4H10O4	1,2,3,4-butanetetrol	149-32-6	603.65	53.927	1,2	4062	C4H12IN7	tetramethylammonium diazidoiodate(i)	68574-13-0	379.15	32.405	1,2
3937	C4H10O4S	diethyl sulfate	64-67-5	483.00	43.197	1,2	4070	C4H12N2	1,4-butanediamine	110-60-1	431.65	37.358	1,2
3938	C4H10O4S	methyl propyl sulfate	5867-91-4	483.69	44.324	2	4071	C4H12N2	2,3-butanediamine, (R*,R*)-(±)	20699-48-3	396.09	35.821	2
3942	C4H10S	butyl mercaptan	109-79-5	371.61	32.783	1,2	4072	C4H12N2	N,N'-dimethyl-1,2-ethanediamine	110-70-3	393.15	34.961	1,2
3943	C4H10S	isobutyl mercaptan	513-44-0	361.64	31.364	1,2	4073	C4H12N2	N-ethyl-1,2-ethanediamine	110-72-5	402.15	37.685	1,2
3944	C4H10S	sec-butyl mercaptan	513-53-1	358.13	30.932	1,2	4074	C4H12N2	2-methyl-1,2-propanediamine	811-93-8	396.15	35.838	1,2
3945	C4H10S	tert-butyl mercaptan	75-66-1	337.37	28.549	1,2	4075	C4H12N2	1,1-diethylhydrazine	616-40-0	372.15	31.749	1,2
3946	C4H10S	2-butanethiol	91840-99-2	358.15	30.952	1,2	4076	C4H12N2	1,2-diethylhydrazine	1615-80-1	358.65	30.487	1,2
3947	C4H10S	diethyl sulfide	352-93-2	365.25	31.999	1,2	4077	C4H12N2	1,3-butanediamine	590-88-5	419.15	43.720	1,2
3948	C4H10S	methyl propyl sulfide	3877-15-4	368.71	32.079	1,2	4078	C4H12N2	N,N-dimethylethylenediamine	108-00-9	378.65	31.113	1,2
3949	C4H10S	methyl isopropyl sulfide	1551-21-9	357.90	30.702	1,2	4079	C4H12N2	3-(methylamino)propylamine	6291-84-5	413.15	41.440	1,2
3950	C4H10S2	diethyl disulfide	110-81-6	427.13	37.530	1,2	4080	C4H12N2O	N-aminoethyl ethanolamine	111-41-1	517.00	65.324	1,2
3951	C4H10S2	1,2-bis(methylthio)ethane	6628-18-8	455.15	39.592	1,2	4081	C4H12N2O	1,5-diamino-3-oxapentane	2752-17-2	517.00	45.520	2
3952	C4H10S2	1,4-butanedithiol	1191-08-8	468.65	40.880	1,2	4082	C4H12N2OS	tetramethylsulfurous diamide	3768-60-3	482.15	42.172	1,2
3953	C4H10S2	2,3-butanedithiol	4532-64-3	450.31	39.131	2	4085	C4H12N2O2S	tetramethylsulfamide	3768-63-6	498.15	43.706	1,2
3954	C4H10S2	methyl propyl disulfide	2179-60-4	450.31	39.131	2	4088	C4H12N2O6S2	1,4-butanediyl sulfamate	60548-62-1	347.65	29.462	1,2
3958	C4H10Se	diethyl selenide	627-53-2	381.15	32.593	1,2	4092	C4H12OSi	ethyldimethylsilanol	5906-73-0	393.15	33.720	1,2
3961	C4H10Te	diethyl telluride	627-54-3	410.65	35.370	1,2	4093	C4H12OSi	methoxytrimethylsilane	1825-61-2	330.60	27.879	1,2
3962	C4H10Zn	diethylzinc	557-20-0	391.15	33.532	1,2	4094	C4H12OSi	(trimethylsilyl)methanol	3219-63-4	394.15	33.814	1,2
3963	C4H11As	diethylarsine	692-42-2	378.15	32.311	1,2	4095	C4H12OSi	ethoxydimethylsilane	14857-34-2	372.63	31.795	2
3968	C4H11BrSi	(bromomethyl)trimethylsilane	18243-41-9	389.65	33.391	1,2	4096	C4H12O2Si	dimethoxydimethylsilane	1112-39-6	355.15	30.161	1,2
3971	C4H11ClO3Si	chloromethyl trimethoxysilane	5926-26-1	184.55	14.668	1,2	4098	C4H12O3Si	trimethoxymethylsilane	1185-55-3	375.65	32.077	1,2
3972	C4H11ClSi	chloroethyldimethylsilane	6917-76-6	362.65	30.861	1,2	4100	C4H12O4	acetaldehyde, tetramer	66056-06-2	383.15	32.780	1,2
3973	C4H11ClSi	(chloromethyl)trimethylsilane	2344-80-1	371.65	31.702	1,2	4101	C4H12O4Si	tetramethyl silicate	681-84-5	394.15	33.814	1,2
3976	C4H11ISi	(iodomethyl)trimethylsilane	4206-67-1	413.15	35.606	1,2	4103	C4H12O7P2	tetramethylpyrophosphate	690-49-3	430.65	37.263	1,2
3977	C4H11N	butylamine	109-73-9	350.55	32.158	1,2	4105	C4H12P2	tetramethyldiphosphane	3676-91-3	414.15	35.701	1,2
3978	C4H11N	isobutylamine	78-81-9	340.88	30.725	1,2	4106	C4H12Pb	tetramethyl lead	75-74-1	383.15	32.780	1,2
3979	C4H11N	sec-butylamine	13952-84-6	336.15	30.007	1,2	4108	C4H12SSi	trimethyl(methylthio)silane	3908-55-2	385.15	32.968	1,2
3980	C4H11N	tert-butylamine	75-64-9	317.55	27.607	1,2	4110	C4H12Si	tetramethylsilane	75-76-3	299.80	24.257	1,2
3981	C4H11N	2-butanamine, (.+/-.)-	33966-50-6	335.88	30.903	1,2	4111	C4H12Si	diethylsilane	542-91-6	330.15	27.837	1,2
3982	C4H11N	methyl-propylamine	627-35-0	336.15	29.982	1,2	4112	C4H12Si	ethyldimethylsilane	758-21-4	318.15	26.728	1,2
3983	C4H11N	methylisopropylamine	4747-21-1	323.55	33.651	1,2	4113	C4H12Sn	tetramethylstannane	594-27-4	351.15	29.788	1,2
3984	C4H11N	diethylamine	109-89-7	328.60	28.885	1,2	4116	C4H13CrN3O4	bis(2-aminoethyl)aminediperoxochromium(iv)	59419-71-5	422.15	36.457	1,2
3985	C4H11N	dimethylethylamine	598-56-1	310.15	24.770	1,2	4118	C4H13N3	diethylene triamine	111-40-0	480.25	48.230	1,2
3986	C4H11N	(R)-(-)-sec-butylamine	13250-12-9	333.15	30.032	1,2	4132	C4H14OSi2	1,1,3,3-tetramethyldisiloxane	3277-26-7	344.15	29.137	1,2
3987	C4H11N	(S)-(+)-sec-butylamine	513-49-5	335.10	30.650	1,2	4133	C4H14Si2	1,1,2,2-tetramethyldisilane	814-98-2	359.65	30.581	1,2
3988	C4H11NO	dimethylethanolamine	108-01-0	407.15	44.800	1,2	4134	C4H15NSi2	N-(dimethylsilyl)-1,1-dimethylsilylamine	15933-59-2	372.55	31.787	1,2
3989	C4H11NO	3-amino-1-butanol	2867-59-6	426.84	36.901	2	4135	C4H16ClCoN6O8	bis(1,2-diaminoethane)dinitrocobalt(iii) per*	14781-32-9	371.15	31.656	1,2
3990	C4H11NO	3-amino-2-butanol	42551-55-3	433.15	37.500	1,2	4136	C4H16Cl2MnN8O8S4	tetrakis(thiourea)manganese(ii) perchlorate	50831-29-3	275.15	22.783	1,2
3991	C4H11NO	4-amino-1-butanol	13325-10-5	478.15	41.789	1,2	4140	C4H16O4Si4	2,4,6,8-tetramethylcyclotetrasiloxane	2370-88-9	407.65	35.087	1,2
3992	C4H11NO	2-amino-1-butanol, (±)-	13054-87-0	451.15	39.211	1,2	4141	C4H17Cl2N4O10Re	bis(1,2-diamino ethane)hydroxooxo rhenium(v)*	---	425.15	36.741	2
3993	C4H11NO	2-amino-2-methyl-1-propanol	124-68-5	438.65	38.022	1,2	4142	C4H17Cl2N4O10Re	bis(1,2-diaminoethane)hydroxooxorhenium(v) p*	19267-68-6	425.15	36.741	1,2
3994	C4H11NO	2-ethoxyethanamine	110-76-9	380.15	32.499	1,2	4145	C4H20Cl3CoN4O14	bis(1,2-diaminoethane)diaquacobalt(iii) perc*	55870-36-5	460.15	40.069	1,2
3995	C4H11NO	2-(ethylamino)ethanol	110-73-6	442.65	38.402	1,2	4148	C4H22N2O6	piperazine hexahydrate	142-63-2	398.15	34.191	1,2
3996	C4H11NO	N-ethyl-N-hydroxyethanamine	3710-84-7	406.15	34.945	1,2	4152	C4K4N4Ti	potassium tetracyanotitanate(iv)	75038-71-0	357.15	30.347	1,2
3997	C4H11NO	3-methoxy-1-propanamine	5332-73-0	390.65	33.485	1,2	4153	C4N2	2-butynedinitrile	1071-98-3	349.65	29.648	1,2
3998	C4H11NO	4-amino-2-butanol	39884-48-5	426.84	36.901	2	4157	C5BrF4N	4-bromo-2,3,5,6-tetrafluoropyridine	3511-90-8	407.65	35.087	1,2
3999	C4H11NO	1-amino-2-butanol	13552-21-1	442.05	38.345	1,2	4160	C5ClF4N	3-chloro-2,4,5,6-tetrafluoropyridine	1735-84-8	392.65	33.673	1,2
4000	C4H11NO	4-aminobutan-2-ol	39884-48-5	426.84	36.901	2	4163	C5Cs3O5V	cesium pentacarbonylvanadate (3-)	78937-12-9	368.95	31.450	1,2
4001	C4H11NO	(S)-(+)-2-amino-1-butanol	5856-62-2	446.15	38.735	1,2	4164	C5Cl2F3N	3,5-dichloro-2,4,6-trifluoropyridine	1737-93-5	432.65	37.453	1,2
4002	C4H11NO	(R)-(-)-2-amino-1-butanol	5856-63-3	446.15	38.735	1,2	4165	C5Cl2F6	1,2-dichloro-3,3,4,4,5,5-hexafluorocyclopent*	706-79-6	363.85	30.973	1,2
4003	C4H11NO	2-aminobutan-1-ol	96-20-8	450.15	39.116	1,2	4167	C5Cl4N2	tetrachlorodiazocyclopentadiene	21572-61-2	296.15	24.703	1,2
4004	C4H11NO	2-amino-1-methoxypropane	37143-54-7	366.15	31.188	1,2	4168	C5Cl5N	pentachloropyridine	2176-62-7	553.15	49.014	1,2
4005	C4H11NO	1-amino-2-methyl-2-propanol	2854-16-2	424.05	36.637	1,2	4169	C5Cl6	hexachlorocyclopentadiene	77-47-4	512.15	46.401	1,2
4006	C4H11NO2	diethanolamine	111-42-2	542.04	64.457	1,2	4170	C5Cl8	octachlorocyclopentene	706-78-5	556.15	49.304	1,2
4007	C4H11NO2	2-aminoethoxyethanol	929-06-6	514.00	62.788	1,2	4171	C5F5N	pentafluoropyridine	700-16-3	357.05	30.338	1,2
4008	C4H11NO2	2-amino-2-methyl-1,3-propanediol	115-69-5	525.40	46.330	2	4173	C5F6O3	hexafluoroglutaric anhydride	376-68-1	345.05	29.220	1,2
4009	C4H11NO2	2,2-dimethoxyethanamine	22483-09-6	525.40	46.330	2	4174	C5F7NO3	2-heptafluoropropyl-1,3,4-dioxazolone	87050-95-1	402.15	34.568	1,2
4010	C4H11NO2	3-methylamino-1,2-propanediol	40137-22-2	520.15	45.824	1,2	4175	C5F8	octafluorocyclopentene	559-40-0	300.15	22.939	1,2
4011	C4H11NO2	D-threoninol	44520-55-0	525.40	46.330	2	4176	C5F8	1,1,2,4,4-pentafluoro-3-(trifluoromethyl)-1,*	384-04-3	312.15	26.174	1,2
4012	C4H11NO2	L(+)-threoninol	515-93-5	525.40	46.330	2	4177	C5F10	1,1,2,3,3,4,4,5,5,5-decafluoro-1-pentene	376-87-4	303.15	25.346	1,2
4016	C4H11NS	3-(methylthio)propylamine	4104-45-4	442.15	38.355	1,2	4178	C5F10	decafluorocyclopentane	376-77-2	293.75	24.483	1,2
4019	C4H11O2P	diethylphosphinic acid	813-76-3	593.15	52.902	1,2	4179	C5F11I	undecafluoro-5-iodopentane	638-79-9	367.55	31.319	1,2
4022	C4H11O3P	diethyl hydrogen phosphite	123-22-8	460.15	40.069	1,2	4180	C5F11NO	perfluoro-4-methylmorpholine	382-28-5	324.15	27.282	1,2
4025	C4H11O3P	diethyl phosphite	762-04-9	411.15	35.417	1,2	4181	C5F12	perfluoropentane	678-26-2	302.35	25.272	1,2
4027	C4H11O4P	diethyl hydrogen phosphate	598-02-7	476.15	41.597	2	4183	C5FeO5	iron pentacarbonyl	13463-40-6	376.15	32.124	1,2
4028	C4H11O4P	dimethyl 2-hydroxyethylphosphonate	54731-72-5	467.15	40.737	1,2	4187	C5HCl4N	2,3,5,6-tetrachloropyridine	2402-79-1	523.65	46.161	1,2
4029	C4H11P	diethyl phosphine	627-49-6	358.15	30.441	1,2	4188	C5HCl4N	2,3,4,5-tetrachloropyridine	2808-86-8	523.65	46.161	2
4030	C4H11P	ethyldimethylphosphine	1605-51-2	358.15	30.441	2	4189	C5HCl5	1,2,3,4,5-pentachlorocyclopentadiene	25329-35-5	491.15	43.034	2
4031	C4H12As	tetramethylarsonium	27742-38-7	430.65	37.263	1,2	4190	C5HF4N	2,3,5,6-tetrafluoropyridine	2875-18-5	375.15	32.030	1,2
4032	C4H12As2	tetramethyldiarsine	471-35-2	438.15	37.975	1,2	4191	C5HF9O2	nonafluorovaleric acid	2706-90-3	413.15	35.606	1,2
4033	C4H12As2O	dimethylarsinous anhydride	503-80-0	423.15	36.552	1,2	4196	C5H2Cl3N	2,3,6-trichloropyridine	6515-09-9	377.45	32.246	1,2
4034	C4H12As2S	bis-dimethyl arsinyl sulfide	591-10-6	473.15	41.310	1,2	4197	C5H2Cl4	1,2,3,4-tetrachlorocyclopentadiene	695-77-2	385.15	32.968	1,2
4037	C4H12BFN2	1-fluoro-N,N,N',N'-tetramethylboranediamine	383-90-4	379.15	32.405	1,2	4198	C5H2Cl6O3	2,5-bis(trichloromethyl)-1,3-dioxolan-4-one	554-21-2	545.65	48.287	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
4200	C5H2F6O2	hexafluoroacetylacetone	1522-22-1	327.30	27.574	1,2	4366	C5H5ClS	2-chloro-5-methylthiophene	17249-82-0	427.15	36.931	1,2
4202	C5H2F10	1,1,1,2,2,3,4,5,5,5-decafluoropentane	138495-42-8	326.75	27.523	1,2	4367	C5H5ClS	2-chloro-3-methylthiophene	14345-97-2	426.15	36.836	1,2
4204	C5H3Ag	1,3-pentadiyn-1-yl silver	---	367.15	31.281	1,2	4370	C5H5Cl3N2S	1-(trichloromethylmercapto)-4-methylpyrazole	26259-90-5	408.15	35.134	1,2
4207	C5H3BrF6O2	ethyl hexafluoro-2-bromobutyrate	63867-09-4	446.15	38.735	1,2	4373	C5H5Cl3S3	trichloromethyl allyl perthioxanthate	64057-58-5	382.15	32.687	1,2
4210	C5H3BrOS	5-bromo-2-thiophenecarboxaldehyde	4701-17-1	379.15	32.405	1,2	4377	C5H5F3O2	1,1,1-trifluoro-2,4-pentanedione	367-57-7	374.63	31.981	2
4211	C5H3BrOS	4-bromo-2-thiophenecarboxaldehyde	18791-75-8	379.15	32.405	2	4378	C5H5F3O2	allyl trifluoroacetate	383-67-5	339.65	28.719	1,2
4212	C5H3BrO2	5-bromo-2-furancarboxaldehyde	1899-24-7	474.15	41.406	1,2	4379	C5H5F3O2	2,2,2-trifluoroethyl acrylate	407-47-6	365.15	31.094	1,2
4215	C5H3Br2N	3,5-dibromopyridine	625-92-3	495.15	43.418	1,2	4380	C5H5F3O2	4,4,4-trifluoro-3-methyl-2-butenoic acid	93404-33-2	433.65	37.547	1,2
4216	C5H3Br2N	2,3-dibromopyridine	13534-89-9	511.65	45.005	2	4381	C5H5F3O2	1-(trifluoromethyl)ethenyl acetate	2247-91-8	360.05	30.618	1,2
4217	C5H3Br2N	2,5-dibromopyridine	624-28-2	511.65	45.005	2	4383	C5H5F3O3	ethyl 3,3,3-trifluoropyruvate	13081-18-0	315.15	26.451	1,2
4218	C5H3Br2N	2,6-dibromopyridine	626-05-1	528.15	46.595	1,2	4384	C5H5F5O2	ethyl pentafluoropropionate	426-65-3	347.65	29.462	1,2
4219	C5H3Br2NO2	N-methyl-dibromomaleinimide	3005-27-4	378.15	32.311	1,2	4385	C5H5F7O	3,3,4,4,5,5,5-heptafluoro-2-pentanol	375-14-4	374.50	31.969	1,2
4223	C5H3ClOS	2-thiophenecarbonyl chloride	5271-67-0	479.65	41.932	1,2	4388	C5H5K	potassium cyclopentadienide	30994-24-2	530.15	46.788	1,2
4224	C5H3ClO2	2-furancarbonyl chloride	527-69-5	446.15	38.735	1,2	4389	C5H5KN2O5	potassium-2,5-dinitrocyclopentanonide	26717-79-3	460.15	40.069	1,2
4225	C5H3ClO2	furoyl chloride	1300-32-9	443.15	38.450	1,2	4391	C5H5N	pyridine	110-86-1	388.41	35.770	1,2
4228	C5H3Cl2N	2,5-dichloropyridine	16110-09-1	463.65	40.403	1,2	4392	C5H5N	cis-2,4-pentadienenitrile	2180-69-0	399.03	34.274	2
4229	C5H3Cl2N	2,3-dichloropyridine	2402-77-9	473.90	41.382	2	4393	C5H5N	trans-2,4-pentadienenitrile	2180-68-9	399.03	34.274	2
4230	C5H3Cl2N	2,6-dichloropyridine	2402-78-0	484.15	42.363	1,2	4394	C5H5N	2,4-pentadienenitrile	1615-70-9	409.65	35.275	1,2
4235	C5H3FN2O4	1,2,3,6-tetrahydro-2,6-dioxo-5-fluoro-4-pyri*	703-95-7	416.15	35.890	1,2	4395	C5H5NO	pyridine-1-oxide	694-59-7	522.15	46.016	2
4236	C5H3F2N	2,6-difluoropyridine	1513-65-1	397.90	34.167	1,2	4396	C5H5NO	2-pyridinol	72762-00-6	522.15	46.016	2
4237	C5H3F3N2O	1-(trifluoroacetyl)imidazole	1546-79-8	410.65	35.370	1,2	4397	C5H5NO	4-pyridinol	626-64-2	522.15	46.016	2
4241	C5H3F6NO2	N-methyl-bis(trifluoroacetamide)	685-27-8	394.15	33.814	1,2	4398	C5H5NO	2(1H)-pyridinone	142-08-5	553.15	49.014	1,2
4242	C5H3F7O	heptafluoroisobutylene methyl ether	360-53-2	428.85	37.092	1,2	4399	C5H5NO	1H-pyrrole-2-carboxaldehyde	1003-29-8	491.15	43.034	1,2
4243	C5H3F7O2	methyl heptafluorobutanoate	356-24-1	353.15	29.974	1,2	4400	C5H5NO	3-hydroxypyridine	109-00-2	522.15	46.016	2
4246	C5H3NO	2-furancarbonitrile	617-90-3	420.15	36.268	1,2	4401	C5H5NO	4-(1H)-pyridone	108-96-3	522.15	46.016	2
4247	C5H3NO	3-furonitrile	30078-65-0	424.15	36.647	1,2	4406	C5H5NO2	cis-2-furancarboxaldehyde oxime	1450-58-4	478.15	41.789	2
4250	C5H3NS	2-thiophenecarbonitrile	1003-31-2	465.15	40.546	1,2	4407	C5H5NO2	trans-2-furancarboxaldehyde oxime	620-03-1	478.15	41.789	2
4253	C5H3N3O2	2-furoyl azide	20762-98-5	460.65	40.117	1,2	4408	C5H5NO2	methyl 2-cyanoacrylate	137-05-3	478.15	41.789	2
4256	C5H4	1,3-pentadiyne	4911-55-1	328.15	27.652	1,2	4409	C5H5NO2	1-cyano-1-cyclopropanecarboxylic acid	6914-79-0	478.15	41.789	2
4258	C5H4BrN	2-bromopyridine	109-04-6	466.15	40.641	1,2	4410	C5H5NO2	1-cyanovinyl acetate	3061-65-2	478.15	41.789	2
4259	C5H4BrN	3-bromopyridine	626-55-1	446.15	38.735	1,2	4413	C5H5NO2	3-hydroxypyridine-N-oxide	6602-28-4	478.15	41.789	2
4260	C5H4BrN	4-bromopyridine	1120-87-2	456.15	39.687	2	4414	C5H5NO2	N-methylmaleimide	930-88-1	478.15	41.789	2
4265	C5H4ClN	2-chloropyridine	109-09-1	443.15	38.450	1,2	4415	C5H5NO2	furfural oxime	1121-47-7	478.15	41.789	2
4266	C5H4ClN	3-chloropyridine	626-60-8	421.15	36.363	1,2	4447	C5H6	cyclopentadiene	542-92-7	314.65	25.760	1,2
4267	C5H4ClN	4-chloropyridine	626-61-9	420.65	36.315	1,2	4448	C5H6	2-methyl-1-butene-3-yne	78-80-8	305.40	25.084	1,2
4274	C5H4Cl2N2	2,4-dichloro-5-methylpyrimidine	1780-31-0	508.15	44.668	1,2	4449	C5H6	1-pentene-3-yne	646-05-9	332.40	27.880	1,2
4275	C5H4Cl2N2	2,4-dichloro-6-methylpyrimidine	5424-21-5	492.15	43.130	1,2	4450	C5H6	1-pentene-4-yne	871-28-3	315.65	26.285	1,2
4276	C5H4Cl2N2	2,6-dichloro-3-pyridinamine	62476-56-6	500.15	43.899	2	4451	C5H6	cis-3-penten-1-yne	1574-40-9	317.75	26.588	1,2
4277	C5H4Cl2N2	2-amino-3,5-dichloropyridine	4214-74-8	500.15	43.899	2	4452	C5H6	trans-3-penten-1-yne	2004-69-5	325.35	28.657	1,2
4278	C5H4Cl2N2	3,6-dichloro-4-methylpyridazine	19064-64-3	500.15	43.899	2	4453	C5H6	bicyclo[2.1.0]pent-2-ene	5164-35-2	318.53	26.763	2
4279	C5H4Cl2N2S	4,6-dichloro-2-(methylthio)pyrimidine	6299-25-8	408.65	35.181	1,2	4468	C5H6ClN	pyridine hydrochloride	628-13-7	495.15	43.418	1,2
4282	C5H4FN	3-fluoropyridine	372-47-4	380.65	32.546	1,2	4477	C5H6Cl2O2	pentanedioyl dichloride	2873-74-7	490.15	42.939	1,2
4283	C5H4FN	2-fluoropyridine	372-48-5	399.15	34.285	1,2	4478	C5H6Cl2O2	2,2-dichloro-1-methyl-cyclopropanecarboxylic*	1447-14-9	490.15	42.939	2
4285	C5H4F6O2	2,2-bis(trifluoromethyl)-1,3-dioxolane	1765-26-0	379.65	32.452	1,2	4479	C5H6Cl2O2	dimethylmalonyl chloride	5659-93-8	490.15	42.939	2
4286	C5H4F6O2	methyl hexafluoroisobutyrate	360-54-3	379.65	32.452	2	4485	C5H6F4O2	ethyl 2,3,3,3-tetrafluoropropanoate	399-92-8	381.65	32.640	1,2
4287	C5H4F8O	2,2,3,3,4,4,5,5-octafluoro-1-pentanol	355-80-6	413.65	35.653	1,2	4486	C5H6F4O2	glycidyl 1,1,2,2-tetrafluoroethyl ether	85567-21-1	416.15	35.890	1,2
4288	C5H4F8O	octafluoropentanol	39660-55-4	413.65	35.653	2	4490	C5H6N2	glutaronitrile	544-13-8	559.15	53.300	1,2
4292	C5H4NNaOS	sodium pyrithione	3811-73-2	382.15	32.687	1,2	4491	C5H6N2	dimethylpropanedinitrile	7321-55-3	442.65	38.402	1,2
4293	C5H4N2	diazocyclopentadiene	1192-27-4	432.15	37.405	1,2	4492	C5H6N2	2-methylpyrazine	109-08-0	410.15	35.323	1,2
4294	C5H4N2O2	pyrazinecarboxylic acid	98-97-5	509.23	44.771	2	4493	C5H6N2	3-methylpyridazine	1632-76-4	487.15	42.651	1,2
4295	C5H4N2O2	3-nitropyridine	2530-26-9	489.25	42.852	1,2	4494	C5H6N2	2-methylpyrimidine	5053-43-0	411.15	35.417	1,2
4296	C5H4N2O2	2-nitropyridine	15009-91-3	529.20	46.697	1,2	4495	C5H6N2	4-methylpyrimidine	3438-46-8	415.15	35.795	1,2
4314	C5H4N4OS2	2-methylthio-6-hydroxy-8-thiapurine	62700-64-5	343.75	29.099	1,2	4496	C5H6N2	5-methylpyrimidine	2036-41-1	426.15	36.836	1,2
4317	C5H4N4O3	uric acid	69-93-2	326.15	27.467	2	4497	C5H6N2	2-pyridinamine	504-29-0	469.21	40.933	2
4318	C5H4N4O3	3-hydroxyxanthine	13479-29-3	326.15	27.467	2	4498	C5H6N2	3-pyridinamine	462-08-8	525.15	46.306	1,2
4319	C5H4N4O3	7-hydroxyxanthine	16870-90-9	326.15	27.467	1,2	4499	C5H6N2	4-pyridinamine	504-24-5	546.15	48.336	1,2
4325	C5H4OS	2-thiophenecarboxaldehyde	98-03-3	470.15	41.024	1,2	4500	C5H6N2	4-methylpyridazine	1120-88-3	469.21	40.933	2
4326	C5H4OS	3-thiophenecarboxaldehyde	498-62-4	470.15	41.024	2	4501	C5H6N2	1-vinylimidazole	1072-63-5	469.21	40.933	2
4327	C5H4O2	furfural	98-01-1	434.85	42.152	1,2	4502	C5H6N2	pyridinamine	26445-05-6	469.21	40.933	2
4328	C5H4O2	3-furancarboxaldehyde	498-60-2	418.15	36.079	1,2	4529	C5H6N4O3	5-nitro-2-furohydrazide imide	13295-76-6	325.65	27.421	1,2
4329	C5H4O2	5-methylene-2(5H)-furanone	108-28-1	454.83	39.561	2	4531	C5H6N6O2	glutaryl diazide	64624-44-8	296.15	24.703	1,2
4330	C5H4O2	2H-pyran-2-one	504-31-4	480.65	42.028	1,2	4532	C5H6N6S2	N,N'-methylenebis(2-amino-1,3,4-thiadiazole)	26907-37-9	387.65	33.203	1,2
4331	C5H4O2	4H-pyran-4-one	108-97-4	485.65	42.507	1,2	4534	C5H6O	2-methylfuran	534-22-5	337.85	29.372	1,2
4332	C5H4O2	4-cyclopentene-1,3-dione	930-60-9	454.83	39.561	2	4535	C5H6O	3-methylfuran	930-27-8	338.65	29.560	1,2
4333	C5H4O2	3-hydroxypurin-2(3H)-one	54643-52-6	454.83	39.561	2	4536	C5H6O	2-cyclopenten-1-one	930-30-3	409.15	35.228	1,2
4334	C5H4O2S	2-thiophenecarboxylic acid	527-72-0	533.15	47.078	2	4537	C5H6O	1-methoxy-1-buten-3-yne	2798-73-4	396.15	34.003	2
4335	C5H4O2S	3-thiophenecarboxylic acid	88-13-1	533.15	47.078	2	4538	C5H6O	4-penten-2-yn-1-ol	2919-05-3	366.99	31.266	2
4336	C5H4O3	dihydro-3-methylene-2,5-furandione	2170-03-8	498.32	43.722	2	4539	C5H6O	pyran	33941-07-0	353.15	29.974	1,2
4337	C5H4O3	2-furancarboxylic acid	88-14-2	504.15	44.283	1,2	4540	C5H6O	2-penten-4-yn-1-ol	5557-88-0	366.99	31.266	2
4338	C5H4O3	3-furancarboxylic acid	488-93-7	498.32	43.722	2	4541	C5H6O	2-penten-4-yn-3-ol	101672-20-2	366.99	31.266	2
4339	C5H4O3	3-hydroxy-2H-pyran-2-one	496-64-0	498.32	43.722	2	4542	C5H6OS	2-furanmethanethiol	98-02-2	430.15	37.215	1,2
4340	C5H4O3	3-methyl-2,5-furandione	616-02-4	486.65	42.603	1,2	4543	C5H6OS	2-thiophenemethanol	636-72-6	480.15	41.980	1,2
4341	C5H4O3	furoic acid	26447-28-9	504.15	44.283	1,2	4544	C5H6OS	2-methoxythiophene	16839-97-7	424.65	36.694	1,2
4342	C5H4O3	3-oxabicyclo[3.1.0]hexane-2,4-dione	5617-74-3	498.32	43.722	2	4545	C5H6OS	3-methoxythiophene	17573-92-1	444.98	38.624	2
4345	C5H5Ag	silver cyclopropylacetylide	---	449.15	39.021	2	4546	C5H6OS	2-methyl-3-furanethiol, balance oxidized com*	28588-74-1	444.98	38.624	2
4354	C5H5BrS	2-bromo-3-methylthiophene	14282-76-9	448.15	38.925	1,2	4547	C5H6OS	3-thiophenemethanol	71637-34-8	444.98	38.624	2
4355	C5H5BrS	2-bromo-5-methylthiophene	765-58-2	451.15	39.211	1,2	4548	C5H6O2	furfuryl alcohol	98-00-0	443.15	38.620	1,2
4356	C5H5BrS	3-bromo-4-methylthiophene	30318-99-1	454.15	39.497	1,2	4549	C5H6O2	dihydro-3-methylene-2(3H)-furanone	547-65-9	412.82	35.575	2
4364	C5H5ClO2	3-butyn-1-yl chloroformate	190774-49-3	422.15	36.457	1,2	4550	C5H6O2	dihydro-5-methylene-2(3H)-furanone	10008-73-8	412.82	35.575	2
4365	C5H5ClO2	2-butyn-1-yl chloroformate	202591-85-3	429.15	37.121	1,2	4551	C5H6O2	5-methyl-2(3H)-furanone	591-12-8	412.82	35.575	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
4552	C5H6O2	5-methyl-2(5H)-furanone	591-11-7	482.15	42.172	1,2	4659	C5H7N	2-methylpyrrole	636-41-9	420.75	45.388	1,2
4553	C5H6O2	ethyl 2-propynoate	623-47-2	393.15	33.720	1,2	4660	C5H7N	3-methylpyrrole	616-43-3	416.05	43.486	1,2
4554	C5H6O2	propargyl acetate	627-09-8	394.65	33.861	1,2	4661	C5H7N	cyclobutanecarbonitrile	4426-11-3	422.75	36.514	1,2
4555	C5H6O2	2-methoxyfuran	25414-22-6	383.65	32.827	1,2	4662	C5H7N	4-pentenenitrile	592-51-8	413.15	35.606	1,2
4556	C5H6O2	2,4-pentadienoic acid	626-99-3	385.15	32.968	2	4663	C5H7N	cyclopropylacetonitrile	6542-60-5	416.15	35.890	1,2
4557	C5H6O2	2-pentynoic acid	5963-77-9	412.82	35.575	2	4664	C5H7N	trans-3-pentenenitrile	16529-66-1	418.65	36.126	1,2
4558	C5H6O2	4-pentynoic acid	6089-09-4	412.82	35.575	2	4665	C5H7N	cis-2-pentenenitrile	25899-50-7	400.65	34.426	1,2
4559	C5H6O2	angelica lactone	1333-38-6	483.15	42.268	1,2	4666	C5H7N	3-pentenenitrile	4635-87-4	418.50	36.112	1,2
4560	C5H6O2	furan-3-methanol	4412-91-3	412.82	35.575	2	4667	C5H7NO	3,5-dimethylisoxazole	300-87-8	416.15	35.890	1,2
4561	C5H6O2	methyl 2-butynoate	23326-27-4	412.82	35.575	2	4668	C5H7NO	2,4-dimethyloxazole	7208-05-1	381.15	32.593	1,2
4562	C5H6O2	3-methyl-2(5H)-furanone	22122-36-7	412.82	35.575	2	4669	C5H7NO	2,5-dimethyloxazole	23012-11-5	390.65	33.485	1,2
4563	C5H6O2	vinyl acrylate	2177-18-6	364.15	31.001	1,2	4670	C5H7NO	2-furanmethanamine	617-89-0	418.65	36.126	1,2
4565	C5H6O2	4,5-epoxy-2-pentenal	64011-46-7	412.82	35.575	2	4671	C5H7NO	cis-2-hydroxy-3-pentenenitrile	116908-78-2	401.65	34.521	2
4566	C5H6O2	1-hydroxy-2-pentyne-4-one	64011-43-4	386.15	33.062	1,2	4672	C5H7NO	3-ethoxyacrylonitrile	61310-53-0	401.65	34.521	2
4567	C5H6O3	glutaric anhydride	108-55-4	562.69	57.210	1,2	4673	C5H7NO	S-1-cyano-2-hydroxy-3-butene	6071-81-4	401.65	34.521	2
4568	C5H6O3	dihydro-3-methyl-2,5-furandione	4100-80-5	512.15	45.053	1,2	4677	C5H7NO2	ethyl cyanoacetate	105-56-6	479.15	64.124	1,2
4569	C5H6O3	2,3-dihydroxy-2-cyclopenten-1-one	80-72-8	503.33	44.204	2	4678	C5H7NO2	2-acetoxypropanenitrile	15657-96-2	445.65	38.688	1,2
4570	C5H6O3	(S)-4-ethenyl-1,3-dioxolan-2-one	123-92-2	503.33	44.204	2	4679	C5H7NO2	methyl 3-cyanopropanonate	4107-62-4	486.15	42.555	1,2
4571	C5H6O3	(S)-(-)-5-(hydroxymethyl)-2(5H)-furanone	78508-96-0	503.33	44.204	2	4680	C5H7NO2	3-methyl-5-isoxazolemethanol	14716-89-3	477.25	41.703	2
4572	C5H6O3	4-methoxy-2(5H)-furanone	69556-70-3	503.33	44.204	2	4681	C5H7NO2	1-methyl-2,5-pyrrolidinedione	1121-07-9	507.15	44.572	1,2
4573	C5H6O3	4-vinyl-1,3-dioxolan-2-one	4427-96-7	503.33	44.204	2	4682	C5H7NO2	ethyl isocyanoacetate	2999-46-4	468.15	40.833	1,2
4574	C5H6O3	4,5-epoxy-3-hydroxyvaleric acid b-lactone	4247-30-7	503.33	44.204	2	4683	C5H7NO2	glutarimide	1121-89-7	477.25	41.703	2
4575	C5H6O3	a-methyl tetronic acid	22885-98-9	435.15	37.690	2	4684	C5H7NO2	L-3,4-dehydroproline	4043-88-3	477.25	41.703	2
4576	C5H6O4	citraconic acid	498-23-7	607.00	73.070	1,2	4690	C5H7NO3	4-acetoxy-2-azetidinone	28562-53-0	353.95	30.049	1,2
4577	C5H6O4	itaconic acid	97-65-4	601.00	72.074	1,2	4691	C5H7NO3	3-acetyl-2-oxazolidinone	1432-43-5	347.05	29.406	2
4578	C5H6O4	1,1-cyclopropanedicarboxylic acid	598-10-7	604.00	53.961	2	4693	C5H7NO3	ethyl isocyanatoacetate	2949-22-6	340.15	28.765	1,2
4579	C5H6O4	trans-1,2-cyclopropanedicarboxylic acid, (±)-	58616-95-8	604.00	53.961	2	4703	C5H7NS	2,4-dimethylthiazole	541-58-2	419.15	36.173	1,2
4580	C5H6O4	2,4-dioxopentanoic acid	5699-58-1	604.00	53.961	2	4704	C5H7NS	4,5-dimethylthiazole	3581-91-7	431.15	37.310	1,2
4581	C5H6O4	trans-1-propene-1,2-dicarboxylic acid	498-24-8	604.00	53.961	2	4705	C5H7NS	2-thiophenemethylamine	27757-85-3	425.15	36.741	2
4582	C5H6O4	(S)-(+)-5-oxo-2-tetrahydrofurancarboxylic ac*	21461-84-7	604.00	53.961	2	4706	C5H7NS	2,5-dimethylthiazole	4175-66-0	425.15	36.741	2
4583	C5H6O4	(R)-(-)-5-oxo-2-tetrahydrofurancarboxylic ac*	53558-93-3	604.00	53.961	2	4707	C5H7NS	4,5-epithiovaleronitrile	54096-45-6	425.15	36.741	2
4587	C5H6S	2-methylthiophene	554-14-3	385.71	33.903	1,2	4708	C5H7N3	methylaminopyrazine	19838-08-5	558.15	49.498	2
4588	C5H6S	3-methylthiophene	616-44-4	388.60	34.250	1,2	4709	C5H7N3	4-methyl-2-pyrimidinamine	108-52-1	558.15	49.498	2
4589	C5H6S	2-propynyl vinyl sulfide	21916-66-5	387.16	33.157	2	4710	C5H7N3	5-methyl-2-pyrimidinamine	50840-23-8	558.15	49.498	2
4594	C5H7Br	1-bromo-1-pentyne	14752-60-4	390.15	33.438	1,2	4711	C5H7N3	6-methyl-4-pyrimidinamine	3435-28-7	558.15	49.498	2
4597	C5H7BrO2	2-bromoethyl acrylate	4823-47-6	429.65	37.168	1,2	4712	C5H7N3	2,3-pyridinediamine	452-58-4	558.15	49.498	2
4598	C5H7BrO2	a-bromo-a-methyl-g-butyrolactone	33693-67-3	429.65	37.168	2	4713	C5H7N3	2,5-pyridinediamine	4318-76-7	558.15	49.498	2
4599	C5H7BrO2	methyl 4-bromocrotonate	1117-71-1	429.65	37.168	2	4714	C5H7N3	2,6-pyridinediamine	141-86-6	558.15	49.498	1,2
4600	C5H7BrO2	methyl 2-(bromomethyl)acrylate	4224-69-5	429.65	37.168	2	4715	C5H7N3	2(1H)-pyridinone hydrazone	4930-98-7	558.15	49.498	2
4601	C5H7BrO2	alpha-bromo-gamma-valerolactone,c&t	25966-39-6	429.65	37.168	2	4716	C5H7N3	3,4-diaminopyridine	54-96-6	558.15	49.498	2
4602	C5H7BrO3	ethyl bromopyruvate	70-23-5	372.15	31.749	1,2	4717	C5H7N3	imidazolepyrazole	6714-29-0	558.15	49.498	2
4604	C5H7Cl	3-chlorocyclopentene	96-40-2	370.53	31.597	2	4722	C5H7N3OS	formic acid (2-(4-methyl-2-thiazolyl))hydraz*	32852-21-4	493.15	43.226	1,2
4605	C5H7Cl	1-chloro-2-methyl-1,3-butadiene	35383-51-8	380.15	32.499	1,2	4723	C5H7N3O2	4-amino-5-(hydroxymethyl)-2(1H)-pyrimidinone	1123-95-1	344.45	29.165	2
4606	C5H7Cl	1-chloro-3-methyl-1,3-butadiene	51034-46-9	373.85	31.908	1,2	4725	C5H7N3O2	2-amino-4,6-dihydroxy-5-methylpyrimidine	55477-35-5	344.45	29.165	2
4607	C5H7Cl	2-chloro-3-methyl-1,3-butadiene	1809-02-5	366.15	31.188	1,2	4727	C5H7N3O2	4,5-dimethyl-2-nitroimidazole	5213-47-8	344.45	29.165	2
4608	C5H7Cl	3-chloro-1,3-pentadiene	37710-49-9	373.15	31.843	1,2	4728	C5H7N3O2	ethyl-2-azido-2-propenoate	81852-50-8	344.45	29.165	1,2
4609	C5H7Cl	3-chloro-3-methyl-1-butyne	1111-97-3	349.15	29.602	1,2	4729	C5H7N3O2	2-methyl-4-carbamoyl-5-hydroxyimidazole	69946-37-8	344.45	29.165	2
4610	C5H7Cl	1-chloro-1-cyclopentene	930-29-0	387.15	33.156	1,2	4730	C5H7N3O3	1-methyl-5-nitroimidazole-2-methanol	936-05-0	321.50	27.037	1,2
4611	C5H7Cl	5-chloro-1-pentyne	14267-92-6	364.10	30.996	1,2	4731	C5H7N3O3	1-nitroso-5,6-dihydrothymine	62641-67-2	469.15	40.928	1,2
4612	C5H7ClN2	3-chloro-1,5-dimethyl-1H-pyrazole	51500-32-4	484.15	42.363	1,2	4736	C5H8	spiropentane	157-40-4	312.19	26.736	1,2
4613	C5H7ClN2	4-chloro-3,5-dimethyl-1H-pyrazole	15953-73-8	494.15	43.322	1,2	4737	C5H8	cyclopentene	142-29-0	317.38	27.600	1,2
4614	C5H7ClN2	5-chloro-1,3-dimethyl-1H-pyrazole	54454-10-3	430.65	37.263	1,2	4738	C5H8	isoprene	78-79-5	307.22	26.066	1,2
4615	C5H7ClN2O	N-(b-cyanoethyl)monochloroacetamide	17756-81-9	438.15	37.975	2	4739	C5H8	3-methyl-1,2-butadiene	598-25-4	314.00	26.657	1,2
4617	C5H7ClO	2-chlorocyclopentanone	694-28-0	408.78	35.194	2	4740	C5H8	1,2-pentadiene	591-95-7	318.01	26.886	1,2
4618	C5H7ClO	3-methyl-2-butenoyl chloride	3350-78-5	419.15	36.173	1,2	4741	C5H8	cis-1,3-pentadiene	1574-41-0	317.22	26.695	1,2
4619	C5H7ClO	cyclobutanecarbonyl chloride	5006-22-4	409.05	35.219	1,2	4742	C5H8	trans-1,3-pentadiene	2004-70-8	315.17	26.569	1,2
4620	C5H7ClO	4-pentenoyl chloride	39716-58-0	398.15	34.191	1,2	4743	C5H8	1,4-pentadiene	591-93-5	299.11	24.491	1,2
4621	C5H7ClO2	2-chloroethyl acrylate	2206-89-5	420.65	36.315	2	4744	C5H8	2,3-pentadiene	591-96-8	321.40	27.760	1,2
4622	C5H7ClO2	5-(chloromethyl)dihydro-2(3H)-furanone	39928-72-8	420.65	36.315	2	4745	C5H8	1-pentyne	627-19-0	313.33	27.316	1,2
4623	C5H7ClO2	ethyl 2-chloroacrylate	30600-19-2	420.65	36.315	2	4746	C5H8	2-pentyne	627-21-4	329.22	29.246	1,2
4624	C5H7ClO2	methyl 4-chloro-2-butenoate	15320-72-6	420.65	36.315	2	4747	C5H8	3-methyl-1-butyne	598-23-2	302.15	26.020	1,2
4625	C5H7ClO2	methyl trans-2-chloro-2-butenoate	22038-57-9	434.65	37.642	1,2	4748	C5H8	1-methylcyclobutene	1489-60-7	311.15	26.082	1,2
4626	C5H7ClO2	methyl cis-3-chloro-2-butenoate	6214-25-1	415.55	35.833	1,2	4749	C5H8	methylenecyclobutane	1120-56-5	315.35	26.469	1,2
4627	C5H7ClO2	methyl trans-3-chloro-2-butenoate	6372-01-6	414.15	35.701	1,2	4750	C5H8	bicyclo(2.1.0)pentane	185-94-4	318.65	26.774	1,2
4628	C5H7ClO2	allyl chloroacetate	2916-14-5	418.25	36.088	1,2	4751	C5H8	1,3-pentadiene; (cis+trans)	504-60-9	315.05	25.792	1,2
4629	C5H7ClO2	3-butenyl chloroformate	88986-45-2	420.65	36.315	2	4755	C5H8BrF3	1-bromo-2-methyl-4,4,4-trifluorobutane	203302-90-3	389.15	33.344	1,2
4630	C5H7ClO2	3-chloro-2,4-pentanedione	1694-29-7	420.65	36.315	2	4758	C5H8Br2O2	2,3-dibromopentanoic acid	79912-57-5	481.90	42.148	2
4631	C5H7ClO3	2-(acetyloxy)propanoyl chloride, (±)	55057-45-9	423.15	36.552	2	4759	C5H8Br2O2	2,5-dibromopentanoic acid	1450-81-3	481.90	42.148	2
4632	C5H7ClO3	(S)-(-)-2-acetoxypropionyl chloride	36394-75-9	416.65	35.937	2	4760	C5H8Br2O2	ethyl 2,3-dibromopropanoate	3674-13-3	487.65	42.699	1,2
4633	C5H7ClO3	ethyl 3-chloro-3-oxopropionate	36239-09-5	416.65	35.937	2	4761	C5H8Br2O2	methyl 2,3-dibromo-2-methylpropanoate	3673-79-8	476.15	41.597	1,2
4634	C5H7ClO3	methyl 4-chloroacetoacetate	32807-28-6	416.65	35.937	2	4762	C5H8Br2O2	methyl 3-bromo-2-(bromomethyl)propionate	22262-60-8	481.90	42.148	2
4635	C5H7ClO3	methyl 2-chloroacetoacetate	4755-81-1	410.15	35.323	1,2	4764	C5H8Br4	1,3-dibromo-2,2-bis(bromomethyl)propane	3229-00-3	578.65	51.490	1,2
4636	C5H7ClO3	methyl succinyl chloride	1490-25-1	416.65	35.937	2	4765	C5H8ClFO2	propyl chlorofluoroacetate	348-70-9	420.15	36.268	1,2
4641	C5H7Cl2N2O3P	cytoxyl amine	3308-51-8	345.15	29.230	1,2	4770	C5H8Cl2	3-chloro-2-(chloromethyl)-1-butene	69295-21-2	428.15	37.026	1,2
4643	C5H7Cl3O2	isopropyl trichloroacetate	3974-99-0	448.15	38.925	1,2	4771	C5H8Cl2	1,3-dichloro-2-methyl-2-butene	25148-87-2	423.15	36.552	1,2
4644	C5H7Cl3O2	propyl trichloroacetate	13313-91-2	460.15	40.069	1,2	4772	C5H8Cl2	1,4-dichloro-2-methyl-2-butene	29843-58-1	425.15	36.741	2
4650	C5H7F3O2	propyl trifluoroacetate	383-66-4	355.65	30.207	1,2	4773	C5H8Cl2	3,3-dichloro-2-methyl-1-butene	42101-38-2	425.15	36.741	2
4651	C5H7F3O2	isopropyl trifluoroacetate	400-38-4	346.15	29.323	1,2	4774	C5H8Cl2	2,5-dichloro-2-pentene	20177-02-0	424.15	36.647	1,2
4652	C5H7F3O2	ethyl-2,2,3-trifluoro propionate	28781-86-4	350.90	29.765	2	4775	C5H8Cl2N2O	3,4-dichloronitrosopiperidine	57541-72-7	317.75	26.691	1,2
4658	C5H7N	N-methylpyrrole	96-54-8	385.89	35.067	1,2	4776	C5H8Cl2N2O2	1-acetyl-3-(2,2-dichloroethyl)urea	69225-98-5	295.80	24.671	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
4777	C5H8Cl2O	2-chloro-3-methylbutanoyl chloride	35383-59-6	421.65	36.410	1,2	4870	C5H8O	1,4-pentadien-3-ol	922-65-6	388.65	33.297	1,2
4778	C5H8Cl2O	2-chloropentanoyl chloride	61589-68-2	429.15	37.121	1,2	4871	C5H8O	trans-3-penten-2-one	3102-33-8	395.15	33.908	1,2
4779	C5H8Cl2O	5-chloropentanoyl chloride	1575-61-7	423.30	36.566	2	4872	C5H8O	1-penten-3-one	1629-58-9	376.15	32.124	1,2
4780	C5H8Cl2O	3,5-dichloro-2-pentanone	58371-98-5	458.15	39.878	1,2	4873	C5H8O	2,3-dihydro-5-methylfuran	1487-15-6	354.90	30.138	1,2
4781	C5H8Cl2O	3,3-bis(chloromethyl)oxetane	78-71-7	471.15	41.119	1,2	4874	C5H8O	2-ethylacrolein	922-63-4	365.65	31.141	1,2
4782	C5H8Cl2O	3-chloro-2,2-dimethylpropionyl chloride	4300-97-4	358.15	30.441	1,2	4875	C5H8O	2-methyl-2-vinyloxirane	1838-94-4	353.15	29.974	1,2
4783	C5H8Cl2O	2,2-dichloropentanal	41718-50-7	413.65	35.653	1,2	4876	C5H8O	trans-2-pentenal	1576-87-0	393.15	33.720	1,2
4784	C5H8Cl2O	3,3-dichloro-2-pentanone	57856-10-7	411.20	35.422	1,2	4877	C5H8O	3-penten-2-one	625-33-2	395.65	33.956	1,2
4785	C5H8Cl2O2	1,3-dichloro-2-propanol acetate	3674-10-0	478.15	41.789	1,2	4878	C5H8O	(±)-4-pentyn-2-ol	2117-11-5	399.65	34.332	1,2
4786	C5H8Cl2O2	ethyl 2,3-dichloropropanoate	6628-21-3	456.65	39.735	1,2	4879	C5H8O	cyclopenten-1-ol	3212-60-0	380.48	32.530	2
4787	C5H8Cl2O2	isopropyl dichloroacetate	25006-60-4	436.65	37.832	1,2	4880	C5H8O	2-pentenal	764-39-6	397.00	34.083	1,2
4788	C5H8Cl2O2	methyl 3,4-dichlorobutanoate	819-93-2	457.15	39.783	2	4882	C5H8O2	acetylacetone	123-54-6	413.55	40.828	1,2
4789	C5H8Cl2O2	4-chlorobutyl chloroformate	37693-18-8	457.15	39.783	2	4883	C5H8O2	allyl acetate	591-87-7	377.15	33.531	1,2
4790	C5H8Cl2O2	1-chloro-2-methylpropyl chloroformate	92600-11-8	457.15	39.783	2	4884	C5H8O2	isopropenyl acetate	108-22-5	367.15	32.147	1,2
4791	C5H8Cl2O2	3,3-dichloro-2-hydroxytetrahydropyran	---	457.15	39.783	2	4885	C5H8O2	vinyl propionate	105-38-4	364.35	32.760	1,2
4792	C5H8Cl2O2	3,3-dichloro-2-methoxytetrahydrofuran	---	457.15	39.783	2	4886	C5H8O2	methyl cis-2-butenoate	4358-59-2	391.15	33.532	1,2
4793	C5H8Cl2O2	2,2-dichloropentanoic acid	18240-68-1	457.15	39.783	2	4887	C5H8O2	methyl trans-2-butenoate	623-43-8	394.15	33.814	1,2
4794	C5H8Cl2O2	3,3'-dichloropivalic acid	67329-11-7	457.15	39.783	2	4888	C5H8O2	ethyl acrylate	140-88-5	372.65	33.725	1,2
4795	C5H8Cl2O3	bis(2-chloroethyl) carbonate	623-97-2	514.15	45.245	1,2	4889	C5H8O2	methyl methacrylate	80-62-6	373.45	34.305	1,2
4796	C5H8Cl2S3	trithiocarbonic acid bis(2-chloroethyl) ester	63938-92-1	295.80	24.671	1,2	4890	C5H8O2	2-methylenebutanoic acid	3586-58-1	453.15	41.202	1,2
4797	C5H8Cl4	2,2-bis(chloromethyl)-1,3-dichloropropane	3228-99-7	485.00	42.445	2	4891	C5H8O2	trans-2-methyl-2-butenoic acid	80-59-1	471.65	42.622	1,2
4798	C5H8Cl4	1,1,1,5-tetrachloropentane	2467-10-9	485.00	42.445	2	4892	C5H8O2	cis-2-methyl-2-butenoic acid	565-63-9	458.15	41.347	1,2
4799	C5H8Cl8N4	tetrakis-(N,N-dichloroaminomethyl)methane	---	380.40	32.522	1,2	4893	C5H8O2	2-methyl-3-butenoic acid	53774-20-2	450.00	40.626	2
4800	C5H8FN	5-fluorovaleronitrile	353-13-9	431.15	37.310	1,2	4894	C5H8O2	3-methyl-2-butenoic acid	541-47-9	468.15	42.292	1,2
4801	C5H8FNO	2-cyano-2'-fluorodiethyl ether	353-18-4	435.15	37.690	2	4895	C5H8O2	3-methyl-3-butenoic acid	1617-31-8	450.00	40.677	2
4802	C5H8FNO	3-fluorobutyl isocyanate	353-16-2	435.15	37.690	1,2	4896	C5H8O2	trans-2-pentenoic acid	13991-37-2	473.15	43.105	1,2
4805	C5H8F3NO	5-methyl-2-trifluoromethyloxazolidine	31185-56-5	396.15	34.003	1,2	4897	C5H8O2	cis-2-pentenoic acid	16666-42-5	458.15	41.677	1,2
4806	C5H8F4O	2-methyl-3,3,4,5-tetrafluoro-2-butanol	29553-26-2	390.15	33.438	1,2	4898	C5H8O2	trans-3-pentenoic acid	1617-32-9	466.15	42.439	1,2
4807	C5H8I4	2,2-bis(iodomethyl)-1,3-diiodopropane	1522-88-9	677.00	61.125	1,2	4899	C5H8O2	cis-3-pentenoic acid	33698-87-2	392.15	35.420	1,2
4810	C5H8N2	1,2-dimethyl-1H-imidazole	1739-84-0	479.15	41.884	1,2	4900	C5H8O2	4-pentenoic acid	591-80-0	461.15	42.066	1,2
4811	C5H8N2	1,4-dimethyl-1H-imidazole	6338-45-0	472.15	41.215	1,2	4901	C5H8O2	cyclobutanecarboxylic acid	3721-95-7	463.15	40.355	1,2
4812	C5H8N2	2,4-dimethylimidazole	930-62-1	540.15	47.755	1,2	4902	C5H8O2	dihydro-3-methyl-2(3H)-furanone	1679-47-6	473.15	41.310	1,2
4813	C5H8N2	1,3-dimethyl-1H-pyrazole	694-48-4	410.15	35.323	1,2	4903	C5H8O2	dihydro-5-methyl-2(3H)-furanone, (±)	57129-69-8	479.15	41.884	1,2
4814	C5H8N2	1,5-dimethyl-1H-pyrazole	694-31-5	422.15	36.457	1,2	4904	C5H8O2	4-methyl-gamma-butyrolactone	108-29-2	426.91	36.908	2
4815	C5H8N2	3,4-dimethyl-1H-pyrazole	2820-37-3	463.97	40.434	2	4905	C5H8O2	2-methylcyclopropanecarboxylic acid	29555-02-0	464.15	40.451	1,2
4816	C5H8N2	3,5-dimethyl-1H-pyrazole	67-51-6	491.15	43.034	1,2	4906	C5H8O2	methyl cyclopropanecarboxylate	2868-37-3	388.05	33.241	1,2
4817	C5H8N2	1-ethyl-1H-pyrazole	2817-71-2	412.15	35.512	1,2	4907	C5H8O2	2-oxopentanal	7332-93-6	385.15	32.968	1,2
4818	C5H8N2	1-ethyl-1H-imidazole	7098-07-9	481.15	42.076	1,2	4908	C5H8O2	4-oxopentanal	626-96-0	460.15	40.069	2
4819	C5H8N2	trans-3-(dimethylamino)acrylonitrile	35520-41-3	463.97	40.434	2	4909	C5H8O2	pentanedial	111-30-8	461.15	40.164	2
4820	C5H8N2	2-ethylimidazole	1072-62-4	541.15	47.852	1,2	4910	C5H8O2	2,3-pentanedione	600-14-6	381.15	32.593	1,2
4821	C5H8N2	1-pyrrolidinecarbonitrile	1530-88-7	463.97	40.434	2	4911	C5H8O2	tetrahydro-2-furancarboxaldehyde	7681-84-7	415.15	35.795	1,2
4822	C5H8N2	1-(2-cyanoethyl)aziridine	1072-66-8	463.97	40.434	2	4912	C5H8O2	tetrahydro-2H-pyran-2-one	542-28-9	492.15	43.130	1,2
4823	C5H8N2	3-dimethylaminoacrylonitrile	2407-68-3	360.15	30.627	1,2	4913	C5H8O2	tetrahydro-4H-pyran-4-one	29943-42-8	439.65	38.117	1,2
4824	C5H8N2	1,5-dimethylimidazole	10447-93-5	494.20	43.327	1,2	4914	C5H8O2	cis-4,7-dihydro-1,3-dioxepin	5417-32-3	399.15	34.285	1,2
4825	C5H8N2O	1H-imidazole-1-ethanol	1615-14-1	421.90	36.434	2	4915	C5H8O2	4,5-dihydro-2-methyl-3(2H)-furanone	3188-00-9	412.15	35.512	1,2
4826	C5H8N2O	2,4-dihydro-2,5-dimethyl-3H-pyrazol-3-one	2749-59-9	378.15	32.311	1,2	4916	C5H8O2	trans-4-methoxy-3-buten-2-one	51731-17-0	473.15	41.310	1,2
4827	C5H8N2O	4-morpholinecarbonitrile	1530-89-8	421.90	36.434	2	4917	C5H8O2	4-methoxybut-3-en-2-one	4652-27-1	473.15	41.310	1,2
4828	C5H8N2O	bisethyleneurea	1192-75-2	421.90	36.434	2	4918	C5H8O2	methyl 3-butenoate	3724-55-8	385.15	38.340	1,2
4829	C5H8N2O	N-nitroso-1,2,3,4-tetrahydropyridine	70501-82-5	421.90	36.434	2	4919	C5H8O2	1-methylcyclopropanecarboxylic acid	6914-76-7	457.25	39.792	1,2
4830	C5H8N2O	N-nitroso-1,2,3,6-tetrahydropyridine	55556-92-8	465.65	40.594	1,2	4920	C5H8O2	pivalolactone	1955-45-9	331.15	27.930	1,2
4832	C5H8N2O2	ethyl 2-diazopropanonate	6111-99-5	392.15	33.626	2	4921	C5H8O2	2-vinyl-1,3-dioxolane	3984-22-3	389.30	33.358	1,2
4834	C5H8N2O2	N-nitroso-3,4-epoxypiperidine	71785-87-0	392.15	33.626	2	4922	C5H8O2	4-hydroxy-3-penten-2-one	1522-20-9	426.91	36.908	2
4835	C5H8N2O2	nitroso-4-piperidone	55556-91-7	392.15	33.626	1,2	4923	C5H8O2	trans-1,2,3,4-diepoxycyclohexane	277-06-5	426.91	36.908	2
4838	C5H8N2O4	trans-4-hydroxy-1-nitroso-L-proline	30310-80-6	411.15	35.417	1,2	4924	C5H8O2	1,2,3,4-diepoxy-2-methylbutane	6341-85-1	458.15	39.878	1,2
4844	C5H8N4O3	3-hydroxy-4-(nitrosocyanamido)butyramide	100700-12-8	391.05	33.523	1,2	4925	C5H8O2	1,2,4,5-diepoxypentane	4051-27-8	367.15	31.281	1,2
4845	C5H8N4O12	pentaerythritol tetranitrate	78-11-5	543.00	70.020	1,2	4927	C5H8O3	2-hydroxyethyl acrylate	818-61-1	484.00	53.893	1,2
4846	C5H8N6O	3,3-bis(azidomethyl)oxetane	17607-20-4	353.15	29.974	1,2	4928	C5H8O3	levulinic acid	123-76-2	518.95	52.639	1,2
4847	C5H8N6O	5-(3-methyl-1-triazeno)imidazole-4-carboxami*	3413-72-7	477.15	41.693	2	4929	C5H8O3	methyl acetoacetate	105-45-3	444.85	43.125	1,2
4848	C5H8O	cyclopentanone	120-92-3	403.80	37.620	1,2	4930	C5H8O3	1-(acetyloxy)-2-propanone	592-20-1	444.15	38.545	1,2
4849	C5H8O	methyl isopropenyl ketone	814-78-8	371.15	32.655	1,2	4931	C5H8O3	ethyl 2-oxopropanoate	617-35-6	428.15	37.026	1,2
4850	C5H8O	allyl vinyl ether	3917-15-5	339.15	28.672	1,2	4932	C5H8O3	3-methyl-2-oxobutanoic acid	759-05-7	443.65	38.497	1,2
4851	C5H8O	cyclopropyl methyl ketone	765-43-5	384.45	32.903	1,2	4933	C5H8O3	2-oxopentanoic acid	1821-02-9	452.15	39.306	1,2
4852	C5H8O	3,4-dihydro-2H-pyran	110-87-2	359.15	30.534	1,2	4934	C5H8O3	tetrahydro-2-furancarboxylic acid	16874-33-2	464.30	40.465	2
4853	C5H8O	1-ethoxy-1-propyne	14273-06-4	357.15	30.347	1,2	4935	C5H8O3	allyl methyl carbonate	35466-83-2	464.30	40.465	2
4854	C5H8O	3-ethoxy-1-propyne	628-33-1	355.15	30.161	1,2	4936	C5H8O3	(S)-(+)-dihydro-5-(hydroxymethyl)-2(3H)-fura*	32780-06-6	464.30	40.465	2
4855	C5H8O	1-(ethynyloxy)propane	42842-08-0	348.15	29.509	1,2	4937	C5H8O3	(R)-(-)-dihydro-5-(hydroxymethyl)-2(3H)-fura*	52813-63-5	464.30	40.465	2
4856	C5H8O	6-oxabicyclo[3.1.0]hexane	285-67-6	375.15	32.030	1,2	4938	C5H8O3	4-ethyl-1,3-dioxolan-2-one	4437-85-8	464.30	40.465	2
4857	C5H8O	4-methoxy-1,2-butadiene	36678-06-5	361.15	30.721	1,2	4939	C5H8O3	methyl 3-methoxyacrylate	34846-90-7	442.15	38.355	1,2
4858	C5H8O	1-methoxy-1,3-butadiene	3036-66-6	364.65	31.048	1,2	4940	C5H8O3	methyl trans-3-methoxyacrylate	5788-17-0	464.30	40.465	2
4859	C5H8O	2-methoxy-1,3-butadiene	3588-30-5	348.15	29.509	1,2	4941	C5H8O3	methyl 2-methylglycidate	58653-97-7	464.30	40.465	2
4860	C5H8O	1-methoxy-2-butyne	2768-41-4	372.65	31.796	1,2	4942	C5H8O3	(R)-(+)-tetrahydro-2-furoic acid	87392-05-0	464.30	40.465	2
4861	C5H8O	trans-2-methyl-2-butenal	497-03-0	390.15	33.438	1,2	4943	C5H8O3	(S)-(-)-tetrahydro-2-furoic acid	87392-07-2	520.65	45.872	1,2
4862	C5H8O	2-methyl-2-butenal	1115-11-3	390.15	33.438	1,2	4944	C5H8O3	tetrahydro-3-furoic acid	89364-31-8	464.30	40.465	2
4863	C5H8O	3-methyl-2-butenal	107-86-8	407.15	35.039	1,2	4945	C5H8O4	glutaric acid	110-94-1	595.54	72.802	1,2
4864	C5H8O	4-pentenal	2100-17-6	372.15	31.749	1,2	4946	C5H8O4	2-(acetyloxy)propanoic acid, (±)	3853-80-3	443.90	38.521	2
4865	C5H8O	2-methyl-3-butyn-2-ol	115-19-5	377.15	32.218	1,2	4947	C5H8O4	dimethyl malonate	108-59-8	454.55	39.535	1,2
4866	C5H8O	2-pentyn-1-ol	6261-22-9	427.15	36.931	1,2	4948	C5H8O4	dimethylmalonic acid	595-46-0	443.90	38.521	2
4867	C5H8O	3-pentyn-1-ol	10229-10-4	427.15	36.931	1,2	4949	C5H8O4	ethylpropanedioic acid	601-75-2	443.90	38.521	2
4868	C5H8O	4-pentyn-1-ol	5390-04-5	427.15	36.931	1,2	4950	C5H8O4	methyl ethyl oxalate	615-52-1	446.85	38.802	1,2
4869	C5H8O	1-pentyn-3-ol	4187-86-4	398.15	34.191	1,2	4951	C5H8O4	methyl hydrogen succinate	3878-55-5	443.90	38.521	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
4952	C5H8O4	(S)-(-)-2-acetoxypropionic acid	6034-46-4	443.90	38.521	2	5038	C5H9Cl	5-chloro-trans-2-pentene	10524-07-9	381.15	32.740	1,2
4953	C5H8O4	(S)-(-)-4-(methoxymethyl)-1,3-dioxolan-2-one	135682-18-7	443.90	38.521	2	5039	C5H9Cl	cis-1-chloro-2-methyl-1-butene	7611-88-3	363.15	30.884	1,2
4954	C5H8O4	methylene diacetate	628-51-3	437.65	37.927	1,2	5040	C5H9Cl	trans-1-chloro-2-methyl-1-butene	7611-89-4	363.15	30.884	1,2
4955	C5H8O4	methylsuccinic acid	498-21-5	380.65	32.546	1,2	5041	C5H9Cl	3-chloro-2-methyl-1-butene	5166-35-8	366.95	31.022	1,2
4956	C5H8O4	a-acetoxypropionic acid	535-17-1	443.90	38.521	2	5042	C5H9Cl	4-chloro-2-methyl-1-butene	10523-96-3	375.15	32.030	1,2
4957	C5H8O4	1,2-propanediol diformate	53818-14-7	348.15	29.509	1,2	5043	C5H9Cl	cis-1-chloro-3-methyl-1-butene	66213-67-0	366.15	31.114	1,2
4962	C5H8Si	1-methylsilacyclopenta-2,4-diene	---	404.15	34.756	1,2	5044	C5H9Cl	trans-1-chloro-3-methyl-1-butene	66213-68-1	366.15	31.114	1,2
4964	C5H9Br	cis-1-bromo-1-pentene	31849-75-9	388.15	34.370	1,2	5045	C5H9Cl	2-chloro-3-methyl-1-butene	17773-64-7	363.15	30.685	1,2
4965	C5H9Br	trans-1-bromo-1-pentene	31849-76-0	388.15	34.370	1,2	5046	C5H9Cl	3-chloro-3-methyl-1-butene	2190-48-9	353.15	29.477	1,2
4966	C5H9Br	2-bromo-1-pentene	31844-95-8	381.15	33.538	1,2	5047	C5H9Cl	4-chloro-3-methyl-1-butene	10524-01-3	365.15	31.098	1,2
4967	C5H9Br	3-bromo-1-pentene	53045-71-9	383.15	33.681	1,2	5048	C5H9Cl	1-chloro-2-methyl-cis-2-butene	23009-74-7	381.15	32.491	1,2
4968	C5H9Br	4-bromo-1-pentene	31950-56-8	384.15	33.773	1,2	5049	C5H9Cl	1-chloro-2-methyl-trans-2-butene	23009-73-6	378.15	32.223	1,2
4969	C5H9Br	5-bromo-1-pentene	1119-51-3	401.15	35.662	1,2	5050	C5H9Cl	1-chloro-3-methyl-2-butene	503-60-6	383.15	32.670	1,2
4970	C5H9Br	1-bromo-cis-2-pentene	7348-78-9	396.15	35.112	1,2	5051	C5H9Cl	2-chloro-3-methyl-2-butene	17773-65-8	367.15	31.005	1,2
4971	C5H9Br	1-bromo-trans-2-pentene	7348-71-2	396.15	35.112	1,2	5052	C5H9Cl	3-chloro-2-ethyl-1-propene	---	363.15	30.956	1,2
4972	C5H9Br	2-bromo-cis-2-pentene	54653-29-1	385.15	33.826	1,2	5053	C5H9Cl	1-chloro-2-methyl-1-butene	23378-11-2	369.65	31.552	1,2
4973	C5H9Br	2-bromo-trans-2-pentene	54653-30-4	385.15	33.826	1,2	5054	C5H9Cl	1-chloro-2-methyl-2-butene	13417-43-1	383.15	35.875	1,2
4974	C5H9Br	3-bromo-cis-2-pentene	23068-94-2	383.15	33.642	1,2	5055	C5H9Cl	1-chloro-3-methyl-1-butene	23010-00-6	360.15	28.940	1,2
4975	C5H9Br	3-bromo-trans-2-pentene	54653-28-0	383.15	33.642	1,2	5056	C5H9Cl	1-chloro-2-pentene	10071-60-0	381.15	35.183	1,2
4976	C5H9Br	4-bromo-cis-2-pentene	56535-63-8	389.65	34.198	1,2	5057	C5H9Cl	2-chloro-2-pentene	67747-70-0	369.15	31.406	1,2
4977	C5H9Br	4-bromo-trans-2-pentene	23068-95-3	389.65	34.198	1,2	5058	C5H9Cl	3-chloro-2-pentene	34238-52-3	364.15	30.002	1,2
4978	C5H9Br	5-bromo-cis-2-pentene	50273-84-2	398.15	35.298	1,2	5059	C5H9Cl	4-chloro-2-pentene	1458-99-7	376.15	33.534	1,2
4979	C5H9Br	5-bromo-trans-2-pentene	7515-62-0	398.15	35.298	1,2	5060	C5H9Cl	5-chloro-2-pentene	16435-50-0	381.15	35.183	1,2
4980	C5H9Br	cis-1-bromo-2-methyl-1-butene	36668-55-0	390.15	34.286	1,2	5061	C5H9Cl	chlorocyclopentane	930-28-9	387.15	33.156	1,2
4981	C5H9Br	trans-1-bromo-2-methyl-1-butene	54265-17-7	390.15	34.286	1,2	5066	C5H9ClO	3-chloro-3-methyl-2-butanone	5950-19-6	390.35	33.457	1,2
4982	C5H9Br	3-bromo-2-methyl-1-butene	51872-48-1	376.08	32.774	2	5067	C5H9ClO	1-chloro-3-pentanone	32830-97-0	396.53	34.038	2
4983	C5H9Br	4-bromo-2-methyl-1-butene	20038-12-4	376.52	33.111	2	5068	C5H9ClO	5-chloro-2-pentanone	5891-21-4	396.53	34.038	2
4984	C5H9Br	cis-1-bromo-3-methyl-1-butene	16416-44-7	383.15	33.600	1,2	5069	C5H9ClO	2-methylbutanoyl chloride, (±)	57526-28-0	389.15	33.344	1,2
4985	C5H9Br	trans-1-bromo-3-methyl-1-butene	16416-41-4	383.15	33.600	1,2	5070	C5H9ClO	3-methylbutanoyl chloride	108-12-3	387.15	33.156	1,2
4986	C5H9Br	2-bromo-3-methyl-1-butene	31844-96-9	374.15	32.598	1,2	5071	C5H9ClO	2,2-dimethylpropanoyl chloride	3282-30-2	380.15	32.499	1,2
4987	C5H9Br	3-bromo-3-methyl-1-butene	865-58-7	373.41	32.169	2	5072	C5H9ClO	pentanoyl chloride	638-29-9	382.15	32.687	1,2
4988	C5H9Br	4-bromo-3-methyl-1-butene	31950-55-7	376.20	33.041	2	5073	C5H9ClO	4-chlorotetrahydropyran	1768-64-5	423.15	36.552	1,2
4989	C5H9Br	1-bromo-2-methyl-cis-2-butene	57253-29-9	397.15	34.930	1,2	5074	C5H9ClO	tetrahydrofurfuryl chloride	3003-84-7	423.60	36.595	1,2
4990	C5H9Br	1-bromo-2-methyl-trans-2-butene	57253-30-2	397.15	34.930	1,2	5075	C5H9ClOS	3-chloropropyl thiolacetate	13012-54-9	356.65	30.301	1,2
4991	C5H9Br	1-bromo-3-methyl-2-butene	870-63-3	384.00	33.720	2	5076	C5H9ClO2	butyl chloroformate	592-34-7	415.15	35.795	1,2
4992	C5H9Br	2-bromo-3-methyl-2-butene	3017-70-7	391.15	34.112	1,2	5077	C5H9ClO2	3-chloro-2,2-dimethylpropanoic acid	13511-38-1	440.14	38.163	2
4993	C5H9Br	3-bromo-2-ethyl-1-propene	---	376.52	33.111	2	5078	C5H9ClO2	2-chloro-2-methylbutanoic acid	73758-54-0	473.15	41.310	2
4994	C5H9Br	bromocyclopentane	137-43-9	410.65	35.370	1,2	5079	C5H9ClO2	2-chloro-3-methylbutanoic acid	921-08-4	483.15	42.268	1,2
4995	C5H9Br	1-bromo-1-pentene	60468-23-7	392.15	36.640	1,2	5080	C5H9ClO2	2-chloropentanoic acid, (±)	94347-45-2	495.15	43.418	1,2
4996	C5H9Br	1-bromo-2-pentene	20599-27-3	396.65	38.184	1,2	5081	C5H9ClO2	3-chloropentanoic acid	51637-47-9	440.14	38.163	2
4997	C5H9Br	2-bromo-2-pentene	80204-19-9	383.15	33.811	1,2	5082	C5H9ClO2	4-chloropentanoic acid	32607-54-8	440.14	38.163	2
4998	C5H9Br	3-bromo-2-pentene	21964-23-8	389.15	35.661	1,2	5083	C5H9ClO2	5-chloropentanoic acid	1119-46-6	503.15	44.187	1,2
4999	C5H9Br	4-bromo-2-pentene	1809-26-3	391.15	36.310	1,2	5084	C5H9ClO2	3-chloro-1-propanol acetate	628-09-1	437.15	37.880	1,2
5000	C5H9Br	5-bromo-2-pentene	51952-42-2	388.08	35.320	2	5085	C5H9ClO2	1-chloro-2-propanol acetate	623-60-9	422.65	36.505	1,2
5001	C5H9Br	(bromomethyl)cyclobutane	17247-58-4	396.65	34.050	1,2	5086	C5H9ClO2	ethyl 2-chloropropanoate	535-13-7	420.15	36.268	1,2
5002	C5H9BrO	2-(bromomethyl)tetrahydrofuran	1192-30-9	443.15	38.450	1,2	5087	C5H9ClO2	ethyl 3-chloropropanoate	623-71-2	435.15	37.690	1,2
5003	C5H9BrO2	2-bromo-3-methylbutanoic acid, (±)	10323-40-7	503.15	44.187	2	5088	C5H9ClO2	isobutyl chlorocarbonate	543-27-1	401.95	34.549	1,2
5004	C5H9BrO2	3-bromo-3-methylbutanoic acid	5798-88-9	463.08	40.348	2	5089	C5H9ClO2	isopropyl chloroacetate	105-48-6	423.65	36.599	1,2
5005	C5H9BrO2	2-bromopentanoic acid, (±)	2681-92-7	463.08	40.348	2	5090	C5H9ClO2	methyl 2-chlorobutanoate	26464-32-4	419.15	36.173	1,2
5006	C5H9BrO2	ethyl 2-bromopropanoate	535-11-5	433.15	37.500	2	5091	C5H9ClO2	methyl 4-chlorobutanoate	3153-37-5	447.15	38.830	1,2
5007	C5H9BrO2	ethyl 3-bromopropanoate	539-74-2	452.15	39.306	1,2	5092	C5H9ClO2	methyl 2-chloro-2-methylpropanoate	22421-97-2	408.15	35.134	1,2
5008	C5H9BrO2	methyl 2-bromobutanoate	3196-15-4	441.15	38.260	1,2	5093	C5H9ClO2	propyl chloroacetate	5396-24-7	434.15	37.595	1,2
5009	C5H9BrO2	methyl 4-bromobutanoate	4897-84-1	459.65	40.021	1,2	5094	C5H9ClO2	chloromethyl butyrate	33657-49-7	423.15	36.552	1,2
5010	C5H9BrO2	propyl bromoacetate	35223-80-4	449.15	39.021	1,2	5100	C5H9Cl3	1,1,1-trichloropentane	3922-27-8	430.15	37.385	1,2
5011	C5H9BrO2	2-(2-bromoethyl)-1,3-dioxolane	18742-02-4	463.08	40.348	2	5101	C5H9Cl3	1,2,3-trichloro-2-methylbutane	62521-69-1	457.15	39.783	1,2
5012	C5H9BrO2	a-bromoisovaleric acid	565-74-2	503.15	44.187	1,2	5102	C5H9Cl3	2,2,3-trichloro-3-methylbutane	98070-91-8	455.65	39.640	1,2
5013	C5H9BrO2	(S)-(-)-2-bromo-3-methylbutyric acid	26782-75-2	463.08	40.348	2	5103	C5H9Cl3	1,3-dichloro-2-(chloromethyl)-2-methylpropane	1067-09-0	447.65	38.878	2
5014	C5H9BrO2	(R)-(+)-2-bromo-3-methylbutyric acid	76792-22-8	463.08	40.348	2	5104	C5H9Cl3N4Si	5-trichloromethyl-1-trimethylsilyltetrazole	72385-44-5	263.15	21.692	1,2
5015	C5H9BrO2	5-bromovaleric acid	2067-33-6	463.08	40.348	2	5106	C5H9Cl3Si	trichlorocyclopentylsilane	14579-03-4	452.65	39.354	1,2
5016	C5H9BrO2	2-bromovaleric acid	584-93-0	463.08	40.348	2	5109	C5H9F	cis-1-fluoro-1-pentene	66213-83-0	317.23	26.980	2
5017	C5H9BrO2	isopropyl bromoacetate	29921-57-1	463.08	40.348	2	5110	C5H9F	trans-1-fluoro-1-pentene	66213-84-1	317.23	26.980	2
5018	C5H9BrO2	dl-methyl 2-bromobutyrate	69043-96-5	463.08	40.348	2	5111	C5H9F	2-fluoro-1-pentene	66213-89-6	309.63	26.163	2
5019	C5H9BrO2	methyl (R)-(+)-3-bromo-2-methylpropionate	110556-33-7	463.08	40.348	2	5112	C5H9F	3-fluoro-1-pentene	66702-88-3	309.31	26.103	2
5020	C5H9BrO2	(-)-methyl (S)-3-bromo-2-methylpropionate	98190-85-3	463.08	40.348	2	5113	C5H9F	4-fluoro-1-pentene	66702-91-8	309.31	26.103	2
5022	C5H9Br3	1,1,1-tribromopentane	16644-66-9	503.15	48.238	1,2	5114	C5H9F	5-fluoro-1-pentene	407-79-4	335.15	28.650	1,2
5023	C5H9Cl	cis-1-chloro-1-pentene	66213-69-2	361.65	30.986	1,2	5115	C5H9F	1-fluoro-cis-2-pentene	66213-85-2	317.23	26.980	2
5024	C5H9Cl	trans-1-chloro-1-pentene	66213-70-5	361.65	30.986	1,2	5116	C5H9F	1-fluoro-trans-2-pentene	66213-86-3	317.23	26.980	2
5025	C5H9Cl	2-chloro-1-pentene	42131-85-1	361.15	30.778	1,2	5117	C5H9F	2-fluoro-cis-2-pentene	66213-87-4	317.11	26.763	2
5026	C5H9Cl	3-chloro-1-pentene	24356-00-1	366.15	31.187	1,2	5118	C5H9F	2-fluoro-trans-2-pentene	66213-88-5	317.11	26.763	2
5027	C5H9Cl	4-chloro-1-pentene	10524-08-0	370.15	31.544	1,2	5119	C5H9F	3-fluoro-cis-2-pentene	66213-90-9	317.11	26.763	2
5028	C5H9Cl	5-chloro-1-pentene	928-50-7	376.15	32.367	1,2	5120	C5H9F	3-fluoro-trans-2-pentene	66702-87-2	317.11	26.763	2
5029	C5H9Cl	1-chloro-cis-2-pentene	6261-19-4	382.15	32.830	1,2	5121	C5H9F	4-fluoro-cis-2-pentene	66702-89-4	316.79	26.702	2
5030	C5H9Cl	1-chloro-trans-2-pentene	6261-25-2	383.15	32.920	1,2	5122	C5H9F	4-fluoro-trans-2-pentene	66702-90-7	316.79	26.702	2
5031	C5H9Cl	2-chloro-cis-2-pentene	42131-98-6	365.15	31.062	1,2	5123	C5H9F	5-fluoro-cis-2-pentene	66702-92-9	317.23	26.980	2
5032	C5H9Cl	2-chloro-trans-2-pentene	42132-00-3	365.15	31.062	1,2	5124	C5H9F	5-fluoro-trans-2-pentene	66702-93-0	317.23	26.980	2
5033	C5H9Cl	3-chloro-cis-2-pentene	26423-60-9	363.15	30.884	1,2	5125	C5H9F	cis-1-fluoro-2-methyl-1-butene	66213-72-7	317.11	26.763	2
5034	C5H9Cl	3-chloro-trans-2-pentene	26423-61-0	363.15	30.884	1,2	5126	C5H9F	trans-1-fluoro-2-methyl-1-butene	66213-74-9	317.11	26.763	2
5035	C5H9Cl	4-chloro-cis-2-pentene	26423-63-2	370.15	31.470	1,2	5127	C5H9F	3-fluoro-2-methyl-1-butene	53731-24-1	309.19	25.894	2
5036	C5H9Cl	4-chloro-trans-2-pentene	18610-33-8	370.15	31.470	1,2	5128	C5H9F	4-fluoro-2-methyl-1-butene	66213-81-8	309.63	26.163	2
5037	C5H9Cl	5-chloro-cis-2-pentene	53543-44-5	381.15	32.740	1,2	5129	C5H9F	cis-1-fluoro-3-methyl-1-butene	66213-73-8	316.79	26.702	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
5130	C5H9F	trans-1-fluoro-3-methyl-1-butene	66213-75-0	316.79	26.702	2	5213	C5H9NO	1-formylpyrrolidine	3760-54-1	368.15	31.375	1,2
5131	C5H9F	2-fluoro-3-methyl-1-butene	66213-78-3	309.19	25.894	2	5214	C5H9NO	N-methyl-N-vinylacetamide	3195-78-6	439.65	38.117	1,2
5132	C5H9F	3-fluoro-3-methyl-1-butene	66213-80-7	306.52	25.380	2	5215	C5H9NO	methyl-2-pyrrolidinone	51013-18-4	444.47	38.576	2
5133	C5H9F	4-fluoro-3-methyl-1-butene	66213-82-9	309.31	26.103	2	5216	C5H9NO	senecioic acid amide	4479-75-8	444.47	38.576	2
5134	C5H9F	1-fluoro-2-methyl-cis-2-butene	66213-76-1	317.11	26.763	2	5218	C5H9NO2	N-acetyl-N-methylacetamide	1113-68-4	468.15	40.833	1,2
5135	C5H9F	1-fluoro-2-methyl-trans-2-butene	66213-77-2	317.11	26.763	2	5219	C5H9NO2	4-morpholinecarboxaldehyde	4394-85-8	512.15	45.053	1,2
5136	C5H9F	1-fluoro-3-methyl-2-butene	23425-81-2	317.11	26.763	2	5220	C5H9NO2	nitrocyclopentane	2562-38-1	453.15	39.402	1,2
5137	C5H9F	2-fluoro-3-methyl-2-butene	66213-79-4	316.99	26.549	2	5221	C5H9NO2	2,3-pentanedione 3-oxime	609-29-0	456.15	39.687	1,2
5138	C5H9F	3-fluoro-2-ethyl-1-propene	---	309.63	26.163	2	5226	C5H9NO2	3,3-dimethoxypropiononitrile	57597-62-3	464.15	40.451	1,2
5141	C5H9FO2S	4-fluoro-2-hydroxythiobutyric acid S-methyl *	100700-28-5	376.25	32.133	1,2	5227	C5H9NO2	(S)-(+)-5-hydroxymethyl-2-pyrrolidinone	17342-08-4	470.75	41.081	2
5142	C5H9FO2S	methyl-g-fluoro-b-hydroxythiolbutyrate	63732-23-0	376.25	32.133	2	5228	C5H9NO2	(R)-(-)-5-(hydroxymethyl)-2-pyrrolidinone	66673-40-3	470.75	41.081	2
5144	C5H9F3	1,1,1-trifluoropentane	406-82-6	320.15	27.575	1,2	5229	C5H9NO2	methyl 3-aminocrotonate	14205-39-1	470.75	41.081	2
5145	C5H9F3O2Si	trimethylsilyl trifluoroacetate	400-53-3	362.15	30.814	1,2	5230	C5H9NO2	5-nitro-1-pentene	23542-51-0	434.00	37.581	2
5146	C5H9FeNO4	ferrous glutamate	2896-87-9	377.65	32.265	1,2	5232	C5H9NO2	aziridine carboxylic acid ethyl ester	671-51-2	470.75	41.081	2
5147	C5H9I	cis-1-iodo-1-pentene	66703-02-4	422.15	36.371	1,2	5233	C5H9NO2	N-(methoxymethyl)-2-propenamide	3644-11-9	470.75	41.081	2
5148	C5H9I	trans-1-iodo-1-pentene	66703-03-5	422.15	36.371	1,2	5234	C5H9NO2	2-nitro-2-pentene	6065-19-6	434.00	37.581	2
5149	C5H9I	2-iodo-1-pentene	66688-59-3	403.50	34.507	2	5235	C5H9NO2	3-nitro-2-pentene	6065-18-5	434.00	37.581	2
5150	C5H9I	3-iodo-1-pentene	66688-61-7	403.18	34.437	2	5245	C5H9NO4	L-glutamic acid	56-86-0	670.00	87.624	1,2
5151	C5H9I	4-iodo-1-pentene	59967-14-5	403.18	34.437	2	5246	C5H9NO4	ethyl 2-nitropropanoate	2531-80-8	463.65	40.403	1,2
5152	C5H9I	5-iodo-1-pentene	7766-48-5	423.15	36.547	1,2	5247	C5H9NO4	DL-glutamic acid	617-65-2	504.93	44.358	2
5153	C5H9I	1-iodo-cis-2-pentene	66703-04-6	411.10	35.374	2	5248	C5H9NO4	D-glutamic acid	6893-26-1	504.93	44.358	2
5154	C5H9I	1-iodo-trans-2-pentene	66688-56-0	411.10	35.374	2	5249	C5H9NO4	(R)-(-)-2-amino-2-methylbutanedioic acid	14603-76-0	504.93	44.358	2
5155	C5H9I	2-iodo-cis-2-pentene	66688-57-1	410.98	35.096	2	5250	C5H9NO4	(S)-(+)-2-amino-2-methylbutanedioic acid	3227-17-6	504.93	44.358	2
5156	C5H9I	2-iodo-trans-2-pentene	66688-58-2	410.98	35.096	2	5251	C5H9NO4	N-methyl-L-aspartic acid	4226-18-0	504.93	44.358	2
5157	C5H9I	3-iodo-cis-2-pentene	35895-39-7	410.98	35.096	2	5252	C5H9NO4	N-methyl-D-aspartic acid	6384-92-5	504.93	44.358	2
5158	C5H9I	3-iodo-trans-2-pentene	66688-60-6	410.98	35.096	2	5253	C5H9NO4	N-methyliminodiacetic acid	4408-64-4	504.93	44.358	2
5159	C5H9I	4-iodo-cis-2-pentene	66688-62-8	410.66	35.026	2	5254	C5H9NO4	methyl 4-nitrobutyrate	13013-02-0	381.15	32.593	1,2
5160	C5H9I	4-iodo-trans-2-pentene	66688-63-9	410.66	35.026	2	5255	C5H9NO4	2-amino-5-hydroxylevulinic acid	4439-84-3	504.93	44.358	2
5161	C5H9I	5-iodo-cis-2-pentene	66688-64-0	411.10	35.374	2	5259	C5H9NS	butyl isothiocyanate	592-82-5	441.15	38.260	1,2
5162	C5H9I	5-iodo-trans-2-pentene	56399-98-5	411.10	35.374	2	5260	C5H9NS	sec-butyl isothiocyanate (±)	116724-11-9	432.65	37.453	1,2
5163	C5H9I	cis-1-iodo-2-methyl-1-butene	52812-57-4	410.98	35.096	2	5261	C5H9NS	butyl thiocyanate	628-83-1	459.15	39.973	1,2
5164	C5H9I	trans-1-iodo-2-methyl-1-butene	66702-95-2	410.98	35.096	2	5262	C5H9NS	tert-butyl thiocyanate	37985-18-5	413.15	35.606	2
5165	C5H9I	3-iodo-2-methyl-1-butene	66703-00-2	410.00	34.786	2	5263	C5H9NS	isobutyl isothiocyanate	591-82-2	433.15	37.500	1,2
5166	C5H9I	4-iodo-2-methyl-1-butene	53750-52-0	410.00	35.090	2	5264	C5H9NS	isobutyl thiocyanate	591-84-4	448.55	38.963	1,2
5167	C5H9I	cis-1-iodo-3-methyl-1-butene	64245-25-6	410.66	35.026	2	5265	C5H9NS	tert-butyl isothiocyanate	590-42-1	413.15	35.606	1,2
5168	C5H9I	trans-1-iodo-3-methyl-1-butene	66702-96-3	410.66	35.026	2	5269	C6AlBr2F5	pentafluorophenylaluminum dibromide	4457-90-3	333.15	28.115	1,2
5169	C5H9I	2-iodo-3-methyl-1-butene	32442-47-0	403.06	34.168	2	5269.1	C5H9NS	N-methylthiopyrrolidone	10441-57-3	557.00	48.214	1,2
5170	C5H9I	3-iodo-3-methyl-1-butene	59128-91-5	400.39	33.568	2	5274	C5H9N3O2	tert-butyl azidoformate	1070-19-5	352.15	29.881	1,2
5171	C5H9I	4-iodo-3-methyl-1-butene	66703-01-3	403.18	34.437	2	5275	C5H9N3O3	N'-acetyl ethylnitrosourea	52217-47-7	370.25	31.571	1,2
5172	C5H9I	1-iodo-2-methyl-cis-2-butene	66702-97-4	410.98	35.096	2	5276	C5H9N3O3S	nitroso-2-methylthiopropionaldehyde-o-methyl*	57117-24-5	355.15	30.161	1,2
5173	C5H9I	1-iodo-2-methyl-trans-2-butene	66702-98-5	410.98	35.096	2	5280	C5H10	1,1-dimethylcyclopropane	1630-94-0	293.78	24.557	1,2
5174	C5H9I	1-iodo-3-methyl-2-butene	41004-19-7	410.98	35.096	2	5281	C5H10	1,cis-2-dimethylcyclopropane	930-18-7	310.18	25.947	1,2
5175	C5H9I	2-iodo-3-methyl-2-butene	66702-99-6	410.86	34.823	2	5282	C5H10	1,trans-2-dimethylcyclopropane	2402-06-4	301.36	25.173	1,2
5176	C5H9I	3-iodo-2-ethyl-1-propene	---	403.50	34.507	2	5283	C5H10	ethylcyclopropane	1191-96-4	309.08	26.106	1,2
5177	C5H9I	iodocyclopentane	1556-18-9	439.65	38.117	1,2	5284	C5H10	methylcyclobutane	598-61-8	303.45	25.428	1,2
5178	C5H9IO2	ethyl 3-iodopropanoate	6414-69-3	475.15	41.502	1,2	5285	C5H10	cyclopentane	287-92-3	322.40	27.259	1,2
5179	C5H9IO2	methyl 4-iodobutyrate	14273-85-9	475.15	41.502	2	5286	C5H10	1-pentene	109-67-1	303.11	25.705	1,2
5180	C5H9IO2	2-(2-iodoethyl)-1,3-dioxolane	83665-55-8	475.15	41.502	2	5287	C5H10	2-pentene; (cis+trans)	109-68-2	306.70	25.995	1,2
5181	C5H9ISi	1-iodo-2-(trimethylsilyl)acetylene	18163-47-8	403.15	34.662	1,2	5288	C5H10	cis-2-pentene	627-20-3	310.08	26.539	1,2
5182	C5H9I3	1,1,1-triiodopentane	---	589.99	51.744	2	5289	C5H10	trans-2-pentene	646-04-8	309.49	26.252	1,2
5183	C5H9N	valeronitrile	110-59-8	414.45	37.291	1,2	5290	C5H10	2-methyl-1-butene	563-46-2	304.30	25.585	1,2
5184	C5H9N	2-methylbutanenitrile	18936-17-9	398.55	35.345	1,2	5291	C5H10	3-methyl-1-butene	563-45-1	293.21	24.386	1,2
5185	C5H9N	3-methylbutanenitrile	625-28-5	403.65	35.819	1,2	5292	C5H10	2-methyl-2-butene	513-35-9	311.71	26.482	1,2
5186	C5H9N	2,2-dimethylpropanenitrile	630-18-2	378.75	32.868	1,2	5294	C5H10BrCl	1-bromo-5-chloropentane	54512-75-3	484.15	42.363	1,2
5187	C5H9N	butyl isocyanide	2769-64-4	397.65	35.590	1,2	5295	C5H10BrF	1-bromo-5-fluoropentane	407-97-6	435.15	37.690	1,2
5188	C5H9N	isobutyl isocyanide	590-94-3	383.15	33.916	1,2	5297	C5H10Br2	1,1-dibromopentane	13320-56-4	453.15	42.123	1,2
5189	C5H9N	sec-butyl isocyanide	14069-89-7	385.00	34.088	2	5298	C5H10Br2	1,2-dibromopentane	3234-49-9	457.15	42.511	1,2
5190	C5H9N	tert-butyl isocyanide	7188-38-7	364.65	31.586	1,2	5299	C5H10Br2	1,3-dibromopentane	42474-20-4	463.15	43.094	1,2
5191	C5H9N	2-methyl-3-butyn-2-amine	2978-58-7	352.65	29.928	1,2	5300	C5H10Br2	1,4-dibromopentane	626-87-9	473.15	44.067	1,2
5192	C5H9N	2-methyl-2-pyrroline	100791-95-5	369.15	31.468	1,2	5301	C5H10Br2	1,5-dibromopentane	111-24-0	495.45	46.679	1,2
5193	C5H9N	1,2,5,6-tetrahydropyridine	694-05-3	381.15	32.593	1,2	5302	C5H10Br2	2,2-dibromopentane	54653-26-8	443.15	40.343	1,2
5194	C5H9N	3-dimethylamino-1-propyne	7223-38-3	354.15	30.068	1,2	5303	C5H10Br2	2,3-dibromopentane	5398-25-4	451.65	41.583	1,2
5195	C5H9N	(S)-(+)-2-methylbutyronitrile	25570-03-0	398.65	36.196	1,2	5304	C5H10Br2	2,4-dibromopentane	19398-53-9	455.15	41.920	1,2
5196	C5H9N	2-methyl-1-pyrroline	872-32-2	377.65	32.265	1,2	5305	C5H10Br2	3,3-dibromopentane	54653-27-9	440.15	40.057	1,2
5197	C5H9NO	butyl isocyanate	111-36-4	388.15	36.000	1,2	5306	C5H10Br2	1,1-dibromo-2-methylbutane	62127-58-6	445.24	40.966	2
5198	C5H9NO	N-methyl-2-pyrrolidone	872-50-4	475.15	44.719	1,2	5307	C5H10Br2	1,1-dibromo-3-methylbutane	62127-59-7	445.24	40.966	2
5199	C5H9NO	cyclopentanone oxime	1192-28-5	469.15	40.928	1,2	5308	C5H10Br2	1,2-dibromo-2-methylbutane	10428-64-5	446.15	40.628	1,2
5200	C5H9NO	2-ethoxypropanenitrile	14631-45-9	409.15	35.228	1,2	5309	C5H10Br2	1,2-dibromo-3-methylbutane	10288-13-8	445.24	40.966	2
5201	C5H9NO	3-ethoxypropanenitrile	2141-62-0	444.15	38.545	1,2	5310	C5H10Br2	1,3-dibromo-2-methylbutane	49623-50-9	445.24	40.966	2
5202	C5H9NO	4-imino-2-pentanone	870-74-6	482.15	42.172	1,2	5311	C5H10Br2	1,3-dibromo-3-methylbutane	24443-15-0	442.89	40.318	2
5203	C5H9NO	isobutyl isocyanate	1873-29-6	379.15	33.145	1,2	5312	C5H10Br2	1,4-dibromo-2-methylbutane	69498-28-8	445.68	41.398	2
5204	C5H9NO	2-isocyanato-2-methylpropane	1609-86-5	444.47	38.576	2	5313	C5H10Br2	2,2-dibromo-3-methylbutane	62127-60-0	442.45	39.907	2
5205	C5H9NO	1-methyl-3-pyrrolidinone	68165-06-0	444.47	38.576	2	5314	C5H10Br2	2,3-dibromo-2-methylbutane	594-51-4	444.01	41.572	1,2
5206	C5H9NO	5-methyl-2-pyrrolidinone	108-27-0	521.15	45.920	1,2	5315	C5H10Br2	1,1-dibromo-2,2-dimethylpropane	2443-91-6	453.15	42.123	1,2
5207	C5H9NO	2-piperidinone	675-20-7	529.15	46.692	1,2	5316	C5H10Br2	1,3-dibromo-2,2-dimethylpropane	5434-27-5	456.15	41.200	1,2
5208	C5H9NO	N,N-dimethylacrylamide	2680-03-7	444.47	38.576	2	5317	C5H10Br2	1,3-dibromo-2-ethylpropane	---	442.89	40.318	2
5209	C5H9NO	3-dimethylaminoacrolein	927-63-9	544.65	48.190	1,2	5318	C5H10Br2FO3P	diethyl (dibromofluoromethyl)phosphonate	65094-25-9	485.15	42.459	1,2
5210	C5H9NO	4,4-dimethyl-2-oxazoline	30093-99-3	372.65	31.796	1,2	5319	C5H10Br2O2	2,2-bis(bromomethyl)-1,3-propanediol	3296-90-0	508.15	44.668	1,2
5211	C5H9NO	2-ethyl-2-oxazoline	10431-98-8	401.55	34.511	1,2	5320	C5H10Br2O2	1,3-dibromo-2,2-dimethoxypropane	22094-18-4	508.15	44.668	2
5212	C5H9NO	fluoral-p	1118-66-7	443.10	38.445	1,2	5321	C5H10ClF	1-chloro-5-fluoropentane	407-98-7	416.35	35.909	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
5323	C5H10ClNO	diethylcarbamic chloride	88-10-8	459.15	39.973	1,2	5415	C5H10N2O2	N-nitropiperidine	7119-94-0	518.15	45.631	1,2
5330	C5H10Cl2	1,1-dichloropentane	820-55-3	412.95	35.994	1,2	5416	C5H10N2O2	2,3-pentanedione dioxime	4775-86-4	475.82	41.565	2
5331	C5H10Cl2	1,2-dichloropentane	1674-33-5	420.15	36.652	1,2	5417	C5H10N2O2	2,4-pentanedione dioxime	2157-56-4	475.82	41.565	2
5332	C5H10Cl2	1,3-dichloropentane	30122-12-4	428.15	37.383	1,2	5418	C5H10N2O2	N-acetyl-L-alanine amide	15962-47-7	475.82	41.565	2
5333	C5H10Cl2	1,4-dichloropentane	626-92-6	435.15	38.024	1,2	5419	C5H10N2O2	1-(methylnitrosamino)-2-butanone	89367-14-6	475.82	41.565	2
5334	C5H10Cl2	1,5-dichloropentane	628-76-2	453.15	40.974	1,2	5420	C5H10N2O2	4-(methylnitrosamino)-2-butanone	89367-15-7	454.15	39.497	1,2
5335	C5H10Cl2	2,2-dichloropentane	34887-14-4	400.15	34.174	1,2	5421	C5H10N2O2	N-nitrosoallylethanolamine	91308-69-9	455.15	39.592	1,2
5336	C5H10Cl2	2,3-dichloropentane	600-11-3	412.15	35.599	1,2	5422	C5H10N2O2	nitroso-2-methylmorpholine	75881-16-2	475.82	41.565	2
5337	C5H10Cl2	2,4-dichloropentane	625-67-2	422.15	36.505	1,2	5423	C5H10N2O2	nitroso-3-piperidinol	55556-85-9	475.82	41.565	2
5338	C5H10Cl2	3,3-dichloropentane	21571-91-5	405.15	34.622	1,2	5424	C5H10N2O2	nitroso-4-piperidinol	55556-93-9	475.82	41.565	2
5339	C5H10Cl2	1,1-dichloro-2-methylbutane	23010-05-1	400.00	34.500	2	5425	C5H10N2O2	N-nitroso-N-propylacetamide	67809-15-8	475.82	41.565	2
5340	C5H10Cl2	1,1-dichloro-3-methylbutane	625-66-1	402.75	34.749	1,2	5430	C5H10N2O3	D(-)-glutamine	5959-95-5	411.90	35.488	2
5341	C5H10Cl2	1,2-dichloro-2-methylbutane	23010-04-0	407.15	35.240	1,2	5431	C5H10N2O3	1-acetoxy-N-methyl-N-nitrosoethylamine	65986-79-0	411.90	35.488	2
5342	C5H10Cl2	1,2-dichloro-3-methylbutane	600-10-2	416.15	35.962	1,2	5432	C5H10N2O3	(ethylnitrosamino)methyl acetate	65986-80-3	411.90	35.488	2
5343	C5H10Cl2	1,3-dichloro-2-methylbutane	23010-07-3	418.00	36.129	2	5433	C5H10N2O3	N-methyl-N-(3-carboxypropyl)nitrosamine	61445-55-4	330.65	27.884	1,2
5344	C5H10Cl2	1,3-dichloro-3-methylbutane	624-96-4	419.85	35.654	1,2	5434	C5H10N2O3	N-nitroso-N-ethylurethan	614-95-9	493.15	43.226	1,2
5345	C5H10Cl2	1,4-dichloro-2-methylbutane	623-34-7	441.65	34.750	1,2	5435	C5H10N2O3	N-nitrososarcosine, ethyl ester	13344-50-8	411.90	35.488	2
5346	C5H10Cl2	2,2-dichloro-3-methylbutane	17773-66-9	418.00	35.462	2	5437	C5H10N2O4	1,5-dinitropentane	6848-84-6	508.65	44.716	2
5347	C5H10Cl2	2,3-dichloro-2-methylbutane	507-45-9	402.15	36.432	1,2	5445	C5H10O	pentanal	110-62-3	376.15	34.480	1,2
5348	C5H10Cl2	1,3-dichloro-2-ethylpropane	---	418.00	36.455	2	5446	C5H10O	2-methylbutanal	96-17-3	365.15	32.446	1,2
5349	C5H10Cl2	1,1-dichloro-2,2-dimethylpropane	29559-54-4	418.00	35.462	2	5447	C5H10O	3-methylbutanal	590-86-3	365.75	32.502	1,2
5350	C5H10Cl2	1,3-dichloro-2,2-dimethylpropane	29559-55-5	419.15	35.877	1,2	5448	C5H10O	2,2-dimethylpropanal	630-19-3	347.15	30.183	1,2
5351	C5H10Cl2	dichloropentane	30586-10-8	403.15	31.996	1,2	5449	C5H10O	2-methylbutanal, (±)	57456-98-1	365.65	34.009	1,2
5353	C5H10Cl2O2	bis(2-chloroethoxy)methane	111-91-1	490.90	43.010	1,2	5450	C5H10O	methyl propyl ketone	107-87-9	375.46	33.468	1,2
5354	C5H10Cl2O2	2,2-bis(chloromethyl)-1,3-propanediol	2209-86-1	490.90	43.010	2	5451	C5H10O	diethyl ketone	96-22-0	375.14	33.571	1,2
5355	C5H10Cl2O2	2,2-dichloro-1,5-pentanediol	41942-66-	490.90	43.010	2	5452	C5H10O	methyl isopropyl ketone	563-80-4	367.55	33.721	1,2
5357	C5H10Cl3O3P	diethyl (trichloromethyl)phosphonate	866-23-9	399.15	34.285	1,2	5453	C5H10O	2-methyltetrahydrofuran	96-47-9	353.37	30.430	1,2
5358	C5H10F2	1,1-difluoropentane	62127-40-6	342.15	29.615	1,2	5454	C5H10O	3-methyltetrahydrofuran	13423-15-9	411.15	35.606	1,2
5359	C5H10F2	1,2-difluoropentane	62126-94-7	348.15	30.040	1,2	5455	C5H10O	allyl ethyl ether	557-31-3	340.75	31.078	1,2
5360	C5H10F2	1,3-difluoropentane	62126-95-8	353.15	30.492	1,2	5456	C5H10O	isopropyl vinyl ether	926-65-8	328.65	27.412	1,2
5361	C5H10F2	1,4-difluoropentane	62126-96-9	359.15	31.036	1,2	5457	C5H10O	3-methoxy-2-methyl-1-propene	22418-49-1	340.15	30.880	1,2
5362	C5H10F2	1,5-difluoropentane	373-17-1	378.65	33.104	1,2	5458	C5H10O	propyl vinyl ether	764-47-6	338.15	30.234	1,2
5363	C5H10F2	2,2-difluoropentane	371-65-3	332.85	28.117	1,2	5459	C5H10O	cyclopentanol	96-41-3	413.57	35.646	1,2
5364	C5H10F2	2,3-difluoropentane	66688-46-8	330.00	28.144	2	5460	C5H10O	3,3-dimethyloxetane	6921-35-3	353.75	30.030	1,2
5365	C5H10F2	2,4-difluoropentane	66688-47-9	330.00	28.144	2	5461	C5H10O	2-methyl-3-buten-2-ol	115-18-4	370.15	31.562	1,2
5366	C5H10F2	3,3-difluoropentane	358-03-2	333.45	28.170	1,2	5462	C5H10O	3-methyl-2-buten-1-ol	556-82-1	413.15	35.606	1,2
5367	C5H10F2	1,1-difluoro-2-methylbutane	66688-67-3	311.46	26.488	2	5463	C5H10O	3-methyl-3-buten-2-ol	10473-14-0	387.15	33.156	1,2
5368	C5H10F2	1,1-difluoro-3-methylbutane	53731-22-9	311.46	26.488	2	5464	C5H10O	1-penten-3-ol	616-25-1	388.15	33.250	1,2
5369	C5H10F2	1,2-difluoro-2-methylbutane	66688-68-4	309.11	26.016	2	5465	C5H10O	3-penten-2-ol, (±)	42569-16-4	394.75	33.871	1,2
5370	C5H10F2	1,2-difluoro-3-methylbutane	66688-69-5	311.46	26.488	2	5466	C5H10O	4-penten-1-ol	821-09-0	414.15	35.701	1,2
5371	C5H10F2	1,3-difluoro-2-methylbutane	66688-43-5	311.46	26.488	2	5467	C5H10O	4-penten-2-ol	625-31-0	389.15	33.344	1,2
5372	C5H10F2	1,3-difluoro-3-methylbutane	66688-44-6	309.11	26.016	2	5468	C5H10O	cis-2-penten-1-ol	1576-95-0	411.15	35.417	1,2
5373	C5H10F2	1,4-difluoro-2-methylbutane	66688-45-7	311.90	26.770	2	5469	C5H10O	trans-2-penten-1-ol	1576-96-1	411.15	35.417	1,2
5374	C5H10F2	2,2-difluoro-3-methylbutane	51891-58-8	308.67	25.748	2	5470	C5H10O	alpha-methylcyclopropanemethanol	765-42-4	396.65	34.050	1,2
5375	C5H10F2	2,3-difluoro-2-methylbutane	53731-25-2	308.67	25.748	2	5471	C5H10O	tetrahydropyran	142-68-7	361.15	30.721	1,2
5376	C5H10F2	1,3-difluoro-2-ethylpropane	---	311.90	26.770	2	5472	C5H10O	cyclobutanemethanol	4415-82-1	416.65	35.937	1,2
5377	C5H10F2	1,1-difluoro-2,2-dimethylpropane	53731-23-0	308.67	25.748	2	5473	C5H10O	1,2-epoxy-2-methylbutane	30095-63-7	378.77	32.370	2
5378	C5H10F2	1,3-difluoro-2,2-dimethylpropane	66688-66-2	309.11	26.016	2	5474	C5H10O	2,3-epoxy-2-methylbutane	5076-19-7	348.40	29.532	1,2
5380	C5H10I2	1,1-diiodopentane	66688-35-5	499.64	43.771	2	5475	C5H10O	1,2-epoxypentane	1003-14-1	363.50	30.940	1,2
5381	C5H10I2	1,2-diiodopentane	998-76-5	499.64	43.771	2	5476	C5H10O	ethyl propenyl ether	928-55-2	343.15	31.888	1,2
5382	C5H10I2	1,3-diiodopentane	66688-36-6	499.64	43.771	2	5477	C5H10O	2-methyl-3-buten-1-ol	4516-90-9	393.65	33.767	1,2
5383	C5H10I2	1,4-diiodopentane	55930-45-5	499.64	43.771	2	5478	C5H10O	3-methyl-3-buten-1-ol	763-32-6	404.05	34.747	1,2
5384	C5H10I2	1,5-diiodopentane	628-77-3	500.08	44.205	2	5479	C5H10O	1-methylcyclopropanemethanol	2746-14-7	397.60	34.139	1,2
5385	C5H10I2	2,2-diiodopentane	66688-37-7	496.85	42.714	2	5480	C5H10O	2-methylcyclopropanemethanol	6077-72-1	406.15	34.945	1,2
5386	C5H10I2	2,3-diiodopentane	66688-38-8	499.20	43.345	2	5481	C5H10O	3-penten-2-ol	3899-34-1	393.15	33.720	1,2
5387	C5H10I2	2,4-diiodopentane	66719-29-7	499.20	43.345	2	5482	C5H10O	pent-3-en-2-ol	1569-50-2	394.00	33.800	1,2
5388	C5H10I2	3,3-diiodopentane	66688-39-9	496.85	42.714	2	5483	C5H10OS	s-propyl thioacetate	2307-10-0	411.05	35.408	1,2
5389	C5H10I2	1,1-diiodo-2-methylbutane	66688-50-4	499.20	43.345	2	5484	C5H10OS	2-methyltetrahydrofuran-3-thiol, mixed isome*	57124-87-5	443.15	38.450	1,2
5390	C5H10I2	1,1-diiodo-3-methylbutane	66688-51-5	499.20	43.345	2	5485	C5H10OS	S-methyl thiobutanoate	2432-51-1	415.65	35.842	1,2
5391	C5H10I2	1,2-diiodo-2-methylbutane	66688-52-6	496.85	42.714	2	5486	C5H10OS	3-methylthio-2-butanone	53475-15-3	432.65	37.453	1,2
5392	C5H10I2	1,2-diiodo-3-methylbutane	66688-53-7	499.20	43.345	2	5487	C5H10OS	tetrahydrothiopyran-3-ol	22072-19-1	425.63	36.786	2
5393	C5H10I2	1,3-diiodo-2-methylbutane	66688-54-8	499.20	43.345	2	5488	C5H10OS	methylvinyloxyethyl sulfide	6607-53-0	425.63	36.786	2
5394	C5H10I2	1,3-diiodo-3-methylbutane	66688-55-9	496.85	42.714	2	5489	C5H10OS2	S,S-diethyl dithiocarbonate	623-80-3	470.15	41.024	1,2
5395	C5H10I2	1,4-diiodo-2-methylbutane	66688-32-2	499.64	43.771	2	5490	C5H10OS2	2-methyl-2-(methyldithio)propionaldehyde	67952-60-7	470.15	41.024	2
5396	C5H10I2	2,2-diiodo-3-methylbutane	66688-33-3	496.41	42.308	2	5491	C5H10OSi	(trimethylsilyl)ketene	4071-85-6	354.15	30.068	1,2
5397	C5H10I2	2,3-diiodo-2-methylbutane	66688-34-4	496.41	42.308	2	5492	C5H10O2	pentanoic acid	109-52-4	458.65	48.540	1,2
5398	C5H10I2	1,3-diiodo-2-ethylpropane	---	499.64	43.771	2	5493	C5H10O2	2-methylbutyric acid	116-53-0	450.15	46.581	1,2
5399	C5H10I2	1,1-diiodo-2,2-dimethylpropane	2443-89-2	496.41	42.308	2	5494	C5H10O2	3-methylbutanoic acid	503-74-2	448.25	43.220	1,2
5400	C5H10I2	1,3-diiodo-2,2-dimethylpropane	66688-49-1	496.85	42.714	2	5495	C5H10O2	2,2-dimethylpropanoic acid	75-98-9	436.95	41.085	1,2
5403	C5H10N2	diethylcyanamide	617-83-4	461.15	40.164	1,2	5496	C5H10O2	2-methylbutanoic acid	600-07-7	450.15	39.116	1,2
5404	C5H10N2	3-(dimethylamino)propanenitrile	1738-25-6	446.15	38.735	1,2	5497	C5H10O2	butyl formate	592-84-7	379.25	35.970	1,2
5405	C5H10N2	4,4-dimethyl-2-imidazoline	2305-59-1	450.65	39.163	2	5498	C5H10O2	isobutyl formate	542-55-2	371.22	33.979	1,2
5406	C5H10N2	3-(ethylamino)propionitrile	21539-47-9	444.65	38.592	1,2	5499	C5H10O2	sec-butyl formate	589-40-2	363.55	31.350	1,2
5407	C5H10N2O	N-nitrosopiperidine	100-75-4	492.15	43.130	1,2	5500	C5H10O2	tert-butyl formate	762-75-4	355.95	30.604	1,2
5408	C5H10N2O	1,3-dimethyl-2-imidazolidinone	80-73-9	496.40	43.538	1,2	5501	C5H10O2	propyl acetate	109-60-4	374.65	34.471	1,2
5409	C5H10N2O	1-formylpiperazine	7755-92-2	449.53	39.056	2	5502	C5H10O2	isopropyl acetate	108-21-4	361.65	32.228	1,2
5410	C5H10N2O	L-prolinamide hydrochloride	7531-52-4	369.15	31.468	1,2	5503	C5H10O2	ethyl propanoate	105-37-3	372.25	33.455	1,2
5411	C5H10N2O	N,N-ethylene-N',N'-dimethylurea	3715-67-1	449.53	39.056	2	5504	C5H10O2	methyl butanoate	623-42-7	375.90	33.298	1,2
5412	C5H10N2O	2-ethyl-3-nitrosothiazolidine	72505-63-6	449.53	39.056	2	5505	C5H10O2	methyl isobutanoate	547-63-7	365.65	31.125	1,2
5413	C5H10N2O	methylcyclopropanecarbonylhydrazine	63884-38-8	440.40	38.188	1,2	5506	C5H10O2	tetrahydrofurfuryl alcohol	97-99-4	451.15	50.081	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
5507	C5H10O2	cis-1,2-cyclopentanediol	5057-98-7	409.77	35.287	2	5602	C5H11AsCl2	isoamyldichloroarsine	64049-23-6	338.15	28.579	1,2
5508	C5H10O2	trans-1,2-cyclopentanediol	5057-99-8	499.15	43.802	1,2	5603	C5H11Br	1-bromopentane	110-53-2	402.74	34.476	1,2
5509	C5H10O2	cis-1,3-cyclopentanediol	16326-97-9	409.77	35.287	2	5604	C5H11Br	2-bromopentane	107-81-3	390.55	34.469	1,2
5510	C5H10O2	trans-1,3-cyclopentanediol	16326-98-0	409.77	35.287	2	5605	C5H11Br	3-bromopentane	1809-10-5	391.75	34.580	1,2
5511	C5H10O2	3,3-dimethoxy-1-propene	6044-68-4	361.15	30.721	1,2	5606	C5H11Br	1-bromo-2-methylbutane	10422-35-2	393.65	34.756	1,2
5512	C5H10O2	(ethoxymethyl)oxirane	4016-11-9	401.15	34.474	1,2	5607	C5H11Br	1-bromo-3-methylbutane	107-82-4	393.55	34.747	1,2
5513	C5H10O2	3-ethoxypropanal	2806-85-1	408.35	35.153	1,2	5608	C5H11Br	2-bromo-2-methylbutane	507-36-8	381.15	32.966	1,2
5514	C5H10O2	ethylene glycol monoallyl ether	111-45-5	431.65	37.358	1,2	5609	C5H11Br	2-bromo-3-methylbutane	18295-25-5	388.45	33.966	1,2
5515	C5H10O2	4-hydroxy-3-methyl-2-butanone	3393-64-4	459.15	39.973	1,2	5610	C5H11Br	1-bromo-2,2-dimethylpropane	630-17-1	379.15	32.785	1,2
5516	C5H10O2	1-hydroxy-2-pentanone	64502-89-2	425.15	36.741	1,2	5611	C5H11Br	1-bromo-2-methylbutane, (S)	534-00-9	394.75	37.302	1,2
5517	C5H10O2	2-hydroxy-3-pentanone	5704-20-1	425.65	36.789	1,2	5612	C5H11BrO	3-bromo-2,2-dimethyl-1-propanol	40894-00-6	458.65	39.926	1,2
5518	C5H10O2	3-hydroxy-2-pentanone	3142-66-3	420.65	36.315	1,2	5618	C5H11BrSi	(1-bromovinyl)trimethylsilane	13683-41-5	397.15	34.097	1,2
5519	C5H10O2	4-hydroxy-2-pentanone	4161-60-8	450.15	39.116	1,2	5619	C5H11BrSi	(2-bromovinyl)trimethylsilane	41309-43-7	397.15	34.097	2
5520	C5H10O2	5-hydroxy-2-pentanone	1071-73-4	482.15	42.172	1,2	5620	C5H11Cl	1-chloropentane	543-59-9	381.54	32.601	1,2
5521	C5H10O2	4-methyl-1,3-dioxane	1120-97-4	387.15	33.156	1,2	5621	C5H11Cl	2-chloropentane	625-29-6	369.67	31.601	1,2
5522	C5H10O2	tetrahydro-2H-pyran-4-ol	2081-44-9	463.15	40.355	1,2	5622	C5H11Cl	3-chloropentane	616-20-6	370.94	31.715	1,2
5523	C5H10O2	(1S,2S)-(+)-trans-1,2-cyclopentanediol	63261-45-0	409.77	35.287	2	5623	C5H11Cl	1-chloro-2-methylbutane	616-13-7	373.69	31.962	1,2
5524	C5H10O2	1,3-cyclopentanediol, cis and trans	59719-74-3	409.77	35.287	2	5624	C5H11Cl	1-chloro-3-methylbutane	107-84-6	371.66	31.857	1,2
5525	C5H10O2	2,2-dimethyl-1,3-dioxolane	2916-31-6	364.65	31.048	1,2	5625	C5H11Cl	2-chloro-2-methylbutane	594-36-5	358.76	29.619	1,2
5526	C5H10O2	1,3-dioxepane	505-65-7	392.15	33.626	1,2	5626	C5H11Cl	2-chloro-3-methylbutane	631-65-2	365.95	30.992	1,2
5527	C5H10O2	3-hydroxy-3-methyl-2-butanone	115-22-0	413.65	35.653	1,2	5627	C5H11Cl	1-chloro-2,2-dimethylpropane	753-89-9	357.45	29.944	1,2
5528	C5H10O2	5-hydroxypentanal	4221-03-8	409.77	35.287	2	5628	C5H11Cl	1-chloro-2-methylbutane, (±)	114180-21-1	373.05	32.660	1,2
5529	C5H10O2	1-methoxy-2-vinyloxy ethane	1663-35-0	381.50	32.626	1,2	5629	C5H11Cl	2-chloropentane, (+)	29882-57-3	370.15	31.769	1,2
5530	C5H10O2	(S)-(+)-2-methylbutyric acid	1730-91-2	409.77	34.016	2	5630	C5H11ClHgN2O2	chloromerodrin	62-37-3	415.15	35.795	1,2
5531	C5H10O2	3-methyl-3-oxetanemethanol	3143-02-0	409.77	35.287	2	5632	C5H11ClO	1-(1-chloroethoxy)propane	692-35-3	387.15	33.156	1,2
5532	C5H10O2	tetrahydro-3-furanmethanol	15833-61-1	409.77	35.287	2	5633	C5H11ClO	1-chloro-2-methyl-2-butanol	74283-48-0	424.15	36.647	1,2
5533	C5H10O2	2,2-dimethyl-3-hydroxypropionaldehyde	597-31-9	409.77	35.287	2	5634	C5H11ClO	3-chloro-2-methyl-2-butanol	21326-62-5	414.65	35.748	1,2
5534	C5H10O2	ethoxy propionaldehyde	63918-98-9	409.77	35.287	2	5635	C5H11ClO	1-chloro-2-pentanol	17658-32-1	432.15	37.405	1,2
5535	C5H10O2	3-methoxy butyraldehyde	5281-76-5	333.15	28.115	1,2	5636	C5H11ClO	1-chloro-3-pentanol	32541-33-6	446.15	38.735	1,2
5536	C5H10O2	methyl dioxolane	1331-09-5	417.15	35.984	2	5637	C5H11ClO	5-chloro-1-pentanol	5259-98-3	418.07	36.071	2
5537	C5H10O2S	3-methyl sulfolane	872-93-5	549.15	52.851	1,2	5638	C5H11ClO	3-chloro-2,2-dimethyl-1-propanol	13401-56-4	418.07	36.071	2
5538	C5H10O2S	methyl 3-(methylthio)propanoate	13532-18-8	549.15	48.626	2	5639	C5H11ClO	1-(2-chloroethoxy)propane	42149-74-6	404.15	34.756	1,2
5539	C5H10O2S	ethyl 3-mercaptopropionate	5466-06-8	549.15	48.626	2	5642	C5H11ClO3	2-chloro-1,1,1-trimethoxyethane	74974-54-2	411.15	35.417	1,2
5540	C5H10O2S	ethyl (methylthio)acetate	4455-13-4	549.15	48.626	2	5643	C5H11ClSi	allylchlorodimethylsilane	4028-23-3	384.15	32.874	1,2
5541	C5H10O2S	2H-thiopyran, tetrahydro-, 1,1-dioxide	4988-33-4	549.15	48.626	2	5644	C5H11ClSi	(chloromethyl)ethenyldimethylsilane	16709-86-7	394.50	33.847	1,2
5542	C5H10O2Te	tellurane-1,1-dioxide	---	435.15	37.690	1,2	5648	C5H11Cl3Si	trichloropentylsilane	107-72-2	445.15	38.640	1,2
5543	C5H10O3	diethyl carbonate	105-58-8	399.95	37.975	1,2	5649	C5H11F	1-fluoropentane	592-50-7	335.95	28.873	1,2
5544	C5H10O3	ethyl lactate	97-64-3	427.65	47.155	1,2	5650	C5H11F	2-fluoropentane	590-87-4	328.45	27.889	1,2
5545	C5H10O3	ethylene glycol monomethyl ether acetate	110-49-6	416.15	35.890	1,2	5651	C5H11F	3-fluoropentane	41909-29-9	326.15	27.684	1,2
5546	C5H10O3	ethyl 3-hydroxypropanoate	623-72-3	460.65	40.117	1,2	5652	C5H11F	1-fluoro-2-methylbutane	10086-64-3	329.05	27.942	1,2
5547	C5H10O3	ethyl methoxyacetate	3938-96-3	415.15	35.795	1,2	5653	C5H11F	1-fluoro-3-methylbutane	407-06-7	326.65	27.729	1,2
5548	C5H10O3	3-hydroxy-3-methylbutanoic acid	625-08-1	426.04	36.825	2	5654	C5H11F	2-fluoro-2-methylbutane	661-53-0	317.95	26.455	1,2
5549	C5H10O3	2-hydroxypentanoic acid	617-31-2	426.04	36.825	2	5655	C5H11F	2-fluoro-3-methylbutane	62108-95-6	321.15	26.998	1,2
5550	C5H10O3	2-methyl-1,3-dioxan-5-ol	3774-03-6	449.15	39.021	1,2	5656	C5H11F	1-fluoro-2,2-dimethylpropane	59006-05-2	313.15	26.036	1,2
5551	C5H10O3	2-methyl-1,3-dioxolane-4-methanol	3773-93-1	460.15	40.069	1,2	5660	C5H11I	1-iodopentane	628-17-1	430.15	43.042	1,2
5552	C5H10O3	methyl ethoxyacetate	17640-26-5	419.15	36.173	1,2	5661	C5H11I	2-iodopentane	637-97-8	416.15	41.164	1,2
5553	C5H10O3	methyl 2-hydroxy-2-methylpropanoate	2110-78-3	410.15	35.323	1,2	5662	C5H11I	3-iodopentane	1809-05-8	418.15	41.371	1,2
5554	C5H10O3	propyl hydroxyacetate	90357-58-7	443.65	38.497	1,2	5663	C5H11I	1-iodo-2-methylbutane	29394-58-9	419.15	41.474	1,2
5555	C5H10O3	ethyl (S)-(-)-lactate	687-47-8	427.15	36.931	1,2	5664	C5H11I	1-iodo-3-methylbutane	541-28-6	421.35	41.700	1,2
5556	C5H10O3	(S)-(+)-2-hydroxy-3-methylbutyric acid	17407-55-5	426.04	36.825	2	5665	C5H11I	2-iodo-2-methylbutane	594-38-7	402.15	38.888	1,2
5557	C5H10O3	3-methoxy butanoic acid	10024-70-1	426.04	36.825	2	5666	C5H11I	2-iodo-3-methylbutane	18295-27-7	413.15	40.446	1,2
5558	C5H10O3	methylglyoxal 1,1-dimethyl acetal	6342-56-9	418.15	36.079	1,2	5667	C5H11I	1-iodo-2,2-dimethylpropane	15501-33-4	407.15	39.393	1,2
5559	C5H10O3	methyl (R)-(-)-3-hydroxybutyrate	3976-69-0	426.04	36.825	2	5668	C5H11I	2-iodopentane, (±)	52152-72-4	413.15	35.606	1,2
5560	C5H10O3	methyl (S)-(+)-3-hydroxybutyrate	53562-86-0	426.04	36.825	2	5669	C5H11N	N-methylpyrrolidine	120-94-5	352.30	30.079	1,2
5561	C5H10O3	methyl (R)-(-)-3-hydroxy-2-methylpropionate	72657-23-9	426.04	36.825	2	5670	C5H11N	piperidine	110-89-4	379.55	33.551	1,2
5562	C5H10O3	methyl (S)-(+)-3-hydroxy-2-methylpropionate	80657-57-4	426.04	36.825	2	5671	C5H11N	cyclopentylamine	1003-03-8	381.15	32.593	1,2
5563	C5H10O3	methyl 3-methoxypropionate	3852-09-3	415.65	35.842	1,2	5672	C5H11N	N,N-dimethylallylamine	2155-94-4	336.10	28.389	1,2
5564	C5H10O3	3,3-dimethoxypropionaldehyde	19060-10-7	426.04	36.825	2	5673	C5H11N	2-methylpyrrolidine	765-38-8	371.15	36.012	1,2
5565	C5H10O3	ethoxypropionic acid	1331-11-9	426.04	36.825	2	5674	C5H11N	3-methylpyrrolidine	34375-89-8	364.05	33.622	2
5566	C5H10O3	methyl-3-hydroxybutyrate	1487-49-6	362.15	30.814	1,2	5675	C5H11NO	tert-butylformamide	2425-74-3	475.15	45.308	1,2
5567	C5H10O3	trans-2-pentene ozonide	16187-03-4	465.65	40.594	1,2	5676	C5H11NO	N,N-diethylformamide	617-84-5	450.65	37.597	1,2
5568	C5H10O3	propylene glycol monoacetate	1331-12-0	426.04	36.825	2	5677	C5H11NO	2,2-dimethylpropanamide	754-10-9	426.97	36.914	2
5569	C5H10O3S	2-hydroxy-4-(methylthio)butanoic acid	583-91-5	347.15	29.416	1,2	5678	C5H11NO	3-methylbutanal oxime	626-90-4	434.45	37.623	1,2
5570	C5H10O4	ethyl 2,3-dihydroxypropanoate, (±)	89300-69-6	508.15	44.668	1,2	5679	C5H11NO	3-methylbutanamide	541-46-8	499.15	43.802	1,2
5571	C5H10O4	3-hydroxy-2-(hydroxymethyl)-2-methylpropanoi*	4767-03-7	471.40	41.143	2	5680	C5H11NO	4-methylmorpholine	109-02-4	389.15	33.344	1,2
5572	C5H10O4	methyl 2,3-dihydroxy-2-methylpropanoate	19860-56-1	471.40	41.143	2	5681	C5H11NO	pentanamide	626-97-1	498.15	43.706	1,2
5573	C5H10O4	1,2,3-propanetriol 1-acetate, (±)	93713-40-7	471.40	41.143	2	5682	C5H11NO	2-pentanone oxime	623-40-5	441.15	38.260	1,2
5574	C5H10O4	1,2,3-propanetriol-1-acetate	106-61-6	471.40	41.143	2	5683	C5H11NO	tetrahydro-2-furanmethanamine	4795-29-3	426.15	36.836	1,2
5575	C5H10O4	2,2-bis(hydroxymethyl)propionic acid	4767-07-3	471.40	41.143	2	5684	C5H11NO	3-amino-1-propanol vinyl ether	66415-55-2	349.15	29.602	1,2
5576	C5H10O4	2-deoxy-L-ribose	18546-37-7	471.40	41.143	2	5685	C5H11NO	(dimethylamino)acetone	15364-56-4	392.65	33.673	1,2
5577	C5H10O4	2-deoxy-D-ribose	533-67-5	471.40	41.143	2	5686	C5H11NO	N,N-dimethylpropionamide	758-96-3	444.65	38.592	1,2
5578	C5H10O4	methyl dimethoxyacetate	89-91-8	434.65	37.642	1,2	5687	C5H11NO	4-hydroxypiperidine	5382-16-1	426.97	36.914	2
5579	C5H10O4	monoacetin	26446-35-5	471.40	41.143	2	5688	C5H11NO	1-methyl-3-pyrrolidinol	13220-33-2	323.15	27.190	1,2
5593	C5H10S	thiacyclohexane	1613-51-0	414.90	35.978	1,2	5689	C5H11NO	(S)-(+)-2-pyrrolidinemethanol	23356-96-9	426.97	36.914	2
5594	C5H10S	2,2,3-trimethylthiacyclopropane	53971-47-4	363.94	30.824	2	5690	C5H11NO	r(-)-2-pyrrolidinemethanol	68832-13-3	426.97	36.914	2
5595	C5H10S	2-methylthiacyclopentane	1795-09-1	405.63	34.729	1,2	5691	C5H11NO	(S)-(+)-tetrahydrofurfurylamine	7175-81-7	426.97	36.914	2
5596	C5H10S	3-methylthiacyclopentane	4740-00-5	411.49	35.255	1,2	5692	C5H11NO	(R)-(-)-tetrahydrofurfurylamine	7202-43-9	426.97	36.914	2
5597	C5H10S	cyclopentanethiol	1679-07-8	405.33	35.326	1,2	5693	C5H11NO	dimethyl oxazolidine	51200-87-4	426.97	36.914	2
5599	C5H10Si	ethynyltrimethylsilane	1066-54-2	326.05	27.458	1,2	5694	C5H11NO	1-piperidinol	4801-58-5	426.97	36.914	2
5601	C5H11AsCl2	amyldichlorarsine	692-95-5	338.15	28.579	2	5695	C5H11NOS	2-methyl-2-(methylthio)propionaldehyde oxime	1646-75-9	483.15	42.268	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
5696	C5H11NO2	1-nitropentane	628-05-7	445.75	41.297	1,2	5844	C5H12O	methyl tert-butyl ether	1634-04-4	328.35	28.174	1,2
5697	C5H11NO2	2-nitropentane	4609-89-6	425.15	38.342	1,2	5845	C5H12O	ethyl propyl ether	628-32-0	337.01	35.522	1,2
5698	C5H11NO2	3-nitropentane	551-88-2	425.15	38.342	1,2	5846	C5H12O	ethyl isopropyl ether	625-54-7	326.15	27.904	1,2
5699	C5H11NO2	1-nitro-2-methylbutane	3457-57-6	435.15	39.299	1,2	5847	C5H12O	sec-butyl methyl ether	116783-23-4	332.25	29.002	1,2
5700	C5H11NO2	1-nitro-3-methylbutane	627-67-8	436.75	39.480	1,2	5848	C5H12O	sec-butyl methyl ether (d)	66610-39-7	333.85	29.504	1,2
5701	C5H11NO2	2-nitro-2-methylbutane	595-42-6	422.95	37.721	1,2	5849	C5H12O	(S)-(-)-2-methyl-1-butanol	1565-80-6	401.05	34.464	1,2
5702	C5H11NO2	2-nitro-3-methylbutane	2625-35-6	424.15	38.084	1,2	5850	C5H12O	(S)-(+)-2-pentanol	26184-62-3	391.65	40.354	1,2
5703	C5H11NO2	1-nitro-2,2-dimethylpropane	34715-98-5	423.65	37.716	1,2	5851	C5H12O	pentanol	30899-19-5	403.15	34.662	1,2
5706	C5H11NO2	butyl carbamate	592-35-8	449.15	39.021	2	5852	C5H12O	(R)-(-)-2-pentanol	31087-44-2	397.10	34.092	1,2
5707	C5H11NO2	diethylcarbamic acid	24579-70-2	444.15	38.545	2	5853	C5H12O	(S)-3-methyl-2-butanol	1517-66-4	372.19	33.401	2
5708	C5H11NO2	ethyl ethylcarbamate	623-78-9	449.15	39.021	1,2	5854	C5H12OS	4-(methylthio)-1-butanol	20582-85-8	477.65	41.741	2
5709	C5H11NO2	isobutyl carbamate	543-28-2	480.15	41.980	1,2	5855	C5H12OSi	acetyltrimethylsilane	13411-48-8	386.15	33.062	1,2
5710	C5H11NO2	isopentyl nitrite	110-46-3	372.35	31.768	1,2	5856	C5H12OSi	(trimethylsiloxy)ethylene	6213-94-1	347.65	29.462	1,2
5715	C5H11NO2	pentyl nitrite	463-04-7	377.65	32.265	1,2	5857	C5H12O2	ethylene glycol monopropyl ether	2807-30-9	424.50	41.960	1,2
5716	C5H11NO2	N-propylglycine	25303-14-4	431.38	37.332	2	5858	C5H12O2	neopentyl glycol	126-30-7	483.00	62.145	1,2
5719	C5H11NO2	tert-pentyl nitrite	5156-41-2	431.38	37.332	2	5859	C5H12O2	1,2-pentanediol	5343-92-0	482.15	55.951	1,2
5722	C5H11NO2	O-(tetrahydrO-2H-pyran-2-yl)hydroxylamine	6723-30-4	431.38	37.332	2	5860	C5H12O2	1,2-pentanediol, (±)	91049-43-3	482.15	42.172	1,2
5724	C5H11NO2	4-aminobutyric acid methyl ester	3251-07-8	431.38	37.332	2	5861	C5H12O2	1,3-pentanediol	3174-67-2	494.15	57.394	2
5725	C5H11NO2	ethyl-N,N-dimethyl carbamate	687-48-9	431.38	37.332	2	5862	C5H12O2	1,4-pentanediol	626-95-9	497.00	79.397	2
5734	C5H11NO3	3-methylbutyl nitrate	543-87-3	421.15	36.363	1,2	5863	C5H12O2	1,5-pentanediol	111-29-5	512.15	107.963	1,2
5735	C5H11NO3	3-methyl-2-nitro-1-butanol	77392-54-2	422.03	36.446	2	5864	C5H12O2	2,3-pentanediol	42027-23-6	460.65	40.117	1,2
5736	C5H11NO3	1-nitro-2-pentanol	2224-37-5	422.03	36.446	2	5865	C5H12O2	2,4-pentanediol	625-69-4	472.15	41.215	1,2
5737	C5H11NO3	2-nitro-1-pentanol	2899-90-3	422.03	36.446	2	5866	C5H12O2	DL-erythro-2,3-pentanediol	61828-35-1	475.00	54.514	2
5738	C5H11NO3	3-nitro-2-pentanol	5447-99-4	422.03	36.446	2	5867	C5H12O2	DL-threo-2,3-pentanediol	61828-36-2	475.00	54.514	2
5740	C5H11NO3	(R)-(-)-2-amino-3-hydroxy-3-methylbutanoicac*	2280-27-5	422.03	36.446	2	5868	C5H12O2	DL-2,4-pentanediol	1825-14-5	474.15	54.413	1,2
5743	C5H11NO3	amyl nitrate	1002-16-0	424.15	36.647	1,2	5869	C5H12O2	meso-2,4-pentanediol	3950-21-8	474.15	54.413	1,2
5744	C5H11NO3	ethyl N-methoxy-N-methylcarbamate	6919-62-6	425.65	36.789	1,2	5870	C5H12O2	2-methyl-1,2-butanediol	41051-72-3	462.15	52.361	1,2
5745	C5H11NO3	isopentyl nitrate	21981-48-6	417.15	35.984	1,2	5871	C5H12O2	2-methyl-1,3-butanediol	684-84-4	473.15	51.628	1,2
5746	C5H11NO3	tert-butyl N-hydroxycarbamate	36016-38-3	422.03	36.446	2	5872	C5H12O2	2-methyl-1,4-butanediol	2938-98-9	463.15	53.106	1,2
5755	C5H11N2O4PS2	nitrosodimethoate	63124-33-4	445.15	38.640	1,2	5873	C5H12O2	2-methyl-2,3-butanediol	5396-58-7	447.15	50.067	1,2
5759	C5H11N3O2	n-butylnitrosourea	869-01-2	445.68	38.690	2	5874	C5H12O2	3-methyl-1,2-butanediol	50468-22-9	473.15	54.294	1,2
5760	C5H11N3O2	1,1-dimethyl-3-ethyl-3-nitrosourea	50285-71-7	445.68	38.690	2	5875	C5H12O2	3-methyl-1,3-butanediol	2568-33-4	472.15	53.616	1,2
5761	C5H11N3O2	N-isobutyl-N-nitrosourea	760-60-1	426.95	36.912	1,2	5876	C5H12O2	2-ethyl-1,3-propanediol	2612-29-5	475.20	54.456	2
5762	C5H11N3O2	nitroso-sec-butylurea	71752-66-4	445.68	38.690	2	5877	C5H12O2	diethoxymethane	462-95-3	361.15	30.721	1,2
5763	C5H11N3O2	1-nitroso-1,3-diethylurea	49540-32-1	464.40	40.474	1,2	5878	C5H12O2	1,1-dimethoxypropane	4744-10-9	359.15	30.534	1,2
5766	C5H11N5O3	N-isobutyl-N'-nitro-N-nitrosoguanidine	5461-85-8	348.15	29.509	1,2	5879	C5H12O2	2,2-dimethoxypropane	77-76-9	356.15	30.254	1,2
5767	C5H11N5O3	1-nitroso-3-nitro-1-butylguanidine	13010-08-7	348.15	29.509	2	5880	C5H12O2	1-ethoxy-2-methoxyethane	5137-45-1	375.25	32.040	1,2
5772	C5H12	pentane	109-66-0	309.22	25.990	1,2	5881	C5H12O2	1-ethoxy-2-propanol	1569-02-4	404.15	40.373	1,2
5773	C5H12	isopentane	78-78-4	300.99	24.793	1,2	5882	C5H12O2	2-ethoxy-1-propanol	19089-47-5	413.65	35.653	1,2
5774	C5H12	neopentane	463-82-1	282.65	22.744	1,2	5883	C5H12O2	2-isopropoxyethanol	109-59-1	418.15	36.079	1,2
5779	C5H12ClO2PS2	chlormephos	24934-91-6	356.15	30.254	1,2	5884	C5H12O2	3-methoxy-1-butanol	2517-43-3	430.15	37.215	1,2
5791	C5H12NO4PS	omethoate	1113-02-6	408.15	35.134	1,2	5885	C5H12O2	1,2-dimethoxypropane	7778-85-0	369.05	31.459	1,2
5793	C5H12N2	1-methylpiperazine	109-01-3	411.15	35.417	1,2	5886	C5H12O2	3-ethoxy-1-propanol	111-35-3	420.00	36.254	1,2
5794	C5H12N2	2-methylpiperazine	109-07-9	426.15	36.836	1,2	5887	C5H12O2	1-methoxy-2-butanol	53778-73-7	407.15	41.582	1,2
5795	C5H12N2	1-piperidinamine	2213-43-6	420.15	36.268	1,2	5888	C5H12O2	(R,R)-(-)-2,4-pentanediol	42075-32-1	444.01	38.532	2
5796	C5H12N2	(S)-(+)-2-(aminomethyl)pyrrolidine	69500-64-7	426.17	36.838	2	5889	C5H12O2	(2S,4S)-(+)-pentanediol	72345-23-4	444.01	38.532	2
5797	C5H12N2	homopiperazine	505-66-8	442.25	38.364	1,2	5890	C5H12O2	ethyl ether of propylene glycol	52125-53-8	444.01	38.532	2
5798	C5H12N2	(S)-(+)-2-methylpiperazine	74879-18-8	428.65	37.073	1,2	5891	C5H12O2	tert-pentyl hydroperoxide	3425-61-4	444.01	38.532	2
5799	C5H12N2	(R)-(-)-2-methylpiperazine	75336-86-6	428.65	37.073	1,2	5895	C5H12O2Si	dimethoxymethylvinylsilane	16753-62-1	377.65	32.265	1,2
5800	C5H12N2O	butylurea	592-31-4	445.42	38.665	2	5896	C5H12O2Si	trimethylsilyl acetate	2754-27-0	378.40	32.335	1,2
5802	C5H12N2O	N,N-diethylurea	634-95-7	445.42	38.665	2	5897	C5H12O2Si	(trimethylsilyl)acetic acid	2345-38-2	405.35	34.870	1,2
5803	C5H12N2O	N,N'-diethylurea	623-76-7	536.15	47.368	1,2	5899	C5H12O3	2-(2-methoxyethoxy)ethanol	111-77-3	466.75	46.384	1,2
5804	C5H12N2O	tetramethylurea	632-22-4	449.65	39.068	1,2	5900	C5H12O3	1,3-dimethoxy-2-propanol	623-69-8	442.15	38.355	1,2
5805	C5H12N2O	(1-methylpropyl)urea	689-11-2	445.42	38.665	2	5902	C5H12O3	1,2,3-pentanetriol	5371-48-2	460.64	40.116	2
5806	C5H12N2O	N-n-butyl-N-formylhydrazine	16120-70-0	445.42	38.665	2	5903	C5H12O3	1,2,5-pentanetriol	14697-46-2	460.64	40.116	2
5807	C5H12N2O	ethyl isopropylnitrosamine	16339-04-1	445.42	38.665	2	5904	C5H12O3	1,3,5-pentanetriol	4328-94-3	460.64	40.116	2
5808	C5H12N2O	methyl-azoxy-butane	11069-34-4	445.42	38.665	2	5905	C5H12O3	1,1,1-trimethoxyethane	1445-45-0	381.15	32.593	1,2
5809	C5H12N2O	methylbutylnitrosamine	7068-83-9	350.45	29.723	1,2	5906	C5H12O3	3-ethoxy-1,2-propanediol	1874-62-0	495.15	43.418	1,2
5810	C5H12N2O	methyl-tert-butylnitrosamine	2504-18-9	445.42	38.665	2	5907	C5H12O3	methoxyacetaldehyde dimethyl acetal	24332-20-5	460.64	40.116	2
5812	C5H12N2O2	tert-butyl carbazate	870-46-2	387.15	33.156	2	5908	C5H12O3	2,3,4-pentanetriol	14642-48-9	518.00	45.616	1,2
5813	C5H12N2O2	azaleucine	4746-36-5	387.15	33.156	2	5909	C5H12O3S	butyl methyl sulfite	33653-28-0	445.15	38.640	2
5814	C5H12N2O2	N-ethyl-N-(3-hydroxypropyl)nitrosamine	61734-88-1	387.15	33.156	1,2	5910	C5H12O3S	butyl mesylate	1912-32-9	445.15	38.640	2
5815	C5H12N2O2	1-methoxy ethyl ethylnitrosamine	61738-03-2	387.15	33.156	2	5911	C5H12O3Si	trimethoxy(vinyl)silane	2768-02-7	396.05	33.993	1,2
5816	C5H12N2O2	N-methyl-N-(4-hydroxybutyl)nitrosamine	51938-16-0	387.15	33.156	2	5912	C5H12O4	pentaerythritol	115-77-5	631.00	104.800	1,2
5822	C5H12N2S	N,N'-diethylthiourea	105-55-5	518.15	45.631	2	5913	C5H12O4	tetramethoxymethane	1850-14-2	387.15	33.156	1,2
5823	C5H12N2S	tetramethylthiourea	2782-91-4	518.15	45.631	1,2	5914	C5H12O4S	butyl methyl sulfate	3518-51-2	494.96	43.400	2
5824	C5H12N2S	n-butyl thiourea	1516-32-1	518.15	45.631	2	5915	C5H12O4S	ethyl propyl sulfate	5867-94-7	494.96	43.400	2
5831	C5H12O	1-pentanol	71-41-0	410.95	43.552	1,2	5916	C5H12O5	ribitol	488-81-3	489.15	42.843	2
5832	C5H12O	2-pentanol	6032-29-7	392.15	39.805	1,2	5917	C5H12O5	xylitol	87-99-0	489.15	42.843	1,2
5833	C5H12O	3-pentanol	584-02-1	388.45	30.041	1,2	5918	C5H12O5	D-arabitol	488-82-4	489.15	42.843	2
5834	C5H12O	2-methyl-1-butanol	137-32-6	401.85	44.747	1,2	5919	C5H12O5	L(-)-arabitol	7643-75-6	489.15	42.843	2
5835	C5H12O	2-methyl-1-butanol, (±)	34713-94-5	400.65	34.426	1,2	5921	C5H12S	pentyl mercaptan	110-66-7	399.79	35.178	1,2
5836	C5H12O	3-methyl-2-butanol, (±)	70116-68-6	386.05	38.150	1,2	5922	C5H12S	2-pentanethiol	2084-19-7	385.55	33.101	1,2
5837	C5H12O	3-methyl-1-butanol	123-51-3	404.35	45.775	1,2	5923	C5H12S	3-pentanethiol	616-31-9	387.05	33.400	1,2
5838	C5H12O	tert-pentyl-alcohol	75-85-4	375.15	37.752	1,2	5924	C5H12S	2-methyl-1-butanethiol	1878-18-8	392.15	33.813	1,2
5839	C5H12O	3-methyl-2-butanol	598-75-4	384.65	43.205	1,2	5925	C5H12S	3-methyl-1-butanethiol	541-31-1	391.50	32.829	1,2
5840	C5H12O	2,2-dimethyl-1-propanol	75-84-3	386.25	41.350	1,2	5926	C5H12S	2-methyl-2-butanethiol	1679-09-0	372.28	31.367	1,2
5841	C5H12O	methyl butyl ether	628-28-4	343.35	30.468	1,2	5927	C5H12S	3-methyl-2-butanethiol	2084-18-6	382.91	32.655	1,2
5842	C5H12O	methyl isobutyl ether	625-44-5	331.70	28.090	1,2	5928	C5H12S	2,2-dimethyl-1-propanethiol	1679-08-9	376.83	32.098	1,2
5843	C5H12O	methyl sec-butyl ether	6795-87-5	332.15	28.885	1,2	5929	C5H12S	2-methyl-1-butanethiol, (+)	20089-07-0	392.25	34.827	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
5930	C5H12S	methyl butyl sulfide	628-29-5	396.58	34.309	1,2	6027	C5H14O3Si	ethyltrimethoxysilane	5314-55-6	397.45	34.125	1,2
5931	C5H12S	ethyl propyl sulfide	4110-50-3	391.65	34.727	1,2	6029	C5H14Si	diethylmethylsilane	760-32-7	351.15	29.788	1,2
5932	C5H12S	3-methyl-2-thiapentane	10359-64-5	385.15	32.677	1,2	6030	C5H14Si	dimethylisopropylsilane	18209-61-5	339.65	28.719	1,2
5933	C5H12S	4-methyl-2-thiapentane	5008-69-5	385.65	32.772	1,2	6031	C5H15ClSi2	chloropentamethyldisilane	1560-28-7	408.15	35.134	1,2
5934	C5H12S	2-methyl-3-thiapentane	5145-99-3	380.53	31.814	1,2	6033	C5H15NSi	pentamethylsilanamine	2083-91-2	359.15	30.534	1,2
5935	C5H12S	3,3-dimethyl-2-thiabutane	6163-64-0	372.05	30.320	1,2	6035	C5H15N3	N-(2-aminoethyl)-1,3-propanediamine	13531-52-7	494.15	43.322	1,2
5936	C5H12S2	1,5-pentanedithiol	928-98-3	489.15	42.843	1,2	6041	C5H18B10S	dicarbadodecaboranylmethylethyl sulfide	62906-35-8	348.15	29.509	1,2
5937	C5H12S2	1,3-bis(methylthio)propane	24949-35-7	364.15	21.874	1,2	6042	C5H20Cl2N6O8Ru	pentaamminepyridineruthenium(ii) perchlorate	19482-31-6	379.65	32.452	1,2
5938	C5H12S2	1,1'-[methylenebis(thio)]bisethane	4396-19-4	426.65	34.295	2	6043	C5H20O5Si5	2,4,6,8,10-pentamethylcyclopentasiloxane	6166-86-5	442.15	38.355	1,2
5941	C5H12Si	vinyltrimethylsilane	754-05-2	328.15	27.652	1,2	6045	C6BrF5	bromopentafluorobenzene	344-04-7	410.15	35.323	1,2
5943	C5H13ClOSi	2-chloroethoxytrimethylsilane	18157-17-0	407.15	35.039	1,2	6046	C6BrF13	perfluorohexyl bromide	335-56-8	371.65	31.702	1,2
5944	C5H13ClOSi	dimethylchloromethylethoxysilane	13508-53-7	407.15	35.039	2	6047	C6Br2F4	1,2-dibromo-3,4,5,6-tetrafluorobenzene	827-08-7	471.15	41.119	1,2
5945	C5H13ClSi	chloro(dimethyl)isopropylsilane	3634-56-8	384.65	32.921	1,2	6048	C6Br2F4	1,3-dibromotetrafluorobenzene	1559-87-1	471.15	41.119	2
5947	C5H13N	pentylamine	110-58-7	377.65	34.963	1,2	6049	C6Br2F4	1,4-dibromotetrafluorobenzene	344-03-6	471.15	41.119	2
5948	C5H13N	1-methylbutylamine	625-30-9	364.85	32.514	1,2	6052	C6ClF5	chloropentafluorobenzene	344-07-0	391.11	33.528	1,2
5949	C5H13N	2-methylbutylamine	96-15-1	368.65	32.930	1,2	6053	C6ClF5O2S	pentafluorobenzenesulfonyl chloride	832-53-1	483.60	42.311	1,2
5950	C5H13N	3-methylbutylamine	107-85-7	370.15	33.062	1,2	6055	C6Cl2F4	1,2-dichloro-3,4,5,6-tetrafluorobenzene	1198-59-0	430.85	37.282	1,2
5951	C5H13N	1,1-dimethylpropylamine	594-39-8	350.15	30.839	1,2	6056	C6Cl2F4	1,3-dichloro-2,4,5,6-tetrafluorobenzene	1198-61-4	430.85	37.282	2
5952	C5H13N	1,2-dimethylpropylamine	598-74-3	357.15	31.566	1,2	6057	C6Cl2F4	1,4-dichloro-2,3,5,6-tetrafluorobenzene	1198-62-5	430.85	37.282	2
5953	C5H13N	2,2-dimethylpropylamine	5813-64-9	350.15	30.771	1,2	6058	C6Cl2F8	1,2-dichloro-3,3,4,4,5,5,6,6-octafluorocyclo*	336-19-6	386.15	33.062	1,2
5954	C5H13N	3-pentanamine	616-24-0	362.15	34.957	1,2	6059	C6Cl2HgO4	(2,5-dichloro-3,6-dihydroxy-p-benzoquinolato*	33770-60-4	493.15	43.226	2
5955	C5H13N	methyl-butylamine	110-68-9	364.25	32.713	1,2	6061	C6Cl3F3	1,3,5-trichloro-2,4,6-trifluorobenzene	319-88-0	471.55	41.157	1,2
5956	C5H13N	methylisobutylamine	14610-37-8	350.15	30.985	1,2	6065	C6Cl5NO2	pentachloronitrobenzene	82-68-8	601.15	53.683	2
5957	C5H13N	methyl-sec-butylamine	7713-69-1	351.65	31.146	1,2	6067	C6Cl6	hexachlorobenzene	118-74-1	582.55	60.831	1,2
5958	C5H13N	methyl-tert-butylamine	625-43-4	346.15	30.415	1,2	6073	C6D6	benzene-d6	1076-43-3	345.43	29.256	1,2
5959	C5H13N	ethylpropylamine	20193-20-8	353.45	31.128	1,2	6074	C6D12	cyclohexane-d12	1735-17-7	351.15	29.788	1,2
5960	C5H13N	ethylisopropylamine	19961-27-4	349.15	30.886	1,2	6077	C6F5I	pentafluoroiodobenzene	827-15-6	439.15	38.070	1,2
5961	C5H13N	methyldiethylamine	616-39-7	339.15	29.513	1,2	6079	C6F5NO2	pentafluoronitrobenzene	880-78-4	432.65	37.453	1,2
5962	C5H13N	dimethyl-propylamine	926-63-6	339.15	27.720	1,2	6080	C6F6	hexafluorobenzene	392-56-3	353.41	31.689	1,2
5963	C5H13N	dimethylisopropylamine	996-35-6	339.15	29.246	1,2	6081	C6F8	1,2,3,3,4,5,6,6-octafluoro-1,4-cyclohexadiene	775-51-9	330.65	27.884	1,2
5964	C5H13N	(S)-(-)-2-methylbutylamine	20626-52-2	354.02	32.104	2	6082	C6F8	1,2,3,4,5,5,6,6-octafluoro-1,3-cyclohexadiene	377-70-8	336.65	28.440	1,2
5965	C5H13N	N,N-dimethyl-2-propanamine	996-35-0	339.18	27.699	1,2	6084	C6F9N3	2,4,6-tris-(trifluoromethyl)-1,3,5-triazine	368-66-1	369.80	31.529	1,2
5966	C5H13NO	2-amino-3-methyl-1-butanol, (±)	16369-05-4	435.30	44.118	2	6087	C6F10	perfluorocyclohexene	355-75-9	325.15	27.375	1,2
5967	C5H13NO	2-amino-3-pentanol	116836-16-9	444.15	38.545	1,2	6088	C6F10O3	pentafluoropropionic anhydride	356-42-3	344.55	29.174	1,2
5968	C5H13NO	5-amino-1-pentanol	2508-29-4	494.65	43.370	1,2	6091	C6F12	perfluoro-1-hexene	755-25-9	330.15	27.837	1,2
5969	C5H13NO	1-(dimethylamino)-2-propanol	108-16-7	397.65	32.096	1,2	6092	C6F12	1,1,2,2,3,4-hexafluoro-3,4-bis(trifluorometh*	2994-71-0	318.15	26.728	1,2
5970	C5H13NO	2-(dimethylamino)-1-propanol	15521-18-3	423.45	39.720	1,2	6093	C6F12	perfluoro-2-methyl-2-pentene	1584-03-8	330.15	27.837	1,2
5971	C5H13NO	3-(dimethylamino)-1-propanol	3179-63-3	436.65	44.664	1,2	6094	C6F12N2	hexafluoroacetone azine	1619-84-7	340.65	28.811	1,2
5972	C5H13NO	2-ethoxy-N-methylethanamine	38256-94-9	388.15	33.250	1,2	6095	C6F13I	tridecafluoro-1-iodohexane	355-43-1	401.65	34.521	1,2
5973	C5H13NO	2-(isopropylamino)ethanol	109-56-8	446.15	38.735	1,2	6096	C6F14	perfluoro-2,3-dimethylbutane	354-96-1	332.95	28.097	1,2
5974	C5H13NO	neurine	463-88-7	435.30	37.704	2	6097	C6F14	perfluorohexane	355-42-0	329.75	27.800	1,2
5975	C5H13NO	2-(propylamino)ethanol	16369-21-4	455.15	39.592	1,2	6098	C6F14	perfluoro-2-methylpentane	355-04-4	330.75	27.893	1,2
5976	C5H13NO	(S)-(+)-2-amino-3-methyl-1-butanol	2026-48-4	435.30	44.118	2	6099	C6F14	perfluoro-3-methylpentane	865-71-4	331.55	27.967	1,2
5977	C5H13NO	(R)-(-)-2-amino-3-methyl-1-butanol	4276-09-9	462.65	40.307	1,2	6100	C6F15N	perfluorotriethylamine	359-70-6	343.45	29.072	1,2
5978	C5H13NO	2-amino-3-methyl-1-butanol	473-75-6	435.30	44.118	2	6102	C6HBrF4	1-bromo-2,3,5,6-tetrafluorobenzene	1559-88-2	416.40	35.913	1,2
5979	C5H13NO	DL-2-amino-1-pentanol	4146-04-7	467.65	40.785	1,2	6108	C6HCl3F8O2	3,5,6-trichloro-2,2,3,4,4,5,6,6-octafluorohe*	2106-54-9	505.15	44.379	1,2
5980	C5H13NO	(S)-(+)-1-dimethylamino-2-propanol	53636-17-2	397.15	31.969	1,2	6112	C6HCl4NO2	1,2,4,5-tetrachloro-3-nitrobenzene	117-18-0	577.15	51.344	1,2
5981	C5H13NO	3-ethoxypropylamine	6291-85-6	410.15	35.323	1,2	6113	C6HCl4NO2	2,3,4,6-tetrachloronitrobenzene	3714-62-3	485.40	42.483	2
5985	C5H13NOSi	N-(trimethylsilyl)acetamide	13435-12-6	458.55	39.916	1,2	6114	C6HCl4NO2	1,2,3,4-tetrachloro-5-nitrobenzene	879-39-0	393.65	33.767	1,2
5986	C5H13NO2	methyl diethanolamine	105-59-9	520.15	69.849	1,2	6115	C6HCl5	pentachlorobenzene	608-93-5	549.15	50.983	1,2
5987	C5H13NO2	2-amino-2-ethyl-1,3-propanediol	115-70-8	449.90	40.594	2	6116	C6HCl5O	pentachlorophenol	87-86-5	583.15	51.928	2
5988	C5H13NO2	ammonium valerate	42739-38-8	449.90	39.092	2	6118	C6HF2N3O3	3,4-difluoro-2-nitrobenzenediazonium-6-oxide	---	394.95	33.890	2
5989	C5H13NO2	2,2-dimethoxy-N-methylethanamine	122-07-6	413.15	35.606	1,2	6119	C6HF2N3O3	3,6-difluoro-2-nitrobenzenediazonium-4-oxide	---	394.95	33.890	1,2
5990	C5H13NO2	1-[(2-hydroxyethyl)amino]-2-propanol	6579-55-1	449.90	39.092	2	6122	C6HF5	pentafluorobenzene	363-72-4	358.89	30.510	1,2
5991	C5H13NO2	3-(dimethylamino)-1,2-propanediol	623-57-4	489.65	42.891	1,2	6123	C6HF5	1,2,3,4,5-pentafluorobicyclo(2.2.0)hexa-2,5-*	21892-31-9	358.89	30.510	2
5992	C5H13NO2	N,N-dimethylformamide dimethyl acetal	4637-24-5	376.65	32.171	1,2	6124	C6HF5O	pentafluorophenol	771-61-9	418.75	36.136	1,2
5994	C5H13N2O6PS	methylcarbamoylmethylaminomethylphosphonic a*	98565-18-5	249.85	20.488	1,2	6125	C6HF5S	pentafluorobenzenethiol	771-62-0	416.15	35.890	1,2
5995	C5H13N3	1,1,3,3-tetramethylguanidine	80-70-6	446.65	38.783	2	6126	C6HF11	undecafluorocyclohexane	308-24-7	335.15	28.301	1,2
5996	C5H13N3	1-amino-4-methylpiperazine	6928-85-4	446.65	38.783	1,2	6128	C6HN3O8Pb	lead trinitroresorcinate	63918-97-8	414.15	35.701	1,2
5997	C5H13O2PS	O,O'-diethyl methylphosphonothioate	6996-81-2	472.05	41.205	1,2	6129	C6HN5O7	2,3,5-trinitrobenzenediazonium-4-oxide	---	383.15	32.780	1,2
5998	C5H13O2PS	O,S-diethyl methylthiophosphonate	2511-10-6	502.55	44.129	1,2	6133	C6H2BrF3	1-bromo-2,3,4-trifluorobenzene	176317-02-5	415.28	35.807	2
5999	C5H13O3P	diethyl methylphosphonate	683-08-9	467.15	40.737	1,2	6134	C6H2BrF3	1-bromo-3,4,5-trifluorobenzene	138526-69-9	415.28	35.807	2
6003	C5H13P	diethylmethylphosphine	1605-58-9	412.65	35.559	1,2	6135	C6H2BrF3	1-bromo-2,4,6-trifluorobenzene	2367-76-2	413.40	35.630	1,2
6009	C5H14N2	1,5-pentanediamine	462-94-2	452.15	39.306	1,2	6136	C6H2BrF3	1-bromo-2,4,5-trifluorobenzene	327-52-6	417.15	35.984	1,2
6010	C5H14N2	N,N,N',N'-tetramethylmethanediamine	51-80-9	356.15	23.203	1,2	6149	C6H2Br4	1,2,3,5-tetrabromobenzene	634-89-9	602.15	53.780	1,2
6011	C5H14N2	1,3-diaminopentane	589-37-7	437.15	43.280	1,2	6150	C6H2Br4	1,2,4,5-tetrabromobenzene	636-28-2	602.15	53.780	2
6012	C5H14N2	3-dimethylamino-1-propylamine	109-55-7	406.65	33.672	1,2	6155	C6H2ClF3	1-chloro-2,4,6-trifluorobenzene	2106-40-3	397.15	34.097	1,2
6013	C5H14N2	N,N'-dimethyl-1,3-propanediamine	111-33-1	418.15	36.901	1,2	6160	C6H2Cl2F3N	2,6-dichloro-3-(trifluoromethyl)pyridine	55304-75-1	468.15	40.833	1,2
6014	C5H14N2	2,2-dimethyl-1,3-propanediamine	7328-91-8	426.15	39.410	1,2	6161	C6H2Cl2F3N	2,3-dichloro-5-(trifluoromethyl)pyridine	69045-84-7	449.15	39.021	1,2
6015	C5H14N2	1-dimethylamino-2-propylamine	62689-51-4	385.65	28.699	1,2	6162	C6H2Cl2FNO2	1,2-dichloro-4-fluoro-5-nitrobenzene	2339-78-8	520.15	45.824	1,2
6016	C5H14N2	N-isopropylethylenediamine	19522-67-9	409.15	34.339	1,2	6163	C6H2Cl2FNO2	2,6-dichloro-5-fluoropyridine-3-carboxylicac*	82671-06-5	520.15	45.824	2
6017	C5H14N2	N-propylethylenediamine	111-39-7	421.65	37.970	1,2	6170	C6H2Cl3NO2	1,2,3-trichloro-5-nitrobenzene	20098-48-0	561.15	49.789	2
6018	C5H14N2	N,N,N'-trimethylethylenediamine	142-25-6	390.15	29.678	1,2	6171	C6H2Cl3NO2	1,2,4-trichloro-5-nitrobenzene	89-69-0	561.15	49.789	1,2
6019	C5H14N2	methylbutyl hydrazine	20240-62-4	422.95	36.533	2	6174	C6H2Cl4	1,2,3,4-tetrachlorobenzene	634-66-2	527.25	48.228	1,2
6020	C5H14N2O	1-[(2-aminoethyl)amino]-2-propanol	123-84-2	528.15	46.595	2	6175	C6H2Cl4	1,2,3,5-tetrachlorobenzene	634-90-2	519.25	47.463	1,2
6021	C5H14N2O	2-[(3-aminopropyl)amino]ethanol	4461-39-6	528.15	46.595	1,2	6176	C6H2Cl4	1,2,4,5-tetrachlorobenzene	95-94-3	518.25	47.368	1,2
6022	C5H14N2O2	dimethylammonium dimethylcarbamate	4137-10-4	333.65	28.162	1,2	6186	C6H2F3NO2	1,2,4-trifluoro-5-nitrobenzene	2105-61-5	467.65	40.785	1,2
6023	C5H14OSi	ethoxytrimethylsilane	1825-62-3	349.15	29.602	1,2	6187	C6H2F3NO2	1,3,5-trifluoro-2-nitrobenzene	315-14-0	451.65	39.259	1,2
6024	C5H14OSi	(methoxymethyl)trimethylsilane	14704-14-4	356.15	30.254	1,2	6188	C6H2F3NO2	1,2,3-trifluoro-4-nitrobenzene	771-69-7	459.65	40.021	2
6025	C5H14OSi	2-(trimethylsilyl)ethanol	2916-68-9	352.65	29.928	2	6189	C6H2F4	1,2,3,4-tetrafluorobenzene	551-62-2	367.45	31.309	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
6190	C6H2F4	1,2,3,5-tetrafluorobenzene	2367-82-0	357.55	30.385	1,2	6313	C6H3Cl3O	2,4,5-trichlorophenol	95-95-4	520.15	45.824	1,2
6191	C6H2F4	1,2,4,5-tetrafluorobenzene	327-54-8	363.35	30.926	1,2	6314	C6H3Cl3O	2,4,6-trichlorophenol	88-06-2	519.15	45.727	1,2
6192	C6H2F4O	2,3,5,6-tetrafluorophenol	769-39-1	414.10	35.696	1,2	6315	C6H3Cl3O	3,4,5-trichlorophenol	609-19-8	548.15	48.529	1,2
6194	C6H2F4S	2,3,5,6-tetrafluorothiophenol	769-40-4	425.65	36.789	1,2	6316	C6H3Cl3O	trichlorophenol	25167-82-2	525.15	46.306	1,2
6195	C6H2F5N	2,3,4,5,6-pentafluoroaniline	771-60-8	428.10	37.021	1,2	6320	C6H3Cl3O2S	2,5-dichlorobenzenesulfonyl chloride	5402-73-3	526.15	46.402	2
6196	C6H2F8O2	1,1,1,5,5,6,6,6-octafluoro-2,4-hexanedione	20825-07-4	358.65	30.487	1,2	6321	C6H3Cl3O2S	3,4-dichlorobenzenesulfonyl chloride	98-31-7	526.15	46.402	1,2
6197	C6H2HgN3NaO5	sodium-3-hydroxymercurio-2,6-dinitro-4-aci-n*	---	470.35	41.043	1,2	6327	C6H3Cl5Si	dichlorophenyltrichlorosilane	27137-85-5	533.15	47.078	1,2
6199	C6H2I3N3O3	3,4,5-triiodobenzenediazonium nitrate	68596-99-6	311.65	26.128	1,2	6328	C6H3FN2O4	1-fluoro-2,4-dinitrobenzene	70-34-8	569.15	50.566	1,2
6206	C6H2N3NaO7	sodium picrate	73771-13-8	355.15	30.161	1,2	6329	C6H3F2I	2,4-difluoro-1-iodobenzene	2265-93-2	448.65	38.973	1,2
6216	C6H3BrClF	4-bromo-1-chloro-2-fluorobenzene	60811-18-9	467.15	40.737	2	6330	C6H3F2I	1,2-difluoro-4-iodobenzene	64248-58-4	450.65	39.163	1,2
6217	C6H3BrClF	4-bromo-2-chloro-1-fluorobenzene	60811-21-4	467.15	40.737	1,2	6331	C6H3F2NO2	2,4-difluoro-1-nitrobenzene	446-35-5	480.15	41.980	1,2
6218	C6H3BrClF	1-bromo-4-chloro-2-fluorobenzene	1996-29-8	467.15	40.737	2	6332	C6H3F2NO2	2,6-difluoronitrobenzene	19064-24-5	469.90	41.000	2
6222	C6H3BrF2	1-bromo-2,4-difluorobenzene	348-57-2	418.60	36.121	1,2	6333	C6H3F2NO2	3,5-difluoronitrobenzene	2265-94-3	449.65	39.068	1,2
6223	C6H3BrF2	4-bromo-1,2-difluorobenzene	348-61-8	423.60	36.595	1,2	6334	C6H3F2NO2	1,4-difluoro-2-nitrobenzene	364-74-9	479.90	41.956	1,2
6224	C6H3BrF2	1-bromo-2,3-difluorobenzene	38573-88-5	507.15	44.572	1,2	6335	C6H3F2NO2	1,2-difluoro-4-nitrobenzene	369-34-6	469.90	41.000	2
6225	C6H3BrF2	2-bromo-1,4-difluorobenzene	399-94-0	440.63	38.210	2	6337	C6H3F3	1,2,4-trifluorobenzene	367-23-7	363.15	30.908	1,2
6226	C6H3BrF2	1-bromo-3,5-difluorobenzene	461-96-1	413.15	35.606	1,2	6338	C6H3F3	1,3,5-trifluorobenzene	372-38-3	348.65	29.555	1,2
6227	C6H3BrF2	1-bromo-2,6-difluorobenzene	64248-56-2	440.63	38.210	2	6339	C6H3F3	1,2,3-trifluorobenzene	1489-53-8	367.55	31.319	1,2
6228	C6H3BrCl2	1-bromo-2,3-dichlorobenzene	56961-77-4	518.15	45.631	1,2	6345	C6H3F3OS	2-(trifluoroacetyl)thiophene	651-70-7	437.15	37.880	1,2
6229	C6H3BrCl2	1-bromo-2,4-dichlorobenzene	1193-72-2	508.15	44.668	1,2	6346	C6H3F4N	2,3,4,6-tetrafluoroaniline	363-73-5	417.40	36.008	2
6230	C6H3BrCl2	1-bromo-3,5-dichlorobenzene	19752-55-7	505.15	44.379	1,2	6347	C6H3F4N	2,3,4,5-tetrafluoroaniline	5580-80-3	417.40	36.008	2
6231	C6H3BrCl2	2-bromo-1,3-dichlorobenzene	19393-92-1	515.15	45.342	1,2	6348	C6H3F4N	2,3,5,6-tetrafluoroaniline	700-17-4	431.15	37.310	1,2
6232	C6H3BrCl2	2-bromo-1,4-dichlorobenzene	1435-50-3	499.15	43.802	1,2	6349	C6H3F4N	2,3,5,6-tetrafluoro-4-methylpyridine	16297-14-6	403.65	34.709	1,2
6233	C6H3BrCl2	4-bromo-1,2-dichlorobenzene	18282-59-2	510.15	44.860	1,2	6351	C6H3F7O2	vinyl heptafluorobutanoate	356-28-5	352.15	29.881	1,2
6236	C6H3BrN2O4	1-bromo-2,3-dinitrobenzene	19613-76-4	593.15	52.902	1,2	6352	C6H3F9	3,3,4,4,5,5,6,6,6-nonafluoro-1-hexene	19430-93-4	332.65	28.069	1,2
6237	C6H3BrN2O4	1-bromo-2,4-dinitrobenzene	584-48-5	593.15	52.902	2	6353	C6H3HgN2NaO6	sodium-2-hydroxymercurio-6-nitro-4-aci-nitro*	---	369.65	31.515	1,2
6240	C6H3BrN4O8S	6-bromo-2,4-dinitrobenzenediazonium hydrogen*	65036-47-7	465.15	40.546	1,2	6363	C6H3N3O2	pyrazine-2,3-dicarboxylic acid imide	4933-19-1	338.65	28.626	1,2
6242	C6H3As	triethynylarsine	687-78-5	458.15	39.878	1,2	6364	C6H3N3O2	pyrimidine-4,5-dicarboxylic acid imide	56606-38-3	338.65	28.626	2
6243	C6H3Br2Cl	1,2-dibromo-3-chlorobenzene	104514-49-0	537.15	47.465	1,2	6367	C6H3N3O6	1,3,5-trinitrobenzene	99-35-4	748.00	61.220	1,2
6244	C6H3Br2Cl	1,2-dibromo-4-chlorobenzene	60956-24-3	529.15	46.692	1,2	6383	C6H4BrCl	1-bromo-2-chlorobenzene	694-80-4	477.15	41.693	1,2
6245	C6H3Br2Cl	1,3-dibromo-2-chlorobenzene	19230-27-4	538.15	47.561	1,2	6384	C6H4BrCl	1-bromo-3-chlorobenzene	108-37-2	469.15	40.928	1,2
6246	C6H3Br2Cl	1,4-dibromo-2-chlorobenzene	3460-24-0	532.15	46.982	1,2	6385	C6H4BrCl	1-bromo-4-chlorobenzene	106-39-8	469.15	40.928	1,2
6247	C6H3Br2Cl	2,4-dibromo-1-chlorobenzene	29604-75-9	531.15	46.885	1,2	6386	C6H4BrClO	3-bromo-5-chlorophenol	56962-04-0	529.15	46.692	1,2
6248	C6H3Br2F	2,4-dibromo-1-fluorobenzene	1435-53-6	483.65	42.315	2	6387	C6H4BrClO	4-bromo-2-chlorophenol	3964-56-5	506.65	44.523	1,2
6249	C6H3Br2F	1,3-dibromo-5-fluorobenzene	1435-51-4	478.15	41.789	1,2	6388	C6H4BrClO	2-bromo-4-chlorophenol	695-96-5	504.15	44.283	1,2
6250	C6H3Br2F	1,4-dibromo-2-fluorobenzene	1435-52-5	489.15	42.843	1,2	6391	C6H4BrCl2N	6-bromo-2,4-dichloroaniline	697-86-9	546.15	48.336	1,2
6251	C6H3Br2NO2	1,2-dibromo-4-nitrobenzene	5411-50-7	569.15	50.566	1,2	6392	C6H4BrF	1-bromo-2-fluorobenzene	1072-85-1	427.15	36.931	1,2
6252	C6H3Br2NO2	1,3-dibromo-2-nitrobenzene	13402-32-9	569.15	50.566	2	6393	C6H4BrF	1-bromo-3-fluorobenzene	1073-06-9	423.15	36.552	1,2
6253	C6H3Br2NO2	1,3-dibromo-5-nitrobenzene	6311-60-0	569.15	50.566	2	6394	C6H4BrF	1-bromo-4-fluorobenzene	460-00-4	424.65	36.694	1,2
6254	C6H3Br2NO2	1,4-dibromo-2-nitrobenzene	3460-18-2	569.15	50.566	2	6399	C6H4BrI	1-bromo-2-iodobenzene	583-55-1	530.15	46.788	1,2
6255	C6H3Br2NO2	2,4-dibromo-1-nitrobenzene	51686-78-3	569.15	50.566	2	6400	C6H4BrI	1-bromo-3-iodobenzene	591-18-4	525.15	46.306	1,2
6257	C6H3Br3	1,2,3-tribromobenzene	608-21-9	546.15	48.336	2	6401	C6H4BrI	1-bromo-4-iodobenzene	589-87-7	525.15	46.306	1,2
6258	C6H3Br3	1,2,4-tribromobenzene	615-54-3	548.15	48.529	1,2	6403	C6H4BrNO2	1-bromo-2-nitrobenzene	577-19-5	531.15	46.885	1,2
6259	C6H3Br3	1,3,5-tribromobenzene	626-39-1	544.15	48.142	1,2	6404	C6H4BrNO2	1-bromo-3-nitrobenzene	585-79-5	538.15	47.561	1,2
6260	C6H3Br3O	2,4,6-tribromophenol	118-79-6	559.15	49.595	1,2	6405	C6H4BrNO2	1-bromo-4-nitrobenzene	586-78-7	529.15	46.692	1,2
6262	C6H3ClFNO2	2-chloro-5-fluoronitrobenzene	345-17-5	511.15	44.956	1,2	6406	C6H4BrNO2	5-bromonicotinic acid	20826-04-4	532.82	47.046	2
6263	C6H3ClFNO2	3-chloro-4-fluoronitrobenzene	350-30-1	511.15	44.956	2	6411	C6H4Br2	m-dibromobenzene	108-36-1	491.15	43.887	1,2
6264	C6H3ClF2	1-chloro-3,5-difluorobenzene	1435-43-4	391.15	33.532	1,2	6412	C6H4Br2	o-dibromobenzene	583-53-9	498.15	46.494	1,2
6265	C6H3ClF2	1-chloro-2,4-difluorobenzene	1435-44-5	400.15	34.379	1,2	6413	C6H4Br2	p-dibromobenzene	106-37-6	491.65	44.507	1,2
6266	C6H3ClF2	1-chloro-2,5-difluorobenzene	2367-91-1	400.15	34.379	1,2	6414	C6H4Br2	dibromobenzene	26249-12-7	493.65	45.106	2
6267	C6H3ClF2	1-chloro-3,4-difluorobenzene	696-02-6	402.15	34.568	1,2	6416	C6H4Br2N2O2	2,4-dibromo-6-nitroaniline	827-23-6	480.15	41.980	2
6268	C6H3ClF3N	2-chloro-5-(trifluoromethyl)pyridine	52334-81-3	425.65	36.789	1,2	6417	C6H4Br2N2O2	2,6-dibromo-4-nitroaniline	827-94-1	480.15	41.980	1,2
6269	C6H3ClF6O	1-chloro-3,3,4,4,5,5-hexafluoro-2-methoxycyc*	336-34-5	357.15	30.347	1,2	6418	C6H4Br2O	2,4-dibromophenol	615-58-7	511.65	45.005	1,2
6275	C6H3Cl2F	2,4-dichloro-1-fluorobenzene	1435-48-9	446.15	38.735	1,2	6419	C6H4Br2O	2,6-dibromophenol	608-33-3	528.15	46.595	1,2
6276	C6H3Cl2F	1,2-dichloro-4-fluorobenzene	1435-49-0	445.15	38.640	1,2	6420	C6H4Br2O	3,5-dibromophenol	626-41-5	547.15	48.432	1,2
6277	C6H3Cl2F	1,3-dichloro-2-fluorobenzene	2268-05-5	441.65	38.307	1,2	6421	C6H4Br3N	2,4,6-tribromoaniline	147-82-0	573.15	50.955	1,2
6278	C6H3Cl2F	1,4-dichloro-2-fluorobenzene	348-59-4	441.15	38.260	1,2	6422	C6H4ClF	1-chloro-2-fluorobenzene	348-51-6	410.75	35.379	1,2
6281	C6H3ClN2O4	1-chloro-2,4-dinitrobenzene	97-00-7	588.00	63.773	1,2	6423	C6H4ClF	1-chloro-3-fluorobenzene	625-98-9	400.75	34.436	1,2
6282	C6H3ClN2O4	2-chloro-1,3-dinitrobenzene	606-21-3	588.15	52.415	1,2	6424	C6H4ClF	1-chloro-4-fluorobenzene	352-33-0	403.15	34.662	1,2
6283	C6H3ClN2O4	1-chloro-3,4-dinitrobenzene	610-40-2	588.15	52.415	1,2	6426	C6H4ClFO	2-chloro-4-fluorophenol	1996-41-4	444.65	38.592	1,2
6284	C6H3ClN2O4	chlorodinitrobenzene	25567-67-3	588.10	52.410	2	6427	C6H4ClFO	3-chloro-4-fluorophenol	2613-23-2	450.90	39.187	2
6289	C6H3Cl2I	1,4-dichloro-2-iodobenzene	29682-41-5	526.15	46.402	1,2	6428	C6H4ClFO	4-chloro-3-fluorophenol	348-60-7	450.90	39.187	2
6290	C6H3Cl2I	3,4-dichloroiodobenzene	20555-91-3	530.90	46.861	2	6429	C6H4ClFO	4-chloro-2-fluorophenol	348-62-9	450.90	39.187	2
6291	C6H3Cl2I	1,2-dichloro-3-iodobenzene	2401-21-0	530.90	46.861	2	6430	C6H4ClFO	2-chloro-5-fluorophenol	3827-49-4	457.15	39.783	1,2
6292	C6H3Cl2I	1,3-dichloro-4-iodobenzene	29898-32-6	535.65	47.320	1,2	6435	C6H4ClF3N2	2-amino-3-chloro-5-(trifluoromethyl)pyridine	79456-26-1	478.15	41.789	1,2
6293	C6H3Cl2I	1,3-dichloro-5-iodobenzene	3032-81-3	530.90	46.861	2	6437	C6H4ClI	1-chloro-2-iodobenzene	615-41-8	507.65	44.620	1,2
6296	C6H3Cl2NO2	1,2-dichloro-4-nitrobenzene	99-54-7	529.00	52.781	1,2	6438	C6H4ClI	1-chloro-3-iodobenzene	625-99-0	503.15	44.187	1,2
6297	C6H3Cl2NO2	clopyralid	1702-17-6	532.86	47.050	2	6439	C6H4ClI	1-chloro-4-iodobenzene	637-87-6	500.15	43.899	1,2
6298	C6H3Cl2NO2	1,2-dichloro-3-nitrobenzene	3209-22-1	530.65	46.837	1,2	6442	C6H4ClNO	4-chloroimino-2,5-cyclohexadiene-1-one	637-61-6	419.15	36.173	1,2
6299	C6H3Cl2NO2	1,3-dichloro-2-nitrobenzene	601-88-7	532.86	47.050	2	6443	C6H4ClNO2	m-chloronitrobenzene	121-73-3	508.75	50.268	1,2
6300	C6H3Cl2NO2	1,3-dichloro-5-nitrobenzene	618-62-2	532.86	47.050	2	6444	C6H4ClNO2	o-chloronitrobenzene	88-73-3	519.00	51.258	1,2
6301	C6H3Cl2NO2	1,4-dichloro-2-nitrobenzene	89-61-2	540.15	47.755	1,2	6445	C6H4ClNO2	p-chloronitrobenzene	100-00-5	515.15	50.973	1,2
6302	C6H3Cl2NO2	2,4-dichloro-1-nitrobenzene	611-06-3	531.65	46.933	1,2	6446	C6H4ClNO2	6-chloronicotinic acid	5326-23-8	514.30	45.260	2
6305	C6H3Cl3	1,2,4-trichlorobenzene	120-82-1	486.15	44.108	1,2	6447	C6H4ClNO2	chloronitrobenzene	25167-93-5	514.30	45.260	2
6306	C6H3Cl3	1,2,3-trichlorobenzene	87-61-6	491.75	44.271	1,2	6448	C6H4ClNO2	6-chloropicolinic acid	4684-94-0	514.30	45.260	2
6307	C6H3Cl3	1,3,5-trichlorobenzene	108-70-3	481.55	43.311	1,2	6458	C6H4ClNO5	3-nitroperchlorylbenzene	20731-44-6	486.15	42.555	1,2
6308	C6H3Cl3	trichlorobenzene	12002-48-1	486.40	44.738	1,2	6465	C6H4ClN3O4	6-chloro-2,4-dinitroaniline	3531-19-9	553.15	49.014	1,2
6310	C6H3Cl3O	2,3,4-trichlorophenol	15950-66-0	528.15	46.595	2	6466	C6H4ClN3O4	4-chloro-2,6-dinitroaniline	5388-62-5	553.15	49.014	2
6311	C6H3Cl3O	2,3,5-trichlorophenol	933-78-8	528.15	46.595	2	6469	C6H4Cl2	o-dichlorobenzene	95-50-1	453.57	39.936	1,2
6312	C6H3Cl3O	2,3,6-trichlorophenol	933-75-5	528.15	46.595	2	6470	C6H4Cl2	m-dichlorobenzene	541-73-1	446.23	38.990	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
6471	C6H4Cl2	p-dichlorobenzene	106-46-7	447.21	39.733	1,2	6671	C6H5BrO	o-bromophenol	95-56-7	467.65	40.785	1,2
6472	C6H4Cl2	1,6-dichloro-2,4-hexadiyne	16260-59-6	449.00	39.007	2	6672	C6H5BrO	m-bromophenol	591-20-8	509.65	44.812	1,2
6479	C6H4Cl2O	2,3-dichlorophenol	576-24-9	498.55	43.745	2	6673	C6H5BrO	p-bromophenol	106-41-2	511.15	44.956	1,2
6480	C6H4Cl2O	2,4-dichlorophenol	120-83-2	483.15	42.268	1,2	6674	C6H5BrO	bromophenol	32762-51-9	496.15	43.514	2
6481	C6H4Cl2O	2,5-dichlorophenol	583-78-8	484.15	42.363	1,2	6679	C6H5BrS	4-bromobenzenethiol	106-53-6	503.65	44.235	1,2
6482	C6H4Cl2O	2,6-dichlorophenol	87-65-0	493.15	43.226	1,2	6680	C6H5BrS	3-bromothiophenol	6320-01-0	503.65	44.235	2
6483	C6H4Cl2O	3,4-dichlorophenol	95-77-2	526.15	46.402	1,2	6681	C6H5BrS	2-bromothiophenol	6320-02-1	503.65	44.235	2
6484	C6H4Cl2O	3,5-dichlorophenol	591-35-5	506.15	44.475	1,2	6683	C6H5Br2N	2,4-dibromoaniline	615-57-6	454.65	39.544	2
6486	C6H4Cl2O2	3,5-dichloro-1,2-benzenediol	13673-92-2	527.15	46.499	2	6684	C6H5Br2N	2,6-dibromoaniline	608-30-0	536.15	47.368	1,2
6487	C6H4Cl2O2	4,5-dichloro-1,2-benzenediol	3428-24-8	527.15	46.499	2	6685	C6H5Br2N	3,4-dibromoaniline	615-55-4	373.15	31.843	1,2
6488	C6H4Cl2O2	4,6-dichloro-1,3-benzenediol	137-19-9	527.15	46.499	1,2	6686	C6H5Br2N	3,5-dibromoaniline	626-40-4	454.65	39.544	2
6489	C6H4Cl2O2	2,6-dichloro-1,4-benzenediol	20103-10-0	527.15	46.499	2	6687	C6H5Br2N	2,5-dibromoaniline	3638-73-1	454.65	39.544	2
6490	C6H4Cl2O2	2,3-dichloro-1,4-benzenediol	608-44-6	527.15	46.499	2	6688	C6H5Br2N	2,5-dibromo-3-picoline	3430-18-0	454.65	39.544	2
6491	C6H4Cl2O2	2,5-dichloro-1,4-benzenediol	824-69-1	527.15	46.499	2	6689	C6H5Br2N	2,5-dibromo-4-picoline	3430-26-0	454.65	39.544	2
6495	C6H4Cl2S	2,4-dichlorobenzenethiol	1122-41-4	377.15	32.218	2	6691	C6H5Br3N2	benzenediazonium tribromide	19521-84-7	432.15	37.405	1,2
6496	C6H4Cl2S	2,3-dichlorobenzenethiol	17231-95-7	377.15	32.218	2	6692	C6H5Cl	chlorobenzene	108-90-7	404.87	35.820	1,2
6497	C6H4Cl2S	2,6-dichlorobenzenethiol	24966-39-0	377.15	32.218	2	6693	C6H5ClFN	2-chloro-6-fluoroaniline	363-51-9	484.65	42.411	2
6498	C6H4Cl2S	3,4-dichlorobenzenethiol	5858-17-3	377.15	32.218	2	6694	C6H5ClFN	2-chloro-4-fluoroaniline	2106-02-7	465.15	40.546	1,2
6499	C6H4Cl2S	2,5-dichlorobenzenethiol	5858-18-4	377.15	32.218	1,2	6695	C6H5ClFN	3-chloro-2-fluoroaniline	2106-04-9	487.15	42.651	1,2
6500	C6H4Cl3N	2,3,4-trichloroaniline	634-67-3	565.15	50.178	1,2	6696	C6H5ClFN	5-chloro-2-fluoroaniline	2106-05-0	484.65	42.411	2
6501	C6H4Cl3N	2,4,5-trichloroaniline	636-30-6	543.15	48.045	1,2	6697	C6H5ClFN	3-chloro-4-fluoroaniline	367-21-5	501.65	44.043	1,2
6502	C6H4Cl3N	2,4,6-trichloroaniline	634-93-5	535.15	47.271	1,2	6698	C6H5ClFN	4-chloro-2-fluoroaniline	57946-56-2	484.65	42.411	2
6503	C6H4Cl3N	2-(trichloromethyl)pyridine	4377-37-1	547.82	48.497	2	6701	C6H5ClHgO	o-chloromercuriphenol	90-03-9	331.65	27.976	1,2
6504	C6H4Cl3N	3,4,5-trichloroaniline	634-91-3	547.82	48.497	2	6702	C6H5ClHgO	p-chloromercuriphenol	623-07-4	419.15	36.173	1,2
6505	C6H4Cl3OPS	O-(2-chlorophenyl) dichlorothiophosphate	68591-34-4	515.15	45.342	1,2	6707	C6H5ClN2	benzene diazonium chloride	100-34-5	319.15	26.820	1,2
6509	C6H4Cl4Si	trichloro(4-chlorophenyl)silane	825-94-5	506.15	44.475	1,2	6709	C6H5ClN2O2	5-chloro-2-nitroaniline	1635-61-6	473.15	41.310	2
6512	C6H4FI	1-fluoro-2-iodobenzene	348-52-7	461.75	40.221	1,2	6710	C6H5ClN2O2	2-chloro-4-methyl-5-nitropyridine	23056-33-9	473.15	41.310	2
6513	C6H4FI	1-fluoro-4-iodobenzene	352-34-1	456.15	39.687	1,2	6711	C6H5ClN2O2	2-chloro-4-nitroaniline	121-87-9	473.15	41.310	1,2
6514	C6H4FI	1-fluoro-3-iodobenzene	1121-86-4	458.95	39.954	2	6712	C6H5ClN2O2	2-chloro-5-nitroaniline	6283-25-6	473.15	41.310	2
6516	C6H4FNO2	1-fluoro-2-nitrobenzene	1493-27-2	488.15	42.747	2	6713	C6H5ClN2O2	4-chloro-3-nitroaniline	635-22-3	473.15	41.310	2
6517	C6H4FNO2	1-fluoro-3-nitrobenzene	402-67-5	472.15	41.215	1,2	6714	C6H5ClN2O2	4-chloro-2-nitroaniline	89-63-4	473.15	41.310	2
6518	C6H4FNO2	1-fluoro-4-nitrobenzene	350-46-9	478.15	41.789	1,2	6715	C6H5ClN2O2	2-chloro-5-nitro-3-picoline	22280-56-4	473.15	41.310	2
6524	C6H4F2	m-difluorobenzene	372-18-9	363.66	32.673	1,2	6716	C6H5ClN2O2	6-chloro-3-nitro-2-picoline	22280-60-0	473.15	41.310	2
6525	C6H4F2	o-difluorobenzene	367-11-3	364.66	32.213	1,2	6717	C6H5ClN2O2	6-chloro-5-nitro-2-picoline	56057-19-3	473.15	41.310	2
6526	C6H4F2	p-difluorobenzene	540-36-3	362.00	32.681	1,2	6718	C6H5ClN2O2	N-chloro-4-nitroaniline	59483-61-3	473.15	41.310	2
6534	C6H4F3N	3,4,5-trifluoroaniline	163733-96-8	373.65	31.890	2	6720	C6H5ClO	m-chlorophenol	108-43-0	487.00	45.860	1,2
6535	C6H4F3N	2,4,6-trifluoroaniline	363-81-5	373.65	31.890	2	6721	C6H5ClO	o-chlorophenol	95-57-8	447.53	40.124	1,2
6536	C6H4F3N	2,4,5-trifluoroaniline	367-34-0	373.65	31.890	2	6722	C6H5ClO	p-chlorophenol	106-48-9	493.11	47.040	1,2
6537	C6H4F3N	2,3,4-trifluoroaniline	3862-73-5	365.15	31.094	1,2	6723	C6H5ClOS	benzenesulfinyl chloride	4972-29-6	390.65	33.485	2
6539	C6H4F3N	4-(trifluoromethyl)pyridine	3796-24-5	382.15	32.687	1,2	6724	C6H5ClOS	2-acetyl-5-chlorothiophene	6310-09-4	390.65	33.485	1,2
6542	C6H4F6O2	1,1,1,3,3,3-hexafluoroisopropyl acrylate	2160-89-6	357.45	30.375	1,2	6725	C6H5ClOS	2-thiopheneacetyl chloride	39098-97-0	390.65	33.485	2
6545	C6H4INO2	1-iodo-2-nitrobenzene	609-73-4	563.15	49.984	1,2	6726	C6H5ClO2	3-chloro-1,2-benzenediol	4018-65-9	478.15	41.789	2
6546	C6H4INO2	1-iodo-3-nitrobenzene	645-00-1	553.15	49.014	1,2	6727	C6H5ClO2	4-chloro-1,2-benzenediol	2138-22-9	478.15	41.789	2
6547	C6H4INO2	1-iodo-4-nitrobenzene	636-98-6	561.15	49.789	1,2	6728	C6H5ClO2	5-chloro-1,3-benzenediol	52780-23-1	478.15	41.789	2
6551	C6H4KN5O7	potassium-4-hydroxyamine-5,7-dinitro-4,5-dih*	86341-95-9	312.65	26.220	1,2	6729	C6H5ClO2	2-chloro-1,4-benzenediol	615-67-8	536.15	47.368	1,2
6553	C6H4I2	o-diiodobenzene	615-42-9	560.15	49.692	1,2	6730	C6H5ClO2	4-chlororesorcinol	95-88-5	420.15	36.268	1,2
6554	C6H4I2	m-diiodobenzene	626-00-6	558.15	49.498	1,2	6731	C6H5ClO2S	benzenesulfonyl chloride	98-09-9	524.15	46.209	2
6555	C6H4I2	p-diiodobenzene	624-38-4	558.15	49.498	1,2	6732	C6H5ClO2S	p-chlorobenzenesulfinic acid	100-03-8	524.15	46.209	2
6561	C6H4Li3N	N,N,4-trilithioaniline	---	267.11	22.051	1,2	6735	C6H5ClS	2-chlorobenzenethiol	6320-03-2	478.65	41.837	1,2
6565	C6H4NNaO5S	sodium 3-nitrobenzenesulfonate	127-68-4	490.65	42.986	1,2	6736	C6H5ClS	3-chlorobenzenethiol	2037-31-2	479.15	41.884	1,2
6566	C6H4N2	2-pyridinecarbonitrile	100-70-9	497.65	43.658	1,2	6737	C6H5ClS	4-chlorobenzenethiol	106-54-7	479.15	41.884	1,2
6567	C6H4N2	3-pyridinecarbonitrile	100-54-9	480.05	41.971	1,2	6740	C6H5Cl2N	3,4-dichloroaniline	95-76-1	545.00	53.535	1,2
6568	C6H4N2	4-pyridinecarbonitrile	100-48-1	459.15	39.973	1,2	6741	C6H5Cl2N	2,3-dichloroaniline	608-27-5	525.15	46.306	1,2
6573	C6H4N2O2	p-dinitrosobenzene	105-12-4	274.35	22.710	2	6742	C6H5Cl2N	2,4-dichloroaniline	554-00-7	518.15	45.631	1,2
6574	C6H4N2O2	succinylnitrile	63979-84-0	274.35	22.710	1,2	6743	C6H5Cl2N	2,5-dichloroaniline	95-82-9	524.15	46.209	1,2
6579	C6H4N2O3S	benzenediazonium-4-sulfonate	305-80-6	272.65	22.555	1,2	6744	C6H5Cl2N	2,6-dichloroaniline	608-31-1	529.32	46.708	2
6580	C6H4N2O4	m-dinitrobenzene	99-65-0	573.00	61.673	1,2	6745	C6H5Cl2N	3,5-dichloroaniline	626-43-7	534.15	47.175	1,2
6581	C6H4N2O4	o-dinitrobenzene	528-29-0	592.00	63.809	1,2	6746	C6H5Cl2N	2-chloro-5-chloromethylpyridine	70258-18-3	529.32	46.708	2
6582	C6H4N2O4	p-dinitrobenzene	100-25-4	572.00	61.557	1,2	6747	C6H5Cl2N	N,N-dichloroaniline	70278-00-1	529.32	46.708	2
6583	C6H4N2O4	2,3-pyrazinedicarboxylic acid	89-01-0	579.00	51.524	2	6753	C6H5Cl2OP	phenylphosphonic dichloride	824-72-6	531.15	46.885	1,2
6584	C6H4N2O4	dinitrobenzene	25154-54-5	579.00	51.524	2	6754	C6H5Cl2OP	phosphorodichloridous acid, phenyl ester	3426-89-9	531.15	46.885	2
6585	C6H4N2O4	2,4-dinitroso-m-resorcinol	118-02-5	579.00	51.524	2	6755	C6H5Cl2OV	phenylvanadium(v) dichloride oxide	28597-01-5	515.65	45.390	1,2
6596	C6H4N2S	2,1,3-benzothiadiazole	273-13-2	477.70	41.746	1,2	6756	C6H5Cl2O2P	phenyl dichlorophosphate	770-12-7	515.15	45.342	1,2
6597	C6H4N2S	3-pyridyl isothiocyanate	17452-27-6	505.15	44.379	1,2	6757	C6H5Cl2P	phenylphosphonous dichloride	644-97-3	498.15	43.706	1,2
6609	C6H4N4O7	1-(1,3,5-trinitro-1H-pyrrol-2-yl)ethanone	158366-46-2	399.15	34.285	1,2	6760	C6H5Cl3Ge	phenylgermanium trichloride	1074-29-9	499.15	43.802	1,2
6610	C6H4N6	1,3-diazidobenzene	13556-50-8	337.15	28.486	2	6764	C6H5Cl3Si	trichlorophenylsilane	98-13-5	474.15	41.406	1,2
6611	C6H4N6	1,4-diazidobenzene	2294-47-5	337.15	28.486	1,2	6768	C6H5CrIO4	phenyliodine(iii) chromate	---	450.05	39.106	1,2
6612	C6H4N6O2	4-nitrobenzenediazonium azide	---	404.15	34.756	1,2	6769	C6H5F	fluorobenzene	462-06-6	357.88	31.376	1,2
6613	C6H4N6O4S2	benzene-1,3-bis(sulfonyl azide)	4547-69-7	550.15	48.723	1,2	6773	C6H5FO	2-fluorophenol	367-12-4	424.65	36.694	1,2
6614	C6H4O	2-ethynylfuran	18649-64-4	378.65	32.358	1,2	6774	C6H5FO	3-fluorophenol	372-20-3	451.15	39.211	1,2
6615	C6H4O	1,5-hexadiyne-3-one	---	378.65	32.358	2	6775	C6H5FO	4-fluorophenol	371-41-5	458.65	39.926	1,2
6629	C6H4S2	thieno[2,3-b]thiophene	250-84-0	498.15	43.706	1,2	6777	C6H5FO2S	benzenesulfonyl fluoride	368-43-4	476.65	41.645	1,2
6636	C6H5AsCl2	dichlorophenylarsine	696-28-6	528.15	46.595	1,2	6778	C6H5FS	2-fluorobenzenethiol	2557-78-0	443.15	38.450	2
6642	C6H5AsO2	4-hydroxyphenylarsenous acid	5453-66-7	420.15	36.268	1,2	6779	C6H5FS	4-fluorothiophenol	371-42-6	443.15	38.450	1,2
6644	C6H5BCl2	dichlorophenylborane	873-51-8	448.15	38.925	1,2	6780	C6H5F2N	2,4-difluoroaniline	367-25-9	443.15	38.450	1,2
6647	C6H5BF2	difluorophenylborane	368-98-9	371.15	31.656	1,2	6781	C6H5F2N	2,5-difluoroaniline	367-30-6	450.10	39.111	1,2
6656	C6H5Br	bromobenzene	108-86-1	429.24	37.754	1,2	6782	C6H5F2N	3,5-difluoroaniline	372-39-4	454.43	39.524	2
6661	C6H5BrFN	2-bromo-4-fluoroaniline	1003-98-1	494.15	43.322	1,2	6783	C6H5F2N	3,4-difluoroaniline	3863-11-4	470.05	41.014	1,2
6662	C6H5BrFN	4-bromo-2-fluoroaniline	367-24-8	416.90	35.961	2	6784	C6H5F2N	2,3-difluoroaniline	4519-40-8	454.43	39.524	2
6663	C6H5BrFN	4-bromo-3-fluoroaniline	656-65-5	339.65	28.719	1,2	6785	C6H5F2N	2,6-difluoroaniline	5509-65-9	454.43	39.524	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
6786	C6H5F3O2	ethyl 4,4,4-trifluoro-2-butynoate	79424-03-6	370.15	31.562	1,2	6967	C6H6HgO	phenylmercuric hydroxide	100-57-2	399.65	34.332	1,2
6787	C6H5F3Si	trifluorophenylsilane	368-47-8	374.65	31.983	1,2	6970	C6H6Hg2N2O4	2,6-bis(hydroxymercuri)-4-nitroaniline	63951-09-7	408.25	35.143	1,2
6790	C6H5F7O	(2,2,3,3,4,4,4-heptafluorobutyl)oxirane	1765-92-0	384.15	32.874	1,2	6971	C6H6Hg2O3S	(5-(hydroxymercuri)-2-thienyl)mercury acetate	64048-08-4	426.33	36.853	1,2
6791	C6H5F7O	[2,3,3,3-tetrafluoro-2-(trifluoromethyl)prop*	74328-57-7	354.15	30.068	1,2	6979	C6H6N2	cis-dicyano-1-butene	2141-58-4	501.00	51.791	1,2
6792	C6H5F7O2	ethyl heptafluorobutanoate	356-27-4	368.15	31.375	1,2	6980	C6H6N2	trans-dicyano-1-butene	2141-59-5	499.00	51.391	1,2
6795	C6H5I	iodobenzene	591-50-4	461.60	40.503	1,2	6981	C6H6N2	trans-1,4-dicyano-2-butene	1119-85-3	500.00	60.818	2
6796	C6H5IN2O6	phenyliodine(iii) nitrate	58776-08-2	505.65	44.427	1,2	6982	C6H6N2	2-methyleneglutaronitrile	1572-52-7	500.00	43.884	2
6812	C6H5NO	2-furanacetonitrile	2745-25-7	453.15	39.402	2	6983	C6H6N2	2-vinylpyrazine	4177-16-6	500.00	43.884	2
6813	C6H5NO	nitrosobenzene	586-96-9	453.15	39.402	2	6984	C6H6N2	1,4-benzoquinone diimine	4377-73-5	500.00	43.884	2
6814	C6H5NO	2-pyridinecarboxaldehyde	1121-60-4	453.15	39.402	1,2	6985	C6H6N2	2-hexenedinitrile	13042-02-9	500.00	43.884	2
6815	C6H5NO	3-pyridinecarboxaldehyde	500-22-1	453.15	39.402	2	6996	C6H6N2O2	m-nitroaniline	99-09-2	579.00	62.718	1,2
6816	C6H5NO	4-pyridinecarboxaldehyde	872-85-5	453.15	39.402	2	6997	C6H6N2O2	o-nitroaniline	88-74-4	558.00	60.565	1,2
6817	C6H5NO	p-benzoquinone monoimine	3009-34-5	453.15	39.402	2	6998	C6H6N2O2	p-nitroaniline	100-01-6	609.15	67.372	1,2
6818	C6H5NOS	N-sulfinylaniline	1122-83-4	473.15	41.310	1,2	7000	C6H6N2O2	N-nitroaniline	645-55-6	557.33	56.785	2
6819	C6H5NO2	nitrobenzene	98-95-3	483.95	44.079	1,2	7001	C6H6N2O2	5-aminonicotinic acid	24242-19-1	557.33	49.418	2
6820	C6H5NO2	4-nitrosophenol	104-91-6	483.95	42.344	2	7003	C6H6N2O2	4-aminonicotinic acid	7418-65-7	557.33	49.418	2
6821	C6H5NO2	2-pyridinecarboxylic acid	98-98-6	483.95	42.344	2	7004	C6H6N2O2	a,a-dicyanoethyl acetate	7790-01-4	483.15	42.268	1,2
6824	C6H5NO2	2-nitrosophenol	13168-78-0	483.95	42.344	2	7005	C6H6N2O2	5-methyl-2-pyrazinecarboxylic acid	5521-55-1	557.33	49.418	2
6830	C6H5NO3	o-nitrophenol	88-75-5	489.15	42.843	1,2	7007	C6H6N2O2	urocanic acid	104-98-3	557.33	49.418	2
6831	C6H5NO3	m-nitrophenol	554-84-7	489.15	42.843	2	7008	C6H6N2O2	dioxime-p-benzoquinone	105-11-3	557.33	49.418	2
6832	C6H5NO3	p-nitrophenol	100-02-7	489.15	42.843	2	7018	C6H6N2O3	2-hydroxy-5-nitro-3-picoline	21901-34-8	377.15	32.218	2
6835	C6H5NO3	3-hydroxy-2-pyridinecarboxylic acid	874-24-8	489.15	42.843	2	7019	C6H6N2O3	6-hydroxy-3-nitro-2-picoline	28489-45-4	377.15	32.218	2
6837	C6H5NO3	picolinic acid N-oxide	824-40-8	489.15	42.843	2	7020	C6H6N2O3	6-hydroxy-5-nitro-2-picoline	39745-39-6	377.15	32.218	2
6846	C6H5NS	2-thiopheneacetonitrile	20893-30-5	514.15	45.245	2	7023	C6H6N2O3	2-acetyl-4-nitropyrrole	32116-24-8	377.15	32.218	2
6847	C6H5NS	3-thiopheneacetonitrile	13781-53-8	514.15	45.245	1,2	7024	C6H6N2O3	2-acetyl-5-nitropyrrole	32116-25-9	377.15	32.218	2
6857	C6H5N3O4	2,4-dinitroaniline	97-02-9	329.85	27.810	1,2	7025	C6H6N2O3	2-methyl-4-nitropyridine-1-oxide	5470-66-6	377.15	32.218	1,2
6861	C6H5N3O4	2-amino-5-nitronicotinic acid	6760-14-1	329.85	27.810	2	7033	C6H6N2O6S	3-amino-4-hydroxy-5-nitrobenzenesulfonic acid	96-93-5	431.15	37.310	1,2
6876	C6H6	benzene	71-43-2	353.24	30.746	1,2	7057	C6H6O	phenol	108-95-2	454.99	47.313	1,2
6877	C6H6	fulvene	497-20-1	364.12	30.998	2	7058	C6H6O	2-vinylfuran	1487-18-9	372.65	31.796	1,2
6878	C6H6	1,5-hexadien-3-yne	821-08-9	358.15	30.441	1,2	7059	C6H6O	propargyl ether	6921-27-3	392.65	33.673	1,2
6879	C6H6	1,3-hexadien-5-yne	10420-90-3	356.65	30.301	1,2	7060	C6H6O	4,5-hexadien-2-yn-1-ol	2749-79-3	425.74	36.797	2
6880	C6H6	1,4-hexadiyne	10420-91-4	354.85	30.133	1,2	7061	C6H6O	4-hexen-1-yn-3-one	13061-80-8	482.65	42.220	2
6881	C6H6	1,5-hexadiyne	628-16-0	359.15	30.534	1,2	7062	C6H6O	7-oxabicyclo(4.1.0)hepta-2,4-diene	1488-25-1	425.74	36.797	2
6882	C6H6	2,4-hexadiyne	2809-69-0	402.65	34.615	1,2	7063	C6H6OS	2-mercaptophenol	1121-24-0	490.15	42.939	1,2
6883	C6H6	1,3-hexadiyne	4447-21-6	364.12	30.998	2	7064	C6H6OS	3-mercaptophenol	40248-84-8	486.32	42.571	2
6884	C6H6	benzvalene	659-85-8	364.12	30.998	2	7065	C6H6OS	4-mercaptophenol	637-89-8	486.32	42.571	2
6885	C6H6	prismane	650-42-0	364.12	30.998	2	7066	C6H6OS	5-methyl-2-thiophenecarboxaldehyde	13679-70-4	486.32	42.571	2
6889	C6H6AsNO2	oxophenarsine	306-12-7	390.55	33.476	1,2	7067	C6H6OS	1-(2-thienyl)ethanone	88-15-3	486.65	42.603	1,2
6904	C6H6BiNa3O6S3	bismuth sodium thioglycollate	150-49-2	372.65	31.796	1,2	7068	C6H6OS	3-acetylthiophene	1468-83-3	482.15	42.172	1,2
6905	C6H6BrN	o-bromoaniline	615-36-1	502.15	44.091	1,2	7069	C6H6OS	3-methyl-2-thiophenecarboxaldehyde	5834-16-2	486.32	42.571	2
6906	C6H6BrN	m-bromoaniline	591-19-5	524.15	46.209	1,2	7070	C6H6O2	pyrocatechol	120-80-9	518.65	54.600	1,2
6907	C6H6BrN	p-bromoaniline	106-40-1	505.65	44.427	2	7071	C6H6O2	resorcinol	108-46-3	549.65	64.260	1,2
6908	C6H6BrN	2-bromo-3-methylpyridine	3430-17-9	490.65	42.986	1,2	7072	C6H6O2	p-hydroquinone	123-31-9	558.15	64.017	1,2
6909	C6H6BrN	2-bromo-5-methylpyridine	3510-66-5	505.65	44.427	2	7073	C6H6O2	1-(2-furanyl)ethanone	1192-62-7	448.15	38.925	1,2
6910	C6H6BrN	2-bromo-4-methylpyridine	4926-28-7	505.65	44.427	2	7074	C6H6O2	5-methyl-2-furancarboxaldehyde	620-02-0	460.15	40.069	1,2
6911	C6H6BrN	2-bromo-6-methylpyridine	5315-25-3	505.65	44.427	2	7075	C6H6O2	methyl protoanemonin	3690-50-4	506.95	44.552	2
6918	C6H6Br2O3	2,3-dibromo-5,6-epoxy-7,8-dioxabicyclo(2.2.2*	56411-66-6	355.95	30.235	1,2	7076	C6H6O2S	benzenesulfinic acid	618-41-7	384.65	32.921	2
6919	C6H6Br5Cl	1,2,3,4,5-pentabromo-6-chlorocyclohexane	87-84-3	307.75	25.769	1,2	7077	C6H6O2S	1-(3-hydroxy-2-thienyl)ethanone	5556-07-0	384.65	32.921	2
6921	C6H6ClIO6	hydroxyoxophenyl iodanium perchlorate	---	467.15	40.737	2	7078	C6H6O2S	methyl 2-thiofuroate	13679-61-3	336.15	28.394	1,2
6922	C6H6ClIO6	iodylbenzene perchlorate	---	467.15	40.737	1,2	7079	C6H6O2S	methyl thiophene-2-carboxylate	5380-42-7	384.65	32.921	2
6923	C6H6ClN	m-chloroaniline	108-42-9	501.65	46.141	1,2	7082	C6H6O2S	2-thiopheneacetic acid	1918-77-0	433.15	37.500	1,2
6924	C6H6ClN	o-chloroaniline	95-51-2	481.99	46.495	1,2	7083	C6H6O2S	3-thiopheneacetic acid	6964-21-2	384.65	32.921	2
6925	C6H6ClN	p-chloroaniline	106-47-8	503.65	48.706	1,2	7085	C6H6O3	1,2,3-benzenetriol	87-66-1	581.85	68.380	1,2
6926	C6H6ClN	2-chloro-4-methylpyridine	3678-62-4	465.15	40.546	1,2	7086	C6H6O3	1,2,4-benzenetriol	533-73-3	491.40	43.058	2
6927	C6H6ClN	2-chloro-6-methylpyridine	18368-63-3	456.65	39.735	1,2	7088	C6H6O3	3,4-dimethyl-2,5-furandione	766-39-2	496.15	43.514	1,2
6928	C6H6ClN	2-chloro-5-methylpyridine	18368-64-4	479.12	41.882	2	7089	C6H6O3	2-furanacetic acid	2745-26-8	491.40	43.058	2
6929	C6H6ClN	2-chloro-3-methylpyridine	18368-76-8	465.65	40.594	1,2	7090	C6H6O3	5-(hydroxymethyl)-2-furancarboxaldehyde	67-47-0	491.40	43.058	2
6930	C6H6ClNO	2-amino-4-chlorophenol	95-85-2	458.65	39.926	2	7091	C6H6O3	3-hydroxy-2-methyl-4H-pyran-4-one	118-71-8	491.40	43.058	2
6931	C6H6ClNO	2-chloro-6-methoxypyridine	17228-64-7	458.65	39.926	1,2	7092	C6H6O3	methyl 2-furancarboxylate	611-13-2	454.45	39.525	1,2
6932	C6H6ClNO	2-amino-5-chlorophenol	28443-50-7	458.65	39.926	2	7093	C6H6O3	methyl 3-furancarboxylate	13129-23-2	433.15	37.500	1,2
6933	C6H6ClNO	3-amino-6-chlorophenol	6358-06-1	458.65	39.926	2	7094	C6H6O3	5-methyl-2-furancarboxylic acid	1917-15-3	491.40	43.058	2
6938	C6H6ClN3O2	4-amino-3-nitro-6-chloroaniline	26196-45-2	480.65	42.028	1,2	7095	C6H6O3	5-methyl-3-furancarboxylic acid	21984-93-0	491.40	43.058	2
6939	C6H6ClN3O4	p-amino benzene diazoniumperchlorate	---	503.15	44.187	1,2	7096	C6H6O3	4-hydroxy-6-methyl-2-pyrone	675-10-5	491.40	43.058	2
6945	C6H6Cl2Si	dichlorophenylsilane	1631-84-1	454.15	39.497	1,2	7097	C6H6O3	3-methyl-2-furoic acid	4412-96-8	491.40	43.058	2
6948	C6H6Cl6	1,2,3,4,5,6-hexachlorocyclohexane, (1alpha,2*	58-89-9	596.55	53.234	1,2	7098	C6H6O3	2-methyl-3-furoic acid	6947-94-0	491.40	43.058	2
6949	C6H6Cl6	1,2,3,4,5,6-hexachlorocyclohexane, (1alpha,2*	319-85-7	572.95	50.936	2	7099	C6H6O3	antibiotic PA147	3734-60-9	491.40	43.058	2
6950	C6H6Cl6	1,2,3,4,5,6-hexachlorocyclohexane, (1alpha,2*	319-86-8	572.95	50.936	2	7100	C6H6O3	endo-2,3-epoxy-7,8-dioxabicyclo(2.2.2)oct-5-*	39597-90-5	491.40	43.058	2
6951	C6H6Cl6	1,2,3,4,5,6-hexachlorocyclohexane, (1alpha,2*	60291-32-9	561.15	49.789	1,2	7101	C6H6O3	6-oxo-trans,trans-2,4-hexadienoic acid	88973-46-0	491.40	43.058	2
6952	C6H6Cl6	1,2,3,4,5,6-hexachloro-3-hexene	1725-74-2	572.95	50.936	2	7103	C6H6O3Se	phenylselenonic acid	39254-48-3	456.15	39.687	1,2
6953	C6H6Cl6	a-hexachlorocyclohexane	319-84-6	561.15	49.789	1,2	7104	C6H6O4	dimethyl 2-butynedioate	762-42-5	470.15	41.024	2
6954	C6H6Cl6	hexachlorocyclohexane; (mixed isomers)	608-73-1	572.95	50.936	2	7105	C6H6O4	5-hydroxy-2-(hydroxymethyl)-4H-pyran-4-one	501-30-4	531.65	46.933	2
6956	C6H6FN	o-fluoroaniline	348-54-9	448.15	38.925	1,2	7106	C6H6O4	cis,cis-muconic acid	1119-72-8	531.65	46.933	2
6957	C6H6FN	m-fluoroaniline	372-19-0	461.15	40.164	1,2	7107	C6H6O4	3,4-dimethoxy-3-cyclobutene-1,2-dione	5222-73-1	531.65	46.933	2
6958	C6H6FN	p-fluoroaniline	371-40-4	455.15	39.592	1,2	7108	C6H6O4	DL-3-methylenecyclopropane-trans-1,2-dicarbo*	499-02-5	531.65	46.933	2
6960	C6H6FN3O2	2-fluoro-5-nitro-1,4-benzenediamine	134514-27-5	337.65	28.533	1,2	7109	C6H6O4	trans,trans-muconic acid	3588-17-8	593.15	52.902	1,2
6961	C6H6F3NO2	2-acetoxy-2-methyl-3,3,3-trifluoropropionitr*	27827-87-8	335.65	28.347	1,2	7110	C6H6O4	2,3:5,6-diepoxy-7,8-dioxabicyclo[2.2.2]octane	56411-67-7	531.65	46.933	2
6962	C6H6F4O2	2,2,3,3-tetrafluoropropyl acrylate	7383-71-3	405.65	34.898	1,2	7119	C6H6O8S2	pyrocatechol-3,5-disulfonic acid	149-46-2	371.15	31.656	1,2
6964	C6H6F9O3P	tris(2,2,2-trifluoroethyl) phosphite	370-69-4	403.65	34.709	1,2	7120	C6H6O9	benzene triozonide	---	365.65	31.141	1,2
6965	C6H6FeNO6	iron nitrilotriacetate	16448-54-7	355.65	30.207	1,2	7121	C6H6S	phenyl mercaptan	108-98-5	442.29	39.569	1,2
6966	C6H6HgN2O3	2-(hydroxymercuri)-4-nitroaniline	64049-27-0	393.15	33.720	1,2	7122	C6H6S2	1,2-benzenedithiol	17534-15-5	511.65	45.005	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
7123	C6H6S2	1,3-benzenedithiol	626-04-0	518.15	45.631	1,2	7268	C6H8	methylcyclopentadiene	26519-91-5	345.93	30.043	1,2
7124	C6H6Se	benzeneselenol	645-96-5	456.75	39.745	1,2	7269	C6H8	1,4-cyclohexadiene	628-41-1	358.65	32.261	1,2
7128	C6H7AsO4	phenol-p-arsonic acid	98-14-6	361.15	30.721	1,2	7270	C6H8	1,2-dimethylenecyclobutane	14296-80-1	337.15	28.486	1,2
7138	C6H7BrO	2-bromomethyl-5-methylfuran	57846-03-4	337.10	28.482	1,2	7271	C6H8	trans-1,3,5-hexatriene	821-07-8	351.65	29.835	1,2
7140	C6H7ClN2	4-chloro-1,2-benzenediamine	95-83-0	421.82	36.426	2	7272	C6H8	cis-1,3,5-hexatriene	2612-46-6	351.15	29.788	1,2
7141	C6H7ClN2	3-amino-6-chloro-2-picoline	164666-68-6	421.82	36.426	2	7273	C6H8	1-hexen-3-yne	13721-54-5	358.15	30.441	1,2
7142	C6H7ClN2	5-amino-6-chloro-3-picoline	34552-13-1	421.82	36.426	2	7274	C6H8	1-hexen-4-yne	5009-11-0	360.15	30.627	1,2
7143	C6H7ClN2	5-amino-6-chloro-2-picoline	39745-40-9	421.82	36.426	2	7275	C6H8	1-hexen-5-yne	14548-31-3	343.15	29.044	1,2
7144	C6H7ClN2	3-amino-6-chloro-4-picoline	66909-38-4	421.82	36.426	2	7276	C6H8	2-hexen-4-yne	14092-20-7	361.65	30.767	1,2
7145	C6H7ClN2	3-chloro-2,5-dimethylpyrazine	95-89-6	421.82	36.426	2	7277	C6H8	2-methyl-1-penten-3-yne	926-55-6	351.11	29.784	2
7146	C6H7ClN2	2-chloro-5-ethylpyrimidine	111196-81-7	496.15	43.514	1,2	7278	C6H8	3-methyl-3-penten-1-yne	1574-33-0	339.65	28.719	1,2
7147	C6H7ClN2	3-chloro-4-aminoaniline	615-66-7	421.82	36.426	2	7279	C6H8	1,3,5-hexatriene	2235-12-3	352.55	29.919	1,2
7148	C6H7ClN2	5-chloro-1,3-benzenediamine	33786-89-9	391.15	33.532	1,2	7282	C6H8AsNO4	2-hydroxy-p-arsanilic acid	6318-57-6	341.75	28.914	1,2
7149	C6H7ClN2	4-chloro-m-phenylenediamine	5131-60-2	378.15	32.311	1,2	7290	C6H8Br2O4	1,2-bis(bromoacetoxy)ethane	3785-34-0	451.15	39.211	1,2
7155	C6H7ClO4	dimethyl 2-chloromaleate	19393-45-4	497.15	43.610	1,2	7294	C6H8ClNO4	anilinium perchlorate	---	389.15	33.344	1,2
7156	C6H7ClSi	chlorophenylsilane	4206-75-1	435.65	37.737	1,2	7297	C6H8ClN3O3	a-(chloromethyl)-2-nitroimidazole-2-ethanol	67292-88-0	438.15	37.975	1,2
7159	C6H7Cl2N3O2Pt	dichloro(4-nitro-o-phenylenediammine)platinu*	72596-02-2	427.15	36.931	1,2	7300	C6H8Cl2N2Pt	cis-dichloro(o-phenylenediamine)platinum(ii)	38780-39-1	424.15	36.647	1,2
7163	C6H7F3O2	ethyl 4,4,4-trifluorocrotonate	25597-16-4	387.65	33.203	1,2	7302	C6H8Cl2O3	ethyl 2,2-dichloroacetoacetate	6134-66-3	479.15	41.884	1,2
7164	C6H7F3O2	2,2,2-trifluoroethyl methacrylate	352-87-4	425.32	36.757	2	7303	C6H8Cl2O3	2-acetoxy-3,3-dichlorotetrahydrofuran	141942-52-1	479.15	41.884	2
7165	C6H7F3O2	1,1,1-trifluoro-2,4-hexanedione	400-54-4	398.15	34.191	1,2	7304	C6H8Cl2O3	3,3-dichloro-2,2-dihydroxycyclohexanone	83878-01-7	479.15	41.884	2
7166	C6H7F3O2	a-(trifluoromethyl)-g-valerolactone	139547-12-9	490.15	42.939	1,2	7305	C6H8Cl2O3	3,3-dichloro-2-formoxytetrahydropyran	141942-53-2	479.15	41.884	2
7167	C6H7F3O3	ethyl 4,4,4-trifluoroacetoacetate	372-31-6	405.15	34.851	1,2	7308	C6H8Cl2O5	oxydiethylene bis(chloroformate)	106-75-2	406.15	34.945	1,2
7172	C6H7N	aniline	62-53-3	457.60	44.221	1,2	7309	C6H8Cl2S	endo-2,5-dichloro-7-thiabicyclo(2.2.1) hepta*	6522-40-3	408.15	35.134	1,2
7173	C6H7N	2-methylpyridine	109-06-8	402.55	36.132	1,2	7310	C6H8Cl4N2O2	N,N,N',N'-tetrachloroadipamide	---	442.65	38.402	1,2
7174	C6H7N	3-methylpyridine	108-99-6	417.29	37.315	1,2	7315	C6H8NO3Sb	stibanilic acid	554-76-7	431.15	37.310	1,2
7175	C6H7N	4-methylpyridine	108-89-4	418.50	37.864	1,2	7316	C6H8N2	adiponitrile	111-69-3	568.15	57.539	1,2
7176	C6H7N	1-cyclopentenecarbonitrile	3047-38-9	417.21	35.990	2	7317	C6H8N2	methylglutaronitrile	4553-62-2	536.15	54.377	1,2
7177	C6H7N	5-hexynenitrile	14918-21-9	389.15	33.344	1,2	7318	C6H8N2	m-phenylenediamine	108-45-2	560.00	55.860	1,2
7178	C6H7N	methylpyridine	1333-41-1	418.15	38.667	1,2	7319	C6H8N2	o-phenylenediamine	95-54-5	525.00	54.010	1,2
7179	C6H7N	3-methylenecyclobutane-carbonitrile	15760-35-7	417.21	35.990	2	7320	C6H8N2	p-phenylenediamine	106-50-3	540.00	56.782	1,2
7180	C6H7N	N-2-propynyl-2-propyn-1-amine	6921-28-4	417.21	35.990	2	7321	C6H8N2	phenylhydrazine	100-63-0	516.65	52.610	1,2
7182	C6H7NO	2-aminophenol	95-55-6	514.06	45.236	2	7322	C6H8N2	2,3-dimethylpyrazine	5910-89-4	429.15	37.121	1,2
7183	C6H7NO	3-aminophenol	591-27-5	514.06	45.236	2	7323	C6H8N2	2,5-dimethylpyrazine	123-32-0	428.15	37.026	1,2
7184	C6H7NO	4-aminophenol	123-30-8	514.06	45.236	2	7324	C6H8N2	2,6-dimethylpyrazine	108-50-9	428.75	37.083	1,2
7185	C6H7NO	4-methoxypyridine	620-08-6	465.15	40.546	1,2	7325	C6H8N2	2,4-dimethylpyrimidine	14331-54-5	423.65	36.599	1,2
7186	C6H7NO	2-methylpyridine-1-oxide	931-19-1	533.15	47.078	1,2	7326	C6H8N2	2,5-dimethylpyrimidine	22868-76-4	489.00	42.828	2
7187	C6H7NO	3-methylpyridine-1-oxide	1003-73-2	514.06	45.236	2	7327	C6H8N2	4,5-dimethylpyrimidine	694-81-5	450.15	39.116	1,2
7188	C6H7NO	1-methyl-2(1H)-pyridinone	694-85-9	523.15	46.113	1,2	7328	C6H8N2	4,6-dimethylpyrimidine	1558-17-4	432.15	37.405	1,2
7189	C6H7NO	3-methyl-2(1H)-pyridinone	1003-56-1	562.15	49.886	1,2	7329	C6H8N2	3-methyl-2-pyridinamine	1603-40-3	495.15	43.418	1,2
7190	C6H7NO	4-methyl-2(1H)-pyridinone	13466-41-6	581.15	51.733	1,2	7330	C6H8N2	4-methyl-2-pyridinamine	695-34-1	489.00	42.828	2
7191	C6H7NO	phenylhydroxylamine	100-65-2	514.06	45.236	2	7331	C6H8N2	4-methyl-3-pyridinamine	3430-27-1	528.15	46.595	1,2
7192	C6H7NO	2-pyridinemethanol	586-98-1	514.06	45.236	2	7332	C6H8N2	6-methyl-2-pyridinamine	1824-81-3	481.65	42.124	1,2
7193	C6H7NO	3-pyridinemethanol	100-55-0	539.15	47.658	1,2	7333	C6H8N2	N-methyl-2-pyridinamine	4597-87-9	473.65	41.358	1,2
7194	C6H7NO	4-pyridinemethanol	586-95-8	514.06	45.236	2	7334	C6H8N2	N-methylpyridinamine	1121-58-0	489.00	42.828	2
7195	C6H7NO	1-(1H-pyrrol-2-yl)ethanone	1072-83-9	493.15	43.226	1,2	7335	C6H8N2	2-pyridinemethanamine	3731-51-9	476.15	41.597	1,2
7196	C6H7NO	(±)-2-azabicyclo[2.2.1]hept-5-en-3-one	49805-30-3	514.06	45.236	2	7336	C6H8N2	3-pyridinemethanamine	3731-52-0	499.15	43.802	1,2
7197	C6H7NO	3-hydroxy-2-methylpyridine	1121-25-1	514.06	45.236	2	7337	C6H8N2	4-pyridinemethanamine	3731-53-1	503.15	44.187	1,2
7198	C6H7NO	3-hydroxy-6-methylpyridine	1121-78-4	514.06	45.236	2	7338	C6H8N2	1-allylimidazole	31410-01-2	489.00	42.828	2
7199	C6H7NO	2-hydroxy-6-methylpyridine	3279-76-3	514.06	45.236	2	7339	C6H8N2	6-amino-3-picoline	1603-41-4	500.15	43.899	1,2
7200	C6H7NO	2-methoxypyridine	1628-89-3	415.40	35.819	1,2	7340	C6H8N2O	ethylbutanedinitrile	17611-82-4	537.15	47.465	1,2
7201	C6H7NO	3-methoxypyridine	7295-76-3	514.06	45.236	2	7341	C6H8N2	ethylpyrazine	13925-00-3	425.65	36.789	1,2
7202	C6H7NO	N-methylpyrrole-2-carboxaldehyde	1192-58-1	514.06	45.236	2	7342	C6H8N2	4-amino-3-picoline	1990-90-5	489.00	42.828	2
7203	C6H7NO	4-picoline N-oxide	1003-67-4	514.06	45.236	2	7343	C6H8N2O	bis(cyanoethyl) ether	1656-48-0	579.00	62.053	1,2
7204	C6H7NO	1-methyl-4(1H)-pyridinone	695-19-2	514.06	45.236	2	7344	C6H8N2O	2,4-diaminophenol	95-86-3	579.00	51.524	2
7206	C6H7NO2	1-ethyl-1H-pyrrole-2,5-dione	128-53-0	453.15	39.402	2	7345	C6H8N2O	6-methoxy-3-pyridinamine	6628-77-9	579.00	51.524	2
7207	C6H7NO2	allyl cyanoacetate	13361-32-5	453.15	39.402	2	7346	C6H8N2O	pyrazineethanol	6705-31-3	579.00	51.524	2
7208	C6H7NO2	2-cyanoethyl acrylate	106-71-8	453.15	39.402	2	7347	C6H8N2O	4,6-dimethyl-2-hydroxypyrimidine	108-79-2	579.00	51.524	2
7209	C6H7NO2	methyl 1-pyrrolecarboxylate	4277-63-8	453.15	39.402	1,2	7348	C6H8N2O	2,4-dimethyl-6-hydroxypyrimidine	6622-92-0	579.00	51.524	2
7210	C6H7NO2	N-methylpyrrole-2-carboxylic acid	6973-60-0	453.15	39.402	2	7349	C6H8N2O	2-methoxy-3-methylpyrazine	2847-30-5	579.00	51.524	2
7211	C6H7NO2	4-pyridylcarbinol N-oxide	22346-75-4	453.15	39.402	2	7352	C6H8N2O2	1,4-diisocyanatobutane	4538-37-8	477.65	41.741	2
7212	C6H7NO2	ethyl cyanoacrylate	7085-85-0	453.15	39.402	2	7353	C6H8N2O2	2,4-dimethoxypyrimidine	3551-55-1	477.65	41.741	1,2
7222	C6H7NS	2-aminobenzenethiol	137-07-5	507.15	44.572	1,2	7354	C6H8N2O2	ethyl 4-pyrazolecarboxylate	37622-90-5	477.65	41.741	2
7223	C6H7NS	4-aminobenzenethiol	1193-02-8	507.15	44.572	2	7355	C6H8N2O2	1,3-dimethyl-2,4(1H,3H)-pyrimidinedione	874-14-6	477.65	41.741	2
7224	C6H7NS	3-aminothiophenol	22948-02-3	507.15	44.572	2	7356	C6H8N2O2	2-buten-1-yl diazoacetate	14746-03-3	477.65	41.741	2
7225	C6H7NS	4-methyl-5-vinylthiazole	1759-28-0	507.15	44.572	2	7360	C6H8N2O3	aniline nitrate	542-15-4	543.15	48.045	2
7226	C6H7NS	4(1H)-pyridinethione,1-methyl-	6887-59-8	507.15	44.572	2	7361	C6H8N2O3	N-cyanoacetyl ethyl carbamate	6629-04-5	543.15	48.045	2
7227	C6H7NS	2-pyridinemethanethiol	2044-73-7	507.15	44.572	2	7362	C6H8N2O3	5-hydroxymethyl-4-methyluracil	147-61-5	543.15	48.045	2
7238	C6H7N3O2	2-amino-5-nitro-3-picoline	18344-51-9	351.15	29.788	2	7363	C6H8N2O3S	4-hydrazinobenzenesulfonic acid	98-71-5	773.15	70.660	2
7239	C6H7N3O2	6-amino-5-nitro-2-picoline	21901-29-1	351.15	29.788	2	7364	C6H8N2O3S	2,4-diaminobenzenesulfonic acid	88-63-1	773.15	70.660	2
7240	C6H7N3O2	6-amino-3-nitro-2-picoline	22280-62-2	351.15	29.788	2	7365	C6H8N2O3S	2,5-diaminobenzenesulfonic acid	88-45-9	773.15	70.660	1,2
7244	C6H7N3O2	1-allyl-2-nitroimidazole	10045-34-8	351.15	29.788	2	7366	C6H8N2O3S	1,3-phenylenediamine-4-sulfonic acid	88-63-1	773.15	70.660	2
7245	C6H7N3O2	1-methyl-2-nitro-5-vinyl-1H-imidazole	39070-08-1	351.15	29.788	2	7373	C6H8N4O3	1,3-dimethyl-4-amino-5-nitrosouracil	6632-68-4	460.65	40.117	1,2
7246	C6H7N3O2	4-nitro-m-phenylenediamine	5131-58-8	351.15	29.788	1,2	7375	C6H8N4O4	methyl cyanocarbamate dimer	100753-38-6	358.15	30.441	2
7253	C6H7N5O2	3-hydroxy-1-methylguanine	63885-07-4	336.15	28.394	1,2	7376	C6H8N4O4	1-methyl-5-nitroimidazole-2-methanol carbama*	7681-76-7	358.15	30.441	1,2
7254	C6H7N5O2	3-hydroxy-7-methylguanine	30345-27-8	327.85	27.624	2	7377	C6H8N4O4	nitroiminodiethylenediisocyanic acid	7046-61-9	358.15	30.441	2
7255	C6H7N5O2	3-hydroxy-9-methylguanine	30345-28-9	319.55	26.857	1,2	7381	C6H8O	2-ethylfuran	3208-16-0	365.65	32.180	1,2
7256	C6H7N5O5	5,6-dinitro-2-dimethylaminopyrimidinone	---	328.65	27.698	1,2	7382	C6H8O	3-ethylfuran	67363-95-5	365.00	32.121	2
7263	C6H7O2P	phenylphosphinic acid	1779-48-2	453.15	39.402	1,2	7383	C6H8O	2,3-dimethylfuran	14920-89-9	367.65	32.309	1,2
7266	C6H7P	phenylphosphine	638-21-1	433.65	37.547	1,2	7384	C6H8O	2,4-dimethylfuran	3710-43-8	368.15	32.355	1,2
7267	C6H8	1,3-cyclohexadiene	592-57-4	353.49	30.591	1,2	7385	C6H8O	2,5-dimethylfuran	625-86-5	366.15	32.171	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
7386	C6H8O	3,4-dimethylfuran	20843-07-6	351.67	30.840	2	7468	C6H8S	3-ethylthiophene	1795-01-3	409.15	35.664	1,2
7387	C6H8O	2-cyclohexen-1-one	930-68-7	443.15	38.450	1,2	7469	C6H8S	2,3-dimethylthiophene	632-16-6	414.75	36.174	1,2
7388	C6H8O	3-cyclohexen-1-one	4096-34-8	443.15	38.450	1,2	7470	C6H8S	2,4-dimethylthiophene	638-00-6	413.85	36.086	1,2
7389	C6H8O	2-methyl-2-cyclopenten-1-one	1120-73-6	430.15	37.215	1,2	7471	C6H8S	2,5-dimethylthiophene	638-02-8	409.85	35.726	1,2
7390	C6H8O	3-methyl-2-cyclopenten-1-one	2758-18-1	430.65	37.263	1,2	7472	C6H8S	3,4-dimethylthiophene	632-15-5	418.15	36.492	1,2
7391	C6H8O	5-methyl-2-cyclopenten-1-one	14963-40-7	413.15	35.606	1,2	7473	C6H8S2	1-(2'-thienyl)ethylmercaptan	94089-02-8	371.15	31.656	1,2
7392	C6H8O	1-cyclopentene-1-carboxaldehyde	6140-65-4	419.15	36.173	1,2	7474	C6H8Si	phenylsilane	694-53-1	392.15	33.626	1,2
7393	C6H8O	trans,trans-2,4-hexadienal	142-83-6	447.15	38.830	1,2	7477	C6H9Br	1-bromocyclohexene	2044-08-8	438.15	37.975	1,2
7394	C6H8O	3-hexynal	89533-67-5	409.05	35.219	2	7478	C6H9Br	3-bromocyclohexene	1521-51-3	438.15	37.975	2
7395	C6H8O	3-hexyn-2-one	1679-36-3	409.05	35.219	2	7483	C6H9BrO3	ethyl 2-bromoacetoacetate	609-13-2	483.15	42.268	2
7396	C6H8O	5-hexyn-2-one	2550-28-9	422.15	36.457	1,2	7484	C6H9BrO3	ethyl 4-bromoacetoacetate	13176-46-0	430.65	37.263	2
7397	C6H8O	3-methyl-2-penten-4-yn-1-ol	105-29-3	409.05	35.219	2	7485	C6H9BrO3	a-acetoxy-isobutyryl bromide	40635-67-4	378.15	32.311	1,2
7398	C6H8O	3-methyl-1-penten-4-yn-3-ol	3230-69-1	409.05	35.219	2	7486	C6H9Cl	1-chlorocyclohexene	930-66-5	415.65	35.842	1,2
7399	C6H8O	hex-1-yn-3-one	689-00-9	409.05	35.219	2	7487	C6H9Cl	3-chloro-1,3-hexadiene	101870-06-8	395.15	33.908	1,2
7400	C6H8O	dimethyl furane	28802-49-5	423.15	36.552	1,2	7488	C6H9Cl	1-chloro-3-methyl-1,2-pentadiene	32337-74-9	395.42	33.934	2
7401	C6H8O	4-hexen-1-yn-3-ol	10138-60-0	488.65	42.795	1,2	7489	C6H9Cl	3-chloro-3-methyl-1-pentyne	14179-94-3	375.45	32.058	1,2
7402	C6H8OS	2,5-dimethylfuran-3-thiol	55764-23-3	449.15	39.021	1,2	7490	C6H9Cl	4-chloro-4-methyl-2-pentyne	999-79-1	395.42	33.934	2
7403	C6H8OS	furfuryl methyl sulfide	1438-91-1	449.15	39.021	2	7491	C6H9Cl	6-chloro-1-hexyne	10297-06-0	395.42	33.934	2
7404	C6H8OS	3-thiopheneethanol	13781-67-4	449.15	39.021	2	7492	C6H9Cl	3-chloro-1-cyclohexene	2441-97-6	395.42	33.934	2
7405	C6H8OS	2-thiopheneethanol	5402-55-1	449.15	39.021	2	7495	C6H9ClO	2-chlorocyclohexanone	822-87-7	434.65	37.642	2
7407	C6H8O2	allyl acrylate	999-55-3	394.15	33.814	1,2	7496	C6H9ClO	4-chlorocyclohexanone	21299-26-3	434.65	37.642	2
7408	C6H8O2	1,3-butadien-1-ol acetate	1515-76-0	444.11	38.541	2	7497	C6H9ClO	cyclopentanecarbonyl chloride	4524-93-0	434.65	37.642	1,2
7409	C6H8O2	1,2-cyclohexanedione	765-87-7	467.15	40.737	1,2	7498	C6H9ClO2	ethyl 4-chloro-2-butenoate	15333-22-9	447.28	38.843	2
7410	C6H8O2	1,3-cyclohexanedione	504-02-9	444.11	38.541	2	7499	C6H9ClO2	ethyl cis-2-chloro-2-butenoate	77825-54-8	447.28	38.843	2
7411	C6H8O2	1,4-cyclohexanedione	637-88-7	444.11	38.541	2	7500	C6H9ClO2	ethyl trans-2-chloro-2-butenoate	77825-53-7	450.15	39.116	1,2
7412	C6H8O2	1-cyclopentene-1-carboxylic acid	1560-11-8	483.15	42.268	1,2	7501	C6H9ClO2	ethyl cis-3-chloro-2-butenoate	6127-93-1	434.55	37.633	1,2
7413	C6H8O2	ethyl 2-butynoate	4341-76-8	436.15	37.785	1,2	7502	C6H9ClO2	ethyl trans-3-chloro-2-butenoate	6127-92-0	457.15	39.783	1,2
7414	C6H8O2	methyl 2-pentynoate	24342-04-9	444.11	38.541	2	7503	C6H9ClO2	chloroethyl methacrylate	1888-94-4	447.28	38.843	2
7415	C6H8O2	ethyl 2-furyl ether	5809-07-4	398.65	34.238	1,2	7504	C6H9ClO3	2-chloroethyl acetoacetate	54527-68-3	471.15	41.119	1,2
7416	C6H8O2	2,4-hexadienoic acid	110-44-1	501.15	43.995	2	7505	C6H9ClO3	ethyl 4-chloroacetoacetate	638-07-3	493.15	43.226	2
7417	C6H8O2	2-hexynoic acid	764-33-0	444.11	38.541	2	7506	C6H9ClO3	a-acetoxy-isobutyryl chloride	40635-66-3	328.15	27.652	1,2
7418	C6H8O2	2-(methoxymethyl)furan	13679-46-4	405.15	34.851	1,2	7507	C6H9ClO3	ethyl 2-chloroacetoacetate	609-15-4	430.82	37.279	2
7419	C6H8O2	5-methyl-2-furanmethanol	3857-25-8	468.15	40.833	2	7508	C6H9ClO3	ethyl 4-chloro-4-oxobutyrate	14794-31-1	430.82	37.279	2
7420	C6H8O2	alpha-methyl-2-furanmethanol	4208-64-4	435.65	37.737	1,2	7509	C6H9ClO3	glutaric acid monomethyl ester chloride	1501-26-4	430.82	37.279	2
7421	C6H8O2	parasorbic acid	10048-32-5	444.11	38.541	2	7510	C6H9ClO3	methyl (E)-4-chloro-3-methoxy-2-butenoate	110104-60-4	430.82	37.279	2
7422	C6H8O2	3-cyclopentene-1-carboxylic acid	7686-77-3	444.11	38.541	2	7511	C6H9ClSn	chloro(trivinyl)stannane	10008-90-9	419.15	36.173	1,2
7423	C6H8O2	3,4-dihydro-6-methyl-2H-pyran-2-one	3740-59-8	444.11	38.541	2	7512	C6H9Cl3	1,1,2-trichloro-1-hexene	53977-99-4	450.00	39.102	2
7424	C6H8O2	3,4-dihydro-2H-pyran-2-carboxaldehyde	100-73-2	422.65	36.505	1,2	7513	C6H9Cl3O2	butyl trichloroacetate	3657-07-6	477.15	41.693	1,2
7425	C6H8O2	2,2-dimethyl-3(2H)-furanone	35298-48-7	444.11	38.541	2	7514	C6H9Cl3O2	sec-butyl trichloroacetate	4484-80-4	469.15	40.928	1,2
7426	C6H8O2	(R)-(+)-1-(2-furyl)ethanol	27948-61-4	444.11	38.541	2	7515	C6H9Cl3O2	tert-butyl trichloroacetate	1860-21-5	473.15	41.310	2
7427	C6H8O2	(S)-(-)-1-(2-furyl)ethanol	85828-09-7	444.11	38.541	2	7516	C6H9Cl3O2	ethyl 2,2,3-trichlorobutanoate	116723-97-8	485.15	42.459	1,2
7428	C6H8O2	2-methyl-1,3-cyclopentanedione	765-69-5	486.15	42.555	1,2	7517	C6H9Cl3O2	isobutyl trichloroacetate	33560-15-5	461.15	40.164	1,2
7429	C6H8O2	3-methyl-1,2-cyclopentanedione	765-70-8	444.11	38.541	2	7519	C6H9Cl3Si	cyclohexenyltrichlorosilane	10137-69-6	475.15	41.502	1,2
7430	C6H8O2	7-oxabicyclo[4.1.0]heptan-2-one	6705-49-3	444.11	38.541	2	7523	C6H9F3O2	butyl trifluoroacetate	367-64-6	375.15	32.030	1,2
7431	C6H8O2	vinyl crotonate	14861-06-4	406.65	34.992	1,2	7524	C6H9F3O2	tert-butyl trifluoroacetate	400-52-2	356.15	30.254	1,2
7432	C6H8O2	vinyl methacrylate	4245-37-8	384.65	32.921	1,2	7525	C6H9F3O2	ethyl 4,4,4-trifluorobutyrate	371-26-6	400.15	34.379	1,2
7433	C6H8O2	trans-(±)-3,5-cyclohexadiene-1,2-diol	103302-38-1	528.15	46.595	1,2	7526	C6H9F3O2	2,2,2-trifluoroethyl butyrate	371-27-7	385.65	33.015	1,2
7434	C6H8O2	(+)-1a,2b-dihydroxy-1,2-dihydrobenzene	103364-68-7	444.11	38.541	2	7529	C6H9F7Si	(heptafluoropropyl)trimethylsilane	3834-42-2	361.15	30.721	1,2
7435	C6H8O2	5-ethyl-2(5H)-furanone	2407-43-4	444.11	38.541	2	7530	C6H9IO2	ethyl cis-3-iodocrotonate	34450-62-9	488.15	42.747	1,2
7436	C6H8O2	6-hydroxy-trans,trans-2,4-hexadienal	141812-70-6	444.11	38.541	2	7531	C6H9IO6	iodine triacetate	---	431.65	37.358	1,2
7437	C6H8O2	4-hydroxyhex-4-enoic acid lactone	3393-34-8	444.11	38.541	2	7532	C6H9N	cyclopentanecarbonitrile	4254-02-8	432.35	37.424	2
7438	C6H8O2	2-hydroxy-3-methyl-2-cyclopenten-1-one	80-71-7	444.11	38.541	2	7533	C6H9N	2,4-dimethylpyrrole	625-82-1	441.15	38.260	1,2
7439	C6H8O3	3-acetyldihydro-2(3H)-furanone	517-23-7	492.65	43.178	2	7534	C6H9N	2,5-dimethylpyrrole	625-84-3	444.15	38.545	1,2
7440	C6H8O3	2,3-epoxypropyl acrylate	106-90-1	492.65	43.178	2	7535	C6H9N	1-ethyl-1H-pyrrole	617-92-5	402.65	34.615	1,2
7441	C6H8O3	2,5-dimethyl-4-hydroxy-3(2H)-furanone	3658-77-3	492.65	43.178	2	7536	C6H9N	2-ethyl-1H-pyrrole	1551-06-0	437.15	37.880	1,2
7442	C6H8O3	2,2-dimethylsuccinic anhydride	17347-61-4	492.65	43.178	1,2	7537	C6H9N	5-hexenenitrile	5048-19-1	436.65	37.832	1,2
7443	C6H8O3	3-methylglutaric anhydride	4166-53-4	492.65	43.178	2	7538	C6H9NO	N-methyl-2-furanmethanamine	4753-75-7	422.15	36.457	1,2
7444	C6H8O3	1,4-dimethyl-2,3,7-trioxabicyclo[2.2.1]hept-*	---	492.65	43.178	2	7539	C6H9NO	1-vinyl-2-pyrrolidinone	88-12-0	414.40	35.724	2
7445	C6H8O3	(+)-(1S,2R,3S,6R)-7-oxabicyclo(4.1.0)hept-4-*	121153-49-9	492.65	43.178	2	7540	C6H9NO	(1S,4R)-2-azabicyclo[2.2.1]heptan-3-one	134003-03-5	414.40	35.724	2
7446	C6H8O4	dimethyl maleate	624-48-6	478.15	47.099	1,2	7541	C6H9NO	6-azabicyclo[3.2.0]heptan-7-one	22031-52-3	414.40	35.724	2
7447	C6H8O4	allylpropanedioic acid	2583-25-7	453.15	39.402	2	7542	C6H9NO	5-methylfurfurylamine	14003-16-8	414.40	35.724	2
7448	C6H8O4	cis-1,3-cyclobutanedicarboxylic acid	2398-16-5	525.15	46.306	1,2	7543	C6H9NO	2,4,5-trimethyloxazole	20662-84-4	406.65	34.992	1,2
7449	C6H8O4	trans-1,3-cyclobutanedicarboxylic acid	7439-33-0	480.65	42.028	2	7544	C6H9NO	3-allyloxypropionitrile	3088-44-6	414.40	35.724	2
7450	C6H8O4	2,2-dimethyl-1,3-dioxane-4,6-dione	2033-24-1	480.65	42.028	2	7546	C6H9NO2	1-ethyl-2,5-pyrrolidinedione	2314-78-5	509.15	44.764	1,2
7451	C6H8O4	dimethyl fumarate	624-49-7	466.15	40.641	1,2	7548	C6H9NO2	(1S,4R)-4-aminocyclopent-2-enecarboxylic acid	102579-72-6	415.90	35.866	2
7452	C6H8O4	ethyl hydrogen fumarate	2459-05-4	480.65	42.028	2	7550	C6H9NO2	2-methoxymethyl-3-methoxypropenenitrile	1608-82-8	360.15	30.627	1,2
7453	C6H8O4	(1-methylethylidene)propanedioic acid	4441-90-1	480.65	42.028	2	7551	C6H9NO2	1-nitro-1-cyclohexene	2562-37-0	415.90	35.866	2
7454	C6H8O4	(S)-3-acetoxy-g-butyrolactone	191403-65-3	480.65	42.028	2	7552	C6H9NO2	N-acetylpyrrolidone	932-17-2	391.15	33.532	1,2
7455	C6H8O4	1,1-cyclobutanedicarboxylic acid	5445-51-2	480.65	42.028	2	7553	C6H9NO2	tert-butyl nitroacetylene	---	415.90	35.866	2
7456	C6H8O4	funginon	---	480.65	42.028	2	7554	C6H9NO2	carbavine	33060-69-4	415.90	35.866	2
7457	C6H8O5	6-deoxy-L-ascorbic acid	528-81-4	521.65	45.968	2	7555	C6H9NO2	3,3-dimethyl-1-nitro-1-butyne	22691-91-4	403.15	34.662	1,2
7458	C6H8O5	ethylene glycol maleate	26560-94-1	521.65	45.968	1,2	7573	C6H9NS	2-ethyl-4-methylthiazole	15679-12-6	434.65	37.642	1,2
7459	C6H8O6	ascorbic acid	50-81-7	637.00	115.309	1,2	7574	C6H9NS	2-n-propylthiazole	17626-75-4	454.15	39.497	2
7460	C6H8O6	DL-ascorbic acid	62624-30-0	637.00	57.191	2	7575	C6H9NS	2-thiopheneethylamine	30433-91-1	473.65	41.358	1,2
7461	C6H8O6	D-glucuronic acid gamma-lactone	32449-92-6	637.00	57.191	2	7576	C6H9NS	2,4,5-trimethylthiazole	13623-11-5	454.15	39.497	2
7462	C6H8O6	1,2,3-propanetricarboxylic acid	99-14-9	637.00	57.191	2	7577	C6H9NS	4-methyl-5-ethylthiazole	31883-01-9	454.15	39.497	2
7463	C6H8O6	D(-)-isoascorbic acid	89-65-6	637.00	57.191	2	7582	C6H9N3	1,2,3-benzenetriamine	608-32-2	609.15	54.464	1,2
7464	C6H8O7	citric acid	77-92-9	659.00	102.225	1,2	7583	C6H9N3	1,2,4-benzenetriamine	615-71-4	613.15	54.855	1,2
7465	C6H8O7	isocitric acid	320-77-4	659.00	59.352	2	7584	C6H9N3	2,6-dimethyl-4-pyrimidinamine	461-98-3	506.90	44.547	2
7467	C6H8S	2-ethylthiophene	872-55-9	407.15	35.484	1,2	7585	C6H9N3	4,5-dimethyl-2-pyrimidinamine	1193-74-4	506.90	44.547	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
7586	C6H9N3	4,6-dimethylpyrimidinamine	767-15-7	506.90	44.547	2	7711	C6H10NO8P	phosphonacetyl-L-aspartic acid	51321-79-0	369.95	31.543	1,2
7587	C6H9N3	2,5-diamino-3-picoline	106070-58-0	506.90	44.547	2	7712	C6H10N2	1-ethyl-3-methyl-1H-pyrazole	30433-57-9	425.15	36.741	1,2
7588	C6H9N3	5,6-diamino-2-picoline	33259-72-2	506.90	44.547	2	7713	C6H10N2	1,3,4-trimethyl-1H-pyrazole	15802-99-0	433.15	37.500	1,2
7589	C6H9N3	2,5-diamino-4-picoline	6909-93-9	506.90	44.547	2	7714	C6H10N2	1,3,5-trimethyl-1H-pyrazole	1072-91-9	443.15	38.450	1,2
7590	C6H9N3	3,6-diamino-2-picoline	6992-84-3	506.90	44.547	2	7715	C6H10N2	1,4,5-trimethyl-1H-pyrazole	15802-97-8	449.65	39.068	1,2
7591	C6H9N3	3,3'-iminodipropionitrile	111-94-4	446.15	38.735	1,2	7716	C6H10N2	3,4,5-trimethyl-1H-pyrazole	5519-42-6	506.15	44.475	1,2
7592	C6H9N3	1,3,5-triaminobenzene	108-72-5	506.90	44.547	2	7717	C6H10N2	3-imino-2-methylpentanenitrile	95642-49-2	530.65	46.837	1,2
7593	C6H9N3	3,6,9-triazatetracyclo[6.1.0.02,4.O5,7] nona*	52851-26-0	359.15	30.534	1,2	7718	C6H10N2	1-(dimethylamino)pyrrole	78307-76-3	412.15	35.512	1,2
7596	C6H9N3O2	cupferron	135-20-6	441.15	38.260	2	7719	C6H10N2	2-ethyl-4-methylimidazole	931-36-2	566.65	50.323	1,2
7598	C6H9N3O2	3-amino-4-carbethoxypyrazole	6994-25-8	441.15	38.260	2	7720	C6H10N2	2-isopropylimidazole	36947-68-9	531.15	46.885	1,2
7599	C6H9N3O2	2-amino-4,6-dimethoxypyrimidine	36315-01-2	441.15	38.260	2	7721	C6H10N2	1-piperidinecarbonitrile	1530-87-6	477.54	41.730	2
7602	C6H9N3O2	4-amino-2-methoxy-5-pyrimidinemethanol	3690-12-8	502.15	44.091	1,2	7722	C6H10N2	2-propylimidazole	50995-95-4	477.54	41.730	2
7603	C6H9N3O2	1-ethyl-3-(2-oxazolyl)urea	35629-44-8	380.15	32.499	1,2	7733	C6H10N2O2	1-(allylnitrosamino)-2-propanone	91308-71-3	232.55	18.930	2
7604	C6H9N3O3	metronidazole	443-48-1	532.00	46.967	2	7734	C6H10N2O2	tert-butyl diazoacetate	35059-50-8	239.65	19.568	1,2
7605	C6H9N3O3	1,3,5-trimethyl-1,3,5-triazine-2,4,6(1H,3H,5*	827-16-7	547.15	48.432	1,2	7735	C6H10N2O2	mecarbenil	73561-96-3	225.45	18.294	1,2
7606	C6H9N3O3	2,4,6-trimethoxy-1,3,5-triazine	877-89-4	532.00	46.967	2	7736	C6H10N2O2	3-methyl-1-nitroso-4-piperidone	71677-48-0	232.55	18.930	2
7607	C6H9N3O3	1,2,3-cyclohexanetrione trioxime	3570-93-2	532.00	46.967	2	7738	C6H10N2O2S2	N-methyl-tetrahydrothiamidinthione acetic ac*	3655-88-7	414.15	35.701	1,2
7608	C6H9N3O3	diazoacetylglycine ethyl ester	999-29-1	532.00	46.967	2	7739	C6H10N2O3	(±)-4-hydroxy-2-oxo-1-pyrrolidineacetamide	68567-97-5	414.25	35.710	1,2
7609	C6H9N3O3	6-diazo-5-oxonorleucine	157-03-9	516.85	45.505	1,2	7740	C6H10N2O3	N-nitrosobis(2-oxopropyl)amine	60599-38-4	439.65	38.117	1,2
7618	C6H9Sb	trivinylantimony	5613-68-3	376.65	32.171	1,2	7741	C6H10N2O3	N-nitrosoisonipectoic acid	6238-69-3	492.15	43.130	2
7619	C6H10	1-methylcyclopentene	693-89-0	348.95	29.054	1,2	7742	C6H10N2O3	1-nitrosopipecolic acid	4515-18-8	448.68	38.976	2
7620	C6H10	3-methylcyclopentene	1120-62-3	343.16	28.874	1,2	7750	C6H10N2O6	3,3'-nitroiminodipropionic acid	99-69-4	415.65	35.842	1,2
7621	C6H10	4-methylcyclopentene	1759-81-5	348.31	29.305	1,2	7757	C6H10N6	cyclopropylmelamine	66215-27-8	361.45	30.749	1,2
7622	C6H10	cyclohexene	110-83-8	356.12	31.110	1,2	7758	C6H10N6O	dacarbazine	4342-03-4	393.55	33.758	1,2
7623	C6H10	1,2-hexadiene	592-44-9	349.15	29.609	1,2	7759	C6H10N8O8	trans-1,4,5,8-tetranitro-1,4,5,8-tetraazadec*	---	343.65	29.090	1,2
7624	C6H10	1,cis-3-hexadiene	14596-92-0	346.15	29.253	1,2	7760	C6H10O	cyclohexanone	108-94-1	428.90	37.097	1,2
7625	C6H10	1,trans-3-hexadiene	20237-34-7	346.15	29.253	1,2	7761	C6H10O	mesityl oxide	141-79-7	402.95	36.086	1,2
7626	C6H10	1,4-hexadiene	592-45-0	338.15	27.132	1,2	7762	C6H10O	butoxyacetylene	3329-56-4	377.15	32.218	1,2
7627	C6H10	1,cis-4-hexadiene	7318-67-4	338.15	28.544	1,2	7763	C6H10O	7-oxabicyclo[4.1.0]heptane	286-20-4	404.65	34.804	1,2
7628	C6H10	1,trans-4-hexadiene	7319-00-8	338.15	28.544	1,2	7764	C6H10O	1-cyclobutylethanone	3019-25-8	411.15	35.417	1,2
7629	C6H10	1,5-hexadiene	592-42-7	332.61	27.538	1,2	7765	C6H10O	2-cyclohexen-1-ol	822-67-3	437.15	37.880	1,2
7630	C6H10	2,3-hexadiene	592-49-4	341.15	28.830	1,2	7766	C6H10O	3-cyclohexen-1-ol	822-66-2	437.15	37.880	1,2
7631	C6H10	2,4-hexadiene	592-46-1	353.15	31.449	1,2	7767	C6H10O	cyclopentanecarboxaldehyde	872-53-7	406.65	34.992	1,2
7632	C6H10	cis-2,trans-4-hexadiene	5194-50-3	356.65	30.507	1,2	7768	C6H10O	diallyl ether	557-40-4	367.15	31.281	1,2
7633	C6H10	cis-2,cis-4-hexadiene	6108-61-8	353.15	29.804	1,2	7769	C6H10O	3,6-dihydro-4-methyl-2H-pyran	16302-35-5	390.65	33.485	1,2
7634	C6H10	trans-2,trans-4-hexadiene	5194-51-4	355.05	30.677	1,2	7770	C6H10O	1-ethoxy-1,3-butadiene	5614-32-4	383.65	32.827	1,2
7635	C6H10	3-methyl-1,2-pentadiene	7417-48-3	343.15	28.856	1,2	7771	C6H10O	2-ethoxy-1,3-butadiene	4747-05-1	367.65	31.328	1,2
7636	C6H10	4-methyl-1,2-pentadiene	13643-05-5	343.15	28.792	1,2	7772	C6H10O	2-ethyl-1-buten-1-one	24264-08-2	361.65	30.767	1,2
7637	C6H10	3-methyl-1,3-pentadiene	4549-74-0	350.15	30.511	1,2	7773	C6H10O	3-hexen-2-one	763-93-9	413.15	35.606	1,2
7638	C6H10	2-methyl-1,cis-3-pentadiene	1501-60-6	349.15	29.297	1,2	7774	C6H10O	4-hexen-2-one	25659-22-7	400.15	34.379	1,2
7639	C6H10	2-methyl-1,trans-3-pentadiene	926-54-5	349.15	29.297	1,2	7775	C6H10O	4-hexen-3-one	2497-21-4	411.65	35.464	1,2
7640	C6H10	3-methyl-1,cis-3-pentadiene	2787-45-3	350.15	29.385	1,2	7776	C6H10O	5-hexen-2-one	109-49-9	402.65	34.615	1,2
7641	C6H10	3-methyl-1,trans-3-pentadiene	2787-43-1	350.15	29.385	1,2	7777	C6H10O	trans-3-hexen-2-one	4376-23-2	413.15	35.606	1,2
7642	C6H10	4-methyl-1,3-pentadiene	926-56-7	349.45	29.323	1,2	7778	C6H10O	2-methyl-1-penten-3-one	25044-01-3	391.65	33.579	1,2
7643	C6H10	2-methyl-1,4-pentadiene	763-30-4	323.15	27.074	1,2	7779	C6H10O	4-methyl-4-penten-2-one	3744-02-3	397.35	34.116	1,2
7644	C6H10	3-methyl-1,4-pentadiene	1115-08-8	328.15	27.481	1,2	7780	C6H10O	1,4-hexadien-3-ol	1070-14-0	403.66	34.710	2
7645	C6H10	2-methyl-2,3-pentadiene	3043-33-2	345.15	28.966	1,2	7781	C6H10O	1,5-hexadien-3-ol	924-41-4	406.65	34.992	1,2
7646	C6H10	2-ethyl-1,3-butadiene	3404-63-5	348.15	29.277	1,2	7782	C6H10O	2,4-hexadien-1-ol	111-28-4	403.66	34.710	2
7647	C6H10	2,3-dimethyl-1,3-butadiene	513-81-5	341.93	28.911	1,2	7783	C6H10O	3,5-hexadien-2-ol	3280-51-1	403.66	34.710	2
7648	C6H10	1-hexyne	693-02-7	344.48	30.446	1,2	7784	C6H10O	trans,trans-2,4-hexadien-1-ol	17102-64-6	403.66	34.710	2
7649	C6H10	2-hexyne	764-35-2	357.67	30.911	1,2	7785	C6H10O	trans-2-hexenal	6728-26-3	419.65	36.221	1,2
7650	C6H10	3-hexyne	928-49-4	354.35	30.369	1,2	7786	C6H10O	cis-3-hexenal	6789-80-6	394.15	33.814	1,2
7651	C6H10	3-methyl-1-pentyne	922-59-8	330.85	27.700	1,2	7787	C6H10O	trans-3-hexenal	69112-21-6	403.66	34.710	2
7652	C6H10	4-methyl-1-pentyne	7154-75-8	334.32	28.005	1,2	7788	C6H10O	2-methyl-2-pentenal	623-36-9	409.65	35.275	1,2
7653	C6H10	4-methyl-2-pentyne	21020-27-9	346.28	28.910	1,2	7789	C6H10O	2-hexyn-1-ol	764-60-3	403.66	34.710	2
7654	C6H10	3,3-dimethyl-1-butyne	917-92-0	310.87	25.479	1,2	7790	C6H10O	3-hexyn-1-ol	1002-28-4	435.15	37.690	1,2
7655	C6H10	methylenecyclopentane	1528-30-9	348.65	29.555	1,2	7791	C6H10O	5-hexyn-2-ol	23470-12-4	425.15	36.741	1,2
7656	C6H10	(1-methylvinyl)cyclopropane	4663-22-3	343.15	29.044	1,2	7792	C6H10O	1-hexyn-3-ol	105-31-7	415.15	35.795	1,2
7657	C6H10	1,3-hexadiene, cis and trans	592-48-3	346.55	29.438	1,2	7793	C6H10O	3-methyl-1-pentyn-3-ol	77-75-8	393.65	33.767	1,2
7658	C6H10	2-methyl-1,3-pentadiene	1118-58-7	348.55	30.028	1,2	7794	C6H10O	2-methylcyclopentanone	1120-72-5	412.65	35.559	1,2
7659	C6H10	methylpentadiene, isomers	54363-49-4	349.15	30.208	1,2	7795	C6H10O	3-methylcyclopentanone, (±)	6195-92-2	417.15	35.984	1,2
7660	C6H10	hexadiene	42296-74-2	344.64	28.889	2	7796	C6H10O	1,2-epoxy-5-hexene	10353-53-4	393.15	33.720	1,2
7673	C6H10Br2O2	ethyl 2,3-dibromobutanoate	609-11-0	495.65	43.466	2	7797	C6H10O	5-hexyn-1-ol	928-90-5	403.66	34.710	2
7674	C6H10Br2O2	ethyl 2,4-dibromobutanoate	36847-51-5	495.65	43.466	2	7798	C6H10O	3-methylcyclopentanone	1757-42-2	417.75	36.041	1,2
7675	C6H10Br2O2	propyl 2,3-dibromopropanoate	79762-76-8	495.65	43.466	1,2	7799	C6H10O	(R)-(+)-3-methylcyclopentanone	6672-30-6	416.65	35.937	1,2
7676	C6H10Br2O2	ethyl 3-bromo-2-(bromomethyl)propionate	58539-11-0	495.65	43.466	2	7800	C6H10O	methyl 1-methylcyclopropyl ketone	1567-75-5	399.60	34.328	1,2
7678	C6H10ClFO2	butyl chlorofluoroacetate	368-34-3	438.65	38.022	1,2	7801	C6H10O	4-methylpent-2-enal	5362-56-1	403.66	34.710	2
7679	C6H10ClFO2	2-chloroethyl-g-fluorobutyrate	371-28-8	438.65	38.022	2	7802	C6H10O	7-oxabicyclo[2.2.1]heptane	279-49-2	403.66	34.710	2
7684	C6H10Cl2	1,1-dichlorocyclohexane	2108-92-1	444.15	38.545	1,2	7803	C6H10O	3-hexyn-2-ol	109-50-2	353.15	29.974	1,2
7685	C6H10Cl2	cis-1,2-dichlorocyclohexane	10498-35-8	480.05	41.971	1,2	7804	C6H10O	3-methyl-3-penten-2-one	565-62-8	411.20	35.422	1,2
7686	C6H10Cl2	trans-1,2-dichlorocyclohexane, (±)	5183-79-9	462.15	40.260	1,2	7805	C6H10O	2-ethylcrotonaldehyde	19780-25-7	403.66	34.710	2
7687	C6H10Cl2	cis-1,4-dichlorocyclohexane	16749-11-4	463.25	40.365	2	7806	C6H10O	2-hexenal	505-57-7	447.15	38.830	1,2
7688	C6H10Cl2	cis-1,2-dichloro-1-hexene	59697-55-1	463.25	40.365	2	7807	C6H10O	methyldihydropyran	27156-32-7	403.66	34.710	2
7689	C6H10Cl2	trans-1,2-dichloro-1-hexene	59697-51-7	463.25	40.365	2	7808	C6H10O	methylenetetrahydropyran	35656-02-1	365.15	31.094	1,2
7690	C6H10Cl2	trans-1,2-dichlorocyclohexane	822-86-6	466.65	40.689	1,2	7813	C6H10O2	epsilon-caprolactone	502-44-3	514.00	44.210	1,2
7694	C6H10Cl2O2	butyl dichloroacetate	29003-73-4	466.65	40.689	1,2	7814	C6H10O2	ethyl methacrylate	97-63-2	390.15	34.376	1,2
7695	C6H10Cl2O2	isopropyl 2,3-dichloropropanoate	54774-99-1	466.65	40.689	2	7815	C6H10O2	propyl acrylate	925-60-0	392.15	36.515	1,2
7696	C6H10Cl2O2	2,2-dichlorohexanoic acid	18240-70-5	466.65	40.689	2	7816	C6H10O2	allyl glycidyl ether	106-92-3	427.15	36.931	1,2
7697	C6H10Cl2O2	2-(1,2-dichloroethyl)-4-methyl-1,3-dioxolane	10232-90-3	466.65	40.689	2	7817	C6H10O2	2-buten-1-yl acetate	628-08-0	405.15	34.851	1,2
7703	C6H10FNS	5-fluoroamyl thiocyanate	661-18-7	418.15	36.079	1,2	7818	C6H10O2	allyl propanoate	2408-20-0	396.15	38.008	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
7819	C6H10O2	cyclopentanecarboxylic acid	3400-45-1	485.15	42.459	1,2	7899	C6H10O3	tetrahydro-2H-pyran-4-carboxylic acid	5337-03-1	459.55	40.012	2
7820	C6H10O2	2,2-dimethyl-3-butenoic acid	10276-09-2	458.15	39.878	1,2	7900	C6H10O3	4-acetoxy-2-butanone	10150-87-5	459.55	40.012	2
7821	C6H10O2	trans-2-ethyl-2-butenoic acid	1187-13-9	482.15	42.172	1,2	7901	C6H10O3	2,2-dimethyl-1,3-dioxan-5-one	74181-34-3	459.55	40.012	2
7822	C6H10O2	2-hexenoic acid	1191-04-4	489.65	42.891	1,2	7902	C6H10O3	ethylene glycol methyl ether acrylate	3121-61-7	459.55	40.012	2
7823	C6H10O2	3-hexenoic acid	4219-24-3	481.15	42.076	1,2	7903	C6H10O3	ethyl 1-hydroxycyclopropanecarboxylate	137682-89-4	459.55	40.012	2
7824	C6H10O2	5-hexenoic acid	1577-22-6	476.15	41.597	1,2	7904	C6H10O3	hydroxyadipaldehyde	141-31-1	459.55	40.012	2
7825	C6H10O2	2-methyl-3-pentenoic acid	37674-63-8	472.15	41.215	1,2	7905	C6H10O3	cis-2-hydroxy-1-cyclopentanecarboxylic acid	17502-28-2	459.55	40.012	2
7826	C6H10O2	4-methyl-2-pentenoic acid	10321-71-8	490.15	42.939	1,2	7906	C6H10O3	hydroxypropyl acrylate, isomers	25584-83-2	350.15	29.695	1,2
7827	C6H10O2	trans-2-methyl-2-pentenoic acid	16957-70-3	487.15	42.651	1,2	7907	C6H10O3	methyl 3-hydroxy-2-methylenebutyrate	18020-65-0	459.55	40.012	2
7828	C6H10O2	cis-3-methyl-2-pentenoic acid	19866-51-4	475.00	41.487	2	7908	C6H10O3	methyl 3-oxovalerate	30414-53-0	459.55	40.012	2
7829	C6H10O2	ethyl 3-butenoate	1617-18-1	392.15	36.526	1,2	7909	C6H10O3	(±)-mevalonolactone	674-26-0	459.55	40.012	2
7830	C6H10O2	ethyl cis-2-butenoate	6776-19-8	409.15	35.228	1,2	7910	C6H10O3	(S)-(+)-pantolactone	5405-40-3	459.55	40.012	2
7831	C6H10O2	ethyl 2-butenoate	10544-63-5	409.65	35.275	1,2	7911	C6H10O3	butanoic acid, 2-oxo-, ethyl ester	15933-07-0	435.20	37.695	1,2
7832	C6H10O2	ethyl trans-2-butenoate	623-70-1	411.15	35.417	1,2	7912	C6H10O3	5,5-dimethyl-1,3-dioxan-2-one	3592-12-9	459.55	40.012	2
7833	C6H10O2	vinyl butanoate	123-20-6	389.85	35.712	1,2	7913	C6H10O3	ethyl-2,3-epoxybutyrate	19780-35-9	459.55	40.012	2
7834	C6H10O2	vinyl 2-methylpropanoate	2424-98-8	377.65	31.809	1,2	7914	C6H10O3	ethyl-2-(hydroxymethyl)acrylate	10029-04-6	459.55	40.012	2
7835	C6H10O2	ethyl cyclopropanecarboxylate	4606-07-9	407.15	35.039	1,2	7917	C6H10O4	adipic acid	124-04-9	611.00	72.940	1,2
7836	C6H10O2	5-ethyldihydro-2(3H)-furanone	695-06-7	488.65	42.795	1,2	7918	C6H10O4	diethyl oxalate	95-92-1	458.85	45.144	1,2
7837	C6H10O2	1,5-hexadiene-3,4-diol, (R*,R*)-(±)	19700-97-1	435.22	37.696	2	7919	C6H10O4	ethylene glycol diacetate	111-55-7	463.65	45.368	1,2
7838	C6H10O2	hexanedial	1072-21-5	435.22	37.696	2	7920	C6H10O4	ethylidene diacetate	542-10-9	442.15	46.860	1,2
7839	C6H10O2	2,4-hexanedione	3002-24-2	433.15	37.500	1,2	7921	C6H10O4	1,4:3,6-dianhydro-D-mannitol	641-74-7	547.15	48.432	2
7840	C6H10O2	3,4-hexanedione	4437-51-8	403.15	34.662	1,2	7922	C6H10O4	2,3-dimethylbutanedioic acid	13545-04-5	482.92	42.246	2
7841	C6H10O2	2,5-hexanedione	110-13-4	467.15	40.737	1,2	7923	C6H10O4	dimethyl methylmalonate	609-02-9	447.15	38.830	1,2
7842	C6H10O2	3-hexyne-2,5-diol	3031-66-1	435.22	37.696	2	7924	C6H10O4	dimethyl succinate	106-65-0	469.55	40.966	1,2
7843	C6H10O2	methyl cyclobutanecarboxylate	765-85-5	408.65	35.181	1,2	7925	C6H10O4	ethyl (acetyloxy)acetate	623-86-9	452.15	39.306	1,2
7844	C6H10O2	2-methylenepentanoic acid	5650-75-9	487.15	42.651	1,2	7926	C6H10O4	ethylbutanedioic acid, (R)	4074-24-2	454.65	39.544	1,2
7845	C6H10O2	methyl 2-methyl-2-butenoate	6622-76-0	412.15	35.512	1,2	7927	C6H10O4	ethyl hydrogen succinate	1070-34-4	482.92	42.246	2
7846	C6H10O2	methyl 3-methyl-2-butenoate	924-50-5	409.65	35.275	1,2	7928	C6H10O4	3-methylglutaric acid	626-51-7	482.92	42.246	2
7847	C6H10O2	trans-1,4-cyclohexenediol	41513-32-0	435.22	37.696	2	7929	C6H10O4	monomethyl glutarate	1501-27-5	482.92	42.246	2
7848	C6H10O2	5,6-dihydro-4-methoxy-2H-pyran	17327-22-9	435.22	37.696	2	7930	C6H10O4	dianhydro-d-glucitol	652-67-5	482.92	42.246	2
7848.1	C6H10O2	isopropyl acrylate	689-12-3	383.15	34.187	1,2	7931	C6H10O4	2,2-dimethylsuccinic acid	597-43-3	482.92	42.246	2
7849	C6H10O2	3,4-dihydro-2-methoxy-2H-pyran	4454-05-1	394.95	33.890	1,2	7932	C6H10O4	2-methylglutaric acid	18069-17-5	482.92	42.246	2
7850	C6H10O2	2,3-dimethoxy-1,3-butadiene	3588-31-6	408.15	35.134	1,2	7933	C6H10O4	methyl 2-hydroxy-2-methyl-3-oxobutyrate	72450-34-1	482.92	42.246	2
7851	C6H10O2	1,4-dimethoxy-2-butyne	16356-02-8	435.22	37.696	2	7934	C6H10O4	methyl 4-methoxyacetoacetate	41051-15-4	482.92	42.246	2
7852	C6H10O2	3-ethoxy-2-methylacrolein	42588-57-8	435.22	37.696	2	7935	C6H10O4	bis(1-oxopropyl) peroxide	3248-28-0	482.92	42.246	2
7853	C6H10O2	ethylene glycol divinyl ether	764-78-3	399.15	34.285	1,2	7936	C6H10O4	n-propylmalonic acid	616-62-6	482.92	42.246	2
7854	C6H10O2	1,5-hexadiene-3,4-diol, (±) and meso	1069-23-4	362.15	30.814	1,2	7937	C6H10O4	racemic-2,3-dimethyl-butanedioic acid	608-40-2	482.92	42.246	2
7855	C6H10O2	2,3-hexanedione	3848-24-6	401.05	34.464	1,2	7938	C6H10O4	dianhydrogalactitol	23261-20-3	482.92	42.246	2
7856	C6H10O2	trans-2-hexenoic acid	13419-69-7	490.15	42.939	1,2	7939	C6H10O4	dianhydromannitol	19895-66-0	482.92	42.246	2
7857	C6H10O2	trans-3-hexenoic acid	1577-18-0	481.15	42.076	1,2	7940	C6H10O4	2-methoxyethoxy acrylate	102612-69-1	482.92	42.246	2
7858	C6H10O2	3-methyl-2,4-pentanedione, tautomers	815-57-6	444.65	38.592	1,2	7947	C6H10O5	diethyl dicarbonate	1609-47-8	473.15	41.310	2
7859	C6H10O2	methyl trans-2-pentenoate	15790-88-2	435.22	37.696	2	7948	C6H10O5	1,6-anhydro-b-D-glucopyranose	498-07-7	473.15	41.310	2
7860	C6H10O2	methyl trans-3-pentenoate	20515-19-9	435.22	37.696	2	7949	C6H10O5	dimethyl (R)-(+)malate	70681-41-3	473.15	41.310	2
7861	C6H10O2	2-methyl-4-pentenoic acid	1575-74-2	475.00	41.487	2	7950	C6H10O5	dimethyl methoxymalonate	5018-30-4	488.15	42.747	1,2
7862	C6H10O2	2-methyl-2-pentenoic acid	3142-72-1	475.00	41.487	2	7951	C6H10O5	D-3-deoxyglucosone	4084-27-9	473.15	41.310	2
7863	C6H10O2	iso-caprolactone	3123-97-5	435.22	37.696	2	7952	C6H10O5	dimethyl 2,2'-oxybisacetate	7040-23-5	473.15	41.310	2
7864	C6H10O2	2-hydroxycyclohexanone	533-60-8	435.22	37.696	2	7953	C6H10O5	b-hydroxy-b-methylglutaric acid	503-49-1	458.15	39.878	1,2
7865	C6H10O2	2-cyclohexenyl hydroperoxide	4845-05-0	435.22	37.696	2	7953.1	C6H10O5	dilactic acid	19201-34-4	489.00	55.923	1,2
7866	C6H10O2	1,2:5,6-diepoxyhexane	1888-89-7	435.22	37.696	2	7954	C6H10O6	dimethyl tartrate, (±)	608-69-5	553.15	49.014	1,2
7867	C6H10O2	1-hydroperoxycyclohex-3-ene	4096-33-7	435.22	37.696	2	7955	C6H10O6	ethyl tartrate	608-89-9	553.15	49.014	2
7868	C6H10O2	3-methyl glutaraldehyde	6280-15-5	439.15	38.070	1,2	7956	C6H10O6	beta-lactonegluconic acid	3087-62-5	553.15	49.014	2
7869	C6H10O2	b-methyl-D-valerolactone	10603-03-9	435.22	37.696	2	7957	C6H10O6	delta-lactone-D-gluconic acid	90-80-2	553.15	49.014	2
7870	C6H10O2S	diallyl sulfone	16841-48-8	401.15	34.474	1,2	7958	C6H10O6	(-)-dimethyl d-tartrate	13171-64-7	553.15	49.014	2
7871	C6H10O2S	ethyl 3-thioxobutanoate	7740-33-2	401.15	34.474	2	7959	C6H10O6	(+)-dimethyl l-tartrate	608-68-4	553.15	49.014	2
7872	C6H10O2S	2-methylthioethyl acrylate	4836-09-3	401.15	34.474	2	7960	C6H10O6	dimethyl tartrate; (meso)	5057-96-5	553.15	49.014	2
7873	C6H10O2S2	diethyl dithiooxalate	615-85-0	508.15	44.668	1,2	7961	C6H10O6	L-glucono-1,5-lactone	52153-09-0	553.15	49.014	2
7874	C6H10O2S2	ethyl 1,3-dithiolane-2-carboxylate	20461-99-8	358.15	30.441	1,2	7962	C6H10O6	L(+)-gulonic acid g-lactone	1128-23-0	553.15	49.014	2
7875	C6H10O2S2	hexanebis(thioic) acid	10604-70-3	433.15	37.500	2	7963	C6H10O6	D(-)-gulonic acid g-lactone	6322-07-2	553.15	49.014	2
7877	C6H10O2S5	di(ethylxanthogen)trisulfide	1851-77-0	412.65	35.559	1,2	7964	C6H10O6	diethyl peroxydicarbonate	14666-78-5	553.15	49.014	2
7878	C6H10O2S6	bis(ethylxanthogen) tetrasulfide	1851-71-4	407.15	35.039	1,2	7966	C6H10O6S2	1,4-dimethane sulfonoxy-2-butyne	2917-96-6	435.65	37.737	1,2
7879	C6H10O2Si	trimethylsilyl propiolate	19232-22-5	345.65	29.276	1,2	7971	C6H10S	cyclohexanethione	2720-41-4	411.75	35.474	2
7880	C6H10O2Si	3-(trimethylsilyl)propynoic acid	5683-31-8	345.65	29.276	2	7972	C6H10S	diallyl sulfide	592-88-1	411.75	35.474	1,2
7881	C6H10O3	ethylacetoacetate	141-97-9	453.95	43.609	1,2	7973	C6H10S	cyclohexene sulfide	286-28-2	411.75	35.474	2
7882	C6H10O3	propionic anhydride	123-62-6	442.15	42.794	1,2	7979	C6H11Br	cis-1-bromo-1-hexene	13154-12-6	413.15	36.893	1,2
7883	C6H10O3	allyl lactate	5349-55-3	459.55	40.012	2	7980	C6H11Br	trans-1-bromo-1-hexene	13154-13-7	413.15	36.893	1,2
7884	C6H10O3	diglycidyl ether	2238-07-5	533.15	47.078	1,2	7981	C6H11Br	bromocyclohexane	108-85-0	439.35	38.089	1,2
7885	C6H10O3	2,5-dihydro-2,5-dimethoxyfuran	332-77-4	434.15	37.595	1,2	7982	C6H11Br	6-bromo-1-hexene	2695-47-8	422.95	41.749	2
7886	C6H10O3	2,2-dimethyl-1,3-dioxolane-4-carboxaldehyde	5736-03-8	459.55	40.012	2	7983	C6H11Br	5-bromo-2-methyl-2-pentene	2270-59-9	426.15	43.023	1,2
7887	C6H10O3	3,3-dimethyl-2-oxobutanoic acid	815-17-8	462.15	40.260	1,2	7985	C6H11BrO	2-bromocyclohexanol	24796-87-0	459.82	40.037	2
7888	C6H10O3	ethylene glycol monomethacrylate	868-77-9	459.55	40.012	2	7986	C6H11BrO	6-bromo-2-hexanone	10226-29-6	489.15	42.843	1,2
7889	C6H10O3	ethyl 2-hydroxy-3-butenoate	91890-87-8	446.15	38.735	2	7987	C6H11BrO	2-(bromomethyl)tetrahydro-2H-pyran	34723-82-5	426.15	36.836	1,2
7890	C6H10O3	ethyl 4-oxobutanoate	10138-10-0	435.15	37.690	1,2	7988	C6H11BrO	1-bromopinacolone	5469-26-1	464.15	40.451	1,2
7891	C6H10O3	3-hydroxy-2,5-hexanedione	61892-85-1	459.55	40.012	2	7989	C6H11BrO	3-bromotetrahydro-2-methyl-2H-pyran	156051-16-0	459.82	40.037	2
7892	C6H10O3	2-hydroxypropyl acrylate	999-61-1	459.55	40.012	2	7990	C6H11BrO2	2-bromohexanoic acid, (±)	2681-83-6	513.15	45.149	1,2
7893	C6H10O3	methyl 2-methylacetoacetate	17094-21-2	450.55	39.154	1,2	7991	C6H11BrO2	6-bromohexanoic acid	4224-70-8	469.86	40.996	2
7894	C6H10O3	methyl 4-oxopentanoate	624-45-3	469.15	40.928	1,2	7992	C6H11BrO2	tert-butyl bromoacetate	5292-43-3	469.86	40.996	2
7895	C6H10O3	2-methyl-4-oxopentanoic acid	6641-83-4	459.55	40.012	2	7993	C6H11BrO2	ethyl 2-bromobutanoate	533-68-6	450.15	39.116	1,2
7896	C6H10O3	3-methyl-4-oxopentanoic acid	6628-79-1	514.65	45.293	1,2	7994	C6H11BrO2	ethyl 4-bromobutanoate	2969-81-5	465.15	40.546	1,2
7897	C6H10O3	5-oxohexanoic acid	3128-06-1	547.65	48.481	1,2	7995	C6H11BrO2	ethyl 2-bromo-2-methylpropanoate	600-00-0	436.15	37.785	1,2
7898	C6H10O3	pantolactone	599-04-2	459.55	40.012	2	7996	C6H11BrO2	isobutyl bromoacetate	59956-48-8	461.15	40.164	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
7997	C6H11BrO2	methyl 2-bromo-3-methylbutanoate	26330-51-8	450.15	39.116	1,2	8099	C6H11N	(S)-cyclohex-2-enylamine	153922-89-5	412.78	35.571	2
7998	C6H11BrO2	4-bromobutyl acetate	4753-59-7	469.86	40.996	2	8100	C6H11N	2,5-dimethyl-3-pyrroline, cis and trans	59480-92-1	376.65	32.171	1,2
7999	C6H11BrO2	2-(2-bromoethyl)-1,3-dioxane	33884-43-4	469.86	40.996	2	8101	C6H11NO	epsilon-caprolactam	105-60-2	543.15	54.688	1,2
8000	C6H11BrO2	2-bromohexanoic acid	616-05-7	513.15	45.149	1,2	8102	C6H11NO	cyclohexanone oxime	100-64-1	481.15	47.966	1,2
8001	C6H11BrO2	methyl 5-bromovalerate	5454-83-1	469.86	40.996	2	8103	C6H11NO	1,5-dimethyl-2-pyrrolidinone	5075-92-3	490.15	42.939	1,2
8004	C6H11Br3	1,1,1-tribromohexane	62127-63-3	520.15	50.217	1,2	8104	C6H11NO	3,3-dimethyl-2-pyrrolidinone	4831-43-0	510.15	44.860	1,2
8006	C6H11Cl	cis-1-chloro-1-hexene	50586-18-0	394.45	34.130	1,2	8105	C6H11NO	1-isocyanato-3-methylbutane	1611-65-0	410.15	35.323	1,2
8007	C6H11Cl	trans-1-chloro-1-hexene	50586-19-1	394.45	34.130	1,2	8106	C6H11NO	1-methyl-3-piperidinone	5519-50-6	474.25	41.416	2
8008	C6H11Cl	chlorocyclohexane	542-18-7	415.15	35.795	1,2	8107	C6H11NO	1-methyl-4-piperidinone	1445-73-4	474.25	41.416	2
8009	C6H11Cl	1-chloro-2,3-dimethyl-2-butene	37866-06-1	385.15	31.624	1,2	8108	C6H11NO	3-methyl-2-piperidinone	3768-43-2	522.65	46.065	1,2
8010	C6H11Cl	1-chloro-1-hexene	22922-67-4	394.15	34.323	1,2	8109	C6H11NO	1-methyl-2-piperidinone	931-20-4	494.15	43.322	1,2
8011	C6H11Cl	1-chloro-3-hexene	62706-16-5	395.45	34.740	2	8110	C6H11NO	1-piperidinecarboxaldehyde	2591-86-8	495.65	43.466	1,2
8012	C6H11Cl	2-chloro-1-hexene	10124-73-9	386.15	31.908	1,2	8111	C6H11NO	trans-4-(dimethylamino)-3-buten-2-one	2802-08-6	474.25	41.416	2
8013	C6H11Cl	4-chloro-2-hexene	6734-98-1	396.15	34.967	1,2	8112	C6H11NO	5,5-dimethyl-1-pyrroline N-oxide	3317-61-1	474.25	41.416	2
8014	C6H11Cl	5-chloro-1-hexene	927-54-8	393.85	34.227	1,2	8113	C6H11NO	1-ethyl-2-pyrrolidone	2687-91-4	474.25	41.416	2
8015	C6H11Cl	cis-3-chloro-3-hexene	17226-34-5	390.15	33.084	1,2	8114	C6H11NO	N-isopropylacrylamide	2210-25-5	474.25	41.416	2
8016	C6H11Cl	3-chloro-2-methyl-1-pentene	4104-01-2	394.15	34.323	1,2	8115	C6H11NO	pentyl isocyanate	3954-13-0	409.65	35.275	1,2
8017	C6H11Cl	5-chloro-2-methyl-2-pentene	7712-60-9	406.15	38.474	1,2	8117	C6H11NO	2,4,4-trimethyl-2-oxazoline	1772-43-6	385.65	33.015	1,2
8018	C6H11ClO	cis-2-chlorocyclohexanol, (±)	116783-28-9	415.92	35.868	2	8118	C6H11NO	a-vinyl-1-aziridineethanol	3691-16-5	474.25	41.416	2
8019	C6H11ClO	trans-2-chlorocyclohexanol	6628-80-4	415.92	35.868	2	8119	C6H11NO	2-aminomethyl-2,3-dihydro-4H-pyran	4781-76-4	474.25	41.416	2
8020	C6H11ClO	trans-4-chlorocyclohexanol	29538-77-0	415.92	35.868	2	8120	C6H11NO	2-aminomethyltetrahydropyran	6628-83-7	474.25	41.416	2
8021	C6H11ClO	2,2-dimethylbutanoyl chloride	5856-77-9	405.15	34.851	1,2	8121	C6H11NO	1-n-butyrylaziridine	10431-86-4	474.25	41.416	2
8022	C6H11ClO	2,3-dimethylbutanoyl chloride	51760-90-8	408.15	35.134	1,2	8122	C6H11NO	N-ethyl-N-vinylacetamide	3195-79-7	474.25	41.416	2
8023	C6H11ClO	3,3-dimethylbutanoyl chloride	7065-46-5	403.15	34.662	1,2	8123	C6H11NO	2-isopropyl acrylaldehyde oxime	---	474.25	41.416	2
8024	C6H11ClO	2-ethylbutanoyl chloride	2736-40-5	413.15	35.606	1,2	8125	C6H11NO2	N-acetyl-N-ethylacetamide	1563-83-3	470.15	41.024	1,2
8025	C6H11ClO	hexanoyl chloride	142-61-0	426.15	36.836	1,2	8126	C6H11NO2	4-acetylmorpholine	1696-20-4	481.12	42.073	2
8026	C6H11ClO	2-methylpentanoyl chloride, (±)	116908-84-0	414.15	35.701	1,2	8128	C6H11NO2	ethyl trans-3-amino-2-butenoate	41867-20-3	485.15	42.459	2
8027	C6H11ClO	3-methylpentanoyl chloride, (±)	116908-85-1	414.15	35.701	1,2	8129	C6H11NO2	1-(2-hydroxyethyl)-2-pyrrolidinone	3445-11-2	568.15	50.469	1,2
8028	C6H11ClO	2-chlorocyclohexanol	1561-86-0	415.92	35.868	2	8130	C6H11NO2	1-methyl-1-nitrocyclopentane	30168-50-4	452.15	39.306	1,2
8029	C6H11ClO	6-chloro-2-hexanone	10226-30-9	415.92	35.868	2	8131	C6H11NO2	1-methyl-2-nitrocyclopentane	102153-88-8	458.15	39.878	2
8030	C6H11ClO	2-(chloromethyl)tetrahydro-2H-pyran	18420-41-2	415.92	35.868	2	8132	C6H11NO2	nitrocyclohexane	1122-60-7	478.15	41.789	1,2
8031	C6H11ClO	1-chloropinacolone	13547-70-1	444.65	38.592	1,2	8133	C6H11NO2	(nitromethyl)cyclopentane	2625-31-2	481.12	42.073	2
8032	C6H11ClO	2-methylvaleryl chloride	5238-27-7	414.60	35.743	1,2	8138	C6H11NO2	(1S,3R)-3-aminocyclopentanecarboxylic acid	71830-07-4	481.12	42.073	2
8033	C6H11ClO2	sec-butyl chloroacetate	17696-64-9	436.65	37.832	1,2	8139	C6H11NO2	(1R,3S)-3-aminocyclopentanecarboxylic acid	71830-08-5	481.12	42.073	2
8034	C6H11ClO2	tert-butyl chloroacetate	107-59-5	423.15	36.552	1,2	8140	C6H11NO2	3-cyanopropionaldehyde dimethyl acetal	14618-78-1	481.12	42.073	2
8035	C6H11ClO2	butyl chloroacetate	590-02-3	456.15	39.687	1,2	8141	C6H11NO2	diethoxyacetonitrile	6136-93-2	440.85	38.231	1,2
8036	C6H11ClO2	2-chloro-1,1-dimethoxy-2-butene	108365-83-9	439.13	38.068	2	8142	C6H11NO2	N,N-dimethylacetoacetamide	2044-64-6	493.05	43.217	1,2
8037	C6H11ClO2	2-chloroethyl 2-methylpropanoate	33662-96-3	443.15	38.450	1,2	8143	C6H11NO2	ethyl 3-aminocrotonate	626-34-6	485.65	42.507	1,2
8038	C6H11ClO2	ethyl 2-chlorobutanoate	7425-45-8	436.65	37.832	1,2	8144	C6H11NO2	ethyl 3-aminocrotonate	7318-00-5	485.65	42.507	1,2
8039	C6H11ClO2	ethyl 3-chlorobutanoate	7425-48-1	439.13	38.068	2	8145	C6H11NO2	cis-2-hydroxy-1-cyclopentanecarboxamide	40481-98-9	481.12	42.073	2
8040	C6H11ClO2	ethyl 4-chlorobutanoate	3153-36-4	457.15	39.783	1,2	8146	C6H11NO2	(4S)-(-)-4-isopropyl-2-oxazolidinone	17016-83-0	481.12	42.073	2
8041	C6H11ClO2	isobutyl chloroacetate	13361-35-8	443.15	38.450	1,2	8147	C6H11NO2	(4R)-(+)-4-isopropyl-2-oxazolidinone	95530-58-8	481.12	42.073	2
8042	C6H11ClO2	isopentyl chloroformate	628-50-2	427.45	36.959	1,2	8148	C6H11NO2	(2S,3S)-3-methylpyrrolidine-2-carboxylic acid	10512-89-7	481.12	42.073	2
8043	C6H11ClO2	isopropyl 2-chloropropanoate	40058-87-5	424.65	36.694	1,2	8149	C6H11NO2	(2S)-5-methylpyrrolidine-2-carboxylic acid	89531-37-3	481.12	42.073	2
8044	C6H11ClO2	pentyl chloroformate	638-41-5	439.13	38.068	2	8150	C6H11NO2	6-nitro-1-hexene	4812-17-3	468.15	40.833	1,2
8045	C6H11ClO2	propyl 3-chloropropanoate	62108-66-1	453.15	39.402	1,2	8154	C6H11NO2	L-proline methyl ester hydrochloride	2133-40-6	481.12	42.073	2
8046	C6H11ClO2	4-chlorobutyl acetate	6962-92-1	439.13	38.068	2	8155	C6H11NO2	dipropionamide	6050-26-6	488.20	42.752	1,2
8047	C6H11ClO2	4-chloromethyl-2,2-dimethyl-1,3-dioxolane	4362-40-7	429.15	37.121	1,2	8156	C6H11NO2	2,4-dihydroxy-3,3-dimethylbutyronitrile	10232-92-5	481.12	42.073	2
8048	C6H11ClO2	(R)-(+)-4-(chloromethyl)-2,2-dimethyl-1,3-di*	57044-24-3	439.13	38.068	2	8157	C6H11NO2	2-nitro-2-hexene	6065-17-4	445.00	38.626	2
8049	C6H11ClO2	(S)-(-)-4-(chloromethyl)-2,2-dimethyl-1,3-di*	60456-22-6	439.13	38.068	2	8158	C6H11NO2	3-nitro-3-hexene	4812-22-0	445.00	38.626	2
8050	C6H11ClO2	chloromethyl pivalate	18997-19-8	439.13	38.068	2	8164	C6H11NO3	ethyl acetamidoacetate	1906-82-7	402.15	34.568	2
8051	C6H11ClO2	methyl 5-chlorovalerate	14273-86-0	439.13	38.068	2	8165	C6H11NO3	ethyl N,N-dimethyloxamate	16703-52-9	402.15	34.568	1,2
8052	C6H11ClO2	neopentyl chloroformate	20412-38-8	439.13	38.068	2	8166	C6H11NO3	N-formyl-3-methoxy-morpholine	61020-09-5	402.15	34.568	2
8053	C6H11ClO2	allylchlorohydrin ether	4638-03-3	439.13	38.068	2	8167	C6H11NO3	4-acetamidobutyric acid	3025-96-5	402.15	34.568	2
8066	C6H11Cl3	1,1,1-trichlorohexane	17760-40-6	454.15	39.812	1,2	8169	C6H11NO4	2-aminoadipic acid	626-71-1	499.15	43.802	2
8067	C6H11Cl3O2	1,1,1-trichloro-2,2-diethoxyethane	599-97-3	470.15	41.024	1,2	8170	C6H11NO4	diethyl iminodicarboxylate	19617-44-8	499.15	43.802	1,2
8071	C6H11F	cis-1-fluoro-1-hexene	66225-46-5	340.11	29.191	2	8171	C6H11NO4	L-2-aminoadipic acid	1118-90-7	499.15	43.802	2
8072	C6H11F	trans-1-fluoro-1-hexene	66225-47-6	340.11	29.191	2	8172	C6H11NO4	(2S,4R)-(+)-2-amino-4-methylpentanedioic acid	31137-74-2	499.15	43.802	2
8073	C6H11F	fluorocyclohexane	372-46-3	374.15	31.937	1,2	8173	C6H11NO4	ethyl 2-nitrobutyrate	2531-81-9	499.15	43.802	2
8074	C6H11FO2	tert-butyl fluoroacetate	406-74-6	405.15	34.851	1,2	8174	C6H11NO4	L-glutamic acid 5-methyl ester	1499-55-4	499.15	43.802	2
8075	C6H11FO2	6-fluorohexanoic acid	373-05-7	405.15	34.851	2	8175	C6H11NO4	6-nitrocaproic acid	10269-96-2	499.15	43.802	2
8077	C6H11F3	1,1,1-trifluorohexane	---	348.15	30.142	1,2	8176	C6H11NO4S	3-((2-carboxyethyl)thio)alanine	4033-46-9	369.65	31.515	1,2
8079	C6H11HgO7	mercury gluconate	63937-14-4	629.75	56.480	1,2	8178	C6H11NS	4,5-dihydro-2,4,4-trimethylthiazole	4145-94-2	420.15	36.268	1,2
8080	C6H11I	cis-1-iodo-1-hexene	16538-47-9	444.15	38.572	1,2	8179	C6H11NS	isopentyl isothiocyanate	628-03-5	456.15	39.687	1,2
8081	C6H11I	trans-1-iodo-1-hexene	16644-98-7	444.15	38.572	1,2	8180	C6H11NS	n-amyl thiocyanate	32446-40-5	438.15	37.975	2
8082	C6H11I	iodocyclohexane	626-62-0	453.15	39.402	2	8183	C6H11N3	1-butyl-1H-1,2,4-triazole	6086-22-2	552.65	48.965	2
8083	C6H11IO2	ethyl 2-iodobutanoate	7425-47-0	463.15	40.355	1,2	8184	C6H11N3	1-(3-aminopropyl)imidazole	5036-48-6	552.65	48.965	1,2
8084	C6H11IO2	4-iodobutyl acetate	40596-44-9	463.15	40.355	2	8185	C6H11N3	butrizol	16227-10-4	552.65	48.965	2
8086	C6H11I3	1,1,1-triiodohexane	---	612.87	54.158	2	8197	C6H11O4P	2-ethyl-2-(hydroxymethyl)-1,3-propanediol, c*	1005-93-2	281.15	23.330	1,2
8088	C6H11N	hexanenitrile	628-73-9	436.75	38.030	1,2	8200	C6H12	1-methyl-1-ethylcyclopropane	53778-43-1	329.92	27.819	1,2
8089	C6H11N	2-methylpentanenitrile	6339-13-5	420.15	37.580	1,2	8201	C6H12	1-methyl-cis-2-ethylcyclopropane	19781-68-1	340.16	28.679	1,2
8090	C6H11N	2-ethylbutanenitrile	617-80-1	418.15	37.392	1,2	8202	C6H12	1-methyl-trans-2-ethylcyclopropane	19781-69-2	331.81	27.941	1,2
8091	C6H11N	3-methylpentanenitrile	21101-88-2	426.15	38.141	1,2	8203	C6H12	1,1,2-trimethylcyclopropane	4127-45-1	325.59	27.169	1,2
8092	C6H11N	4-methylpentanenitrile	542-54-1	427.15	38.235	1,2	8204	C6H12	1,cis-2,cis-3-trimethylcyclopropane	4806-58-0	339.15	28.313	1,2
8093	C6H11N	2,2-dimethylbutanenitrile	20654-46-0	402.15	35.203	1,2	8205	C6H12	1,cis-2,trans-3-trimethylcyclopropane	4806-59-1	332.85	27.761	1,2
8094	C6H11N	2,3-dimethylbutanenitrile	20654-44-8	401.15	35.472	1,2	8206	C6H12	propylcyclopropane	2415-72-7	342.30	29.203	1,2
8095	C6H11N	3,3-dimethylbutanenitrile	3302-16-7	409.15	35.845	1,2	8207	C6H12	isopropylcyclopropane	3638-35-5	331.47	27.958	1,2
8096	C6H11N	N-allyl-2-propen-1-amine	124-02-7	384.15	32.874	1,2	8208	C6H12	1,1-dimethylcyclobutane	---	329.15	27.604	1,2
8097	C6H11N	7-azabicyclo[4.1.0]heptane	286-18-0	423.15	36.552	1,2	8209	C6H12	1,cis-2-dimethylcyclobutane	15679-01-3	341.15	28.563	1,2
8098	C6H11N	1-isocyanopentane	18971-59-0	428.65	37.073	1,2	8210	C6H12	1,trans-2-dimethylcyclobutane	15679-02-4	333.15	27.860	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
8211	C6H12	1,cis-3-dimethylcyclobutane	2398-09-6	333.65	27.904	1,2	8321	C6H12N2O	1-acetylpiperazine	13889-98-0	364.40	31.024	2
8212	C6H12	1,trans-3-dimethylcyclobutane	2398-10-9	330.65	27.640	1,2	8323	C6H12N2O	1,3-dimethyl-3,4,5,6-tetrahydro-2(1H)-pyrimi*	7226-23-5	364.40	31.024	2
8213	C6H12	ethylcyclobutane	4806-61-5	343.75	29.123	1,2	8326	C6H12N2O	2,5-dimethyl-N-nitrosopyrrolidine	55556-86-0	364.40	31.024	2
8214	C6H12	methylcyclopentane	96-37-7	344.96	29.337	1,2	8327	C6H12N2O	3-methylnitrosopiperidine	13603-07-1	387.65	33.203	1,2
8215	C6H12	cyclohexane	110-82-7	353.87	29.889	1,2	8328	C6H12N2O	4-methylnitrosopiperidine	15104-03-7	364.40	31.024	2
8216	C6H12	1-hexene	592-41-6	336.63	28.642	1,2	8329	C6H12N2O	N-nitrosohexahydroazepine	932-83-2	364.40	31.024	2
8217	C6H12	2-hexene; (cis+trans)	592-43-8	341.15	29.653	1,2	8330	C6H12N2O	1-nitroso-2-pipecoline	7247-89-4	364.40	31.024	2
8218	C6H12	cis-2-hexene	7688-21-3	342.03	28.826	1,2	8331	C6H12N2O	R(-)-N-nitroso-a-pipecoline	14026-03-0	364.40	31.024	2
8219	C6H12	trans-2-hexene	4050-45-7	341.02	29.097	1,2	8332	C6H12N2O	S(+)-N-nitroso-a-pipecoline	36702-44-0	364.40	31.024	2
8220	C6H12	hex-3-ene	592-47-2	339.95	29.279	1,2	8333	C6H12N2O	1-piperidinecarboxamide	2158-03-4	341.15	28.858	1,2
8221	C6H12	cis-3-hexene	7642-09-3	339.60	28.884	1,2	8334	C6H12N2OS	2-isopropyl-3-nitrosothiazolidine	72505-65-8	486.15	42.555	2
8222	C6H12	trans-3-hexene	13269-52-8	340.24	29.104	1,2	8335	C6H12N2OS	3-nitroso-2-propylthiazolidine	---	486.15	42.555	2
8223	C6H12	2-methyl-1-pentene	763-29-1	335.25	28.355	1,2	8339	C6H12N2O2	2,6-dimethylnitrosomorpholine	1456-28-6	338.33	28.595	2
8224	C6H12	3-methyl-1-pentene	760-20-3	327.33	27.301	1,2	8340	C6H12N2O2	N-nitrosoallyl-2-hydroxypropylamine	91308-70-2	338.33	28.595	2
8225	C6H12	4-methyl-1-pentene	691-37-2	327.01	27.414	1,2	8341	C6H12N2O2	cis-nitroso-2,6-dimethylmorpholine	69091-16-3	338.33	28.595	2
8226	C6H12	4-methyl-2-pentene	4461-48-7	330.35	26.512	1,2	8342	C6H12N2O2	trans-nitroso-2,6-dimethylmorpholine	69091-15-2	344.15	29.137	1,2
8227	C6H12	4-methyl-cis-2-pentene	691-38-3	329.53	30.747	1,2	8343	C6H12N2O2	N-nitroso-N-propylpropionamide	65792-56-5	332.50	28.055	1,2
8228	C6H12	4-methyl-trans-2-pentene	674-76-0	331.75	27.849	1,2	8344	C6H12N2O2	b-oxypropylpropylnitrosamine	39603-54-8	338.33	28.595	2
8229	C6H12	2-methyl-2-pentene	625-27-4	340.45	28.902	1,2	8345	C6H12N2O2S2	N,N'-bis(2-hydroxyethyl)-dithiooxamide	120-86-5	419.65	36.221	1,2
8230	C6H12	3-methyl-cis-2-pentene	922-62-3	340.85	28.917	1,2	8349	C6H12N2O3	1-acetoxy-N-nitrosodiethylamine	58431-24-6	341.45	28.886	2
8231	C6H12	3-methyl-2-pentene, cis and trans	922-61-2	341.05	29.622	1,2	8350	C6H12N2O3	N-(1-butyroxymethyl)methylnitrosamine	67557-56-6	341.45	28.886	2
8232	C6H12	3-methyl-trans-2-pentene	616-12-6	343.60	29.288	1,2	8351	C6H12N2O3	1-(((2-hydroxypropyl)nitroso)amino)acetone	61499-28-3	319.75	26.875	1,2
8233	C6H12	2,3-dimethyl-1-butene	563-78-0	328.76	27.472	1,2	8352	C6H12N2O3	N-isopropyl-N-(acetoxymethyl)nitrosamine	70715-91-2	307.95	25.787	1,2
8234	C6H12	2,3-dimethyl-2-butene	563-79-1	346.35	29.408	1,2	8353	C6H12N2O3	N-nitroso-2,3-dihydroxypropylallylamine	88208-16-6	396.65	34.050	1,2
8235	C6H12	3,3-dimethyl-1-butene	558-37-2	314.40	25.925	1,2	8354	C6H12N2O3	N-nitroso-ethyl(3-carboxypropyl)amine	54897-63-1	341.45	28.886	2
8236	C6H12	2-ethyl-1-butene	760-21-4	337.82	28.348	1,2	8355	C6H12N2O3	propylnitrosaminomethyl acetate	66017-91-2	341.45	28.886	2
8237	C6H12AsClO2	(2-chlorovinyl)diethoxyarsine	64049-11-2	418.65	36.126	1,2	8356	C6H12N2O3	N-propyl-N-nitrosourethane	19935-86-5	341.45	28.886	2
8245	C6H12Br2	1,1-dibromohexane	58133-26-9	475.15	44.517	1,2	8357	C6H12N2O4	diethyl 1,1-hydrazinedicarboxylate	5311-96-6	533.65	47.127	2
8246	C6H12Br2	1,2-dibromo-2,3-dimethylbutane	29916-45-8	486.03	42.543	2	8358	C6H12N2O4	diethyl 1,2-hydrazinedicarboxylate	4114-28-7	523.15	46.113	2
8247	C6H12Br2	1,4-dibromo-2,3-dimethylbutane	54462-70-3	486.03	42.543	2	8359	C6H12N2O4	1,6-dinitrohexane	4286-47-9	533.65	47.127	2
8248	C6H12Br2	2,3-dibromo-2,3-dimethylbutane	594-81-0	486.03	42.543	2	8360	C6H12N2O4	ethyl isopropylnitrocarbamate	62261-05-6	533.65	47.127	2
8249	C6H12Br2	1,2-dibromohexane	624-20-4	486.03	42.543	2	8361	C6H12N2O4	ethyl nitropropylcarbamate	13855-77-1	533.65	47.127	2
8250	C6H12Br2	1,4-dibromohexane	25118-28-9	486.03	42.543	2	8362	C6H12N2O4	2,3-dimethyl-2,3-dinitrobutane	3964-18-9	533.65	47.127	2
8251	C6H12Br2	1,5-dibromohexane	627-96-3	486.03	42.543	2	8363	C6H12N2O4	ethylenediamine-N,N'-diacetic acid	5657-17-0	533.65	47.127	2
8252	C6H12Br2	1,6-dibromohexane	629-03-8	518.65	45.679	1,2	8364	C6H12N2O4	nitroso-dihydroxypropyloxopropylamine	---	544.15	48.142	1,2
8253	C6H12Br2	2,3-dibromohexane	6423-02-5	469.15	45.247	1,2	8371	C6H12N2O4Se2	3,3'-diselenodialanine	1464-43-3	381.40	32.616	2
8254	C6H12Br2	2,5-dibromohexane, (R*,R**)-(±)-	54462-68-9	486.03	42.543	2	8372	C6H12N2O4Se2	meso-3,3'-diselenodialanine	13900-89-5	356.15	30.254	1,2
8255	C6H12Br2	1,2-dibromo-3,3-dimethylbutane	640-21-1	486.03	42.543	2	8373	C6H12N2O4Se2	selenocystine	2897-21-4	406.65	34.992	1,2
8256	C6H12Br2	3,4-dibromohexane	16230-28-7	486.03	42.543	2	8374	C6H12N2O4Se2	D-selenocystine	26932-45-6	381.40	32.616	2
8257	C6H12Br2	2,5-dibromohexane	24774-58-1	481.15	42.076	1,2	8383	C6H12N3OP	1-aziridinyl phosphine oxide; (tris)	545-55-1	363.65	30.954	1,2
8258	C6H12Br2	1,5-dibromo-3-methylpentane	4457-72-1	486.03	42.543	2	8389	C6H12N5O2PS2	azidithion	78-57-9	362.65	30.861	1,2
8261	C6H12Br3O4P	tris(2-bromoethyl)phosphate	27568-90-7	327.45	27.587	1,2	8390	C6H12N6	2,4,6-tris(methylamino)-S-triazine	2827-46-5	375.65	32.077	1,2
8262	C6H12ClF	1-chloro-6-fluorohexane	1550-09-0	441.15	38.260	1,2	8394	C6H12O	butyl vinyl ether	111-34-2	366.97	32.896	1,2
8263	C6H12ClN	1-chloro-N,N,2-trimethyl-1-propenylamine	26189-59-3	402.65	34.615	1,2	8395	C6H12O	sec-butyl vinyl ether	1888-85-3	354.15	29.012	1,2
8269	C6H12ClN3O3	3-(2-chloroethyl)-1-(3-hydroxypropyl)-3-nitr*	60784-47-6	387.90	33.227	1,2	8396	C6H12O	tert-butyl vinyl ether	926-02-3	348.15	27.382	1,2
8270	C6H12ClN3O3	1-nitroso-1-hydroxypropyl-3-chloroethylurea	96806-35-8	387.90	33.227	2	8397	C6H12O	isobutyl vinyl ether	109-53-5	356.15	29.585	1,2
8273	C6H12Cl2	1,1-dichlorohexane	62017-16-7	437.15	38.437	1,2	8398	C6H12O	3-(1-methylethoxy)-1-propene	6140-80-3	356.65	29.731	1,2
8274	C6H12Cl2	1,2-dichlorohexane	2162-92-7	446.15	38.735	1,2	8399	C6H12O	3-propoxy-1-propene	1471-03-0	364.15	32.051	1,2
8275	C6H12Cl2	1,6-dichlorohexane	2163-00-0	477.15	41.693	1,2	8400	C6H12O	cyclohexanol	108-93-0	434.00	40.259	1,2
8276	C6H12Cl2	2,2-dichlorohexane	42131-89-5	444.73	38.600	2	8401	C6H12O	hexanal	66-25-1	401.45	36.542	1,2
8277	C6H12Cl2	2,3-dichlorohexane	54305-87-2	436.65	38.822	1,2	8402	C6H12O	2-methylpentanal	123-15-9	390.15	34.976	1,2
8278	C6H12Cl2	2,5-dichlorohexane, (R*,R*)-(±)-	41761-12-0	450.15	39.116	1,2	8403	C6H12O	3-methylpentanal	15877-57-3	395.15	35.445	1,2
8279	C6H12Cl2	1,1-dichloro-3,3-dimethylbutane	6130-96-7	421.10	33.968	1,2	8404	C6H12O	4-methylpentanal	1119-16-0	395.15	35.445	1,2
8280	C6H12Cl2	hexane, 2,5-dichloro-, (R*,S*)-	41761-11-9	444.73	38.600	2	8405	C6H12O	2-ethylbutanal	97-96-1	389.95	34.957	1,2
8281	C6H12Cl2	2,2-dichloro-3,3-dimethylbutane	594-84-3	444.73	38.600	2	8406	C6H12O	2,2-dimethylbutanal	2094-75-9	377.15	33.102	1,2
8282	C6H12Cl2N2O	2,2'-dichloro-N-nitrosodipropylamine	69112-96-5	440.15	38.165	2	8407	C6H12O	2,3-dimethylbutanal	2109-98-0	386.15	34.280	1,2
8283	C6H12Cl2O	bis(2-chloropropyl)ether	54460-96-7	461.15	40.164	1,2	8408	C6H12O	3,3-dimethylbutanal	2987-16-8	377.15	33.102	1,2
8284	C6H12Cl2O	bis(3-chloropropyl) ether	629-36-7	489.15	42.843	1,2	8409	C6H12O	2-hexanone	591-78-6	400.85	36.624	1,2
8285	C6H12Cl2O	2,2'-dichlorodiisopropyl ether	108-60-1	460.15	40.069	1,2	8410	C6H12O	3-hexanone	589-38-8	396.65	35.316	1,2
8286	C6H12Cl2O2	1,1-bis(2-chloroethoxy)ethane	14689-97-5	468.15	40.833	1,2	8411	C6H12O	3-methyl-2-pentanone	565-61-7	390.55	33.939	1,2
8287	C6H12Cl2O2	1,2-bis(2-chloroethoxy)ethane	112-26-5	505.15	44.379	1,2	8412	C6H12O	4-methyl-2-pentanone	108-10-1	389.65	35.816	1,2
8288	C6H12Cl2O2	1,1-dichloro-2,2-diethoxyethane	619-33-0	456.65	39.735	1,2	8413	C6H12O	ethyl isopropyl ketone	565-69-5	386.55	33.843	1,2
8289	C6H12Cl2O2	1,3-dichloro-2-(ethoxymethoxy)propane	89583-61-9	476.65	41.645	2	8414	C6H12O	3,3-dimethyl-2-butanone	75-97-8	379.45	32.071	1,2
8291	C6H12Cl2S2	sesquimustard	3563-36-8	330.95	27.912	1,2	8415	C6H12O	3-methyl-2-pentanone, (±)	55156-16-6	390.65	34.863	1,2
8294	C6H12Cl3O3PS	phosphorothioic acid, O,O,O-tris(2-chloroeth*	10235-09-3	414.25	35.710	1,2	8416	C6H12O	2-ethyltetrahydrofuran	1003-30-1	382.15	33.141	1,2
8295	C6H12Cl3O4P	tris(2-chloroethyl) phosphate	115-96-8	603.15	53.878	1,2	8417	C6H12O	3-ethyltetrahydrofuran	93716-28-0	389.15	33.777	1,2
8296	C6H12Cl3O4P	ethyltrichlorphon	993-86-2	603.15	53.878	2	8418	C6H12O	2,2-dimethyltetrahydrofuran	1003-17-4	365.35	31.357	1,2
8298	C6H12F2	1,1-difluorohexane	62127-41-7	368.15	31.948	1,2	8419	C6H12O	2,3-dimethyltetrahydrofuran	---	370.00	31.666	2
8302	C6H12F3NOSi	N-methyl-N-(trimethylsilyl)trifluoroacetamide	24589-78-4	404.15	34.756	1,2	8420	C6H12O	2,4-dimethyltetrahydrofuran	64265-26-5	370.75	31.734	1,2
8303	C6H12F3O3P	phosphorous acid tris(2-fluoroethylester)	63980-61-0	476.65	41.645	1,2	8421	C6H12O	2,5-dimethyltetrahydrofuran	1003-38-9	365.65	31.276	1,2
8305	C6H12I2	1,1-diiodohexane	66225-50-1	522.52	46.140	2	8422	C6H12O	3,3-dimethyltetrahydrofuran	15833-75-7	372.15	31.970	1,2
8306	C6H12I2	1,6-diiodohexane	629-09-4	522.52	46.229	2	8423	C6H12O	3,4-dimethyltetrahydrofuran	32970-37-9	381.65	32.713	1,2
8307	C6H12I2O4	1,6-dideoxy-1,6-diiodo-D-mannitol	15430-91-8	364.06	30.993	1,2	8424	C6H12O	cyclopentanemethanol	3637-61-4	436.15	37.785	1,2
8313	C6H12NO3PS2	(diethoxyphosphinylimino)-1,3-dithietane	21548-32-3	330.40	27.861	1,2	8425	C6H12O	1-hexen-3-ol	4798-44-1	407.15	35.039	1,2
8315	C6H12N2	triethylenediamine	280-57-9	447.15	43.451	1,2	8426	C6H12O	cis-2-hexen-1-ol	928-94-9	430.15	37.215	1,2
8316	C6H12N2	acetone (1-methylethylidene)hydrazone	627-70-3	406.15	34.945	1,2	8427	C6H12O	trans-2-hexen-1-ol	928-95-0	430.15	37.215	1,2
8317	C6H12N2	(butylamino)acetonitrile	3010-04-6	432.15	37.405	2	8428	C6H12O	cis-3-hexen-1-ol	928-96-1	429.65	37.168	1,2
8318	C6H12N2	(diethylamino)acetonitrile	3010-02-4	443.15	38.450	1,2	8429	C6H12O	trans-4-hexen-1-ol	928-92-7	432.15	37.405	1,2
8319	C6H12N2	6-aminohexanenitrile	2432-74-8	432.15	37.405	2	8430	C6H12O	4-hexen-2-ol	52387-50-5	410.65	35.370	1,2
8320	C6H12N2	1,1-diallylhydrazine	5164-11-4	432.15	37.405	2	8431	C6H12O	5-hexen-2-ol	626-94-8	412.15	35.512	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
8432	C6H12O	2-methyl-2-penten-1-ol	1610-29-3	440.65	38.212	1,2	8513	C6H12O2	methyl 2-methylbutyrate	868-57-5	388.55	33.806	1,2
8433	C6H12O	2-methyl-3-penten-2-ol	63468-05-3	385.15	32.968	1,2	8514	C6H12O2	(±)-3-methylvaleric acid	105-43-1	469.10	40.923	1,2
8434	C6H12O	2-methyl-4-penten-2-ol	624-97-5	392.65	33.673	1,2	8515	C6H12O2	2-methylvaleric acid	97-61-0	435.40	36.568	1,2
8435	C6H12O	3-methyl-3-penten-2-ol	2747-53-7	413.15	35.606	1,2	8516	C6H12O2	(2S,3S)-(-)-3-propyloxiranemethanol	89321-71-1	421.64	36.409	2
8436	C6H12O	3-methyl-4-penten-2-ol	1569-59-1	398.65	34.238	1,2	8517	C6H12O2	(2R,3R)-(+)-3-propyloxiranemethanol	92418-71-8	421.64	36.409	2
8437	C6H12O	4-methyl-2-penten-1-ol	5362-55-0	432.15	37.405	1,2	8518	C6H12O2	cis-1,3-cyclohexandiol	823-18-7	421.64	36.409	2
8438	C6H12O	4-methyl-3-penten-2-ol	4325-82-0	407.15	35.039	1,2	8519	C6H12O2	1,1-dimethoxy-2-butene	21962-24-3	421.64	36.409	2
8439	C6H12O	4-methyl-3-pentenol	763-89-3	430.15	37.215	1,2	8520	C6H12O2	dimethyldioxane	25136-55-4	390.65	33.485	1,2
8440	C6H12O	4-methyl-4-penten-2-ol	2004-67-3	402.15	34.568	1,2	8521	C6H12O2	4,4-dimethyl-1,3-dioxane	766-15-4	406.33	34.962	1,2
8441	C6H12O	1-methylcyclopentanol	1462-03-9	409.15	35.228	1,2	8522	C6H12O2	2,6-dimethyl-1,4-dioxane	10138-17-7	421.64	36.409	2
8442	C6H12O	3-methylcyclopentanol	18729-48-1	421.65	36.410	1,2	8523	C6H12O2	propylene glycol, allyl ether	1331-17-5	421.64	36.409	2
8443	C6H12O	cis-2-methylcyclopentanol	25144-05-2	421.65	36.410	1,2	8524	C6H12O2	tetramethyl-1,2-dioxetane	35856-82-7	421.64	36.409	2
8444	C6H12O	trans-2-methylcyclopentanol	25144-04-1	423.65	36.599	1,2	8525	C6H12O2S	2,4-dimethylsulfolane	1003-78-7	554.15	49.111	1,2
8445	C6H12O	oxepane	592-90-5	392.15	33.626	1,2	8526	C6H12O2S	butyl thioglycolate	10047-28-6	554.15	49.111	2
8446	C6H12O	tetramethyloxirane	5076-20-0	363.55	30.945	1,2	8527	C6H12O2S	ethyl 3-(methylthio)propionate	13327-56-5	554.15	49.111	2
8447	C6H12O	(R)-(+)-1,2-epoxyhexane	104898-06-8	392.15	33.626	1,2	8531	C6H12O3	2-ethoxyethyl acetate	111-15-9	429.45	40.384	1,2
8448	C6H12O	1,2-epoxyhexane	1436-34-6	392.15	33.626	1,2	8532	C6H12O3	hydroxycaproic acid	1191-25-9	576.00	73.487	1,2
8449	C6H12O	5-hexen-1-ol	821-41-0	420.60	36.311	1,2	8533	C6H12O3	paraldehyde	123-63-7	397.25	37.720	1,2
8450	C6H12O	trans-3-hexen-1-ol	928-97-2	394.21	33.820	2	8534	C6H12O3	sec-butyl glycolate	37160-61-5	450.65	39.163	1,2
8451	C6H12O	3-methyl-1-penten-3-ol	918-85-4	390.65	33.485	1,2	8535	C6H12O3	2,5-anhydro-3,4-dideoxyhexitol	104-80-3	538.15	47.561	1,2
8452	C6H12O	3-methyltetrahydropyran	26093-63-0	394.21	33.820	2	8536	C6H12O3	2,2-dimethyl-1,3-dioxolane-4-methanol	100-79-8	450.76	39.174	2
8453	C6H12O	2,2-dimethyl-3-butanone	75-97-8	394.21	36.063	2	8537	C6H12O3	ethyl ethoxyacetate	817-95-8	431.15	37.310	1,2
8454	C6H12O	2,3-epoxy-2-methylpentane	1192-22-9	323.15	27.190	1,2	8538	C6H12O3	ethyl 2-hydroxybutanoate, (±)	68057-83-0	440.15	38.165	1,2
8455	C6H12O	tetrahydrodimethylfuran	1320-94-1	394.21	33.820	2	8539	C6H12O3	ethyl 3-hydroxybutanoate, (±)	35608-64-1	458.15	39.878	1,2
8456	C6H12OS	S-tert-butyl thioacetate	999-90-6	407.10	35.035	1,2	8540	C6H12O3	ethyl 2-hydroxy-2-methylpropanoate	80-55-7	423.15	36.552	1,2
8458	C6H12OSi	trimethyl(propargyloxy)silane	5582-62-7	383.55	32.818	1,2	8541	C6H12O3	2-hydroxyhexanoic acid, (±)	636-36-2	543.15	48.045	1,2
8459	C6H12OSi	3-(trimethylsilyl)propargyl alcohol	5272-36-6	443.15	38.450	1,2	8542	C6H12O3	isopropyl 3-hydroxypropanoate	84098-45-3	450.76	39.174	2
8460	C6H12O2	hexanoic acid	142-62-1	478.85	52.122	1,2	8543	C6H12O3	isopropyl lactate	617-51-6	440.15	38.165	1,2
8461	C6H12O2	2-ethyl butyric acid	88-09-5	466.95	48.277	1,2	8544	C6H12O3	tetrahydro-2,5-dimethoxyfuran	696-59-3	418.85	36.145	1,2
8462	C6H12O2	tert-butylacetic acid	1070-83-3	463.15	40.355	1,2	8545	C6H12O3	3-allyloxy-1,2-propanediol	123-34-2	450.76	39.174	2
8463	C6H12O2	2,2-dimethylbutanoic acid	595-37-9	459.15	44.449	1,2	8546	C6H12O3	2-butoxyacetic acid	2516-93-0	381.15	32.593	1,2
8464	C6H12O2	2,3-dimethylbutanoic acid	14287-61-7	464.85	40.517	1,2	8547	C6H12O3	tert-butyl peroxyacetate	107-71-1	450.76	39.174	2
8465	C6H12O2	2-methylpentanoic acid, (±)	22160-39-0	468.75	40.890	1,2	8548	C6H12O3	di(ethylene glycol) vinyl ether	929-37-3	469.15	40.928	1,2
8466	C6H12O2	3-methylpentanoic acid, (±)	22160-40-3	470.65	41.071	1,2	8549	C6H12O3	3,3-dimethoxy-2-butanone	21983-72-2	418.65	36.126	1,2
8467	C6H12O2	4-methylpentanoic acid	646-07-1	473.65	41.358	1,2	8550	C6H12O3	(R)-(-)-2,2-dimethyl-1,3-dioxolane-4-methanol	14347-78-5	450.76	39.174	2
8468	C6H12O2	pentyl formate	638-49-3	406.60	39.436	1,2	8551	C6H12O3	(S)-(+)-2,2-dimethyl-1,3-dioxolane-4-methanol	22323-82-6	450.76	39.174	2
8469	C6H12O2	1-methylbutyl formate	58368-66-4	393.76	34.710	2	8552	C6H12O3	ethyl (R)-(-)-3-hydroxybutyrate	24915-95-5	450.76	39.174	2
8470	C6H12O2	2-methylbutyl formate	35073-27-9	393.76	34.454	2	8553	C6H12O3	ethyl 3-hydroxybutyrate	5405-41-4	450.65	39.163	1,2
8471	C6H12O2	isopentyl formate	110-45-2	397.25	35.128	1,2	8554	C6H12O3	ethyl (S)-(+)-3-hydroxybutyrate	56816-01-4	454.15	39.497	1,2
8472	C6H12O2	1-ethylpropyl formate	58368-67-5	393.76	34.513	2	8555	C6H12O3	2-ethyl-2-hydroxybutyric acid	3639-21-2	450.76	39.174	2
8473	C6H12O2	1,1-dimethylpropyl formate	757-88-0	385.65	33.488	1,2	8556	C6H12O3	DL-a-hydroxycaproic acid	6064-63-7	450.76	39.174	2
8474	C6H12O2	1,2-dimethylpropyl formate	66794-46-5	393.32	34.794	2	8557	C6H12O3	DL-a-hydroxyisocaproic acid	10303-64-7	450.76	39.174	2
8475	C6H12O2	2,2-dimethylpropyl formate	23361-67-3	390.97	33.771	2	8558	C6H12O3	L-a-hydroxyisocaproic acid	13748-90-8	450.76	39.174	2
8476	C6H12O2	butyl acetate	123-86-4	399.15	36.511	1,2	8559	C6H12O3	5-hydroxymethyl-5-methyl-1,3-dioxane	1121-97-7	450.76	39.174	2
8477	C6H12O2	isobutyl acetate	110-19-0	389.80	35.877	1,2	8560	C6H12O3	(-)-isopropyl l-lactate	63697-00-7	440.15	38.165	1,2
8478	C6H12O2	sec-butyl acetate	105-46-4	385.15	34.683	1,2	8561	C6H12O3	methyl 2,2-dimethyl-3-hydroxypropionate	14002-80-3	450.65	39.163	1,2
8479	C6H12O2	tert-butyl acetate	540-88-5	369.15	32.577	1,2	8562	C6H12O3	methyl 4-methoxybutyrate	29006-01-7	436.15	37.785	1,2
8480	C6H12O2	propyl propanoate	106-36-5	395.65	35.656	1,2	8563	C6H12O3	3-oxobutyraldehyde dimethylacetal	5436-21-5	451.15	39.211	1,2
8481	C6H12O2	isopropyl propanoate	637-78-5	383.15	33.995	1,2	8564	C6H12O3	propylene glycol monomethyl ether acetate	108-65-6	418.60	36.121	1,2
8482	C6H12O2	ethyl butanoate	105-54-4	394.65	35.109	1,2	8565	C6H12O3	ethyl 3-methoxypropionate	10606-42-5	450.76	39.174	2
8483	C6H12O2	ethyl isobutanoate	97-62-1	383.00	34.238	1,2	8566	C6H12O3	glycerol monoallyl ether	25136-53-2	450.76	39.174	2
8484	C6H12O2	cyclohexyl peroxide	766-07-4	490.00	49.744	1,2	8567	C6H12O3	trans-2-hexene ozonide	---	450.76	39.174	2
8485	C6H12O2	diacetone alcohol	123-42-2	441.00	44.570	1,2	8568	C6H12O3	2-methoxy-1-propyl acetate	70657-70-4	450.76	39.174	2
8486	C6H12O2	cis-1,2-cyclohexanediol	1792-81-0	421.64	36.409	2	8569	C6H12O3	peroxyhexanoic acid	5106-46-7	450.76	39.174	2
8487	C6H12O2	trans-1,2-cyclohexanediol, (±)	54383-22-1	421.64	36.409	2	8570	C6H12O4	2-[2-(acetyloxy)ethoxy]ethanol	2093-20-1	439.15	38.070	2
8488	C6H12O2	trans-1,4-cyclohexanediol	6995-79-5	421.64	36.409	2	8571	C6H12O4	digitoxose	527-52-6	439.15	38.070	2
8489	C6H12O2	1,1-diethoxyethene	2678-54-8	421.64	36.409	2	8572	C6H12O4	ethyl 2,3-dihydroxy-2-methylpropanoate	67535-07-3	439.15	38.070	2
8490	C6H12O2	2,4-dimethyl-1,3-dioxane	766-20-1	389.65	33.391	1,2	8573	C6H12O4	propyl 2,3-dihydroxypropanoate	116435-95-1	439.15	38.070	2
8491	C6H12O2	4-hydroxy-3-hexanone	4984-85-4	439.15	38.070	1,2	8574	C6H12O4	methyl 3,3-dimethoxypropionate	7424-91-1	439.15	38.070	1,2
8492	C6H12O2	5-hydroxy-2-hexanone	56745-61-0	421.64	36.409	2	8575	C6H12O4	3,3,6,6-tetramethyl-1,2,4,5-tetraoxane	1073-91-2	439.15	38.070	2
8493	C6H12O2	5-hydroxy-3-hexanone	33683-44-2	421.64	36.409	2	8577	C6H12O4Si	dimethyldiacetoxysilane	2182-66-3	438.15	37.975	1,2
8494	C6H12O2	6-hydroxy-2-hexanone	21856-89-3	500.15	43.899	1,2	8589	C6H12O6	D-altrose	1990-29-0	377.15	32.218	2
8495	C6H12O2	3-hydroxy-2-methylpentanal	615-30-5	421.64	36.409	2	8591	C6H12O6	beta-D-fructose	53188-23-1	377.15	32.218	2
8496	C6H12O2	isopropyl glycidyl ether	4016-14-2	410.15	35.323	1,2	8595	C6H12O6	D-gulose	4205-23-6	377.15	32.218	2
8497	C6H12O2	methyl 2,2-dimethylpropanoate	598-98-1	374.25	30.576	1,2	8602	C6H12O6	L(-)-altrose	1949-88-8	377.15	32.218	2
8498	C6H12O2	methyl isopentanoate	556-24-1	389.65	34.162	1,2	8605	C6H12O6	1,3-dihydroxyacetone dimer	62147-49-3	377.15	32.218	2
8499	C6H12O2	methyl pentanoate	624-24-8	400.55	38.011	1,2	8606	C6H12O6	d(-)-fructose	57-48-7	377.15	32.218	1,2
8500	C6H12O2	tetrahydro-2-(methoxymethyl)furan	19354-27-9	413.15	35.606	1,2	8607	C6H12O6	fructose	7660-25-5	377.15	32.218	2
8501	C6H12O2	tetrahydro-2H-pyran-2-methanol	100-72-1	458.15	39.878	1,2	8609	C6H12O6	glucose	50-99-7	377.15	32.218	2
8502	C6H12O2	1,4-butanediol vinyl ether	17832-28-9	421.64	36.409	2	8612	C6H12O6	L(+)-gulose	6027-89-0	377.15	32.218	2
8503	C6H12O2	(1R,2R)-trans-1,2-cyclohexanediol	1072-86-2	421.64	36.409	2	8618	C6H12O6S2	cis-1,4-dimethane sulfonoxy-2-butene	2303-47-1	407.65	35.087	2
8504	C6H12O2	trans-1,2-cyclohexanediol	1460-57-7	421.64	36.409	2	8619	C6H12O6S2	trans-1,4-dimethane sulfonoxy-2-butene	1953-56-6	407.65	35.087	1,2
8505	C6H12O2	1,3-cyclohexanediol; (cis+trans)	504-01-8	519.65	45.775	1,2	8621	C6H12S	thiacycloheptane	4753-80-4	446.70	34.915	1,2
8506	C6H12O2	1,4-cyclohexanediol	556-48-9	421.64	36.409	2	8622	C6H12S	2-ethylthiacyclopentane	1551-32-2	430.15	37.109	1,2
8507	C6H12O2	(1S,2S)-trans-1,2-cyclohexanediol	57794-08-8	421.64	36.409	2	8623	C6H12S	3-ethylthiacyclopentane	62184-67-2	438.15	37.833	1,2
8508	C6H12O2	1,2-cyclohexanediol	931-17-9	421.64	36.409	2	8624	C6H12S	2,2-dimethylthiacyclopentane	5161-75-1	400.03	34.116	2
8509	C6H12O2	2-ethoxytetrahydrofuran	13436-46-9	444.15	38.545	1,2	8625	C6H12S	2,cis-3-dimethylthiacyclopentane	5161-77-3	395.12	33.560	2
8510	C6H12O2	2-ethyl-2-methyl-1,3-dioxolane	126-39-6	390.20	33.443	1,2	8626	C6H12S	2,trans-3-dimethylthiacyclopentane	5161-78-4	395.12	33.560	2
8511	C6H12O2	3-ethyl-3-oxetanemethanol	3047-32-3	421.64	36.409	2	8627	C6H12S	2,cis-4-dimethylthiacyclopentane	5161-79-5	395.12	33.560	2
8512	C6H12O2	2-methoxytetrahydropyran	6581-66-4	401.65	34.521	1,2	8628	C6H12S	2,trans-4-dimethylthiacyclopentane	5161-80-8	395.12	33.560	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
8629	C6H12S	2,cis-5-dimethylthiacyclopentane	5161-13-7	415.68	35.394	1,2	8719	C6H13F	2-fluoro-2,3-dimethylbutane	354-09-6	340.00	28.542	2
8630	C6H12S	2,trans-5-dimethylthiacyclopentane	5161-14-8	415.15	35.347	1,2	8720	C6H13F	2-fluoro-3,3-dimethylbutane	92089-78-6	343.15	28.567	1,2
8631	C6H12S	3,3-dimethylthiacyclopentane	5161-76-2	400.03	34.116	2	8721	C6H13F	1-fluoro-2-ethylbutane	---	332.28	27.618	2
8632	C6H12S	3,cis-4-dimethylthiacyclopentane	5161-11-5	395.12	33.560	2	8724	C6H13I	1-iodohexane	638-45-9	454.48	45.862	1,2
8633	C6H12S	3,trans-4-dimethylthiacyclopentane	5161-12-6	395.12	33.560	2	8725	C6H13I	2-iodohexane	59654-13-6	442.15	44.118	1,2
8634	C6H12S	2-methylthiacyclohexane	5161-16-0	426.19	36.493	1,2	8726	C6H13I	3-iodohexane	31294-91-4	441.15	44.014	1,2
8635	C6H12S	3-methylthiacyclohexane	5258-50-4	431.19	36.942	1,2	8727	C6H13I	1-iodo-2-methylpentane	31294-94-7	441.15	44.014	1,2
8636	C6H12S	4-methylthiacyclohexane	5161-17-1	431.79	36.996	1,2	8728	C6H13I	1-iodo-3-methylpentane	24346-53-0	447.15	44.638	1,2
8637	C6H12S	cyclohexanethiol	1569-69-3	432.05	37.396	1,2	8729	C6H13I	1-iodo-4-methylpentane	6196-80-1	446.25	44.544	1,2
8638	C6H12S	cyclopentyl methyl sulfide	7133-36-0	431.65	37.358	1,2	8730	C6H13I	2-iodo-2-methylpentane	31294-95-8	426.59	41.608	2
8640	C6H12S3	thioacetaldehyde trimer	2765-04-0	519.65	45.775	1,2	8731	C6H13I	2-iodo-3-methylpentane	24319-07-1	428.94	42.317	2
8641	C6H12Si	dimethyldivinylsilane	10519-87-6	353.65	30.021	1,2	8732	C6H13I	2-iodo-4-methylpentane	31294-96-9	430.15	42.441	1,2
8642	C6H12Si	propargyltrimethylsilane	13361-64-3	365.15	31.094	1,2	8733	C6H13I	3-iodo-2-methylpentane	31294-97-0	428.94	42.317	2
8643	C6H12Si	1-(trimethylsilyl)propyne	6224-91-5	372.55	31.787	1,2	8734	C6H13I	3-iodo-3-methylpentane	24319-05-2	426.59	41.608	2
8644	C6H12Tl2	bis(dimethyl thallium)acetylide	---	425.95	36.817	1,2	8735	C6H13I	1-iodo-2,2-dimethylbutane	31294-98-1	429.38	42.792	2
8647	C6H13Br	1-bromohexane	111-25-1	428.45	38.550	1,2	8736	C6H13I	1-iodo-2,3-dimethylbutane	31295-00-8	438.15	42.784	1,2
8648	C6H13Br	2-bromohexane	3377-86-4	417.05	37.131	1,2	8737	C6H13I	1-iodo-3,3-dimethylbutane	15672-88-5	436.15	43.058	1,2
8649	C6H13Br	3-bromohexane	3377-87-5	414.45	36.889	1,2	8738	C6H13I	2-iodo-2,3-dimethylbutane	594-59-2	426.59	41.608	2
8650	C6H13Br	1-bromo-2-methylpentane	25346-33-2	417.15	37.141	1,2	8739	C6H13I	2-iodo-3,3-dimethylbutane	24556-56-7	431.15	41.656	1,2
8651	C6H13Br	1-bromo-3-methylpentane	51116-73-5	421.15	37.514	1,2	8740	C6H13I	1-iodo-2-ethylbutane	---	439.15	42.462	1,2
8652	C6H13Br	1-bromo-4-methylpentane	626-88-0	420.15	37.420	1,2	8742	C6H13N	cyclohexylamine	108-91-8	407.65	36.167	1,2
8653	C6H13Br	2-bromo-2-methylpentane	4283-80-1	415.65	33.718	1,2	8743	C6H13N	1-methylcyclopentanamine	40571-45-7	394.15	33.814	1,2
8654	C6H13Br	2-bromo-3-methylpentane	62168-41-6	401.96	35.399	2	8744	C6H13N	2-methylcyclopentanamine	41223-14-7	396.15	34.003	1,2
8655	C6H13Br	2-bromo-4-methylpentane	30310-22-6	404.15	35.601	1,2	8745	C6H13N	hexamethyleneimine	111-49-9	404.85	38.282	1,2
8656	C6H13Br	3-bromo-2-methylpentane	4283-83-4	401.96	35.399	2	8746	C6H13N	1,2-dimethylpyrrolidine	765-48-0	389.46	33.374	2
8657	C6H13Br	3-bromo-3-methylpentane	25346-31-0	403.15	34.588	1,2	8747	C6H13N	2,2-dimethylpyrrolidine	35018-15-6	379.15	32.405	1,2
8658	C6H13Br	1-bromo-2,2-dimethylbutane	62168-42-7	410.00	36.475	2	8748	C6H13N	2,4-dimethylpyrrolidine	13603-04-8	389.15	33.344	1,2
8659	C6H13Br	1-bromo-2,3-dimethylbutane	30540-31-9	413.15	36.066	1,2	8749	C6H13N	cis-2,5-dimethylpyrrolidine	39713-71-8	379.65	32.452	1,2
8660	C6H13Br	1-bromo-3,3-dimethylbutane	1647-23-0	410.15	36.155	1,2	8750	C6H13N	1-ethylpyrrolidine	7335-06-0	377.15	32.218	1,2
8661	C6H13Br	2-bromo-2,3-dimethylbutane	594-52-5	406.15	34.383	1,2	8751	C6H13N	N-isopropyl-2-propen-1-amine	35000-22-7	369.65	31.515	1,2
8662	C6H13Br	2-bromo-3,3-dimethylbutane	26356-06-9	405.15	35.019	1,2	8752	C6H13N	N-propyl-2-propen-1-amine	5666-21-7	385.15	32.968	1,2
8663	C6H13Br	1-bromo-2-ethylbutane	3814-34-4	416.45	36.043	1,2	8753	C6H13N	1-methylpiperidine	626-67-5	380.15	32.499	1,2
8664	C6H13BrHg	n-hexylmercuric bromide	18431-36-2	479.15	41.884	1,2	8754	C6H13N	2-methylpiperidine, (±)	3000-79-1	391.15	33.532	1,2
8666	C6H13BrO2	2-bromo-1,1-diethoxyethane	2032-35-1	443.15	38.450	1,2	8755	C6H13N	3-methylpiperidine, (±)	53152-98-0	398.65	34.238	1,2
8669	C6H13Cl	1-chlorohexane	544-10-5	408.24	35.590	1,2	8756	C6H13N	4-methylpiperidine	626-58-4	403.15	34.662	1,2
8670	C6H13Cl	2-chlorohexane	638-28-8	397.15	34.266	1,2	8757	C6H13N	2,5-dimethylpyrrolidine, cis and trans	3378-71-0	384.15	32.874	1,2
8671	C6H13Cl	3-chlorohexane	2346-81-8	396.15	34.175	1,2	8758	C6H13N	N-ethyl-2-methylallylamine	18328-90-0	377.90	32.288	1,2
8672	C6H13Cl	1-chloro-2-methylpentane	14753-05-0	393.15	33.904	1,2	8759	C6H13N	2-methylpiperidine	109-05-7	392.15	33.626	1,2
8673	C6H13Cl	1-chloro-3-methylpentane	62016-93-7	402.15	34.718	1,2	8760	C6H13N	(S)-(+)-2-methylpiperidine	3197-42-0	392.15	33.626	1,2
8674	C6H13Cl	1-chloro-4-methylpentane	62016-94-8	398.15	34.356	1,2	8761	C6H13N	3-methylpiperidine	626-56-2	397.65	34.144	1,2
8675	C6H13Cl	2-chloro-2-methylpentane	4325-48-8	384.65	32.518	1,2	8762	C6H13N	N,N,2-trimethylpropenylamine	6000-82-4	389.46	33.374	2
8676	C6H13Cl	2-chloro-3-methylpentane	24319-09-3	380.00	32.424	2	8763	C6H13NO	trans-2-aminocyclohexanol, (±)	33092-82-9	492.15	43.130	1,2
8677	C6H13Cl	2-chloro-4-methylpentane	25346-32-1	386.15	32.975	1,2	8764	C6H13NO	4-amino-4-methyl-2-pentanone	625-04-7	467.43	40.764	2
8678	C6H13Cl	3-chloro-2-methylpentane	38384-05-3	385.00	32.872	2	8765	C6H13NO	N-butylacetamide	1119-49-9	502.15	44.091	1,2
8679	C6H13Cl	3-chloro-3-methylpentane	918-84-3	389.15	32.918	1,2	8766	C6H13NO	N,N-diethylacetamide	685-91-6	458.65	39.926	1,2
8680	C6H13Cl	1-chloro-2-ethylbutane	4737-41-1	399.15	34.447	1,2	8767	C6H13NO	N,N-dimethylbutanamide	760-79-2	459.15	39.973	1,2
8681	C6H13Cl	1-chloro-2,2-dimethylbutane	6366-35-4	390.15	33.006	1,2	8768	C6H13NO	2,6-dimethylmorpholine	141-91-3	419.75	36.230	1,2
8682	C6H13Cl	1-chloro-2,3-dimethylbutane	600-06-6	395.15	33.781	1,2	8769	C6H13NO	N-ethylmorpholine	100-74-3	411.65	35.464	1,2
8683	C6H13Cl	1-chloro-3,3-dimethylbutane	2855-08-5	390.15	33.006	1,2	8770	C6H13NO	hexanamide	628-02-4	528.15	46.595	1,2
8684	C6H13Cl	2-chloro-2,3-dimethylbutane	594-57-0	385.15	32.279	1,2	8771	C6H13NO	1-methyl-3-piperidinol	3554-74-3	467.43	40.764	2
8685	C6H13Cl	2-chloro-3,3-dimethylbutane	5750-00-5	384.15	32.191	1,2	8772	C6H13NO	1-methyl-4-piperidinol	106-52-5	473.15	41.310	1,2
8686	C6H13ClO	1-chloro-2,3-dimethyl-2-butanol	66235-62-9	436.15	37.785	1,2	8773	C6H13NO	2-piperidinemethanol	3433-37-2	467.43	40.764	2
8687	C6H13ClO	1-chloro-3,3-dimethyl-2-butanol	36402-31-0	430.65	37.263	1,2	8774	C6H13NO	3-piperidinemethanol	4606-65-9	467.43	40.764	2
8688	C6H13ClO	1-(2-chloroethoxy)butane	10503-96-5	427.15	36.931	2	8775	C6H13NO	N-propylpropanamide	3217-86-5	488.15	42.747	1,2
8689	C6H13ClO	6-chloro-1-hexanol	2009-83-8	431.32	37.326	2	8776	C6H13NO	1-pyrrolidineethanol	2955-88-6	460.15	40.069	1,2
8690	C6H13ClO	1-chloro-2-hexanol	52802-07-0	431.32	37.326	2	8777	C6H13NO	trans-4-aminocyclohexanol	27489-62-9	467.43	40.764	2
8691	C6H13ClO	1-chloro-3-hexanol	52418-81-2	431.32	37.326	2	8778	C6H13NO	1-amino-1-cyclopentanemethanol	10316-79-7	467.43	40.764	2
8692	C6H13ClO	5-chloro-3-hexanol	58588-28-6	431.32	37.326	2	8779	C6H13NO	N,N-dimethylisobutyramide	21678-37-5	448.65	38.973	1,2
8693	C6H13ClO2	2-chloro-1,1-diethoxyethane	621-62-5	430.55	37.253	1,2	8780	C6H13NO	1-ethyl-3-pyrrolidinol	30727-14-1	467.43	40.764	2
8694	C6H13ClO2	3-chloro-1,1-dimethoxybutane	50710-40-2	442.85	38.421	2	8781	C6H13NO	(S)-(+)-2-(methoxymethyl)pyrrolidine	63126-47-6	467.43	40.764	2
8695	C6H13ClO2	1-chloro-3-(1-methylethoxy)-2-propanol	4288-84-0	455.15	39.592	1,2	8782	C6H13NO	4-methyl-2-pentanone oxime	105-44-2	467.43	40.764	2
8696	C6H13ClO2	1-chloro-3-propoxy-2-propanol	6943-58-4	442.85	38.421	2	8783	C6H13NO	N-methyl-l-prolinol	34381-71-0	467.43	40.764	2
8699	C6H13ClSi	allylchloromethyldimethylsilane	75422-66-1	410.15	35.323	2	8784	C6H13NO	2,2,N-trimethylpropanamide	6830-83-7	467.43	40.764	2
8700	C6H13ClSi	3-chloroallyltrimethylsilane	18187-39-8	410.15	35.323	1,2	8785	C6H13NO	N-hydroxycyclohexylamine	2211-64-5	467.43	40.764	2
8703	C6H13Cl3O3Si	tris(2-chloroethoxy)silane	10138-79-1	495.35	43.438	1,2	8786	C6H13NO	vinyl-2-(N,N-dimethylamino)ethyl ether	3622-76-2	467.43	40.764	2
8704	C6H13Cl3Si	trichlorohexylsilane	928-65-4	463.15	40.355	1,2	8787	C6H13NOS	O-ethyl propylthiocarbamate	55365-87-2	383.65	32.827	2
8705	C6H13F	1-fluorohexane	373-14-8	364.65	31.690	1,2	8788	C6H13NOS	4-mercaptoethylmorpholine	4542-46-5	383.65	32.827	1,2
8706	C6H13F	2-fluorohexane	372-54-3	359.35	30.826	1,2	8790	C6H13NO2	1-nitrohexane	646-14-0	466.65	43.593	1,2
8707	C6H13F	3-fluorohexane	52688-75-2	356.05	30.529	1,2	8791	C6H13NO2	2-nitrohexane	14255-44-8	449.15	41.488	1,2
8708	C6H13F	1-fluoro-2-methylpentane	62127-27-9	355.15	30.448	1,2	8792	C6H13NO2	3-nitrohexane	7286-40-0	449.15	41.488	1,2
8709	C6H13F	1-fluoro-3-methylpentane	62127-28-0	360.15	30.898	1,2	8793	C6H13NO2	1-nitro-2-methylpentane	---	446.00	41.184	2
8710	C6H13F	1-fluoro-4-methylpentane	62127-29-1	357.15	30.628	1,2	8794	C6H13NO2	1-nitro-3-methylpentane	---	446.00	41.184	2
8711	C6H13F	2-fluoro-2-methylpentane	62127-30-4	350.00	29.424	2	8795	C6H13NO2	1-nitro-4-methyl pentane	---	446.00	41.184	2
8712	C6H13F	2-fluoro-3-methylpentane	62127-31-5	350.00	29.716	2	8796	C6H13NO2	2-nitro-2-methylpentane	---	446.00	40.370	2
8713	C6H13F	2-fluoro-4-methylpentane	62127-32-6	350.00	29.716	2	8797	C6H13NO2	2-nitro-3-methylpentane	42202-42-6	443.15	40.522	1,2
8714	C6H13F	3-fluoro-2-methylpentane	62127-33-7	345.15	29.285	1,2	8798	C6H13NO2	2-nitro-4-methylpentane	---	443.00	40.507	2
8715	C6H13F	3-fluoro-3-methylpentane	19031-61-9	340.00	28.542	2	8799	C6H13NO2	3-nitro-2-methylpentane	---	443.00	40.507	2
8716	C6H13F	1-fluoro-2,2-dimethylbutane	62127-34-8	350.00	29.985	2	8800	C6H13NO2	3-nitro-3-methylpentane	---	443.00	40.086	2
8717	C6H13F	1-fluoro-2,3-dimethylbutane	62127-35-9	354.15	29.790	1,2	8801	C6H13NO2	1-nitro-2,2-dimethylbutane	2625-29-8	442.15	40.005	1,2
8718	C6H13F	1-fluoro-3,3-dimethylbutane	371-64-2	348.85	29.614	1,2	8802	C6H13NO2	1-nitro-2,3-dimethylbutane	66553-34-2	449.15	41.096	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
8803	C6H13NO2	1-nitro-3,3-dimethylbutane	---	445.00	40.275	2	8949	C6H14N2O2	sec-butyl methoxymethylnitrosamine	---	615.00	55.036	2
8804	C6H13NO2	2-nitro-2,3-dimethylbutane	34075-28-0	442.15	39.634	1,2	8950	C6H14N2O2	diisopropyl hyponitrite	86886-16-0	615.00	55.036	2
8805	C6H13NO2	2-nitro-3,3-dimethylbutane	599-02-0	436.15	39.072	1,2	8951	C6H14N2O2	N-ethyl-N-(4-hydroxybutyl)nitrosoamine	54897-62-0	615.00	55.036	2
8806	C6H13NO2	1-nitro-2-ethylbutane	---	445.00	41.087	2	8952	C6H14N2O2	1-(nitrosopropylamino)-2-propanol	39603-53-7	615.00	55.036	2
8808	C6H13NO2	5-(aminomethyl)tetrahydro-2-furanmethanol	589-14-0	446.58	38.776	2	8961	C6H14N3OP	dimethylamino-bis(1-aziridinyl)phosphine oxi*	1195-69-3	283.95	23.586	1,2
8809	C6H13NO2	ethyl isopropylcarbamate	2594-20-9	447.15	38.830	1,2	8966	C6H14N4O2	N,N'-diethyl-N,N'-dinitrosoethylenediamine	7346-14-7	374.55	31.974	2
8810	C6H13NO2	ethyl N-propylcarbamate	623-85-8	465.15	40.546	1,2	8967	C6H14N4O2	2,5-dimethyldinitrosopiperazine	55556-88-2	355.65	30.207	1,2
8811	C6H13NO2	hexyl nitrite	638-51-7	402.15	34.568	1,2	8968	C6H14N4O2	2,6-dimethyldinitrosopiperazine	55380-34-2	370.34	31.580	1,2
8814	C6H13NO2	isopentyl carbamate	543-86-2	493.15	43.226	1,2	8969	C6H14N4O2	isobutylidenediurea	6104-30-9	397.65	34.144	1,2
8818	C6H13NO2	N-methyl-beta-alanine, ethyl ester	2213-08-3	446.58	38.776	2	8970	C6H14O	1-hexanol	111-27-3	430.15	45.925	1,2
8819	C6H13NO2	methyl butylcarbamate	2594-21-0	446.58	38.776	2	8971	C6H14O	2-hexanol	626-93-7	413.04	42.932	1,2
8820	C6H13NO2	methyl sec-butylcarbamate	39076-02-3	446.58	38.776	2	8972	C6H14O	3-hexanol	623-37-0	408.55	38.123	1,2
8821	C6H13NO2	methyl tert-butylcarbamate	27701-01-5	446.58	38.776	2	8973	C6H14O	2-methyl-1-pentanol	105-30-6	421.15	42.879	1,2
8822	C6H13NO2	4-morpholineethanol	622-40-2	500.15	43.899	1,2	8974	C6H14O	3-methyl-1-pentanol	589-35-5	425.55	40.575	1,2
8825	C6H13NO2	tert-pentyl carbamate	590-60-3	446.58	38.776	2	8975	C6H14O	4-methyl-1-pentanol	626-89-1	424.95	40.407	1,2
8828	C6H13NO2	dimethylaminoethanol acetate	1421-89-2	426.15	36.836	1,2	8976	C6H14O	4-methyl-2-pentanol	108-11-2	404.85	54.078	1,2
8829	C6H13NO2	2,2-dimethyl-1,3-dioxolane-4-methanamine	22195-47-7	446.58	38.776	2	8977	C6H14O	2-methyl-2-pentanol	590-36-3	394.56	37.132	1,2
8830	C6H13NO2	N,N-dimethylglycine ethyl ester	33229-89-9	423.65	36.599	1,2	8978	C6H14O	3-methyl-2-pentanol	565-60-6	407.36	38.352	1,2
8831	C6H13NO2	ethyl 3-aminobutyrate	5303-65-1	446.58	38.776	2	8979	C6H14O	2-methyl-3-pentanol	565-67-3	399.66	37.442	1,2
8833	C6H13NO2	methyl 3-(dimethylamino)propionate	3853-06-3	426.15	36.836	1,2	8980	C6H14O	3-methyl-3-pentanol	77-74-7	395.56	37.065	1,2
8835	C6H13NO2	DL-tert-butylglycine	33105-81-6	446.58	38.776	2	8981	C6H14O	2-ethyl-1-butanol	97-95-0	419.65	43.205	1,2
8837	C6H13NO2	methylpropylcarbinol carbamate	541-95-7	446.58	38.776	2	8982	C6H14O	2,2-dimethyl-1-butanol	1185-33-7	409.95	37.935	1,2
8843	C6H13NO3	2,2-diethoxyacetamide	61189-99-9	444.15	38.545	2	8983	C6H14O	2,3-dimethyl-1-butanol	19550-30-2	422.15	39.805	1,2
8844	C6H13NO3	1-hexyl nitrate	20633-11-8	444.15	38.545	1,2	8984	C6H14O	2,3-dimethyl-1-butanol, (±)-	20281-85-0	417.65	36.032	1,2
8846	C6H13NO3	(2-isopropoxyethyl)carbamate	67952-46-9	444.15	38.545	2	8985	C6H14O	3,3-dimethyl-1-butanol	624-95-3	416.15	39.669	1,2
8851	C6H13NO4S	2-morpholinoethanesulfonic acid	4432-31-9	375.15	32.030	1,2	8986	C6H14O	2,3-dimethyl-2-butanol	594-60-5	391.75	35.869	1,2
8862	C6H13N3O2	1,1-diethyl-3-methyl-3-nitrosourea	50285-72-8	399.15	34.285	2	8987	C6H14O	3,3-dimethyl-2-butanol	464-07-3	393.15	36.004	1,2
8863	C6H13N3O2	N-nitrosomethylpentylnitrosamine	---	405.15	34.851	1,2	8988	C6H14O	3,3-dimethyl-2-butanol, (±)	20281-91-8	393.55	35.699	1,2
8864	C6H13N3O2	n-pentylnitrosourea	10589-74-9	393.15	33.720	1,2	8989	C6H14O	(RS)-2-hexanol	20281-86-1	413.15	35.606	1,2
8866	C6H13N3O5	2-(butylnitroamino)ethanol nitrate (ester)	82486-82-6	320.15	26.912	1,2	8990	C6H14O	2-hexanol, (R)	26549-24-6	410.15	35.323	1,2
8877	C6H14	hexane	110-54-3	341.88	29.107	1,2	8991	C6H14O	3-hexanol, (R)	13471-42-6	408.15	35.134	1,2
8878	C6H14	2,2-dimethylbutane	75-83-2	322.88	26.416	1,2	8992	C6H14O	3-methyl-1-pentanol, (±)	20281-83-8	426.15	36.836	1,2
8879	C6H14	2,3-dimethylbutane	79-29-8	331.13	27.488	1,2	8993	C6H14O	dipropyl ether	111-43-3	362.79	32.206	1,2
8880	C6H14	2-methylpentane	107-83-5	333.41	27.942	1,2	8994	C6H14O	propyl isopropyl ether	627-08-7	353.15	30.507	1,2
8881	C6H14	3-methylpentane	96-14-0	336.42	28.262	1,2	8995	C6H14O	diisopropyl ether	108-20-3	341.45	29.580	1,2
8884	C6H14BaO2	barium isopropoxide	24363-37-9	355.15	30.161	1,2	8996	C6H14O	methyl pentyl ether	628-80-8	372.15	32.526	1,2
8885	C6H14Be	diisopropylberyllium	15721-33-2	228.65	18.581	1,2	8997	C6H14O	methyl 1-methylbutyl ether	6795-88-6	364.15	31.504	1,2
8889	C6H14BrO3P	diethyl 2-bromoethylphosphonate	5324-30-1	348.15	29.509	1,2	8998	C6H14O	methyl 2-methylbutyl ether	62016-48-2	363.15	31.413	1,2
8891	C6H14ClN	cyclohexylamine hydrochloride	4998-76-9	579.15	51.539	1,2	8999	C6H14O	methyl 3-methylbutyl ether	626-91-5	363.15	31.413	1,2
8892	C6H14ClN	N-(2-chloro ethyl)diethylamine	100-35-6	478.15	41.789	1,2	9000	C6H14O	methyl 1-ethylpropyl ether	36839-67-5	361.15	31.232	1,2
8904	C6H14Hg	diisopropylmercury	1071-39-2	463.15	40.355	2	9001	C6H14O	methyl 1,2-dimethylpropyl ether	62016-49-3	356.15	30.501	1,2
8905	C6H14Hg	dipropylmercury	628-85-3	463.15	40.355	1,2	9002	C6H14O	methyl tert-pentyl ether	994-05-8	359.45	30.611	1,2
8911	C6H14NO4P	dimethylmorpholinophosphonate	597-25-1	315.45	26.478	1,2	9003	C6H14O	methyl 2,2-dimethylpropyl ether	1118-00-9	356.15	30.199	1,2
8912	C6H14NO4PS2	formocarbam	37032-15-8	461.35	40.183	1,2	9004	C6H14O	ethyl butyl ether	628-81-9	365.35	31.593	1,2
8913	C6H14NO5P	N-methylol dimethylphosphonopropionamide	20120-33-6	483.65	42.315	1,2	9005	C6H14O	ethyl isobutyl ether	627-02-1	354.25	30.607	1,2
8914	C6H14N2	azopropane	821-67-0	387.15	33.156	1,2	9006	C6H14O	ethyl sec-butyl ether	2679-87-0	354.35	30.616	1,2
8915	C6H14N2	cis-1,2-cyclohexanediamine	1436-59-5	431.22	37.317	2	9007	C6H14O	ethyl tert-butyl ether	637-92-3	345.95	29.292	1,2
8916	C6H14N2	trans-1,2-cyclohexanediamine	1121-22-8	431.22	37.317	2	9008	C6H14O	(S)-(+)-2-hexanol	52019-78-0	411.65	35.464	1,2
8917	C6H14N2	1,4-dimethylpiperazine	106-58-1	404.15	34.756	1,2	9009	C6H14O	tert-hexyl alcohol	26401-20-7	390.55	34.721	2
8918	C6H14N2	cis-2,5-dimethylpiperazine	6284-84-0	435.15	37.690	1,2	9010	C6H14OS	dipropyl sulfoxide	4253-91-2	510.65	44.908	2
8919	C6H14N2	trans-2,5-dimethylpiperazine	2815-34-1	435.15	37.690	1,2	9011	C6H14OS	6-mercapto-1-hexanol	1633-78-9	498.15	43.706	1,2
8920	C6H14N2	cis-2,6-dimethylpiperazine	21655-48-1	433.15	37.500	1,2	9012	C6H14OS	3-mercapto-1-hexanol	51755-83-0	523.15	46.113	1,2
8921	C6H14N2	hexahydro-1-methyl-1H-1,4-diazepine	4318-37-0	427.15	36.931	1,2	9013	C6H14OS	n-propyl sulfoxide	4253-91-2	510.65	44.908	2
8922	C6H14N2	4-piperidinemethanamine	7144-05-0	473.15	41.310	1,2	9014	C6H14OSi	vinylethoxydimethylsilane	5356-83-2	372.15	31.749	1,2
8923	C6H14N2	1-pyrrolidineethanamine	7154-73-6	439.15	38.070	1,2	9015	C6H14OSi	allyloxytrimethylsilane	18146-00-4	374.05	31.927	1,2
8924	C6H14N2	1-aminohomopiperidine	5906-35-4	438.15	37.975	1,2	9016	C6H14OSi	(isopropenyloxy)trimethylsilane	1833-53-0	367.15	31.281	1,2
8925	C6H14N2	(1R,2R)-(-)-1,2-diaminocyclohexane	20439-47-8	431.22	37.317	2	9017	C6H14OSi	trans-3-(trimethylsilyl)allyl alcohol	59376-64-6	440.15	38.165	1,2
8926	C6H14N2	(1S,2S)-(+)-1,2-diaminocyclohexane	21436-03-3	431.22	37.317	2	9020	C6H14O2	acetal	105-57-7	376.75	35.129	1,2
8927	C6H14N2	1,2-diaminocyclohexane	694-83-7	431.22	37.317	2	9021	C6H14O2	2-butoxyethanol	111-76-2	444.47	46.153	1,2
8928	C6H14N2	2,5-dimethylpiperazine	106-55-8	436.95	37.861	1,2	9022	C6H14O2	hexylene glycol	107-41-5	470.65	61.388	1,2
8929	C6H14N2	2,6-dimethylpiperazine	108-49-6	435.15	37.690	1,2	9023	C6H14O2	1,2-hexanediol	6920-22-5	497.15	58.020	1,2
8930	C6H14N2	1-ethylpiperazine	5308-25-8	430.15	37.215	1,2	9024	C6H14O2	1,3-hexanediol	21531-91-9	508.15	59.350	2
8931	C6H14N2	1,3-diaminocyclohexane	3385-21-5	431.22	37.317	2	9025	C6H14O2	1,4-hexanediol	16432-53-4	529.15	61.892	2
8932	C6H14N2O	N-isopropyl-N-nitroso-2-propanamine	601-77-4	467.65	40.785	1,2	9026	C6H14O2	1,5-hexanediol	928-40-5	510.15	58.219	1,2
8933	C6H14N2O	4-morpholineethanamine	2038-03-1	478.15	41.789	1,2	9027	C6H14O2	1,6-hexanediol	629-11-8	516.15	66.230	1,2
8934	C6H14N2O	N-nitroso-N-propyl-1-propanamine	621-64-7	479.15	41.884	1,2	9028	C6H14O2	2,3-hexanediol	617-30-1	478.15	55.155	1,2
8935	C6H14N2O	1-piperazineethanol	103-76-4	519.15	45.727	1,2	9029	C6H14O2	2,4-hexanediol	19780-90-6	484.15	42.363	1,2
8936	C6H14N2O	(S)-(-)-1-amino-2-(methoxymethyl)pyrrolidine	59983-39-0	497.45	43.639	2	9030	C6H14O2	2,5-hexanediol	2935-44-6	493.95	57.044	1,2
8937	C6H14N2O	(R)-1-amino-2-(methoxymethyl)pyrrolidine	72748-99-3	497.45	43.639	2	9031	C6H14O2	3,4-hexanediol	922-17-8	496.94	57.402	2
8938	C6H14N2O	diazene, dipropyl-, 1-oxide	17697-55-1	497.45	43.639	2	9032	C6H14O2	2-methyl-1,2-pentanediol	20667-05-4	490.00	55.918	2
8939	C6H14N2O	n-amyl-N-methylnitrosamine	13256-07-0	497.45	43.639	2	9033	C6H14O2	2-methyl-1,3-pentanediol	149-31-5	493.45	56.985	1,2
8940	C6H14N2O	2-azoxypropane	17697-53-9	543.15	48.045	1,2	9034	C6H14O2	2-methyl-1,5-pentanediol	42856-62-2	496.94	57.402	2
8941	C6H14N2O	ethyl-N-butylnitrosamine	4549-44-4	497.45	43.639	2	9035	C6H14O2	2-methyl-2,3-pentanediol	7795-80-4	505.76	57.187	2
8942	C6H14N2O	N-nitrosoethyl-tert-butylamine	3398-69-4	497.45	43.639	2	9036	C6H14O2	3-methyl-1,3-pentanediol	33879-72-0	482.98	55.088	2
8943	C6H14N2O	nitrosomethylneopentylamine	31820-22-1	497.45	43.639	2	9037	C6H14O2	3-methyl-1,5-pentanediol	4457-71-0	521.55	60.972	1,2
8944	C6H14N2O2	lysine	56-87-1	615.00	73.989	1,2	9038	C6H14O2	3-methyl-2,3-pentanediol	63521-37-9	505.76	57.187	2
8945	C6H14N2O2	DL-lysine	70-54-2	615.00	55.036	2	9039	C6H14O2	3-methyl-2,4-pentanediol	5683-44-3	484.65	64.008	1,2
8946	C6H14N2O2	(butoxymethyl)nitrosomethylamine	57629-90-0	615.00	55.036	2	9040	C6H14O2	4-methyl-1,4-pentanediol	1462-10-8	494.35	56.433	1,2
8947	C6H14N2O2	butyl(2-hydroxyethyl)nitrosoamine	51938-14-8	615.00	55.036	2	9041	C6H14O2	DL-erythro-4-methyl-2,3-pentanediol	6702-10-9	519.72	59.513	2
8948	C6H14N2O2	butyl methoxymethylnitrosamine	---	615.00	55.036	2	9042	C6H14O2	DL-threo-4-methyl-2,3-pentanediol	6464-40-0	519.72	59.513	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
9043	C6H14O2	2-ethyl-1,2-butanediol	66553-16-0	473.15	53.926	1,2	9127	C6H14S2	1,1-bis(ethylthio)ethane	14252-42-7	457.15	38.127	1,2
9044	C6H14O2	2-ethyl-1,3-butanediol	66553-17-1	480.00	55.376	2	9128	C6H14S2	1,2-bis(ethylthio)ethane	5395-75-5	490.15	42.939	1,2
9045	C6H14O2	2-ethyl-1,4-butanediol	57716-79-7	480.00	55.376	2	9129	C6H14S2	diisopropyl disulfide	4253-89-8	450.15	36.048	1,2
9046	C6H14O2	2,2-dimethyl-1,3-butanediol	76-35-7	475.55	53.649	1,2	9130	C6H14S2	dipropyl disulfide	629-19-6	464.65	41.924	1,2
9047	C6H14O2	2,2-dimethyl-1,4-butanediol	32812-23-0	480.00	54.170	2	9131	C6H14S2	1,6-hexanedithiol	1191-43-1	510.15	44.860	1,2
9048	C6H14O2	2,3-dimethyl-1,2-butanediol	66553-15-9	480.00	54.170	2	9133	C6H14Si	allyltrimethylsilane	762-72-1	358.15	30.441	1,2
9049	C6H14O2	2,3-dimethyl-1,3-butanediol	24893-35-4	480.00	54.170	2	9134	C6H14Zn	dipropyl zinc	628-91-1	421.15	36.363	1,2
9050	C6H14O2	DL-2,3 -dimethyl-1,4-butanediol	---	496.94	57.402	2	9135	C6H15Al	triethyl aluminum	97-93-8	467.15	60.677	1,2
9051	C6H14O2	meso-2,3-dimethyl-1,4-butanediol	---	496.94	57.402	2	9138	C6H15Al2Br3O3	triethoxydialuminum tribromide	65232-69-1	332.15	28.023	1,2
9052	C6H14O2	2,3-dimethyl-2,3-butanediol	76-09-5	445.95	49.089	1,2	9139	C6H15Al2Cl3	ethyl aluminum sesquichloride	12075-68-2	482.15	42.172	1,2
9053	C6H14O2	3,3-dimethyl-1,2-butanediol	59562-82-2	478.65	54.012	1,2	9140	C6H15As	triethylarsine	617-75-4	411.65	35.464	1,2
9054	C6H14O2	2-propyl-1,3-propanediol	2612-28-4	474.16	55.244	2	9141	C6H15AsO3	triethyl arsenite	3141-12-6	438.65	38.022	1,2
9055	C6H14O2	2-isopropyl-1,3-propanediol	2612-27-3	496.94	57.402	2	9142	C6H15AsO4	triethyl arsenate	15606-95-8	509.65	44.812	1,2
9056	C6H14O2	2-methyl-2-ethyl-1,3-propanediol	77-84-9	498.95	56.977	1,2	9145	C6H15B	triethylborane	97-94-9	368.15	31.375	1,2
9057	C6H14O2	1-(1-methylethoxy)-2-propanol	3944-36-3	410.65	37.458	1,2	9147	C6H15BO3	triethyl borate	150-46-9	393.15	33.720	1,2
9058	C6H14O2	2-(2-methylpropoxy)ethanol	4439-24-1	433.15	37.500	1,2	9149	C6H15BrGe	bromotriethylgermane	1067-10-3	464.05	40.441	1,2
9059	C6H14O2	1-propoxy-2-propanol	1569-01-3	423.15	36.552	1,2	9150	C6H15BrSi	bromotriethylsilane	1112-48-7	436.15	37.785	1,2
9060	C6H14O2	ethylene glycol diethyl ether	629-14-1	392.55	31.890	1,2	9151	C6H15BrSn	triethyltin bromide	2767-54-6	495.65	43.466	1,2
9061	C6H14O2	(2R,5R)-2,5-hexanediol	17299-07-9	486.65	42.603	1,2	9152	C6H15ClGe	chlorotriethylgermane	994-28-5	449.15	39.021	1,2
9062	C6H14O2	(2S,5S)-2,5-hexanediol	34338-96-0	486.65	42.603	1,2	9154	C6H15ClOSi	(chloromethyl)-isopropoxy-dimethylsilane	18171-11-4	418.15	36.079	1,2
9063	C6H14O2	3-methoxy-3-methylbutanol	56539-66-3	447.15	38.830	1,2	9155	C6H15ClOSi	2-chloromethyl 2-(trimethylsilyl)ethyl ether	76513-69-4	418.15	36.079	2
9064	C6H14O2	(R)-(-)-2-methyl-2,4-pentanediol	99210-90-9	470.15	41.024	1,2	9156	C6H15ClO2Si	chloromethylmethyldiethoxysilane	2212-10-4	433.15	37.500	1,2
9065	C6H14O2	1,3-dimethoxybutane	10143-66-5	481.98	42.156	2	9157	C6H15ClO2Si	(3-chloropropyl)dimethoxymethylsilane	18171-19-2	433.15	37.500	2
9066	C6H14O2	dipropyl peroxide	29914-92-9	481.98	42.156	2	9158	C6H15ClO3Si	chlorotriethoxysilane	4667-99-6	429.15	37.121	1,2
9067	C6H14O2	ethylene glycol mono-sec-butyl ether	7795-91-7	481.98	42.156	2	9159	C6H15ClO3Si	(3-chloropropyl)trimethoxysilane	2530-87-2	468.65	40.880	1,2
9068	C6H14O2	n-propoxypropanol (mixed isomers)	30136-13-1	481.98	42.156	2	9162	C6H15ClSi	butylchlorodimethylsilane	1000-50-6	412.15	35.512	1,2
9069	C6H14O2S	dipropyl sulfone	598-03-8	543.00	54.098	1,2	9163	C6H15ClSi	(3-chloropropyl)trimethylsilane	2344-83-4	424.15	36.647	1,2
9070	C6H14O2S	3,3'-thiodipropanol	10595-09-2	414.15	35.701	1,2	9164	C6H15ClSi	chlorotriethylsilane	994-30-9	417.65	36.032	1,2
9071	C6H14O2S2	3,6-dithiaoctane-1,8-diol	5244-34-8	498.15	43.706	2	9165	C6H15ClSi	tert-butyldimethylsilyl chloride	18162-48-6	398.05	34.182	1,2
9072	C6H14O2S2	2,2'-(ethylenedioxy)diethanethiol	14970-87-7	498.15	43.706	1,2	9166	C6H15ClSi	chloro(diisopropyl)silane	2227-29-4	413.00	35.592	2
9073	C6H14O2Si	methyl trimethylsilylacetate	2916-76-9	409.15	35.228	2	9167	C6H15ClSn	triethyltin chloride	994-31-0	481.15	42.076	1,2
9074	C6H14O2Si	(trimethylsilyl)methyl acetate	2917-65-9	409.15	35.228	1,2	9169	C6H15FSi	triethylfluorosilane	358-43-0	383.15	32.780	1,2
9075	C6H14O3	diethylene glycol dimethyl ether	111-96-6	432.91	41.232	1,2	9171	C6H15Ga	triethylgallium	1115-99-7	415.30	35.809	1,2
9076	C6H14O3	dipropylene glycol	25265-71-8	504.95	62.209	1,2	9172	C6H15In	triethyl indium	923-34-2	457.15	39.783	1,2
9077	C6H14O3	2-(2-ethoxyethoxy)ethanol	111-90-0	475.15	46.729	1,2	9173	C6H15N	hexylamine	111-26-2	404.65	37.530	1,2
9078	C6H14O3	trimethylolpropane	77-99-6	562.04	75.330	1,2	9174	C6H15N	2-aminohexane	5329-79-3	403.15	36.344	1,2
9079	C6H14O3	bis(ethoxymethyl) ether	5648-29-3	413.75	35.663	1,2	9175	C6H15N	3-aminohexane	16751-58-9	408.77	36.874	2
9080	C6H14O3	2,2-diethoxyethanol	621-63-6	440.15	38.165	1,2	9176	C6H15N	1-amino-2-methylpentane	13364-16-4	400.00	36.047	2
9081	C6H14O3	1,2,5-hexanetriol	10299-30-6	472.47	41.245	2	9177	C6H15N	1-amino-3-methylpentane	42245-37-4	395.15	36.413	1,2
9082	C6H14O3	1,2,6-hexanetriol	106-69-4	472.47	41.245	2	9178	C6H15N	1-amino-4-methylpentane	5344-20-7	397.05	35.769	1,2
9083	C6H14O3	2,3,4-hexanetriol	93972-93-1	529.65	46.740	1,2	9179	C6H15N	2-amino-2-methylpentane	53310-02-4	377.15	33.235	1,2
9084	C6H14O3	1,2,3-trimethoxypropane	20637-49-4	421.15	36.363	1,2	9180	C6H15N	2-amino-3-methylpentane	35399-81-6	408.33	36.491	2
9085	C6H14O3	1,2,3-hexanetriol	90325-47-6	472.47	41.245	2	9181	C6H15N	2-amino-4-methylpentane	108-09-8	381.65	33.999	1,2
9086	C6H14O3	3-methyl-1,3,5-pentanetriol	7564-64-9	472.47	41.245	2	9182	C6H15N	3-amino-2-methylpentane	54287-41-1	408.33	36.491	2
9087	C6H14O3	1,1,3-trimethoxypropane	14315-97-0	472.47	41.245	2	9183	C6H15N	3-amino-3-methylpentane	3495-46-3	398.45	35.203	1,2
9088	C6H14O3	1,1,1-trimethoxypropane	24823-81-2	472.47	41.245	2	9184	C6H15N	1-amino-2,2-dimethylbutane	41781-17-3	386.65	34.112	1,2
9089	C6H14O3S	butyl ethyl sulfite	92876-99-8	460.15	40.069	2	9185	C6H15N	1-amino-2,3-dimethylbutane	66553-05-7	378.15	33.673	1,2
9090	C6H14O3S	dipropyl sulfite	623-98-3	464.65	40.498	1,2	9186	C6H15N	1-amino-3,3-dimethylbutane	15673-00-4	405.98	35.900	2
9091	C6H14O3Si	allyltrimethoxysilane	2551-83-9	420.15	36.268	1,2	9187	C6H15N	2-amino-2,3-dimethylbutane	4358-75-2	377.65	32.553	1,2
9092	C6H14O4	triethylene glycol	112-27-6	551.00	64.238	1,2	9188	C6H15N	2-amino-3,3-dimethyl butane	3850-30-4	375.15	32.749	1,2
9093	C6H14O4	1,1,1,2-tetramethoxyethane	34359-77-8	523.15	46.113	1,2	9189	C6H15N	1-amino-2-ethylbutane	617-79-8	408.77	36.874	2
9094	C6H14O4S	methyl pentyl sulfate	5867-93-6	506.23	44.483	2	9190	C6H15N	2-hexanamine, (±)	68107-05-1	390.65	37.871	1,2
9095	C6H14O4S	butyl ethyl sulfate	5867-95-8	506.23	44.483	2	9191	C6H15N	methylpentylamine	25419-06-1	390.55	35.256	1,2
9096	C6H14O4S	dipropyl sulfate	598-05-0	506.23	44.483	2	9192	C6H15N	methyl-1-methylbutylamine	51932-19-5	386.41	34.421	2
9097	C6H14O4S	diisopropyl ester sulfuric acid	2973-10-6	506.23	44.483	2	9193	C6H15N	methyl-2-methylbutylamine	90023-96-4	386.41	34.421	2
9100	C6H14O6	sorbitol	50-70-4	777.00	133.121	1,2	9194	C6H15N	methyl-3-methylbutylamine	52317-98-3	381.15	33.931	1,2
9101	C6H14O6	galactitol	608-66-2	777.00	71.044	2	9195	C6H15N	methyl-1,1-dimethylpropylamine	---	383.62	33.501	2
9102	C6H14O6	D-mannitol	69-65-8	777.00	71.044	2	9196	C6H15N	methyl-1,2-dimethylpropylamine	34317-39-0	386.41	34.421	2
9103	C6H14O6	L-iditol	488-45-9	777.00	71.044	2	9197	C6H15N	methyl-2,2-dimethylpropylamine	26153-91-3	383.62	33.501	2
9106	C6H14O7P2	(1-hydroxyvinyl)phosphonic acid dimethyl est*	3328-33-4	472.15	41.215	1,2	9198	C6H15N	ethylbutylamine	13360-63-9	381.15	34.251	1,2
9107	C6H14S	hexyl mercaptan	111-31-9	425.81	37.812	1,2	9199	C6H15N	ethyl-sec-butylamine	21035-44-9	371.15	33.000	1,2
9108	C6H14S	2-hexanethiol	1679-06-7	412.05	35.552	1,2	9200	C6H15N	ethylisobutylamine	13205-60-2	371.15	33.000	1,2
9109	C6H14S	2,3-dimethyl-2-butanethiol	1639-01-6	407.26	33.189	2	9201	C6H15N	ethyl-tert-butylamine	4432-77-3	351.15	30.537	1,2
9110	C6H14S	3-hexanethiol	1633-90-5	407.26	33.189	2	9202	C6H15N	di-propylamine	142-84-7	382.00	35.142	1,2
9111	C6H14S	2-methyl-2-pentanethiol	1633-97-2	407.26	33.189	2	9203	C6H15N	diisopropylamine	108-18-9	357.05	30.353	1,2
9112	C6H14S	dipropyl sulfide	111-47-7	416.00	36.652	1,2	9204	C6H15N	propylisopropylamine	21968-17-2	371.45	33.028	1,2
9113	C6H14S	diisopropyl sulfide	625-80-9	393.19	35.229	1,2	9205	C6H15N	N-ethyl-2-butanamine, (±)	116724-10-8	371.15	31.290	1,2
9114	C6H14S	methyl pentyl sulfide	1741-83-9	401.16	35.936	1,2	9206	C6H15N	methylethylpropylamine	4458-32-6	364.65	32.026	1,2
9115	C6H14S	ethyl butyl sulfide	638-46-0	417.41	36.736	1,2	9207	C6H15N	methylethylisopropylamine	39198-07-7	364.65	31.734	1,2
9116	C6H14S	3-methyl-2-thiahexane	13286-91-4	412.15	35.890	1,2	9208	C6H15N	dimethylbutylamine	927-62-8	367.15	30.611	1,2
9117	C6H14S	4-methyl-2-thiahexane	15013-37-3	413.15	35.981	1,2	9209	C6H15N	dimethyl-sec-butylamine	921-04-0	367.15	31.962	1,2
9118	C6H14S	5-methyl-2-thiahexane	13286-90-3	411.15	35.798	1,2	9210	C6H15N	dimethylisobutylamine	7239-24-9	354.15	30.777	1,2
9119	C6H14S	2-methyl-3-thiahexane	5008-73-1	405.20	35.256	1,2	9211	C6H15N	dimethyl-tert-butylamine	918-02-5	363.15	31.000	1,2
9120	C6H14S	4-methyl-3-thiahexane	5008-72-0	406.80	35.402	1,2	9212	C6H15N	triethylamine	121-44-8	361.92	30.888	1,2
9121	C6H14S	5-methyl-3-thiahexane	1613-45-2	407.37	35.454	1,2	9213	C6H15NO	6-aminohexanol	4048-33-3	508.00	60.840	1,2
9122	C6H14S	3-ethyl-2-thiapentane	57093-84-2	405.02	35.239	2	9214	C6H15NO	2-amino-4-methyl-1-pentanol, (±)	16369-17-8	472.15	45.774	1,2
9123	C6H14S	3,3-dimethyl-2-thiapentane	13286-92-5	401.15	34.234	1,2	9215	C6H15NO	2-(butylamino)ethanol	111-75-1	472.15	45.774	1,2
9124	C6H14S	3,4-dimethyl-2-thiapentane	53897-51-1	401.15	34.574	1,2	9216	C6H15NO	2-[tert-butylamino]ethanol	4620-70-6	449.65	38.253	1,2
9125	C6H14S	4,4-dimethyl-2-thiapentane	6079-57-8	401.15	34.234	1,2	9217	C6H15NO	2-diethylaminoethanol	100-37-8	436.15	34.564	1,2
9126	C6H14S	2,2-dimethyl-3-thiapentane	14290-92-7	393.56	33.555	1,2	9218	C6H15NO	2-ethoxy-N,N-dimethylethanamine	26311-17-1	394.15	33.814	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
9219	C6H15NO	N-hydroxy-N-propyl-1-propanamine	7446-43-7	427.65	36.978	1,2	9344	C6H18BN3	tris(dimethylamino)borane	4375-83-1	420.65	36.315	1,2
9220	C6H15NO	2-(isobutylamino)ethanol	17091-40-6	472.15	45.774	1,2	9345	C6H18Cl2N2O8	1,2-bis(ethylammonio)ethane perchlorate	53213-78-8	328.85	27.717	1,2
9221	C6H15NO	DL-2-amino-1-hexanol	5665-74-7	464.15	42.870	1,2	9346	C6H18Cl2O2Si3	1,5-dichloro-1,1,3,3,5,5-hexamethyltrisiloxa*	3582-71-6	457.15	39.783	1,2
9222	C6H15NO	2-dimethylamino-2-methyl-1-propanol	7005-47-2	433.15	33.812	1,2	9347	C6H18CrO4Si2	bis(trimethylsilyl)chromate	1746-09-4	370.65	31.609	1,2
9223	C6H15NO	(S)-(+)-isoleucinol	24629-25-2	453.16	39.403	2	9349	C6H18HgSi2	bis(trimethylsilyl)mercury	4656-04-6	408.95	35.209	1,2
9224	C6H15NO	3-isopropoxypropylamine	2906-12-9	423.15	36.552	1,2	9350	C6H18LiNSi2	lithium bis(trimethylsilyl)amide	4039-32-1	388.15	33.250	1,2
9225	C6H15NO	L-tert-leucinol	112245-13-3	453.16	39.403	2	9352	C6H18NNaSi2	sodium bis(trimethylsilyl)amide	1070-89-9	340.15	28.765	1,2
9226	C6H15NO	(R)-(-)-leucinol	53448-09-2	472.15	41.215	1,2	9354	C6H18N2Si	bis(dimethylamino)dimethylsilane	3768-58-9	401.65	34.521	1,2
9227	C6H15NO	(S)-(+)-leucinol	7533-40-6	472.15	41.215	1,2	9356	C6H18N3OP	hexamethyl phosphoramide	680-31-9	506.15	44.475	1,2
9228	C6H15NO	4-amino-4-methyl-2-pentanol	4404-98-2	447.50	37.629	1,2	9357	C6H18N3P	tris(dimethylamino)phosphine	1608-26-0	423.15	36.552	1,2
9230	C6H15NO2	diisopropanolamine	110-97-4	521.90	71.062	1,2	9358	C6H18N3Sb	tris(dimethylamino)antimony	7289-92-1	306.65	25.668	1,2
9231	C6H15NO2	N,N-bis(2-hydroxyethyl)ethylamine	139-87-7	520.15	45.824	1,2	9359	C6H18N4	triethylene tetramine	112-24-3	539.65	63.179	1,2
9232	C6H15NO2	2,2-diethoxyethanamine	645-36-3	436.15	37.785	1,2	9360	C6H18N4	tris(2-aminoethyl)amine	4097-89-6	539.65	47.707	2
9233	C6H15NO2	1-[(2-hydroxyethyl)amino]-2-butanol	6967-43-7	464.43	40.477	2	9361	C6H18N6P4	2,4,6,8,9,10-hexamethylhexaaza-1,3,5,7-tetra*	10369-17-2	321.65	27.051	1,2
9234	C6H15NO2	bis(2-methoxyethyl)amine	111-95-5	444.15	38.545	1,2	9362	C6H18OSi2	hexamethyldisiloxane	107-46-0	373.67	31.145	1,2
9235	C6H15NO2	N,N-dimethylacetamide dimethyl acetal	18871-66-4	391.15	33.532	1,2	9363	C6H18OSi2	bistrimethyl silyl oxide	107-46-0	373.67	31.892	2
9236	C6H15NO2	2-[2-(dimethylamino)ethoxy]ethanol	1704-62-7	473.05	41.301	1,2	9364	C6H18O24P6	phytic acid	83-86-3	276.02	22.862	1,2
9237	C6H15NO2	4-methoxy-4-amino-2-pentanol	64011-44-5	464.43	40.477	2	9365	C6H18O3Si2	1,3-dimethoxy-1,1,3,3-tetramethyldisiloxane	18187-24-1	412.15	35.512	1,2
9239	C6H15NO3	triethanolamine	102-71-6	613.00	70.685	1,2	9366	C6H18O3Si3	hexamethylcyclotrisiloxane	541-05-9	408.26	35.078	1,2
9245	C6H15NSi	N-(trimethylsilyl)allylamine	10519-97-8	382.15	32.687	1,2	9369	C6H18SSi2	hexamethyldisilathiane	3385-94-2	436.15	37.785	1,2
9246	C6H15N2	N'-ethyl-N,N-dimethyl-1,2-ethanediamine	123-83-1	407.65	35.087	1,2	9372	C6H18Re	hexamethylrhenium	56090-02-9	325.65	27.421	1,2
9247	C6H15N3	N-aminoethyl piperazine	140-31-8	493.55	50.055	1,2	9374	C6H18Si2	hexamethyldisilane	1450-14-2	386.65	33.109	1,2
9248	C6H15N3	1,4,7-triazacyclononane	4730-54-5	464.73	40.505	2	9376	C6H18Sn2	hexamethyldistannane	661-69-8	455.15	39.592	1,2
9249	C6H15N3	1,3,5-trimethylhexahydro-1,3,5-triazine	108-74-7	435.90	37.761	1,2	9378	C6H19NSi2	hexamethyldisilazane	999-97-3	399.15	34.558	1,2
9252	C6H15N5	1-butyldiguanide	692-13-7	398.65	34.238	1,2	9380	C6H20BNSi2	N,N'-bis(trimethylsilyl)aminoborane	73452-31-0	429.15	37.121	1,2
9253	C6H15OP	triethylphosphine oxide	597-50-2	516.15	45.438	1,2	9386	C6H20O2Si3	1,1,3,3,5,5-hexamethyltrisiloxane	1189-93-1	401.05	34.464	1,2
9258	C6H15O2PS3	thiometon	640-15-3	383.15	32.780	1,2	9388	C6H21N3Si3	2,2,4,4,6,6-hexamethylcyclotrisilazane	1009-93-4	461.15	40.164	1,2
9259	C6H15O3P	diethyl ethylphosphonate	78-38-6	471.15	41.119	1,2	9389	C6H24Cl3CrN6O12	tris(1,2-diaminoethane)chromium(iii) perchlo*	15246-55-6	384.65	32.921	1,2
9260	C6H15O3P	triethyl phosphite	122-52-1	431.05	37.301	1,2	9395	C6H26O8	2,3-dimethyl-2,3-butanediol hexahydrate	6091-58-3	445.15	38.640	1,2
9261	C6H15O3P	dipropyl phosphite	1809-21-8	476.15	41.597	1,2	9399	C6Li6O6	lithium benzenehexoxide	---	300.15	25.070	1,2
9262	C6H15O3P	isopropyl phosphonate	1809-20-7	459.45	40.002	2	9401	C6N4	tetracyanoethene	670-54-2	496.15	43.514	1,2
9263	C6H15O3PS	O,O,O-triethyl phosphorothioate	126-68-1	490.15	42.939	1,2	9402	C6N6	1,3,5-triazine-2,4,6-tricarbonitrile	7615-57-8	535.15	47.271	1,2
9264	C6H15O3PS	diethyl (methylthiomethyl)phosphonate	28460-01-7	490.15	42.939	2	9406	C6N12O2	tetraazido-p-benzoquinone	22826-61-5	351.15	29.788	1,2
9265	C6H15O3PS	O,O,S-triethyl thiophosphate	1186-09-0	490.15	42.939	2	9413	C7BrF7	1-bromo-2,3,5,6-tetrafluoro-4-(trifluorometh*	17823-46-0	425.65	36.789	1,2
9268	C6H15O4P	triethyl phosphate	78-40-0	488.15	30.418	1,2	9414	C7BrF15	perfluoroheptyl bromide	375-88-2	390.90	33.509	1,2
9269	C6H15O4P	diethyl (1-hydroxyethyl)phosphonate	15336-73-9	423.15	36.552	2	9415	C7ClF5O	2,3,4,5,6-pentafluorobenzoyl chloride	2251-50-5	431.60	37.353	1,2
9270	C6H15O4P	methylethylpropyl phosphate	78-40-0	362.15	30.814	1,2	9417	C7F5N	pentafluorobenzonitrile	773-82-0	435.15	37.690	1,2
9272	C6H15O4V	vanadium(v) oxytriethoxide	1686-22-2	399.65	34.332	1,2	9419	C7F8	perfluorotoluene	434-64-0	377.65	32.265	1,2
9274	C6H15P	triethylphosphine	554-70-1	402.15	34.568	1,2	9420	C7F14	perfluoro-1-heptene	355-63-5	354.15	30.068	1,2
9276	C6H15Sb	triethylstibine	617-85-6	434.55	37.633	1,2	9421	C7F14	perfluoromethylcyclohexane	355-02-2	349.45	29.630	1,2
9278	C6H16B2	triethyldiborane	62133-36-2	403.15	34.662	1,2	9422	C7F14O	bis(perfluoroisopropyl)ketone	813-44-5	345.50	29.262	1,2
9279	C6H16Br2OSi2	1,3-bis(bromomethyl)tetramethyldisiloxane	2351-13-5	506.15	44.475	1,2	9423	C7F15I	perfluoro-N-heptyl iodide	335-58-0	410.50	35.356	1,2
9284	C6H16Cl2OSi2	1,3-bis(chloromethyl)tetramethyldisiloxane	2362-10-9	477.15	41.693	1,2	9424	C7F16	perfluoroheptane	335-57-9	355.65	30.207	1,2
9285	C6H16Cl2Si2	1,2-bis(chlorodimethylsilyl)ethane	13528-93-3	472.15	41.215	1,2	9428	C7HCl7	pentachloro(dichloromethyl)benzene	2136-95-0	607.15	54.269	1,2
9287	C6H16FN2OP	mipafox	371-86-8	398.65	34.238	1,2	9429	C7HF4N	2,3,4,5-tetrafluorobenzonitrile	16582-93-7	437.65	37.927	1,2
9292	C6H16N2	hexamethylenediamine	124-09-4	475.04	49.045	1,2	9430	C7HF4N	2,3,5,6-tetrafluorobenzonitrile	5216-17-1	437.65	37.927	2
9293	C6H16N2	N,N-diethyl-1,2-ethanediamine	100-36-7	417.15	31.258	1,2	9432	C7HF5O	pentafluorobenzaldehyde	653-37-2	440.15	38.165	1,2
9294	C6H16N2	N,N'-diethyl-1,2-ethanediamine	111-74-0	419.15	31.726	1,2	9433	C7HF5O2	2,3,4,5,6-pentafluorobenzoic acid	602-94-8	493.15	43.226	1,2
9295	C6H16N2	N,N,N',N'-tetramethyl-1,2-ethanediamine	110-18-9	394.15	26.481	1,2	9434	C7HF7	a,a,a,2,3,5,6-heptafluorotoluene	651-80-9	384.65	32.921	1,2
9296	C6H16N2	1,2-diisopropylhydrazine	3711-34-0	398.15	34.191	1,2	9435	C7HF7	2,3,4,5-tetrafluorobenzotrifluoride	654-53-5	377.15	32.218	1,2
9297	C6H16N2	N-butylethylenediamine	19522-69-1	431.15	34.746	1,2	9436	C7HF7O	2,3,5,6-tetrafluoro-4-(trifluoromethyl)phenol	2787-79-3	436.65	37.832	1,2
9298	C6H16N2	1,5-diamino-2-methylpentane	15520-10-2	466.15	40.641	1,2	9438	C7HF13O2	tridecafluoroheptanoic acid	375-85-9	448.15	38.925	1,2
9299	C6H16N2	N-isopropyl-1,3-propanediamine	3360-16-5	435.15	35.841	1,2	9439	C7HF15	1H-pentadecafluoroheptane	375-83-7	369.15	31.468	1,2
9300	C6H16N2	N-propyl-1,3-propanediamine	23764-31-0	442.15	37.879	1,2	9441	C7H2BrF5	a-bromo-2,3,4,5,6-pentafluorotoluene	1765-40-8	447.60	38.873	1,2
9301	C6H16N2	N,N,N'-trimethyl-1,3-propanediamine	4543-96-8	414.15	30.573	1,2	9442	C7H2ClF3N2O4	4-chloro-3,5-dinitrobenzotrifluoride	393-75-9	523.15	46.113	1,2
9302	C6H16N2	2-methyl-2,4-pentanediamine	21586-21-0	429.24	34.239	2	9447	C7H2ClF4NO2	3-chloro-4-fluoro-5-nitrobenzotrifluoride	101646-02-0	473.15	41.310	1,2
9303	C6H16N2O	2-[(2-amino-2-methylpropyl)amino]ethanol	68750-16-3	509.15	44.764	1,2	9451	C7H2Cl2F4	3,5-dichloro-4-fluorobenzotrifluoride	77227-81-7	440.15	38.165	1,2
9304	C6H16N2O	1,5-bis(methylamino)-3-oxapentane	---	509.15	44.764	2	9454	C7H2Cl3F3	3,4,5-trichlorobenzotrifluoride	50594-82-6	474.15	41.406	1,2
9305	C6H16N2O	N-(3-hydroxypropyl)-1,2-propanediamine	10171-78-5	509.15	44.764	2	9458	C7H2F3N	3,4,5-trifluorobenzonitrile	134227-45-5	442.15	38.355	2
9309	C6H16N3OP	1-aziridinyl-bis(dimethylamino)phosphine oxi*	1195-67-1	252.95	20.768	1,2	9459	C7H2F3N	2,3,4-trifluorobenzonitrile	143879-80-5	442.15	38.355	2
9311	C6H16OSi	triethylsilanol	597-52-4	427.15	36.931	1,2	9460	C7H2F3N	2,4,6-trifluorobenzonitrile	96606-37-0	442.15	38.355	2
9312	C6H16OSi	3-(trimethylsilyl)-1-propanol	2917-47-7	414.15	35.701	1,2	9461	C7H2F3N	2,4,5-trifluorobenzonitrile	98349-22-5	442.15	38.355	1,2
9313	C6H16OSi	tert-butyldimethylsilanol	18173-64-3	412.65	35.559	1,2	9463	C7H2F4O	2,3,4,5-tetrafluorobenzaldehyde	16583-06-5	451.15	39.211	2
9314	C6H16OSi	dimethylmethoxy-n-propylsilane	18182-14-4	384.15	32.874	1,2	9464	C7H2F4O	2,3,5,6-tetrafluorobenzaldehyde	19842-76-3	451.15	39.211	1,2
9315	C6H16OSi	trimethyl(propoxy)silane	1825-63-4	373.65	31.890	1,2	9470	C7H2F7N	2,3,5,6-tetrafluoro-4-(trifluoromethyl)anili*	651-83-2	459.15	39.973	1,2
9317	C6H16O2Si	diethoxydimethylsilane	78-62-6	387.15	33.156	1,2	9471	C7H2F12O2	2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoi*	1546-95-8	464.15	40.451	1,2
9318	C6H16O2Si	3-(trimethylsilyl)-1,2-propanediol	119235-89-1	479.15	41.884	1,2	9474	C7H3BrClF3	5-bromo-2-chlorobenzotrifluoride	445-01-2	467.05	40.727	1,2
9319	C6H16O2Sn	triethyltin hydroperoxide	---	383.15	32.780	1,2	9475	C7H3BrClF3	3-bromo-4-chlorobenzotrifluoride	454-78-4	462.15	40.260	1,2
9320	C6H16O3SSi	(3-mercaptopropyl)trimethoxysilane	4420-74-0	487.15	42.651	1,2	9489	C7H3BrO3O3	3-hydroxy-2,4,6-tribromobenzoic acid	14348-40-4	394.15	33.814	1,2
9321	C6H16O5P2S2	p-diethyl-p'-dimethylthiopyrophosphate	64048-13-1	341.15	28.858	1,2	9498	C7H3ClF2O	3,5-difluorobenzoyl chloride	129714-97-2	463.15	40.355	2
9323	C6H16O3Si	triethoxysilane	998-30-1	406.65	34.992	1,2	9499	C7H3ClF2O	2,6-difluorobenzoyl chloride	18063-02-0	463.15	40.355	2
9324	C6H16O3Si	trimethoxy(propyl)silane	1067-25-0	415.60	35.838	1,2	9500	C7H3ClF2O	2,3-difluorobenzoyl chloride	18355-73-2	463.15	40.355	1,2
9325	C6H16P2	1,2-bis(dimethylphosphino)ethane	23936-60-9	457.20	39.787	1,2	9501	C7H3ClF2O	2,5-difluorobenzoyl chloride	35730-09-7	463.15	40.355	2
9326	C6H16Si	triethylsilane	617-86-7	382.15	32.687	1,2	9502	C7H3ClF2O	2,4-difluorobenzoyl chloride	72482-64-5	463.15	40.355	2
9327	C6H16Si	trimethylpropylsilane	3510-70-1	362.15	30.814	1,2	9503	C7H3ClF2O	3,4-difluorobenzoyl chloride	76903-88-3	463.15	40.355	2
9328	C6H16Si	tert-butyldimethylsilane	29681-57-0	355.15	30.161	1,2	9504	C7H3ClF2O2	2-chloro-4,5-difluorobenzoic acid	110877-64-0	531.15	46.885	1,2
9334	C6H17NO3Si	(3-aminopropyl)trimethoxysilane	13822-56-5	467.15	40.737	1,2	9505	C7H3ClF2O2	4-chloro-2,5-difluorobenzoic acid	132794-07-1	531.15	46.885	2
9336	C6H17N2O5Pt	cis-SHP	---	379.15	32.405	2	9508	C7H3ClF3NO2	4-chloro-3-nitrobenzotrifluoride	121-17-5	495.15	48.915	1,2
9337	C6H17N2O5Pt	trans(-)-SHP	---	330.15	27.837	1,2	9509	C7H3ClF3NO2	1-chloro-4-nitro-2-(trifluoromethyl)benzene	777-37-7	505.15	44.379	1,2
9338	C6H17N2O5Pt	trans(+)-SHP	---	428.15	37.026	1,2	9510	C7H3ClF3NO2	4-chloro-1-nitro-2-(trifluoromethyl)benzene	118-83-2	500.15	43.899	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
9516	C7H3ClN2O6	4-chloro-3,5-dinitrobenzoic acid	118-97-8	434.65	37.642	1,2	9633	C7H4BrN	4-bromobenzonitrile	623-00-7	509.15	44.764	1,2
9517	C7H3ClN2O6	2-chloro-3,5-dinitrobenzoic acid	2497-91-8	513.65	45.197	1,2	9634	C7H4BrNO	1-bromo-4-isocyanatobenzene	2493-02-9	499.15	43.802	1,2
9519	C7H3Cl2F3	2,4-dichlorobenzotrifluoride	320-60-5	450.65	41.110	1,2	9635	C7H4BrNO	2-bromophenyl isocyanate	1592-00-3	496.15	43.514	2
9520	C7H3Cl2F3	3,5-dichlorobenzotrifluoride	54773-20-5	446.65	38.783	1,2	9636	C7H4BrNO	3-bromophenyl isocyanate	23138-55-8	493.15	43.226	1,2
9521	C7H3Cl2F3	2,5-dichlorobenzotrifluoride	320-50-3	447.97	38.908	2	9638	C7H4BrNO2	5-bromo-2-benzoxazolinone	14733-73-4	284.00	23.591	1,2
9522	C7H3Cl2F3	3,4-dichlorobenzotrifluoride	328-84-7	446.60	38.778	1,2	9639	C7H4BrNO2	6-bromo-2-benzoxazolinone	19932-85-5	270.55	22.364	1,2
9523	C7H3Cl2N	2,6-dichlorobenzonitrile	1194-65-6	543.15	48.045	1,2	9644	C7H4BrNS	2-bromophenyl isothiocyanate	13037-60-0	530.15	46.788	1,2
9524	C7H3Cl2N	2,3-dichlorobenzonitrile	6574-97-6	543.15	48.045	2	9645	C7H4BrNS	3-bromophenyl isothiocyanate	2131-59-1	529.15	46.692	1,2
9525	C7H3Cl2N	2,4-dichlorobenzonitrile	6574-98-7	543.15	48.045	2	9646	C7H4BrNS	p-bromophenyl isothiocyanate	1985-12-2	463.65	40.403	1,2
9526	C7H3Cl2N	3,5-dichlorobenzonitrile	6575-00-4	543.15	48.045	2	9663	C7H4Br4O	1,2,3,5-tetrabromo-4-methoxybenzene	95970-07-3	613.15	54.855	1,2
9527	C7H3Cl2NO	3,4-dichlorophenyl isocyanate	102-36-3	501.00	42.661	1,2	9664	C7H4Br4O	2,3,4,5-tetrabromo-6-methylphenol	576-55-6	613.15	54.855	2
9528	C7H3Cl2NO	2,4-dichlorophenyl isocyanate	2612-57-9	501.00	43.980	2	9665	C7H4Br4O	2,3,5,6-tetrabromo-4-methylphenol	37721-75-8	613.15	54.855	2
9529	C7H3Cl2NO	3,5-dichlorophenyl isocyanate	34893-92-0	501.00	43.980	2	9667	C7H4ClFO	2-fluorobenzoyl chloride	393-52-2	474.65	41.454	2
9530	C7H3Cl2NO	2,6-dichlorophenyl isocyanate	39920-37-1	501.00	43.980	2	9668	C7H4ClFO	3-fluorobenzoyl chloride	1711-07-5	462.15	40.260	1,2
9531	C7H3Cl2NO	2,3-dichlorophenyl isocyanate	41195-90-8	501.00	43.980	2	9669	C7H4ClFO	4-fluorobenzoyl chloride	403-43-0	474.65	41.454	2
9532	C7H3Cl2NO	2,5-dichlorophenyl isocyanate	5392-82-5	501.00	43.980	2	9670	C7H4ClFO	4-chloro-3-fluorobenzaldehyde	5527-95-7	474.65	41.454	2
9533	C7H3Cl2NO2	2,6-pyridinedicarbonyl chloride	3739-94-4	557.15	49.401	1,2	9671	C7H4ClFO	4-chloro-2-fluorobenzaldehyde	61072-56-8	474.65	41.454	2
9535	C7H3Cl2NS	2,5-dichlorophenyl isothiocyanate	3386-42-3	536.82	47.433	2	9672	C7H4ClFO	3-chloro-4-fluorobenzaldehyde	34328-61-5	474.65	41.454	2
9536	C7H3Cl2NS	3,5-dichlorophenyl isothiocyanate	6590-93-8	547.15	48.432	1,2	9673	C7H4ClFO	2-chloro-6-fluorobenzaldehyde	387-45-1	474.65	41.454	2
9537	C7H3Cl2NS	3,4-dichlorophenyl isothiocyanate	6590-94-9	536.82	47.433	2	9674	C7H4ClFO	2-chloro-4-fluorobenzaldehyde	84194-36-5	474.65	41.454	2
9538	C7H3Cl2NS	2,4-dichlorophenyl isothiocyanate	6590-96-1	533.15	47.078	1,2	9675	C7H4ClFO	3-chloro-2-fluorobenzaldehyde	85070-48-0	487.15	42.651	1,2
9539	C7H3Cl2NS	2,3-dichlorophenyl isothiocyanate	6590-97-2	530.15	46.788	1,2	9684	C7H4ClF3	p-chlorobenzotrifluoride	98-56-6	412.15	36.673	1,2
9540	C7H3Cl3O	2,4-dichlorobenzoyl chloride	89-75-8	515.15	45.342	2	9685	C7H4ClF3	1-chloro-2-(trifluoromethyl)benzene	88-16-4	425.35	36.760	1,2
9541	C7H3Cl3O	3,4-dichlorobenzoyl chloride	3024-72-4	515.15	45.342	1,2	9686	C7H4ClF3	1-chloro-3-(trifluoromethyl)benzene	98-15-7	410.65	35.370	1,2
9542	C7H3Cl3O	3,5-dichlorobenzoyl chloride	2905-62-6	515.15	45.342	2	9688	C7H4ClF3O	2-chloro-3-(trifluoromethyl)phenol	138377-34-1	433.15	37.500	1,2
9543	C7H3Cl3O	2,6-dichlorobenzoyl chloride	4659-45-4	515.15	45.342	2	9689	C7H4ClF3O	2-chloro-5-(trifluoromethyl)phenol	40889-91-6	433.15	37.500	2
9544	C7H3Cl3O	2,3,6-trichlorobenzaldehyde	4659-47-6	515.15	45.342	2	9690	C7H4ClF3O	4-chloro-3-trifluoromethylphenol	6294-93-5	433.15	37.500	2
9545	C7H3Cl3O	2,3,5-trichlorobenzaldehyde	56961-75-2	515.15	45.342	2	9694	C7H4ClIO	4-iodobenzoyl chloride	1711-02-0	393.15	33.720	1,2
9552	C7H3Cl5	1,2-dichloro-4-(trichloromethyl)benzene	13014-24-9	556.25	49.314	1,2	9695	C7H4ClIO	2-iodobenzoyl chloride	609-67-6	393.15	33.720	2
9553	C7H3Cl5	2,3,4,5,6-pentachlorotoluene	877-11-2	574.15	51.052	1,2	9696	C7H4ClN	2-chlorobenzonitrile	873-32-5	505.15	44.379	1,2
9554	C7H3Cl5	1,2,3-trichloro-4-(dichloromethyl)benzene	56961-82-1	551.15	48.820	1,2	9697	C7H4ClN	3-chlorobenzonitrile	766-84-7	500.65	43.947	2
9555	C7H3Cl5	1,2,4-trichloro-5-(dichloromethyl)benzene	33429-70-8	553.65	49.062	1,2	9698	C7H4ClN	4-chlorobenzonitrile	623-03-0	496.15	43.514	1,2
9556	C7H3Cl5	a-a-a-2,4-pentachlorotoluene	13014-18-1	463.15	40.355	1,2	9699	C7H4ClNO	2-chlorobenzoxazole	615-18-9	474.65	41.454	1,2
9558	C7H3Cl5O	methyl pentachlorophenate	1825-21-4	389.95	33.419	1,2	9700	C7H4ClNO	1-chloro-2-isocyanatobenzene	3320-83-0	473.15	41.310	1,2
9561	C7H3F2N	2,6-difluorobenzonitrile	1897-52-5	470.65	41.071	1,2	9701	C7H4ClNO	4-chlorophenyl isocyanate	104-12-1	473.90	41.382	2
9562	C7H3F2N	2,3-difluorobenzonitrile	21524-39-0	462.15	40.260	1,2	9702	C7H4ClNO	5-chlorobenzoxazole	17200-29-2	473.90	41.382	2
9563	C7H3F2N	2,4-difluorobenzonitrile	3939-09-1	461.78	40.224	2	9703	C7H4ClNO	3-chlorophenyl isocyanate	2909-38-8	473.90	41.382	2
9564	C7H3F2N	3,4-difluorobenzonitrile	64248-62-0	453.15	39.402	1,2	9707	C7H4ClNO3	3-nitrobenzoyl chloride	121-90-4	549.65	48.674	1,2
9565	C7H3F2N	3,5-difluorobenzonitrile	64248-63-1	461.78	40.224	2	9708	C7H4ClNO3	p-nitrobenzoyl chloride	122-04-3	549.65	48.674	2
9566	C7H3F2N	2,5-difluorobenzonitrile	64248-64-2	461.15	40.164	1,2	9709	C7H4ClNO3	4-chloro-3-nitrobenzaldehyde	16588-34-4	549.65	48.674	2
9567	C7H3F2NO	2,5-difluorophenyl isocyanate	39718-32-6	437.15	37.880	2	9710	C7H4ClNO3	2-nitrobenzoyl chloride	610-14-0	549.65	48.674	2
9568	C7H3F2NO	3,4-difluorophenyl isocyanate	42601-04-7	437.15	37.880	1,2	9711	C7H4ClNO3	2-chloro-5-nitrobenzaldehyde	6361-21-3	549.65	48.674	2
9569	C7H3F2NO	2,4-difluorophenyl isocyanate	59025-55-7	437.15	37.880	2	9718	C7H4ClNO4	5-chloro-2-nitrobenzoic acid	2516-95-2	433.65	37.547	2
9570	C7H3F2NS	2,6-difluorophenyl isocyanate	65295-69-4	490.15	42.939	2	9719	C7H4ClNO4	4-chloro-2-nitrobenzoic acid	6280-88-2	433.65	37.547	2
9571	C7H3F2NS	2,4-difluorophenyl isothiocyanate	141106-52-7	490.15	42.939	2	9720	C7H4ClNO4	2-chloro-4-nitrobenzoic acid	99-60-5	433.65	37.547	2
9572	C7H3F2NS	2,6-difluorophenyl isothiocyanate	207974-17-2	490.15	42.939	1,2	9721	C7H4ClNO4	2-nitrophenyl chloroformate	50353-00-9	433.65	37.547	2
9574	C7H3F3O	2,3,6-trifluorobenzaldehyde	104451-70-9	432.15	37.405	1,2	9722	C7H4ClNO4	4-nitrophenyl chloroformate	7693-46-1	433.65	37.547	1,2
9575	C7H3F3O	2,3,5-trifluorobenzaldehyde	126202-23-1	438.15	37.975	1,2	9723	C7H4ClNS	2-chlorobenzothiazole	615-20-3	521.15	45.920	1,2
9576	C7H3F3O	3,4,5-trifluorobenzaldehyde	132123-54-7	447.15	38.830	1,2	9724	C7H4ClNS	1-chloro-4-isothiocyanatobenzene	2131-55-7	522.65	46.065	1,2
9577	C7H3F3O	2,3,4-trifluorobenzaldehyde	161793-17-5	439.65	38.117	2	9725	C7H4ClNS	3-chlorophenyl isothiocyanate	2392-68-9	522.65	46.065	1,2
9578	C7H3F3O	2,4,5-trifluorobenzaldehyde	165047-24-5	441.15	38.260	1,2	9726	C7H4ClNS	2-chlorophenyl isothiocyanate	2740-81-0	534.15	47.175	1,2
9583	C7H3F4NO2	4-fluoro-3-nitrobenzotrifluoride	367-86-2	471.65	41.167	2	9735	C7H4Cl2N2O	2-amino-5,6-dichlorobenzoxazole	64037-12-3	275.55	22.820	1,2
9584	C7H3F4NO2	5-fluoro-2-nitrobenzotrifluoride	393-09-9	471.65	41.167	1,2	9736	C7H4Cl2O	m-chlorobenzoyl chloride	618-46-2	498.00	46.663	1,2
9585	C7H3F4NO2	2-fluoro-5-nitrobenzotrifluoride	400-74-8	471.65	41.167	2	9737	C7H4Cl2O	o-chlorobenzoyl chloride	609-65-4	511.15	44.956	1,2
9586	C7H3F5	2,3,4,5,6-pentafluorotoluene	771-56-2	390.65	33.485	1,2	9738	C7H4Cl2O	p-chlorobenzoyl chloride	122-01-0	495.15	43.418	1,2
9587	C7H3F5	3,4-difluorobenzotrifluoride	32137-19-2	390.65	33.485	2	9739	C7H4Cl2O	2,5-dichlorobenzaldehyde	6361-23-5	505.15	44.379	1,2
9588	C7H3F5O	pentafluoromethoxybenzene	389-40-2	411.65	35.464	1,2	9740	C7H4Cl2O	3,4-dichlorobenzaldehyde	6287-38-3	520.65	45.872	1,2
9589	C7H3F5O	2,3,4,5,6-pentafluorobenzyl alcohol	440-60-8	421.10	36.358	1,2	9741	C7H4Cl2O	3,5-dichlorobenzaldehyde	10203-08-4	513.15	45.149	1,2
9597	C7H3IN2O2	4-iodobenzenediazonium-2-carboxylate	---	358.15	30.441	1,2	9742	C7H4Cl2O	2,3-dichlorobenzaldehyde	6334-18-5	498.44	43.735	2
9603	C7H3N8	3-phenyl-1-tetrazolyl-1-tetrazene	---	473.15	41.310	1,2	9743	C7H4Cl2O	2,6-dichlorobenzaldehyde	83-38-5	438.15	37.975	1,2
9605	C7H4AgN3O6	silver 3,5-dinitroanthranilate	58302-42-4	476.15	41.597	1,2	9744	C7H4Cl2O	2,4-dichlorobenzaldehyde	874-42-0	506.15	44.475	1,2
9607	C7H4BrClN2O	2-amino-5-bromo-6-chlorobenzoxazole	64037-09-8	560.65	49.741	1,2	9745	C7H4Cl2O2	2,4-dichlorobenzoic acid	50-84-0	574.15	51.052	2
9608	C7H4BrClN2O	2-amino-6-bromo-5-chlorobenzoxazole	64037-08-7	560.65	49.741	2	9746	C7H4Cl2O2	2,5-dichlorobenzoic acid	50-79-3	574.15	51.052	1,2
9609	C7H4BrClO	2-bromobenzoyl chloride	7154-66-7	516.15	45.438	1,2	9747	C7H4Cl2O2	2,6-dichlorobenzoic acid	50-30-6	574.15	51.052	2
9610	C7H4BrClO	4-bromobenzoyl chloride	586-75-4	519.15	45.727	1,2	9748	C7H4Cl2O2	3,5-dichlorobenzoic acid	51-36-5	574.15	51.052	2
9611	C7H4BrClO	3-bromobenzoyl chloride	1711-09-7	425.05	36.732	1,2	9749	C7H4Cl2O2	2,3-dichlorobenzoic acid	50-45-3	574.15	51.052	2
9615	C7H4BrFO	4-bromo-2-fluorobenzaldehyde	57848-46-1	503.15	44.187	2	9750	C7H4Cl2O2	3,4-dichlorobenzoic acid	51-44-5	574.15	51.052	2
9616	C7H4BrFO	3-bromo-4-fluorobenzaldehyde	77771-02-9	503.15	44.187	2	9751	C7H4Cl2O2	3,5-dichlorosalicylaldehyde	90-60-8	574.15	51.052	2
9617	C7H4BrFO	5-bromo-2-fluorobenzaldehyde	93777-26-5	503.15	44.187	1,2	9756	C7H4Cl3F	1-fluoro-2-(trichloromethyl)benzene	488-98-2	502.15	44.091	2
9620	C7H4BrF3	1-bromo-2-(trifluoromethyl)benzene	392-83-6	440.65	38.212	1,2	9757	C7H4Cl3F	a,a,2-trichloro-6-fluorotoluene	62476-62-4	502.15	44.091	1,2
9621	C7H4BrF3	1-bromo-3-(trifluoromethyl)benzene	401-78-5	424.65	36.694	1,2	9758	C7H4Cl3NO3	triclopyr	55335-06-3	563.15	49.984	2
9622	C7H4BrF3	1-bromo-4-(trifluoromethyl)benzene	402-43-7	433.15	37.500	1,2	9759	C7H4Cl3O4S	5-(chlorosulfonyl)-2,4-dichlorobenzoic acid	---	281.45	23.358	1,2
9623	C7H4BrF3	2,3,6-trifluorobenzyl bromide	151412-02-1	432.82	37.468	2	9760	C7H4Cl4	1-chloro-2-(trichloromethyl)benzene	2136-89-2	537.45	47.494	1,2
9624	C7H4BrF3Mg	2-trifluoromethylphenyl magnesium bromide	395-47-1	426.75	36.893	2	9761	C7H4Cl4	1-chloro-3-(trichloromethyl)benzene	2136-81-4	528.15	46.595	1,2
9625	C7H4BrF3Mg	3-trifluoromethylphenyl magnesium bromide	402-26-6	423.85	36.618	1,2	9762	C7H4Cl4	1-chloro-4-(trichloromethyl)benzene	5216-25-1	518.15	45.631	1,2
9626	C7H4BrF3Mg	4-trifluoromethylphenyl magnesium bromide	402-51-7	429.65	37.168	1,2	9763	C7H4Cl4	1,2-dichloro-4-(dichloromethyl)benzene	56961-84-3	530.15	46.788	1,2
9628	C7H4BrF3O	1-bromo-3-(trifluoromethoxy)benzene	2252-44-0	430.15	37.215	1,2	9764	C7H4Cl4	1,2,3,5-tetrachloro-4-methylbenzene	875-40-1	549.65	48.674	1,2
9629	C7H4BrF3O	1-bromo-4-(trifluoromethoxy)benzene	407-14-7	427.15	36.931	1,2	9765	C7H4Cl4	1,2,4,5-tetrachloro-3-methylbenzene	1006-31-1	534.95	47.252	2
9631	C7H4BrN	2-bromobenzonitrile	2042-37-7	525.15	46.306	1,2	9766	C7H4Cl4	1,2,4-trichloro-5-(chloromethyl)benzene	3955-26-8	546.15	48.336	1,2
9632	C7H4BrN	3-bromobenzonitrile	6952-59-6	498.15	43.706	1,2	9767	C7H4Cl4	trichlorobenzyl chloride	1344-32-7	534.95	47.252	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
9772	C7H4FN	4-fluorobenzonitrile	1194-02-1	461.95	40.241	1,2	9970	C7H5Cl3	1,2,3-trichloro-4-methylbenzene	7359-72-0	517.15	45.534	1,2
9773	C7H4FN	2-fluorobenzonitrile	394-47-8	458.78	39.938	2	9971	C7H5Cl3	1,2,3-trichloro-5-methylbenzene	21472-86-6	519.15	45.727	1,2
9774	C7H4FN	3-fluorobenzonitrile	403-54-3	455.60	39.635	1,2	9972	C7H5Cl3	1,2,4-trichloro-5-methylbenzene	6639-30-1	504.15	46.486	1,2
9775	C7H4FNO	4-fluorophenyl isocyanate	1195-45-5	341.15	28.858	1,2	9973	C7H5Cl3	1,2,5-trichloro-3-methylbenzene	56961-86-5	503.15	46.139	1,2
9776	C7H4FNO	2-fluorophenyl isocyanate	16744-98-2	330.15	27.837	1,2	9974	C7H5Cl3	3-chlorobenzal chloride	15145-69-4	483.65	40.065	2
9777	C7H4FNO	3-fluorophenyl isocyanate	404-71-7	335.65	28.347	2	9975	C7H5Cl3	2,6-dichlorobenzyl chloride	2014-83-7	391.15	22.217	1,2
9780	C7H4FNS	1-fluoro-3-isothiocyanatobenzene	404-72-8	500.15	43.899	1,2	9976	C7H5Cl3	dichlorobenzyl chloride	38721-71-0	396.15	22.889	1,2
9781	C7H4FNS	2-fluorobenzothiazole	1123-98-4	446.75	38.792	2	9977	C7H5Cl3	2,4-dichlorobenzyl chloride	94-99-5	521.15	45.920	1,2
9782	C7H4FNS	4-fluorophenyl isothiocyanate	1544-68-9	501.15	43.995	1,2	9978	C7H5Cl3	2,3,6-trichlorotoluene	2077-46-5	483.65	40.065	2
9783	C7H4FNS	2-fluorophenyl isothiocyanate	38985-64-7	338.95	28.654	1,2	9979	C7H5Cl3	a-a-p-trichlorotoluene	13940-94-8	483.65	40.065	2
9796	C7H4F3I	3-iodobenzotrifluoride	401-81-0	455.65	39.640	1,2	9980	C7H5Cl3O	1,2,4-trichloro-3-methoxybenzene	50375-10-5	500.15	43.899	1,2
9797	C7H4F3I	2-iodobenzotrifluoride	444-29-1	470.65	41.071	1,2	9981	C7H5Cl3O	1,2,4-trichloro-5-methoxybenzene	6130-75-2	527.15	46.499	1,2
9798	C7H4F3I	4-iodobenzotrifluoride	455-13-0	458.60	39.921	1,2	9982	C7H5Cl3O	1,3,5-trichloro-2-methoxybenzene	87-40-1	514.15	45.245	1,2
9799	C7H4F3NO2	3-nitrobenzotrifluoride	98-46-4	475.93	45.277	1,2	9983	C7H5Cl3O	2,4,6-trichloro-3-methylphenol	551-76-8	538.15	47.561	1,2
9800	C7H4F3NO2	1-nitro-2-(trifluoromethyl)benzene	384-22-5	490.15	42.939	1,2	9984	C7H5Cl3O	2,3,4-trichloro-6-methylphenol	551-78-0	519.90	45.799	2
9801	C7H4F3NO2	4-nitro-a,a,a-trifluorotoluene	402-54-0	355.15	30.161	1,2	9985	C7H5Cl3O	2,3,6-trichloro-4-methylphenol	551-77-9	519.90	45.799	2
9802	C7H4F3NO2	2-(trifluoroacetoxy)pyridine	96254-05-6	440.41	38.189	2	9993	C7H5FO	benzoyl fluoride	455-32-3	427.65	36.978	1,2
9806	C7H4F4	1-fluoro-2-(trifluoromethyl)benzene	392-85-8	387.65	33.203	1,2	9994	C7H5FO	2-fluorobenzaldehyde	446-52-6	448.15	38.925	1,2
9807	C7H4F4	1-fluoro-3-(trifluoromethyl)benzene	401-80-9	374.65	31.983	1,2	9995	C7H5FO	3-fluorobenzaldehyde	456-48-4	446.15	38.735	1,2
9808	C7H4F4	1-fluoro-4-(trifluoromethyl)benzene	402-44-8	376.65	32.171	1,2	9996	C7H5FO	4-fluorobenzaldehyde	459-57-4	454.65	39.544	1,2
9809	C7H4F4	2,3,5,6-tetrafluorotoluene	5230-78-4	398.65	34.238	1,2	10003	C7H5F3	benzotrifluoride	98-08-8	375.20	32.890	1,2
9811	C7H4F4O	1-fluoro-4-(trifluoromethoxy)benzene	352-67-0	377.65	32.265	1,2	10007	C7H5F3O	3-(trifluoromethyl)phenol	98-17-9	451.15	39.211	1,2
9812	C7H4F4O	2-fluoro-5-(trifluoromethyl)phenol	141483-15-0	419.15	36.173	1,2	10008	C7H5F3O	2,4,5-trifluorobenzyl alcohol	144284-25-3	475.65	41.550	1,2
9813	C7H4F4O	2-fluoro-3-(trifluoromethyl)phenol	207291-85-8	395.15	33.908	1,2	10009	C7H5F3O	a,a,a-trifluoro-o-cresol	444-30-4	420.60	36.311	1,2
9814	C7H4F4O	2,3,5,6-tetrafluoroanisole	2324-98-3	411.15	35.417	1,2	10010	C7H5F3O	(trifluoromethoxy)benzene	456-55-3	373.05	31.834	1,2
9815	C7H4F4O	2,3,5,6-tetrafluorobenzyl alcohol	4084-38-2	400.78	34.438	2	10011	C7H5F3O	4-(trifluoromethyl)phenol	402-45-9	430.11	37.212	2
9816	C7H4F4O	2,3,4,5-tetrafluorobenzyl alcohol	53072-18-7	400.78	34.438	2	10016	C7H5F3S	phenyl trifluoromethyl sulfide	456-56-4	414.15	35.701	1,2
9818	C7H4F12O	1H,1H,7H-dodecafluoroheptanol	335-99-9	442.65	38.402	1,2	10017	C7H5F3S	4-(trifluoromethyl)thiophenol	825-83-2	414.15	35.701	2
9819	C7H4HgO3	mercury salicylate	5970-32-1	629.75	56.480	1,2	10018	C7H5F4N	2-fluoro-3-(trifluoromethyl)aniline	123973-25-1	462.15	40.260	1,2
9820	C7H4I2O3	2-hydroxy-3,5-diiodobenzoic acid	133-91-5	533.15	47.078	2	10019	C7H5F4N	2-fluoro-6-(trifluoromethyl)aniline	144851-61-6	428.15	37.026	1,2
9821	C7H4I2O3	4-hydroxy-3,5-diiodobenzoic acid	618-76-8	533.15	47.078	2	10020	C7H5F4N	4-fluoro-3-(trifluoromethyl)aniline	2357-47-3	480.60	42.023	1,2
9824	C7H4INO	2-iodophenyl isocyanate	128255-31-2	518.15	45.631	1,2	10021	C7H5F4N	4-fluoro-2-(trifluoromethyl)aniline	393-39-5	443.65	38.497	1,2
9825	C7H4INO	3-iodophenyl isocyanate	23138-56-9	518.15	45.631	2	10022	C7H5F4N	2-fluoro-5-(trifluoromethyl)aniline	535-52-4	455.65	39.640	1,2
9828	C7H4N2O2	2-nitrobenzonitrile	612-24-8	438.15	37.975	1,2	10023	C7H5F7O2	2,2,3,3,4,4,4-heptafluorobutyl acrylate	424-64-6	394.15	33.814	1,2
9829	C7H4N2O2	3-nitrobenzonitrile	619-24-9	438.15	37.975	1,2	10027	C7H5IO	benzoyl iodide	618-38-2	538.15	47.561	2
9830	C7H4N2O2	4-nitrobenzonitrile	619-72-7	438.15	37.975	2	10028	C7H5IO	2-iodobenzaldehyde	26260-02-6	538.15	47.561	2
9831	C7H4N2O2	benzene diazonium-2-carboxylate	17333-86-7	438.15	37.975	2	10029	C7H5IO	3-iodobenzaldehyde	696-41-3	538.15	47.561	2
9833	C7H4N2O2	3,4-pyridinedicarboximide	4664-01-1	438.15	37.975	2	10030	C7H5IO	4-iodobenzaldehyde	15164-44-0	538.15	47.561	1,2
9834	C7H4N2O2S	4-nitrophenyl isothiocyanate	2131-61-5	410.65	35.370	1,2	10039	C7H5I3	1,3,5-triiodo-2-methylbenzene	36994-79-3	573.15	50.955	2
9835	C7H4N2O2S	3-nitrophenyl isothiocyanate	3529-82-6	550.65	48.771	1,2	10045	C7H5N	benzonitrile	100-47-0	464.15	42.533	1,2
9859	C7H5AgN4	silver 3-cyano-1-phenyltriazen-3-IDE	70324-20-8	429.15	37.121	1,2	10046	C7H5N	2-ethynylpyridine	1945-84-2	464.15	40.451	2
9862	C7H5AsO3	p-carboxy phenylarsenoxide	1197-16-6	429.15	37.121	1,2	10047	C7H5N	isocyanobenzene	931-54-4	464.15	40.451	2
9875	C7H5BrF3N	4-bromo-3-(trifluoromethyl)aniline	393-36-2	354.65	30.114	2	10048	C7H5NNaS2	sodium 2-mercaptobenzothiazole	2492-26-4	375.85	32.096	1,2
9876	C7H5BrF3N	4-bromo-2-(trifluoromethyl)aniline	445-02-3	354.65	30.114	2	10049	C7H5NO	phenyl isocyanate	103-71-9	438.75	40.040	1,2
9877	C7H5BrF3N	2-bromo-5-(trifluoromethyl)aniline	454-79-5	354.65	30.114	1,2	10050	C7H5NO	1,2-benzisoxazole	271-95-4	434.77	37.654	2
9878	C7H5BrF3N	2-bromo-4-(trifluoromethyl)aniline	57946-63-1	354.65	30.114	2	10051	C7H5NO	2,1-benzisoxazole	271-58-9	488.15	42.747	1,2
9879	C7H5BrF3NO	2-bromo-4-(trifluoromethoxy)aniline	175278-17-8	482.15	42.172	1,2	10052	C7H5NO	benzoxazole	273-53-0	455.65	39.640	1,2
9886	C7H5BrO	benzoyl bromide	618-32-6	491.65	43.082	1,2	10053	C7H5NO	3-(2-furanyl)-2-propenenitrile	7187-01-1	369.15	31.468	1,2
9887	C7H5BrO	2-bromobenzaldehyde	6630-33-7	503.15	44.187	1,2	10054	C7H5NO	2-hydroxybenzonitrile	611-20-1	434.77	37.654	2
9888	C7H5BrO	3-bromobenzaldehyde	3132-99-8	507.15	44.572	1,2	10055	C7H5NO	3-cyanophenol	873-62-1	434.77	37.654	2
9889	C7H5BrO	4-bromobenzaldehyde	1122-91-4	500.65	43.947	2	10056	C7H5NO	4-hydroxybenzonitrile	767-00-0	422.15	36.457	1,2
9899	C7H5Br3	1,3-dibromo-5-(bromomethyl)benzene	56908-88-4	563.15	49.984	2	10057	C7H5NOS	2(3H)-benzothiazolone	934-34-9	633.15	56.813	1,2
9900	C7H5Br3	1,3,5-tribromo-2-methylbenzene	6320-40-7	563.15	49.984	1,2	10058	C7H5NOS	2-mercaptobenzoxazole	2382-96-9	633.15	56.813	2
9901	C7H5Br3O	1,2,3-tribromo-5-methoxybenzene	73557-60-5	576.15	51.247	1,2	10059	C7H5NOS	2-thenoylacetonitrile	33898-90-7	633.15	56.813	2
9902	C7H5Br3O	1,2,4-tribromo-5-methoxybenzene	95970-10-8	580.15	51.636	1,2	10060	C7H5NOS	1,2-benzisothiazol-3(2H)-one	2634-33-5	633.15	56.813	2
9903	C7H5Br3O	1,2,5-tribromo-3-methoxybenzene	73931-44-9	581.65	51.782	1,2	10061	C7H5NO2	2-benzoxazolol	69564-68-7	608.15	54.366	2
9904	C7H5Br3O	1,3,5-tribromo-2-methoxybenzene	607-99-8	571.15	50.761	1,2	10062	C7H5NO2	2(3H)-benzoxazolone	59-49-4	608.15	54.366	1,2
9905	C7H5Br3O	2,4,6-tribromo-3-methylphenol	4619-74-3	577.28	51.356	2	10063	C7H5NO2	3,5-dihydroxybenzonitrile	19179-36-3	608.15	54.366	2
9914	C7H5ClN2	2-amino-5-chlorobenzonitrile	5922-60-1	415.65	35.842	2	10064	C7H5NO2	2-furoylacetonitrile	31909-58-7	608.15	54.366	2
9916	C7H5ClN2	2-chloro-6-methyl-3-pyridinecarbonitrile	28900-10-9	415.65	35.842	1,2	10065	C7H5NO2	2,6-pyridinedicarboxaldehyde	5431-44-7	608.15	54.366	2
9917	C7H5ClN2	phenylchlorodiazirine	4460-46-2	415.65	35.842	2	10093	C7H5NS	1,2-benzisothiazole	272-16-2	493.15	43.226	1,2
9927	C7H5ClO	benzoyl chloride	98-88-4	470.15	43.630	1,2	10094	C7H5NS	benzothiazole	95-16-9	504.15	44.283	1,2
9928	C7H5ClO	2-chlorobenzaldehyde	89-98-5	485.05	42.450	1,2	10095	C7H5NS	phenyl isothiocyanate	103-72-0	494.15	43.322	1,2
9929	C7H5ClO	3-chlorobenzaldehyde	587-04-2	486.65	42.603	1,2	10096	C7H5NS	phenyl thiocyanate	5285-87-0	505.65	44.427	1,2
9930	C7H5ClO	4-chlorobenzaldehyde	104-88-1	486.65	42.603	1,2	10100	C7H5N3	1,2,4-benzotriazine	254-87-5	510.65	44.908	1,2
9932	C7H5ClO2	o-chlorobenzoic acid	118-91-2	560.15	55.507	1,2	10101	C7H5N3	pyrido[2,3-b]pyrazine	322-46-3	510.65	44.908	2
9933	C7H5ClO2	m-chlorobenzoic acid	535-80-8	509.65	44.812	2	10118	C7H5N3O6	2,4,6-trinitrotoluene	118-96-7	573.00	50.222	2
9935	C7H5ClO2	3-chloro-4-hydroxybenzaldehyde	2420-16-8	509.65	44.812	2	10119	C7H5N3O6	1-methyl-2,3,4-trinitrobenzene	602-29-9	574.15	51.052	1,2
9936	C7H5ClO2	5-chloro-2-hydroxybenzaldehyde	635-93-8	509.65	44.812	2	10120	C7H5N3O6	1-methyl-2,4,5-trinitrobenzene	610-25-3	573.58	50.996	2
9937	C7H5ClO2	2-hydroxybenzoyl chloride	1441-87-8	509.65	44.812	2	10141	C7H6BrCl	1-bromo-3-(chloromethyl)benzene	932-77-4	497.15	43.610	2
9938	C7H5ClO2	phenyl chloroformate	1885-14-9	509.65	44.812	2	10142	C7H6BrCl	1-bromo-4-(chloromethyl)benzene	589-17-3	509.15	44.764	1,2
9939	C7H5ClO2	5-chloro-1,3-benzodioxole	7228-38-8	459.15	39.973	1,2	10143	C7H6BrCl	2-bromo-5-chlorotoluene	14495-51-3	497.15	43.610	2
9948	C7H5Cl2F	(dichlorofluoromethyl)benzene	498-67-9	452.15	39.306	1,2	10144	C7H6BrCl	5-bromo-2-chlorotoluene	54932-72-8	497.15	43.610	2
9949	C7H5Cl2F	2-chloro-6-fluorobenzyl chloride	55117-15-2	482.15	42.172	1,2	10145	C7H6BrCl	4-bromo-2-chlorotoluene	89794-02-5	485.15	42.459	1,2
9950	C7H5Cl2F	2-chloro-4-fluorobenzyl chloride	93286-22-7	467.15	40.737	2	10146	C7H6BrCl	2-chlorobenzyl bromide	611-17-6	497.15	43.610	2
9951	C7H5Cl2F	a,a-dichloro-4-fluorotoluene	456-19-9	467.15	40.737	2	10147	C7H6BrCl	3-chlorobenzyl bromide	766-80-3	497.15	43.610	2
9953	C7H5Cl2N	phenyl isocyanide dichloride	622-44-6	483.15	42.268	1,2	10148	C7H6BrCl	1-bromo-3-chloro-2-methylbenzene	62356-27-8	497.15	43.610	2
9967	C7H5Cl3	benzotrichloride	98-07-7	486.65	41.060	1,2	10151	C7H6BrF	2-bromo-4-fluorotoluene	1422-53-3	444.15	38.545	1,2
9968	C7H5Cl3	1,2-dichloro-4-(chloromethyl)benzene	102-47-6	514.15	50.176	1,2	10152	C7H6BrF	3-bromo-4-fluorotoluene	452-62-0	442.15	38.355	1,2
9969	C7H5Cl3	1,3-dichloro-5-(chloromethyl)benzene	3290-06-0	483.65	40.065	2	10153	C7H6BrF	2-bromo-5-fluorotoluene	452-63-1	443.15	38.450	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
10154	C7H6BrF	4-bromo-2-fluorotoluene	51436-99-8	443.15	38.450	2	10258	C7H6Cl2	2,5-dichlorotoluene	19398-61-9	473.15	40.869	1,2
10155	C7H6BrF	5-bromo-2-fluorotoluene	51437-00-4	443.15	38.450	2	10259	C7H6Cl2	2,6-dichlorotoluene	118-69-4	471.15	40.282	1,2
10156	C7H6BrF	2-fluorobenzyl bromide	446-48-0	443.15	38.450	2	10260	C7H6Cl2	3,4-dichlorotoluene	95-75-0	482.05	43.633	1,2
10157	C7H6BrF	3-fluorobenzyl bromide	456-41-7	443.15	38.450	2	10261	C7H6Cl2	3,5-dichlorotoluene	25186-47-4	474.65	41.317	1,2
10158	C7H6BrF	4-fluorobenzyl bromide	459-46-1	443.15	38.450	2	10264	C7H6Cl2O	2,4-dichloro-1-methoxybenzene	553-82-2	505.15	44.379	1,2
10162	C7H6BrI	5-bromo-2-iodotoluene	116632-39-4	535.65	47.320	1,2	10265	C7H6Cl2O	2,4-dichlorobenzenemethanol	1777-82-8	479.08	41.878	2
10163	C7H6BrI	4-iodobenzyl bromide	16004-15-2	535.65	47.320	2	10266	C7H6Cl2O	2,4-dichloro-3-methylphenol	17788-00-0	509.15	44.764	1,2
10167	C7H6BrNO2	2-amino-5-bromobenzoic acid	5794-88-7	538.66	47.611	2	10267	C7H6Cl2O	2,4-dichloro-5-methylphenol	1124-07-8	507.15	44.572	1,2
10168	C7H6BrNO2	1-(bromomethyl)-3-nitrobenzene	3958-57-4	538.66	47.611	2	10268	C7H6Cl2O	2,4-dichloro-6-methylphenol	1570-65-6	479.08	41.878	2
10169	C7H6BrNO2	1-bromo-2-methyl-3-nitrobenzene	55289-35-5	538.66	47.611	2	10269	C7H6Cl2O	2,6-dichloro-3-methylphenol	13481-70-4	510.15	44.860	1,2
10170	C7H6BrNO2	1-bromo-2-methyl-4-nitrobenzene	7149-70-4	538.66	47.611	2	10270	C7H6Cl2O	2,6-dichloro-4-methylphenol	2432-12-4	504.15	44.283	1,2
10171	C7H6BrNO2	1-bromo-3-methyl-2-nitrobenzene	52414-97-8	538.66	47.611	2	10271	C7H6Cl2O	2,5-dichloroanisole	1984-58-3	479.08	41.878	2
10172	C7H6BrNO2	1-bromo-3-methyl-5-nitrobenzene	52488-28-5	542.65	47.997	1,2	10272	C7H6Cl2O	2,3-dichloroanisole	1984-59-4	479.08	41.878	2
10173	C7H6BrNO2	2-bromo-1-methyl-3-nitrobenzene	41085-43-2	538.66	47.611	2	10273	C7H6Cl2O	2,6-dichloroanisole	1984-65-2	479.08	41.878	2
10174	C7H6BrNO2	2-bromo-1-methyl-4-nitrobenzene	7745-93-9	538.66	47.611	2	10274	C7H6Cl2O	a,4-dichloroanisole	21151-56-4	395.15	33.908	1,2
10175	C7H6BrNO2	2-bromo-4-methyl-1-nitrobenzene	40385-54-4	542.15	47.948	1,2	10275	C7H6Cl2O	3,4-dichloroanisole	36404-30-5	479.08	41.878	2
10176	C7H6BrNO2	4-bromo-1-methyl-2-nitrobenzene	60956-26-5	529.65	46.740	1,2	10276	C7H6Cl2O	2,6-dichlorobenzyl alcohol	15258-73-8	479.08	41.878	2
10177	C7H6BrNO2	4-bromo-3-nitrotoluene	5326-34-1	538.66	47.611	2	10277	C7H6Cl2O	3,4-dichlorobenzyl alcohol	1805-32-9	422.65	36.505	1,2
10178	C7H6BrNO2	4-nitrobenzyl bromide	100-11-8	538.66	47.611	2	10278	C7H6Cl2O	2,5-dichlorobenzyl alcohol	34145-05-6	479.08	41.878	2
10179	C7H6BrNO2	2-nitrobenzyl bromide	3958-60-9	538.66	47.611	2	10279	C7H6Cl2O	3,5-dichlorobenzyl alcohol	60211-57-6	479.08	41.878	2
10180	C7H6BrNO2	4-bromo-2-methyl-1-nitrobenzene	52414-98-9	540.20	47.760	1,2	10280	C7H6Cl2O	dichlorobenzyl alcohol	12041-76-8	479.08	41.878	2
10184	C7H6Br2	1-bromo-2-(bromomethyl)benzene	3433-80-5	515.15	45.342	2	10281	C7H6Cl2O2	4,5-dichloroguaiacol	2460-49-3	540.15	47.755	1,2
10185	C7H6Br2	1-bromo-4-(bromomethyl)benzene	589-15-1	515.15	45.342	2	10286	C7H6Cl3NO2S	N-methyl-2,4,5-trichlorobenzenesulfonamide	63991-43-5	536.15	47.368	1,2
10186	C7H6Br2	(dibromomethyl)benzene	618-31-5	515.15	45.342	2	10287	C7H6Cl4O2	1,2,3,4-tetrachloro-5,5-dimethoxy-1,3-cyclop*	2207-27-4	382.15	32.687	1,2
10187	C7H6Br2	1,2-dibromo-3-methylbenzene	61563-25-5	515.15	45.342	2	10289	C7H6FI	2-fluoro-4-iodotoluene	39998-81-7	479.15	41.884	1,2
10188	C7H6Br2	1,2-dibromo-4-methylbenzene	60956-23-2	513.15	45.149	1,2	10293	C7H6FNO2	1-fluoro-4-methyl-2-nitrobenzene	446-11-7	514.15	45.245	1,2
10189	C7H6Br2	1,3-dibromo-2-methylbenzene	69321-60-4	519.15	45.727	1,2	10294	C7H6FNO2	2-fluoro-4-methyl-1-nitrobenzene	446-34-4	496.82	43.578	2
10190	C7H6Br2	1,4-dibromo-2-methylbenzene	615-59-8	509.15	44.764	1,2	10295	C7H6FNO2	4-fluoro-1-methyl-2-nitrobenzene	446-10-6	486.15	42.555	1,2
10191	C7H6Br2	2,4-dibromo-1-methylbenzene	31543-75-6	515.15	45.342	2	10296	C7H6FNO2	4-fluoro-2-methyl-1-nitrobenzene	446-33-3	490.15	42.939	1,2
10192	C7H6Br2	3-bromobenzyl bromide	823-78-9	515.15	45.342	2	10297	C7H6FNO2	2-amino-6-fluorobenzoic acid	434-76-4	496.82	43.578	2
10193	C7H6Br2	3,4-dibromotoluene	60956-23-2	515.15	45.342	2	10298	C7H6FNO2	2-amino-5-fluorobenzoic acid	446-08-2	496.82	43.578	2
10194	C7H6Br2	3,5-dibromotoluene	1611-92-3	519.15	45.727	1,2	10299	C7H6FNO2	2-amino-4-fluorobenzoic acid	446-32-2	496.82	43.578	2
10195	C7H6Br2O	2,4-dibromo-6-methylphenol	609-22-3	538.15	47.561	2	10300	C7H6FNO2	2-fluoro-4-nitrotoluene	1427-07-2	496.82	43.578	2
10196	C7H6Br2O	3,5-dibromo-2-methylphenol	14122-00-0	558.15	49.498	1,2	10301	C7H6FNO2	2-fluoro-5-nitrotoluene	455-88-9	496.82	43.578	2
10197	C7H6Br2O	2,4-dibromoanisole	21702-84-1	548.15	48.529	2	10302	C7H6FNO2	2-fluoro-6-nitrotoluene	769-10-8	496.82	43.578	2
10198	C7H6Br2O	2,6-dibromo-4-methylphenol	2432-14-6	548.15	48.529	2	10304	C7H6F2	(difluoromethyl)benzene	455-31-2	413.15	35.606	1,2
10199	C7H6ClF	1-chloro-3-fluoro-2-methylbenzene	443-83-4	427.15	36.931	1,2	10305	C7H6F2	3,4-difluorotoluene	2927-34-6	384.65	32.921	1,2
10200	C7H6ClF	2-chloro-4-fluoro-1-methylbenzene	452-73-3	425.65	36.789	1,2	10306	C7H6F2	2,6-difluorotoluene	443-84-5	385.15	32.968	1,2
10201	C7H6ClF	1-(chloromethyl)-2-fluorobenzene	345-35-7	445.15	38.640	1,2	10307	C7H6F2	2,5-difluorotoluene	452-67-5	390.05	33.429	1,2
10202	C7H6ClF	1-(chloromethyl)-4-fluorobenzene	352-11-4	432.72	37.459	2	10308	C7H6F2	2,4-difluorotoluene	452-76-6	388.15	33.250	1,2
10203	C7H6ClF	3-chloro-4-fluorotoluene	1513-25-3	441.15	38.260	1,2	10310	C7H6F2O	3,4-difluoroanisole	115144-40-6	374.60	31.979	2
10204	C7H6ClF	2-chloro-5-fluorotoluene	33406-96-1	429.65	37.168	1,2	10311	C7H6F2O	2,4-difluoroanisole	452-10-8	424.05	36.637	1,2
10205	C7H6ClF	5-chloro-2-fluorotoluene	452-66-4	431.65	37.358	1,2	10312	C7H6F2O	2,5-difluoroanisole	75626-17-4	374.60	31.979	2
10206	C7H6ClF	4-chloro-2-fluorotoluene	452-75-5	428.65	37.073	1,2	10313	C7H6F2O	3,5-difluoroanisole	93343-10-3	374.60	31.979	2
10207	C7H6ClF	3-fluorobenzyl chloride	456-42-8	432.72	37.459	2	10314	C7H6F2O	2,6-difluorobenzyl alcohol	19064-18-7	374.60	31.979	2
10208	C7H6ClFO	2-chloro-5-fluoroanisole	450-89-5	433.15	37.500	2	10315	C7H6F2O	2,4-difluorobenzyl alcohol	56456-47-4	325.15	27.375	1,2
10209	C7H6ClFO	4-chloro-2-fluoroanisole	452-09-5	433.15	37.500	1,2	10316	C7H6F2O	2,3-difluorobenzyl alcohol	75853-18-8	374.60	31.979	2
10210	C7H6ClFO	4-chloro-3-fluoroanisole	501-29-1	433.15	37.500	2	10317	C7H6F2O	2,5-difluorobenzyl alcohol	75853-20-2	374.60	31.979	2
10211	C7H6ClFO	2-chloro-4-fluorobenzylalcohol	208186-84-4	433.15	37.500	2	10318	C7H6F2O	3,5-difluorobenzyl alcohol	79538-20-8	374.60	31.979	2
10212	C7H6ClFO	2-chloro-6-fluorobenzyl alcohol	56456-50-9	433.15	37.500	2	10319	C7H6F2O	3,4-difluorobenzyl alcohol	85118-05-4	374.60	31.979	2
10214	C7H6ClI	1-chloro-2-iodo-4-methylbenzene	2401-22-1	522.15	46.016	1,2	10320	C7H6F3N	2-(trifluoromethyl)aniline	88-17-5	460.15	40.069	2
10215	C7H6ClI	4-chloro-1-iodo-2-methylbenzene	23399-70-4	513.15	45.149	1,2	10321	C7H6F3N	3-(trifluoromethyl)aniline	98-16-8	460.15	40.069	1,2
10216	C7H6ClI	4-chloro-2-iodo-1-methylbenzene	33184-48-4	515.65	45.390	1,2	10322	C7H6F3N	4-(trifluoromethyl)aniline	455-14-1	460.15	40.069	2
10217	C7H6ClI	3-chloro-2-iodotoluene	5100-98-1	516.98	45.518	2	10326	C7H6F3NS	3-(trifluoromethylthio)aniline	369-68-6	494.15	43.322	1,2
10218	C7H6ClI	2-iodobenzyl chloride	59473-45-9	516.98	45.518	2	10327	C7H6F3NS	4-(trifluoromethylthio)aniline	372-16-7	494.15	43.322	2
10222	C7H6ClNO2	5-amino-2-chlorobenzoic acid	89-54-3	523.15	46.113	2	10329	C7H6F6O2	2,2,3,4,4,4-hexafluorobutyl acrylate	54052-90-3	372.05	31.740	2
10223	C7H6ClNO2	1-(chloromethyl)-2-nitrobenzene	612-23-7	523.15	46.113	2	10330	C7H6F6O2	1,1,1,3,3,3-hexafluoroisopropyl methacrylate	3063-94-3	372.05	31.740	1,2
10224	C7H6ClNO2	1-(chloromethyl)-3-nitrobenzene	619-23-8	523.15	46.113	2	10339	C7H6N2	2-aminobenzonitrile	1885-29-6	536.15	47.368	1,2
10225	C7H6ClNO2	1-(chloromethyl)-4-nitrobenzene	100-14-1	523.15	46.113	2	10340	C7H6N2	3-aminobenzonitrile	2237-30-1	562.15	49.886	1,2
10226	C7H6ClNO2	1-chloro-2-methyl-3-nitrobenzene	83-42-1	511.15	44.956	1,2	10341	C7H6N2	1H-benzimidazole	51-17-2	545.90	48.311	2
10227	C7H6ClNO2	1-chloro-2-methyl-4-nitrobenzene	13290-74-9	522.15	46.016	1,2	10342	C7H6N2	1H-indazole	271-44-3	542.15	47.948	1,2
10228	C7H6ClNO2	1-chloro-3-methyl-5-nitrobenzene	16582-38-0	523.15	46.113	2	10343	C7H6N2	4-aminobenzonitrile	873-74-5	545.90	48.311	2
10229	C7H6ClNO2	2-chloro-1-methyl-4-nitrobenzene	121-86-8	533.15	47.078	1,2	10344	C7H6N2	7-azaindole	271-63-6	543.15	48.045	1,2
10230	C7H6ClNO2	2-chloro-4-methyl-1-nitrobenzene	38939-88-7	523.15	46.113	2	10345	C7H6N2	2-cyano-3-methylpyridine	20970-75-6	545.90	48.311	2
10231	C7H6ClNO2	4-chloro-1-methyl-2-nitrobenzene	89-59-8	515.15	45.342	1,2	10346	C7H6N2	imidazo[1,2-a]pyridine	274-76-0	545.90	48.311	2
10232	C7H6ClNO2	4-chloro-2-methyl-1-nitrobenzene	5367-28-2	523.15	46.113	2	10347	C7H6N2	2-pyridylacetonitrile	2739-97-1	545.90	48.311	2
10233	C7H6ClNO2	4-chloro-3-nitrotoluene	89-60-1	534.15	47.175	1,2	10348	C7H6N2	3-pyridylacetonitrile	6443-85-2	545.90	48.311	2
10234	C7H6ClNO2	2-amino-6-chlorobenzoic acid	2148-56-3	523.15	46.113	2	10357	C7H6N2O3	2-nitrobenzamide	610-15-1	590.15	52.610	1,2
10235	C7H6ClNO2	4-amino-2-chlorobenzoic acid	2457-76-3	523.15	46.113	2	10358	C7H6N2O3	3-nitrobenzamide	645-09-0	585.65	52.171	1,2
10236	C7H6ClNO2	3-amino-4-chlorobenzoic acid	2840-28-0	523.15	46.113	2	10359	C7H6N2O3	4-nitrobenzaldoxime	1129-37-9	587.90	52.391	2
10237	C7H6ClNO2	2-amino-5-chlorobenzoic acid	635-21-2	523.15	46.113	2	10360	C7H6N2O3	2-nitrobenzaldoxime	6635-41-2	587.90	52.391	2
10238	C7H6ClNO2	2-amino-4-chlorobenzoic acid	89-77-0	523.15	46.113	2	10361	C7H6N2O3	4-nitrobenzamide	619-80-7	587.90	52.391	2
10239	C7H6ClNO2	2-chloro-6-methyl-3-pyridinecarboxylic acid	30529-70-5	523.15	46.113	2	10363	C7H6N2O4	2,4-dinitrotoluene	121-14-2	590.00	67.115	1,2
10240	C7H6ClNO2	2-chloro-3-nitrotoluene	3970-40-9	523.15	46.113	2	10364	C7H6N2O4	2,5-dinitrotoluene	619-15-8	590.00	63.938	1,2
10252	C7H6Cl2	benzyl dichloride	98-87-3	487.00	41.697	1,2	10365	C7H6N2O4	2,6-dinitrotoluene	606-20-2	558.00	60.355	1,2
10253	C7H6Cl2	2,4-dichlorotoluene	95-73-8	474.25	49.981	1,2	10366	C7H6N2O4	3,4-dinitrotoluene	610-39-9	610.00	66.027	1,2
10254	C7H6Cl2	1-chloro-2-(chloromethyl)benzene	611-19-8	490.15	46.390	1,2	10367	C7H6N2O4	3,5-dinitrotoluene	618-85-9	588.00	59.140	1,2
10255	C7H6Cl2	1-chloro-3-(chloromethyl)benzene	620-20-2	489.15	46.036	1,2	10368	C7H6N2O4	2-amino-3-nitrobenzoic acid	606-18-8	584.86	52.094	2
10256	C7H6Cl2	1-chloro-4-(chloromethyl)benzene	104-83-6	496.15	48.599	1,2	10369	C7H6N2O4	1-methyl-2,3-dinitrobenzene	602-01-7	584.86	52.094	2
10257	C7H6Cl2	2,3-dichlorotoluene	32768-54-0	480.65	43.181	1,2	10370	C7H6N2O4	5-amino-2-nitrobenzoic acid	13280-60-9	584.86	52.094	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
10371	C7H6N2O4	4-amino-3-nitrobenzoic acid	1588-83-6	584.86	52.094	2	10517	C7H7ClO	2-chloro-4-methylphenol	6640-27-3	468.65	40.880	1,2
10372	C7H6N2O4	2-amino-5-nitrobenzoic acid	616-79-5	584.86	52.094	2	10518	C7H7ClO	2-chloro-5-methylphenol	615-74-7	469.15	40.928	1,2
10373	C7H6N2O4	3-amino-5-nitrobenzoic acid	618-84-8	584.86	52.094	2	10519	C7H7ClO	2-chloro-6-methylphenol	87-64-9	462.15	40.260	1,2
10374	C7H6N2O4	dinitrotoluene	25321-14-6	573.15	50.955	1,2	10520	C7H7ClO	3-chloro-2-methylphenol	3260-87-5	498.15	43.706	1,2
10375	C7H6N2O4	4-nitroanthranilic acid	619-17-0	584.86	52.094	2	10521	C7H7ClO	3-chloro-4-methylphenol	615-62-3	501.15	43.995	1,2
10376	C7H6N2O4	3-(5-nitro-2-furyl)-2-propenamide	710-25-8	584.86	52.094	2	10522	C7H7ClO	4-chloro-2-methylphenol	1570-64-5	496.15	43.514	1,2
10400	C7H6N4S	1,1'-thiocarbonyldiimidazole	6160-65-2	615.15	55.051	2	10523	C7H7ClO	4-chloro-3-methylphenol	59-50-7	508.15	44.668	1,2
10401	C7H6N4S	1-phenyltetrazole-5-thiol	86-93-1	615.15	55.051	1,2	10524	C7H7ClO	3-chlorobenzyl alcohol	873-63-2	510.15	44.860	1,2
10404	C7H6O	benzaldehyde	100-52-7	451.90	42.130	1,2	10525	C7H7ClO	5-chloro-o-cresol	5306-98-9	435.65	37.737	1,2
10405	C7H6O	2,4,6-cycloheptatrien-1-one	539-80-0	451.90	39.282	2	10526	C7H7ClO2	4-chloro-2-methoxyphenol	16766-30-6	514.15	45.245	1,2
10408	C7H6O2	benzoic acid	65-85-0	522.40	50.625	1,2	10527	C7H7ClO2	2-chloro-4-methoxyphenol	18113-03-6	514.15	45.245	2
10409	C7H6O2	p-hydroxybenzaldehyde	123-08-0	583.15	61.360	1,2	10534	C7H7ClO3	ethyl 5-chloro-2-furancarboxylate	4301-39-7	490.15	42.939	1,2
10410	C7H6O2	salicylaldehyde	90-02-8	469.65	51.005	1,2	10541	C7H7ClS	4-chlorobenzenemethanethiol	6258-66-8	441.65	38.307	2
10411	C7H6O2	1,3-benzodioxole	274-09-9	445.65	38.688	1,2	10542	C7H7ClS	chloromethyl phenyl sulfide	7205-91-6	441.65	38.307	2
10412	C7H6O2	3-(2-furanyl)-2-propenal	623-30-3	506.80	44.538	2	10543	C7H7ClS	4-chlorophenyl methyl sulfide	123-09-1	441.65	38.307	1,2
10413	C7H6O2	trans-3-(2-furanyl)-2-propenal	39511-08-5	506.80	44.538	2	10551	C7H7Cl3Si	trichloro(2-methylphenyl)silane	13835-81-9	499.85	43.870	1,2
10414	C7H6O2	3-hydroxybenzaldehyde	100-83-4	513.15	45.149	1,2	10552	C7H7Cl3Si	trichloro(3-methylphenyl)silane	13688-75-0	499.65	43.850	1,2
10415	C7H6O2	2-hydroxy-2,4,6-cycloheptatrien-1-one	533-75-5	506.80	44.538	2	10553	C7H7Cl3Si	benzyltrichlorosilane	701-35-9	492.10	43.126	1,2
10416	C7H6O2	2-methyl-2,5-cyclohexadiene-1,4-dione	553-97-9	506.80	44.538	2	10555	C7H7F	p-fluorotoluene	352-32-9	389.76	38.710	1,2
10417	C7H6O2	phenyl formate	1864-94-4	506.80	44.538	2	10556	C7H7F	(fluoromethyl)benzene	350-50-5	413.15	42.848	1,2
10420	C7H6O3	salicylic acid	69-72-7	529.00	56.271	1,2	10557	C7H7F	o-fluorotoluene	95-52-3	388.15	34.004	1,2
10421	C7H6O3	benzenecarboperoxoic acid	93-59-4	482.36	42.192	2	10558	C7H7F	m-fluorotoluene	352-70-5	388.15	34.004	1,2
10422	C7H6O3	2,3-dihydroxybenzaldehyde	24677-78-9	508.15	44.668	1,2	10559	C7H7FN2O	p-fluoro-N-methyl-N-nitrosoaniline	937-25-7	377.15	32.218	1,2
10423	C7H6O3	2,4-dihydroxybenzaldehyde	95-01-2	482.36	42.192	2	10560	C7H7FO	3-fluorobenzenemethanol	456-47-3	474.15	41.406	1,2
10424	C7H6O3	3,4-dihydroxybenzaldehyde	139-85-5	482.36	42.192	2	10561	C7H7FO	4-fluorobenzenemethanol	459-56-3	483.15	42.268	1,2
10425	C7H6O3	3-(2-furanyl)-2-propenoic acid	539-47-9	559.15	49.595	1,2	10562	C7H7FO	1-fluoro-2-methoxybenzene	321-28-8	427.65	36.978	1,2
10426	C7H6O3	m-hydroxybenzoic acid	99-06-9	482.36	42.192	2	10563	C7H7FO	1-fluoro-3-methoxybenzene	456-49-5	432.15	37.405	1,2
10428	C7H6O3	1-cyclopentene-1,2-dicarboxylic anhydride	3205-94-5	482.36	42.192	2	10564	C7H7FO	1-fluoro-4-methoxybenzene	459-60-9	430.15	37.215	1,2
10429	C7H6O3	2,5-dihydroxybenzaldehyde	1194-98-5	333.15	28.115	1,2	10565	C7H7FO	2-fluorobenzyl alcohol	446-51-5	472.60	41.258	1,2
10430	C7H6O3	sesamol	533-31-3	482.36	42.192	2	10566	C7H7FO	4-fluoro-3-methylphenol	452-70-0	452.29	39.319	2
10431	C7H6O3	3-hydroxytropolone	34777-04-03	482.36	42.192	2	10567	C7H7FO	4-fluoro-2-methylphenol	452-72-2	452.29	39.319	2
10432	C7H6O4	2,3-dihydroxybenzoic acid	303-38-8	515.65	45.390	2	10568	C7H7FO	2-fluoro-5-methylphenol	63762-79-8	446.15	38.735	1,2
10433	C7H6O4	2,4-dihydroxybenzoic acid	89-86-1	515.65	45.390	2	10573	C7H7FS	4-fluorothioanisole	371-15-3	457.65	39.830	1,2
10434	C7H6O4	2,5-dihydroxybenzoic acid	490-79-9	515.65	45.390	2	10574	C7H7F2N	2,6-difluorobenzylamine	69385-30-4	447.15	38.830	1,2
10435	C7H6O4	3,4-dihydroxybenzoic acid	99-50-3	515.65	45.390	2	10575	C7H7F2N	2,4-difluorobenzylamine	72235-52-0	452.15	39.306	2
10436	C7H6O4	3,5-dihydroxybenzoic acid	99-10-5	515.65	45.390	2	10576	C7H7F2N	3,4-difluorobenzylamine	72235-53-1	452.15	39.306	2
10437	C7H6O4	4-hydroxy-4H-furo[3,2-c]pyran-2(6H)-one	149-29-1	515.65	45.390	2	10577	C7H7F2N	2,5-difluorobenzylamine	85118-06-5	452.15	39.306	2
10438	C7H6O4	2,6-dihydroxybenzoic acid	303-07-1	515.65	45.390	2	10578	C7H7F2N	3,5-difluorobenzylamine	90390-27-5	457.15	39.783	1,2
10439	C7H6O4	methyl coumalate	6018-41-3	515.65	45.390	2	10579	C7H7F2NO	2-(difluoromethoxy)aniline	22236-04-0	478.15	41.789	1,2
10440	C7H6O4	methyl 2-oxo-2H-pyran-3-carboxylate	25991-27-9	515.65	45.390	2	10580	C7H7F2NO	4-(difluoromethoxy)aniline	22236-10-8	504.15	44.283	1,2
10441	C7H6O4	3,4,5-trihydroxybenzaldehyde	13677-79-7	515.65	45.390	2	10585	C7H7F3N2O2S	2-amino-4-(trifluoromethyl)-5-thiazolecarbox*	344-72-9	354.55	30.105	1,2
10442	C7H6O4	2,3,4-trihydroxybenzaldehyde	2144-08-3	515.65	45.390	2	10587	C7H7F7O2	isopropyl heptafluorobutanoate	425-23-0	379.15	32.405	1,2
10443	C7H6O4	2,4,5-trihydroxybenzaldehyde	35094-87-2	515.65	45.390	2	10588	C7H7HgI	iodo(p-tolyl)mercury	26037-72-9	375.35	32.049	1,2
10444	C7H6O4	2,4,6-trihydroxybenzaldehyde	487-70-7	515.65	45.390	2	10589	C7H7I	1-iodo-2-methylbenzene	615-37-2	484.65	42.411	1,2
10445	C7H6O4	terreic acid	121-40-4	515.65	45.390	1,2	10590	C7H7I	1-iodo-3-methylbenzene	625-95-6	486.15	42.555	1,2
10455	C7H7BF2	difluoro(4-methylphenyl)borane	768-39-8	401.15	34.474	1,2	10591	C7H7I	(iodomethyl)benzene	620-05-3	484.98	42.443	2
10462	C7H7Br	p-bromotoluene	106-38-7	457.50	40.608	1,2	10592	C7H7I	p-iodotoluene	624-31-7	484.15	42.363	1,2
10463	C7H7Br	(bromomethyl)benzene	100-39-0	474.15	47.326	1,2	10593	C7H7IO	2-iodo-4-methylphenol	16188-57-1	514.32	45.261	2
10464	C7H7Br	o-bromotoluene	95-46-5	454.85	40.911	1,2	10594	C7H7IO	2-iodo-6-methylphenol	24885-45-8	514.32	45.261	2
10465	C7H7Br	m-bromotoluene	591-17-3	456.85	41.517	1,2	10595	C7H7IO	2-iodobenzenemethanol	5159-41-1	514.32	45.261	2
10469	C7H7BrN2O	(4-bromophenyl)urea	1967-25-5	533.15	47.078	1,2	10596	C7H7IO	1-iodo-2-methoxybenzene	529-28-2	514.15	45.245	1,2
10470	C7H7BrN2O	methyl-4-bromobenzenediazoate	67880-26-6	399.45	34.313	1,2	10597	C7H7IO	1-iodo-4-methoxybenzene	696-62-8	511.15	44.956	1,2
10474	C7H7BrO	o-bromoanisole	578-57-4	489.15	42.843	1,2	10598	C7H7IO	3-iodoanisole	766-85-8	517.65	45.583	1,2
10475	C7H7BrO	m-bromoanisole	2398-37-0	484.15	42.363	1,2	10599	C7H7IO	3-iodobenzyl alcohol	57455-06-8	514.32	45.261	2
10476	C7H7BrO	p-bromoanisole	104-92-7	488.15	42.747	1,2	10600	C7H7IO	4-iodo-2-methylphenol	60577-30-2	514.32	45.261	2
10477	C7H7BrO	2-bromo-4-methylphenol	6627-55-0	486.65	42.603	1,2	10601	C7H7IO	4-iodosyltoluene	69180-59-2	514.32	45.261	2
10478	C7H7BrO	2-bromo-5-methylphenol	14847-51-9	482.15	42.172	1,2	10602	C7H7IO2	4-iodyl toluene	16825-72-2	340.15	28.765	1,2
10479	C7H7BrO	3-bromo-2-methylphenol	7766-23-6	493.94	43.302	2	10603	C7H7IO3	4-iodylanisole	16825-74-4	324.15	27.282	1,2
10480	C7H7BrO	3-bromo-4-methylphenol	60710-39-6	519.15	45.727	1,2	10605	C7H7I3N2	4-toluenediazonium triiodide	68596-94-1	307.15	25.714	1,2
10481	C7H7BrO	3-bromo-5-methylphenol	74204-00-5	493.94	43.302	2	10606	C7H7IrO4	dicarbonylacetylacetonato iridium	14023-80-4	373.15	31.843	1,2
10482	C7H7BrO	4-bromo-2-methylphenol	2362-12-1	508.15	44.668	1,2	10607	C7H7N	2-vinylpyridine	100-69-6	432.65	37.453	1,2
10483	C7H7BrO	4-bromo-3-methylphenol	14472-14-1	493.94	43.302	2	10608	C7H7N	3-vinylpyridine	1121-55-7	435.15	37.690	1,2
10484	C7H7BrO	3-bromobenzyl alcohol	15852-73-0	493.94	43.302	2	10609	C7H7N	4-vinylpyridine	100-43-6	433.90	37.571	2
10485	C7H7BrO	2-bromobenzyl alcohol	18982-54-2	493.94	43.302	2	10610	C7H7N	vinyl pyridine	1337-81-1	433.90	37.571	2
10486	C7H7BrO	4-bromobenzyl alcohol	873-75-6	493.94	43.302	2	10611	C7H7NO	formanilide	103-70-8	544.15	55.556	1,2
10488	C7H7BrO3	ethyl 5-bromo-3-furoate	32460-20-1	508.15	44.668	1,2	10612	C7H7NO	benzaldehyde oxime, (z)-	622-32-2	473.15	41.310	1,2
10490	C7H7BrS	4-bromothioanisole	104-95-0	528.05	46.586	1,2	10613	C7H7NO	trans-benzaldehyde oxime	622-31-1	491.87	43.103	2
10491	C7H7BrS	2-bromothioanisole	19614-16-5	528.05	46.586	2	10614	C7H7NO	benzamide	55-21-0	563.15	49.984	1,2
10492	C7H7Cl	benzyl chloride	100-44-7	452.55	40.578	1,2	10615	C7H7NO	1-(2-pyridinyl)ethanone	1122-62-9	465.15	40.546	1,2
10493	C7H7Cl	o-chlorotoluene	95-49-8	432.30	38.350	1,2	10616	C7H7NO	1-(3-pyridinyl)ethanone	350-03-8	493.15	43.226	1,2
10494	C7H7Cl	p-chlorotoluene	106-43-4	435.65	38.947	1,2	10617	C7H7NO	1-(4-pyridinyl)ethanone	1122-54-9	485.15	42.459	1,2
10495	C7H7Cl	m-chlorotoluene	108-41-8	435.45	38.164	1,2	10618	C7H7NO	3-acetylpyridine	350-03-8	493.15	43.226	1,2
10507	C7H7ClN2S	(2-chlorophenyl)thiourea	5344-82-1	523.15	46.113	2	10619	C7H7NO	2-aminobenzaldehyde	529-23-7	491.87	43.103	2
10508	C7H7ClN2S	4-chlorophenyl thiourea	3696-23-9	523.15	46.113	1,2	10620	C7H7NO	syn-benzaldehyde oxime	932-90-1	491.87	43.103	2
10511	C7H7ClO	o-chloroanisole	766-51-8	471.65	41.167	1,2	10621	C7H7NO	6-methyl-2-pyridinecarboxaldehyde	1122-72-1	491.87	43.103	2
10512	C7H7ClO	m-chloroanisole	2845-89-8	466.65	40.689	1,2	10622	C7H7NO	2-nitrosotoluene	611-23-4	491.87	43.103	2
10513	C7H7ClO	p-chloroanisole	623-12-1	470.65	41.071	1,2	10623	C7H7NO	4-aminobenzaldehyde	556-18-3	491.87	43.103	2
10514	C7H7ClO	2-chlorobenzenemethanol	17849-38-6	503.15	44.187	1,2	10624	C7H7NO	2-amino-2,4,6-cycloheptatrien-1-one	6264-93-3	417.90	36.055	1,2
10515	C7H7ClO	4-chlorobenzenemethanol	873-76-7	508.15	44.668	1,2	10625	C7H7NO	1-pyridinylethanone	30440-88-1	491.87	43.103	2
10516	C7H7ClO	2-chloro-3-methylphenol	608-26-4	503.15	44.187	1,2	10626	C7H7NO2	m-nitrotoluene	99-08-1	505.00	45.510	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
10627	C7H7NO2	o-nitrotoluene	88-72-2	495.64	46.010	1,2	10738	C7H8BrN	4-bromo-2-methylaniline	583-75-5	513.15	45.149	1,2
10628	C7H7NO2	p-nitrotoluene	99-99-0	511.65	46.640	1,2	10739	C7H8BrN	4-bromo-3-methylaniline	6933-10-4	513.15	45.149	1,2
10629	C7H7NO2	aniline-2-carboxylic acid	118-92-3	470.13	41.022	2	10740	C7H8BrN	5-bromo-2-methylaniline	39478-78-9	528.15	46.595	2
10630	C7H7NO2	aniline-3-carboxylic acid	99-05-8	470.13	41.022	2	10741	C7H8BrN	3-bromo-2-methylaniline	55289-36-6	524.20	46.214	1,2
10631	C7H7NO2	aniline-4-carboxylic acid	150-13-0	470.13	41.022	2	10742	C7H8BrNO2	brocresine	555-65-7	417.65	36.032	1,2
10632	C7H7NO2	benzyl nitrite	935-05-7	470.13	41.022	2	10743	C7H8ClN	2-chloro-4-methylaniline	615-65-6	493.15	43.226	1,2
10633	C7H7NO2	2-hydroxybenzamide	65-45-2	470.13	41.022	2	10744	C7H8ClN	2-chloro-5-methylaniline	95-81-8	502.15	44.091	1,2
10634	C7H7NO2	methyl 3-pyridinecarboxylate	93-60-7	477.15	41.693	1,2	10745	C7H8ClN	2-chloro-N-methylaniline	932-32-1	491.15	43.034	1,2
10635	C7H7NO2	methyl 4-pyridinecarboxylate	2459-09-8	481.15	42.076	1,2	10746	C7H8ClN	3-chloro-2-methylaniline	87-60-5	518.15	45.631	1,2
10636	C7H7NO2	(nitromethyl)benzene	622-42-4	499.15	43.802	1,2	10747	C7H8ClN	3-chloro-4-methylaniline	95-74-9	516.15	45.438	1,2
10637	C7H7NO2	salicylaldoxime	94-67-7	470.13	41.022	2	10748	C7H8ClN	4-chloro-2-methylaniline	95-69-2	517.15	45.534	1,2
10638	C7H7NO2	trigonelline	535-83-1	470.13	41.022	2	10749	C7H8ClN	4-chloro-3-methylaniline	7149-75-9	514.15	45.245	1,2
10639	C7H7NO2	3-acetoxypyridine	17747-43-2	470.13	41.022	2	10750	C7H8ClN	4-chloro-N-methylaniline	932-96-7	513.15	45.149	1,2
10640	C7H7NO2	benzohydroxamic acid	495-18-1	470.13	41.022	2	10751	C7H8ClN	5-chloro-2-methylaniline	95-79-4	512.15	45.053	1,2
10641	C7H7NO2	3,4-(methylenedioxy)aniline	14268-66-7	470.13	41.022	2	10752	C7H8ClN	4-chlorobenzylamine	104-86-9	488.15	42.747	1,2
10643	C7H7NO2	nitrotoluene	1321-12-6	511.15	44.956	1,2	10753	C7H8ClN	3-chlorobenzylamine	4152-90-3	504.88	44.353	2
10644	C7H7NO2	phenyl carbamate	622-46-8	470.13	41.022	2	10754	C7H8ClN	2-chlorobenzylamine	89-97-4	504.88	44.353	2
10645	C7H7NO2	picolinic acid, methyl ester	2459-07-6	389.15	33.344	1,2	10755	C7H8ClN	3-chloro-N-methylaniline	7006-52-2	504.88	44.353	2
10646	C7H7NO2	4-aminotropolone	698-49-7	470.13	41.022	2	10756	C7H8ClN	2-chloro-6-methylaniline	87-63-8	488.15	42.747	1,2
10647	C7H7NO2	5-aminotropolone	7021-46-7	361.15	30.721	1,2	10757	C7H8ClNO	2-chloro-5-methoxyaniline	2401-24-3	473.15	41.310	2
10651	C7H7NO2S2	N-methyl-3,6-dithia-3,4,5,6-tetrahydrophthal*	34419-05-1	476.65	41.645	1,2	10758	C7H8ClNO	4-chloro-2-methoxyaniline	93-50-5	533.15	47.078	1,2
10652	C7H7NO3	2-methyl-4-nitrophenol	99-53-6	514.86	45.314	2	10759	C7H8ClNO	5-chloro-2-methoxyaniline	95-03-4	473.15	41.310	2
10653	C7H7NO3	2-methyl-6-nitrophenol	13073-29-5	514.86	45.314	2	10760	C7H8ClNO	3-chloroanisidine	5345-54-0	473.15	41.310	2
10654	C7H7NO3	4-methyl-2-nitrophenol	119-33-5	514.86	45.314	2	10761	C7H8ClNO	2-chloro-5-methylphenylhydroxylamine	65039-20-5	413.15	35.606	1,2
10655	C7H7NO3	3-nitroanisole	555-03-3	531.15	46.885	1,2	10763	C7H8ClNO3S	6-amino-4-chloro-m-toluenesulfonic acid	88-51-7	436.15	37.785	1,2
10656	C7H7NO3	4-nitroanisole	100-17-4	547.15	48.432	1,2	10766	C7H8Cl2Si	dichloromethylphenylsilane	149-74-6	479.65	41.932	1,2
10657	C7H7NO3	2-nitrobenzenemethanol	612-25-9	543.15	48.045	1,2	10767	C7H8FN	4-fluoro-2-methylaniline	452-71-1	408.65	35.181	2
10658	C7H7NO3	3-nitrobenzenemethanol	619-25-0	514.86	45.314	2	10768	C7H8FN	3-fluorobenzylamine	100-82-3	361.15	30.721	1,2
10659	C7H7NO3	4-nitrobenzenemethanol	619-73-8	528.15	46.595	2	10769	C7H8FN	4-fluorobenzylamine	140-75-0	456.15	39.687	1,2
10660	C7H7NO3	o-nitroanisole	91-23-6	546.15	55.482	1,2	10770	C7H8FN	2-fluorobenzylamine	89-99-6	408.65	35.181	2
10661	C7H7NO3	4-amino-2-hydroxybenzoic acid	65-49-6	514.86	45.314	2	10771	C7H8FN	5-fluoro-2-methylaniline	367-29-3	408.65	35.181	2
10663	C7H7NO3	N,2-dihydroxybenzamide	89-73-6	514.86	45.314	2	10772	C7H8FN	3-fluoro-2-methylaniline	443-86-7	408.65	35.181	2
10664	C7H7NO3	3-amino-4-hydroxybenzoic acid	1571-72-8	514.86	45.314	2	10773	C7H8FN	3-fluoro-4-methylaniline	452-77-7	408.65	35.181	2
10665	C7H7NO3	3-aminosalicylic acid	570-23-0	514.86	45.314	2	10774	C7H8FN	2-fluoro-4-methylaniline	452-80-2	408.65	35.181	2
10666	C7H7NO3	5-hydroxyanthranilic acid	394-31-0	514.86	45.314	2	10775	C7H8FN	2-fluoro-5-methylaniline	452-84-6	408.65	35.181	2
10667	C7H7NO3	2-hydroxy-6-methylpyridine-3-carboxylic acid	38116-61-9	514.86	45.314	2	10776	C7H8FN	4-fluoro-N-methylaniline	459-59-6	408.65	35.181	2
10668	C7H7NO3	4-methyl-3-nitrophenol	2042-14-0	514.86	45.314	2	10780	C7H8F4O2	2,2,3,3-tetrafluoropropyl methacrylate	45102-52-1	397.15	34.097	1,2
10669	C7H7NO3	3-methyl-4-nitrophenol	2581-34-2	514.86	45.314	2	10782	C7H8HgN2O	phenylmercury urea	2279-64-3	346.15	29.323	1,2
10670	C7H7NO3	3-methyl-2-nitrophenol	4920-77-8	514.86	45.314	2	10783	C7H8IN	2-iodo-4-methylaniline	29289-13-2	546.15	48.336	2
10671	C7H7NO3	2-methyl-3-nitrophenol	5460-31-1	514.86	45.314	2	10784	C7H8IN	5-iodo-2-methylaniline	83863-33-6	546.15	48.336	2
10672	C7H7NO3	5-methyl-2-nitrophenol	700-38-9	514.86	45.314	2	10785	C7H8IN	3-iodobenzylamine	696-40-2	546.15	48.336	2
10673	C7H7NO3	2-amino-3-hydroxybenzoic acid	548-93-6	514.86	45.314	2	10786	C7H8IN	4-iodo-3-methylaniline	4949-69-3	546.15	48.336	2
10674	C7H7NO3	benzyl nitrate	15285-42-4	514.86	45.314	2	10791	C7H8N2O	2-aminobenzamide	88-68-6	502.65	44.139	2
10675	C7H7NO3	4-nitrobenzyl alcohol	619-73-8	514.86	45.314	2	10792	C7H8N2O	benzohydrazide	613-94-5	540.15	47.755	2
10685	C7H7NO5S	methyl 4-nitrobenzenesulfonate	6214-20-6	773.15	70.660	2	10793	C7H8N2O	N-methyl-N-nitrosoaniline	614-00-6	498.15	43.706	2
10686	C7H7NO5S	2-methyl-5-nitrobenzenesulfonic acid	121-03-9	773.15	70.660	1,2	10794	C7H8N2O	phenylurea	64-10-8	511.15	44.956	1,2
10687	C7H7NO5S	4-methyl-3-nitrobenzene sulfonic acid	97-06-3	773.15	70.660	1,2	10795	C7H8N2O	N-3-pyridinylacetamide	5867-45-8	599.65	53.536	1,2
10689	C7H7N3	(azidomethyl)benzene	622-79-7	478.53	41.825	2	10796	C7H8N2O	4-aminobenzamide	2835-68-9	502.65	44.139	2
10690	C7H7N3	1-azido-2-methylbenzene	31656-92-5	478.53	41.825	2	10797	C7H8N2O	3-aminobenzamide	3544-24-9	502.65	44.139	2
10691	C7H7N3	1-azido-4-methylbenzene	2101-86-2	453.15	39.402	2	10798	C7H8N2O	(1-ethoxyethylidene)malononitrile	5417-82-3	502.65	44.139	2
10692	C7H7N3	1-methyl-1H-benzotriazole	13351-73-0	543.65	48.094	1,2	10799	C7H8N2O	N-methylnicotinamide	114-33-0	502.65	44.139	2
10694	C7H7N3	5-aminoindazole	19335-11-6	478.53	41.825	2	10800	C7H8N2O	1-(3-methylpyrazinyl)ethan-1-one	23787-80-6	502.65	44.139	2
10695	C7H7N3	5-methyl-1H-benzotriazole	136-85-6	484.15	42.363	1,2	10801	C7H8N2O	N-methyl-N-(2-pyridyl)formamide	67242-59-5	502.65	44.139	2
10696	C7H7N3	4(or 5)-methylbenzotriazole	29385-43-1	433.15	37.500	1,2	10802	C7H8N2O	salicylaldehyde hydrazone	45744-18-1	502.65	44.139	2
10697	C7H7N3	1-azido-3-methylbenzene	4113-72-8	478.53	41.825	2	10803	C7H8N2O	4-acetamidopyridine	5221-42-1	502.65	44.139	2
10698	C7H7N3OS	4-toluenesulfinyl azide	40560-76-7	312.15	26.174	1,2	10804	C7H8N2O	2,5-diaminotropone	36039-40-4	364.15	31.001	1,2
10703	C7H7N3O3	methyl-2-nitrobenzene diazoate	62375-91-1	334.15	28.208	2	10805	C7H8N2O	methyl benzenediazoate	66217-76-3	502.65	44.139	2
10704	C7H7N3O3	2-(p-nitrophenyl)hydrazide formic acid	6632-39-9	334.15	28.208	1,2	10806	C7H8N2O2	2,3-diaminobenzoic acid	603-81-6	525.65	46.354	2
10706	C7H7N3O4	2-amino-4-methyl-5-nitronicotinic acid	---	342.15	28.951	2	10807	C7H8N2O2	2,4-diaminobenzoic acid	611-03-0	473.15	41.310	2
10707	C7H7N3O4	2-amino-6-methyl-5-nitronicotinic acid	---	342.15	28.951	2	10808	C7H8N2O2	3,5-diaminobenzoic acid	535-87-5	525.65	46.354	2
10708	C7H7N3O4	N-methyl-2,4-dinitrobenzenamine	2044-88-4	342.15	28.951	2	10809	C7H8N2O2	2-methyl-3-nitroaniline	603-83-8	578.15	51.441	1,2
10709	C7H7N3O4	2-amino-4,6-dinitrotoluene	35572-78-2	342.15	28.951	2	10810	C7H8N2O2	2-methyl-4-nitroaniline	99-52-5	525.65	46.354	2
10710	C7H7N3O4	2,6-dinitro-p-toluidine	6393-42-6	342.15	28.951	1,2	10811	C7H8N2O2	2-methyl-5-nitroaniline	99-55-8	525.65	46.354	2
10711	C7H7N3O4	5-nitro-2-furaldehyde acetylhydrazone	67-28-7	342.15	28.951	2	10812	C7H8N2O2	2-methyl-6-nitroaniline	570-24-1	525.65	46.354	2
10719	C7H7N7O4S2	4-methylaminobenzene-1,3-bis(sulfonyl azide)	87425-02-3	356.15	30.254	1,2	10813	C7H8N2O2	4-methyl-2-nitroaniline	89-62-3	525.65	46.354	2
10720	C7H7Na	benzyl sodium	1121-53-5	415.15	35.795	1,2	10814	C7H8N2O2	N-methyl-2-nitroaniline	612-28-2	525.65	46.354	2
10724	C7H8	1,3,5-cycloheptatriene	544-25-2	388.65	35.317	1,2	10815	C7H8N2O2	N-methyl-4-nitroaniline	100-15-2	525.65	46.354	2
10725	C7H8	toluene	108-88-3	383.78	33.594	1,2	10816	C7H8N2O2	2-amino-6-methylnicotinic acid	---	525.65	46.354	2
10726	C7H8	5-ethylidene-1,3-cyclopentadiene	3839-50-7	380.68	32.548	2	10817	C7H8N2O2	2-amino-4-methylnicotinic acid	38076-82-3	525.65	46.354	2
10727	C7H8	1,6-heptadien-3-yne	5150-80-1	383.15	32.780	1,2	10818	C7H8N2O2	3,4-diaminobenzoic acid	619-05-6	525.65	46.354	2
10728	C7H8	1,5-heptadiyne	764-56-7	380.68	32.548	2	10819	C7H8N2O2	4-hydrazinobenzoic acid	619-67-0	525.65	46.354	2
10729	C7H8	1,6-heptadiyne	2396-63-6	385.15	32.968	1,2	10821	C7H8N2O2	1-(3-hydroxyphenyl)urea	701-82-6	525.65	46.354	2
10730	C7H8	2,5-norbornadiene	121-46-0	362.65	30.861	1,2	10822	C7H8N2O2	4-methyl-3-nitroaniline	119-32-4	525.65	46.354	2
10731	C7H8	quadricyclane	278-06-8	380.68	32.548	2	10823	C7H8N2O2	salicylhydrazide	936-02-7	525.65	46.354	2
10732	C7H8	methyl divinyl acetylene	820-54-2	380.68	32.548	2	10825	C7H8N2O3	2-methoxy-5-nitroaniline	99-59-2	463.98	40.434	2
10733	C7H8AsClO2	(4-chlorophenyl)methylarsinic acid	73791-42-1	458.15	39.878	1,2	10826	C7H8N2O3	3-methoxy-4-nitroaniline	16292-88-9	463.98	40.434	2
10734	C7H8BrN	4-bromobenzenemethanamine	3959-07-7	523.15	46.113	1,2	10827	C7H8N2O3	5-methoxy-2-nitroaniline	16133-49-6	463.98	40.434	2
10735	C7H8BrN	2-bromo-4-methylaniline	583-68-6	513.15	45.149	1,2	10828	C7H8N2O3	3-ethoxy-2-nitropyridine	74037-50-6	463.98	40.434	2
10736	C7H8BrN	2-bromo-5-methylaniline	53078-85-6	520.51	45.859	2	10829	C7H8N2O3	4-methoxy-2-nitroaniline	96-96-8	463.98	40.434	2
10737	C7H8BrN	3-bromo-4-methylaniline	7745-91-7	528.65	46.644	1,2	10830	C7H8N2O3	2-methoxy-4-nitroaniline	97-52-9	463.98	40.434	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
10831	C7H8N2O3	2,3-dimethyl-4-nitropyridine-1-oxide	37699-43-7	463.98	40.434	2	10939	C7H9Br	nortricyclyl bromide	695-02-3	350.15	29.695	1,2
10832	C7H8N2O3	2,5-dimethyl-4-nitropyridine-1-oxide	21816-42-2	412.70	35.564	1,2	10940	C7H9Cl	5-chloro-5-methyl-1-hexen-3-yne	819-44-3	413.41	35.630	2
10833	C7H8N2O3	3,5-dimethyl-4-nitropyridine 1-oxide	14248-66-9	515.25	45.351	1,2	10945	C7H9ClO	4,4-dimethyl-2-pentynoyl chloride	52324-03-5	409.90	35.299	2
10834	C7H8N2O3	3-ethyl-4-nitropyridine-1-oxide	35363-12-3	463.98	40.434	2	10946	C7H9ClO	3-chloro-2-norbornanone	30860-22-1	373.15	31.843	1,2
10847	C7H8N4O7	ammonium-3-methyl-2,4,6-trinitrophenoxide	58696-86-9	450.15	39.116	1,2	10947	C7H9ClO	ethchlorvynol	113-18-8	446.65	38.783	1,2
10848	C7H8N4S	9-ethyl-6-mercaptopurine	5427-20-3	508.15	44.668	2	10950	C7H9F3O2	g-methyl-a-(trifluoromethyl)-g-valerolactone	164929-15-1	489.15	42.843	1,2
10849	C7H8N4S	picoline-2-aldehyde thiosemicarbazone	3608-75-1	508.15	44.668	2	10951	C7H9F3O2	1,1,1-trifluoro-5-methyl-2,4-hexanedione	30984-28-2	489.15	42.843	2
10850	C7H8O	anisole	100-66-3	426.73	39.307	1,2	10953	C7H9N	benzylamine	100-46-9	457.65	43.871	1,2
10851	C7H8O	benzyl alcohol	100-51-6	477.85	51.660	1,2	10954	C7H9N	N-methylaniline	100-61-8	469.02	45.328	1,2
10852	C7H8O	m-cresol	108-39-4	475.43	48.678	1,2	10955	C7H9N	m-toluidine	108-44-1	476.55	45.173	1,2
10853	C7H8O	o-cresol	95-48-7	464.15	45.666	1,2	10956	C7H9N	o-toluidine	95-53-4	473.55	45.176	1,2
10854	C7H8O	p-cresol	106-44-5	475.13	49.631	1,2	10957	C7H9N	p-toluidine	106-49-0	473.40	44.369	1,2
10855	C7H8O	cresol mixture	1319-77-3	470.15	47.156	1,2	10958	C7H9N	2,3-dimethylpyridine	583-61-9	434.35	38.729	1,2
10856	C7H8OS	3-methoxybenzenethiol	15570-12-4	497.65	43.658	1,2	10959	C7H9N	2,4-dimethylpyridine	108-47-4	431.55	38.378	1,2
10857	C7H8OS	4-methoxybenzenethiol	696-63-9	501.15	43.995	1,2	10960	C7H9N	2,5-dimethylpyridine	589-93-5	430.15	38.511	1,2
10858	C7H8OS	(methylsulfinyl)benzene	1193-82-4	536.65	47.416	1,2	10961	C7H9N	2,6-dimethylpyridine	108-48-5	417.20	38.348	1,2
10859	C7H8OS	1-(5-methyl-2-thienyl)ethanone	13679-74-8	505.65	44.427	1,2	10962	C7H9N	3,4-dimethylpyridine	583-58-4	452.25	40.297	1,2
10860	C7H8OS	2-acetyl-3-methylthiophene	13679-72-6	479.82	41.948	2	10963	C7H9N	3,5-dimethylpyridine	591-22-0	445.05	39.638	1,2
10861	C7H8OS	4,5-dimethylthiophene-2-carboxaldehyde	5928-48-3	479.82	41.948	2	10964	C7H9N	2-ethylpyridine	100-71-0	422.55	37.538	1,2
10862	C7H8OS	5-ethyl-2-thiophenecarboxaldehyde	36880-33-8	338.15	28.579	1,2	10965	C7H9N	3-ethylpyridine	536-78-7	440.15	39.565	1,2
10863	C7H8OS	2-methoxythiophenol	7217-59-6	499.65	43.850	1,2	10966	C7H9N	4-ethylpyridine	536-75-4	442.35	39.217	1,2
10864	C7H8OS	1-(2-thienyl)-1-propanone	13679-75-9	479.82	41.948	2	10967	C7H9N	3-cyclohexene-1-carbonitrile	100-45-8	447.56	38.869	2
10865	C7H8OS	4-(methylthio)phenol	1073-72-9	479.82	41.948	2	10968	C7H9N	1-cyclohexenecarbonitrile	1855-63-6	447.56	38.869	2
10866	C7H8O2	guaiacol	90-05-1	478.15	46.100	1,2	10969	C7H9N	1-cyclopentene-1-acetonitrile	22734-04-9	447.56	38.869	2
10867	C7H8O2	p-methoxyphenol	150-76-5	516.00	53.904	1,2	10970	C7H9N	tetrahydrobenzaldehyde	1321-16-0	447.56	38.869	2
10868	C7H8O2	1,2-dihydroxy-3-methylbenzene	488-17-5	521.15	51.359	1,2	10971	C7H9NO	2-aminobenzenemethanol	5344-90-1	546.15	48.336	1,2
10869	C7H8O2	1,2-dihydroxy-4-methylbenzene	452-86-8	531.15	52.387	1,2	10972	C7H9NO	2-amino-3-methylphenol	2835-97-4	480.51	42.014	2
10870	C7H8O2	1,3-dihydroxy-2-methylbenzene	608-25-3	538.15	53.106	1,2	10973	C7H9NO	2-amino-4-methylphenol	95-84-1	480.51	42.014	2
10871	C7H8O2	1,3-dihydroxy-4-methylbenzene	496-73-1	543.15	53.621	1,2	10974	C7H9NO	3-amino-4-methylphenol	2836-00-2	480.51	42.014	2
10872	C7H8O2	1,3-dihydroxy-5-methylbenzene	504-15-4	560.15	55.371	1,2	10975	C7H9NO	3-amino-5-methylphenol	76619-89-1	518.15	45.631	1,2
10873	C7H8O2	1,4-dihydroxy-2-methylbenzene	95-71-6	556.15	54.959	1,2	10976	C7H9NO	4-amino-2-methylphenol	2835-96-3	480.51	42.014	2
10874	C7H8O2	2,6-dimethyl-4H-pyran-4-one	1004-36-0	524.15	46.209	1,2	10977	C7H9NO	2,6-dimethylpyridine-1-oxide	1073-23-0	480.51	42.014	2
10875	C7H8O2	4,6-dimethyl-2H-pyran-2-one	675-09-2	518.15	45.631	1,2	10978	C7H9NO	N-hydroxy-4-methylaniline	623-10-9	390.15	33.438	2
10876	C7H8O2	1-(2-furanyl)-1-propanone	3194-15-8	525.95	46.383	2	10979	C7H9NO	2-methoxyaniline	90-04-0	497.15	43.610	1,2
10877	C7H8O2	1-(2-furanyl)-2-propanone	6975-60-6	452.65	39.354	1,2	10980	C7H9NO	3-methoxyaniline	536-90-3	524.15	46.209	1,2
10878	C7H8O2	2-hydroxybenzenemethanol	90-01-7	525.95	46.383	2	10981	C7H9NO	4-methoxyaniline	104-94-9	516.15	45.438	1,2
10879	C7H8O2	3-hydroxybenzenemethanol	620-24-6	573.15	50.955	2	10982	C7H9NO	1-(1-methyl-1H-pyrrol-2-yl)ethanone	932-16-1	480.51	42.014	2
10880	C7H8O2	4-hydroxybenzenemethanol	623-05-2	525.15	46.306	1,2	10983	C7H9NO	2-pyridineethanol	103-74-2	480.51	42.014	2
10881	C7H8O2	3-methoxyphenol	150-19-6	525.95	46.383	2	10984	C7H9NO	3-acetyl-1-methylpyrrole	932-62-7	480.51	42.014	2
10882	C7H8O2	2-acetyl-5-methylfuran	1193-79-9	525.95	46.383	2	10985	C7H9NO	3-aminobenzyl alcohol	1877-77-6	480.51	42.014	2
10883	C7H8O2	4,5-dimethyl-2-furaldehyde	52480-43-0	525.95	46.383	2	10986	C7H9NO	4-aminobenzyl alcohol	623-04-1	480.51	42.014	2
10884	C7H8O2	5-ethyl-2-furaldehyde	23074-10-4	525.95	46.383	2	10987	C7H9NO	6-amino-m-cresol	2835-98-5	480.51	42.014	2
10885	C7H8O2	(1S,5R)-(-)-cis-2-oxabicyclo[3.3.0]oct-6-en-*	43119-28-4	525.95	46.383	2	10988	C7H9NO	4-amino-m-cresol	2835-99-6	480.51	42.014	2
10886	C7H8O2	(1R,5S)-(+)-cis-2-oxabicyclo[3.3.0]oct-6-en-*	54483-22-6	525.95	46.383	2	10989	C7H9NO	5-amino-o-cresol	2935-95-2	480.51	42.014	2
10887	C7H8O2S	ethyl thiophene-2-carboxylate	2810-04-0	491.15	43.034	1,2	10990	C7H9NO	3-amino-o-cresol	53222-92-7	480.51	42.014	2
10888	C7H8O2S	2-methylbenzenesulfinic acid	13165-77-0	497.15	43.610	2	10991	C7H9NO	2-methylaminophenol	611-24-5	480.51	42.014	2
10889	C7H8O2S	4-methylbenzenesulfinic acid	536-57-2	497.15	43.610	2	10992	C7H9NO	6-methyl-2-pyridinemethanol	1122-71-0	480.51	42.014	2
10890	C7H8O2S	methyl phenyl sulfone	3112-85-4	497.15	43.610	2	10993	C7H9NO	4-amino-2-hydroxytoluene	2835-95-2	480.51	42.014	2
10891	C7H8O2S	S-furfuryl thioacetate	13678-68-7	497.15	43.610	2	10994	C7H9NO	3,4-epoxycyclohexane-carbonitrile	141-40-2	480.51	42.014	2
10892	C7H8O2S	methyl benzenesulfinate	670-98-4	497.15	43.610	2	10995	C7H9NO	2-propionylpyrrole	1073-26-3	480.51	42.014	2
10893	C7H8O2S	2-methylfuran-3-thiolacetate	55764-25-5	503.15	44.187	1,2	10996	C7H9NO	4-pyridineethanol	5344-27-4	480.51	42.014	2
10894	C7H8O2S	3-(2-thienyl)propanoic acid	5928-51-8	497.15	43.610	2	10997	C7H9NO	o-tolylhydroxylamine	611-22-3	371.65	31.702	1,2
10895	C7H8O3	ethyl 2-furancarboxylate	614-99-3	469.95	41.005	1,2	10998	C7H9NOS	1-(2,4-dimethylthiazol-5-yl)ethan-1-one	38205-60-6	502.15	44.091	1,2
10896	C7H8O3	2-furanmethanol acetate	623-17-6	452.15	39.306	1,2	11000	C7H9NO2	2,6-dimethoxypyridine	6231-18-1	452.15	39.306	1,2
10897	C7H8O3	2-furanpropanoic acid	935-13-7	502.15	44.091	1,2	11001	C7H9NO2	5-amino-2-methoxyphenol	1687-53-2	452.15	39.306	2
10898	C7H8O3	2-(hydroxymethyl)-1,4-benzenediol	495-08-9	474.75	41.463	2	11003	C7H9NO2	2,6-lutidine-alpha2,3-diol	42097-42-7	452.15	39.306	2
10899	C7H8O3	3-methoxy-1,2-benzenediol	934-00-9	474.75	41.463	2	11004	C7H9NO2	2,6-pyridinedimethanol	1195-59-1	452.15	39.306	2
10900	C7H8O3	5-methoxy-1,3-benzenediol	2174-64-3	474.75	41.463	2	11005	C7H9NO2	6-azaspiro(3,4)octane-5,7-dione	1497-16-1	452.15	39.306	2
10901	C7H8O3	5-methyl-1,2,3-benzenetriol	609-25-6	474.75	41.463	2	11006	C7H9NO2	N-ethyl-2-methylmaleimide	31217-72-8	452.15	39.306	2
10902	C7H8O3	methyl 2-furanacetate	4915-22-4	474.75	41.463	2	11007	C7H9NO2	4-(1-hydroxyethyl)pyridine-N-oxide	---	452.15	39.306	2
10903	C7H8O3	3,5-dihydroxybenzyl alcohol	29654-55-5	474.75	41.463	2	11008	C7H9NO2S	N-phenylmethanesulfonamide	1197-22-4	453.23	39.409	2
10904	C7H8O3	ethyl 3-furoate	614-98-2	474.75	41.463	2	11009	C7H9NO2S	p-toluenesulfonamide	70-55-3	494.15	43.322	1,2
10905	C7H8O3	2-methoxyhydroquinone	824-46-4	474.75	41.463	2	11010	C7H9NO2S	o-toluenesulfonamide	88-19-7	487.15	42.651	1,2
10906	C7H8O3	3-methylfuroic acid, methyl ester	6141-57-7	474.75	41.463	2	11011	C7H9NO2S	2-thienylalanine	139-86-6	378.40	32.335	1,2
10907	C7H8O3	methyl 2-methyl-3-furancarboxylate	6141-58-8	474.75	41.463	2	11017	C7H9NO3S	5-amino-2-methylbenzenesulfonic acid	118-88-7	773.15	70.660	1,2
10908	C7H8O3	2-furancarboxylic acid, 5-methyl-, methyl es*	2527-96-0	474.75	41.463	2	11018	C7H9NO3S	6-amino-m-toluenesulfonic acid	88-44-8	773.15	70.660	2
10909	C7H8O3	2-methoxyresorcinol	29267-67-2	474.75	41.463	2	11019	C7H9NO3S	2-amino-p-toluenesulfonic acid	88-62-0	773.15	70.660	2
10910	C7H8O3	allylsuccinic anhydride	7539-12-0	474.75	41.463	2	11020	C7H9NO3S	4-amino-o-toluenesulfonic acid	133-78-8	773.15	70.660	2
10911	C7H8O3	ethyl maltol	4940-11-8	474.75	41.463	2	11021	C7H9NO3S	o-4-toluene sulfonyl hydroxylamine	52913-14-1	773.15	70.660	2
10912	C7H8O3	sarkomycin	11031-48-4	474.75	41.463	2	11025	C7H9NS	2-(methylthio)aniline	2987-53-3	507.15	44.572	1,2
10913	C7H8O3S	methyl benzenesulfonate	80-18-2	552.15	48.917	2	11026	C7H9NS	p-(methylthio)aniline	104-96-1	545.65	48.287	1,2
10914	C7H8O3S	2-methylbenzenesulfonic acid	88-20-0	552.15	48.917	2	11027	C7H9NS	3-(methylthio)aniline	1783-81-9	526.40	46.426	2
10915	C7H8O3S	p-toluenesulfonic acid	104-15-4	552.15	48.917	2	11047	C7H10	2-norbornene	498-66-8	368.65	30.141	1,2
10916	C7H8O3S	4-methylsulphonylphenol	14763-60-1	552.15	48.917	2	11048	C7H10	1,3-cycloheptadiene	4054-38-0	393.65	33.767	1,2
10917	C7H8O3S	phenyl methanesulfonate	16156-59-5	552.15	48.917	1,2	11049	C7H10	1-hepten-3-yne	2384-73-8	383.15	32.780	1,2
10918	C7H8S	o-methylthiophenol	137-06-4	467.35	41.648	1,2	11050	C7H10	3-ethyl-3-penten-1-yne	14272-54-9	369.65	31.515	1,2
10919	C7H8S	m-methylthiophenol	108-40-7	468.25	41.732	1,2	11051	C7H10	1,3,5-heptatriene	2196-23-8	386.65	33.109	1,2
10920	C7H8S	p-methylthiophenol	106-45-6	468.05	41.714	1,2	11052	C7H10	2-methyl-1,3-cyclohexadiene	1489-57-2	380.65	32.546	1,2
10921	C7H8S	methyl phenyl sulfide	100-68-5	466.15	41.381	1,2	11053	C7H10	5-methyl-1,3-cyclohexadiene, (±)	116781-86-3	374.65	31.983	1,2
10922	C7H8S	benzenemethanethiol	100-53-8	467.65	42.518	1,2	11054	C7H10	bicyclo(4.1.0)hept-3-ene	16554-83-9	398.15	34.191	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
11055	C7H10	1-methylcyclohexa-1,4-diene	4313-57-9	388.65	33.297	1,2	11166	C7H10O2	3-cyclohexene-1-carboxylic acid	4771-80-6	507.65	44.620	1,2
11056	C7H10	2-methyl-1-hexen-3-yne	23056-94-2	389.65	33.391	1,2	11167	C7H10O2	3-cyclopentene-1-acetic acid	767-03-3	446.44	38.762	2
11057	C7H10	1-methyl-1,3-cyclohexadiene	1489-56-1	371.20	31.660	1,2	11168	C7H10O2	2-(ethoxymethyl)furan	6270-56-0	422.15	36.457	1,2
11058	C7H10	tricyclo[4.1.0.02,4]-heptane	187-26-8	382.25	32.696	2	11169	C7H10O2	ethyl 2-pentynoate	55314-57-3	446.44	38.762	2
11059	C7H10	tricyclo[4.1.0.02,7]heptane	287-13-8	382.25	32.696	2	11170	C7H10O2	methyl 2-hexynoate	18937-79-6	446.44	38.762	2
11064	C7H10ClN	N-methylaniline hydrochloride	2739-12-0	523.15	46.113	2	11171	C7H10O2	2-furyl isopropyl ether	98272-34-5	408.65	35.181	1,2
11065	C7H10ClN	o-methylaniline, hydrochloride	636-21-5	523.15	46.113	2	11172	C7H10O2	methyl trans,trans-2,4-hexadienoate	689-89-4	453.15	39.402	1,2
11066	C7H10ClN	m-toluidine hydrochloride	638-03-9	523.15	46.113	1,2	11173	C7H10O2	tert-butyl propiolate	13831-03-3	446.44	38.762	2
11070	C7H10Cl2N2OPt	dichloro(4-methoxy-O-phenylenediammine)plati*	72595-97-2	480.15	41.980	1,2	11174	C7H10O2	2-cyclopentene-1-acetic acid	13668-61-6	366.15	31.188	1,2
11072	C7H10Cl2O2	diethylmalonyl dichloride	54505-72-5	471.15	41.119	1,2	11175	C7H10O2	2-cyclopenten-1-one ethylene ketal	695-56-7	446.44	38.762	2
11073	C7H10Cl2O2	3-methyladipoyl chloride	44987-62-4	471.15	41.119	2	11176	C7H10O2	3,4-dimethyl-1,2-cyclopentanedione	13494-06-9	446.44	38.762	2
11074	C7H10Cl2O2	pimeloyl chloride	142-79-0	471.15	41.119	2	11177	C7H10O2	3,5-dimethyl-1,2-cyclopentanedione	21834-98-0	446.44	38.762	2
11077	C7H10FN3O2	a-monofluoromethylhistidine	70050-43-0	344.65	29.183	1,2	11178	C7H10O2	b,b-dimethyl-g-methylene-g-butyrolactone	---	446.44	38.762	2
11079	C7H10N2	m-toluenediamine	95-80-7	557.15	76.016	1,2	11179	C7H10O2	3-ethoxy-2-cyclopentenone	22627-70-9	446.44	38.762	2
11080	C7H10N2	2-methyl-1,3-benzenediamine	823-40-5	520.61	45.868	2	11181	C7H10O2	2,6-heptadienoic acid; predominantly trans	38867-17-3	446.44	38.762	2
11081	C7H10N2	2-methyl-1,4-benzenediamine	95-70-5	546.65	48.384	1,2	11182	C7H10O2	6-heptynoic acid	30964-00-2	446.44	38.762	2
11082	C7H10N2	3-methyl-1,2-benzenediamine	2687-25-4	528.15	46.595	1,2	11183	C7H10O2	2,4-hexadienoic acid, methyl ester	1515-80-6	453.15	39.402	1,2
11083	C7H10N2	4-methyl-1,2-benzenediamine	496-72-0	538.15	47.561	1,2	11184	C7H10O2	2-methyl-1,3-cyclohexanedione	1193-55-1	446.44	38.762	2
11084	C7H10N2	N-methyl-1,4-benzenediamine	623-09-6	531.15	46.885	1,2	11185	C7H10O2	5-methylcyclohexane-1,3-dione	4341-24-6	446.44	38.762	2
11085	C7H10N2	2-aminobenzenemethanamine	4403-69-4	542.15	47.948	1,2	11186	C7H10O2	methyl cyclopentene-1-carboxylate	25662-28-6	446.44	38.762	2
11086	C7H10N2	diallylcyanamide	538-08-9	520.61	45.868	2	11187	C7H10O3	allyl acetoacetate	1118-84-9	469.15	40.928	1,2
11087	C7H10N2	2,6-dimethyl-4-pyridinamine	3512-80-9	519.15	45.727	1,2	11188	C7H10O3	2,3-epoxypropyl methacrylate	106-91-2	462.15	40.260	1,2
11088	C7H10N2	N,N-dimethyl-2-pyridinamine	5683-33-0	469.15	40.928	1,2	11189	C7H10O3	2,4,6-heptanetrione	626-53-9	455.78	39.652	2
11089	C7H10N2	heptanedinitrile	646-20-8	520.61	45.868	2	11190	C7H10O3	a-acetyl-a-methyl-g-butyrolactone	1123-19-9	455.78	39.652	2
11090	C7H10N2	1-methyl-1-phenylhydrazine	618-40-6	501.15	43.995	1,2	11191	C7H10O3	diallyl carbonate	15022-08-9	415.15	35.795	1,2
11091	C7H10N2	(3-methylphenyl)hydrazine	536-89-0	517.15	45.534	2	11192	C7H10O3	2,2-dimethylglutaric anhydride	2938-48-9	455.78	39.652	2
11092	C7H10N2	1-methyl-2-phenylhydrazine	622-36-6	504.15	44.283	1,2	11193	C7H10O3	3,3-dimethylglutaric anhydride	4160-82-1	455.78	39.652	2
11093	C7H10N2	2-pyridineethanamine	2706-56-1	486.15	42.555	1,2	11194	C7H10O3	ethyl 2-formyl-1-cyclopropanecarboxylate; pr*	20417-61-2	455.78	39.652	2
11094	C7H10N2	4-pyridineethanamine	13258-63-4	520.61	45.868	2	11195	C7H10O3	5-ethyl-3-hydroxy-4-methyl-2(5H)-furanone	698-10-2	455.78	39.652	2
11095	C7H10N2	4-aminobenzylamine	4403-71-8	520.61	45.868	2	11196	C7H10O3	methyl 2-oxocyclopentanecarboxylate	10472-24-9	455.78	39.652	2
11096	C7H10N2	2-amino-4,6-dimethylpyridine	5407-87-4	508.15	44.668	1,2	11197	C7H10O3	triacetylmethane	815-68-9	476.65	41.645	1,2
11097	C7H10N2	3,5-diaminotoluene	108-71-4	557.15	49.401	1,2	11198	C7H10O3	2,2,6-trimethyl-4H-1,3-dioxin-4-one	5394-63-8	455.78	39.652	2
11098	C7H10N2	4-dimethylaminopyridine	1122-58-3	520.61	45.868	2	11199	C7H10O4	cis-1,3-cyclopentanedicarboxylic acid	876-05-1	573.15	50.955	2
11099	C7H10N2	2,6-dimethyl-3-pyridinamine	3430-33-9	504.55	44.321	1,2	11200	C7H10O4	3,3-diacetoxy-1-propene	869-29-4	453.15	39.402	1,2
11100	C7H10N2	2-ethyl-3-methylpyrazine	15707-23-0	520.61	45.868	2	11201	C7H10O4	dimethyl 1,2-cyclopropanedicarboxylate	702-28-3	492.15	43.130	1,2
11101	C7H10N2	N-methyl-1,2-phenylenediamine	4760-34-3	519.65	45.775	1,2	11202	C7H10O4	dimethyl cis-2-methyl-2-butenedioate	617-54-9	483.65	42.315	1,2
11102	C7H10N2	2-propylpyrazine	18138-03-9	338.15	28.579	1,2	11203	C7H10O4	dimethyl trans-2-methyl-2-butenedioate	617-53-8	476.65	41.645	1,2
11103	C7H10N2	p-tolylhydrazine hydrochloride	637-60-5	444.65	38.592	2	11204	C7H10O4	dimethyl methylenesuccinate	617-52-7	481.15	42.076	1,2
11104	C7H10N2	2,3,5-trimethylpyrazine	14667-55-1	444.65	38.592	1,2	11205	C7H10O4	ethyl 2,4-dioxopentanoate	615-79-2	487.15	42.651	1,2
11105	C7H10N2	benzylhydrazine	555-96-4	444.65	38.592	2	11206	C7H10O4	(1-methylethylidene)butanedioic acid	584-27-0	447.15	38.830	2
11106	C7H10N2	dicyclopropyldiazomethane	16102-24-2	444.65	38.592	2	11207	C7H10O4	dimethyl 1,1-cyclopropanedicarboxylate	6914-71-2	470.15	41.024	1,2
11107	C7H10N2	toluenediamine	25376-45-8	444.65	38.592	2	11208	C7H10O4	dimethyl cis-1,2-cyclopropanedicarboxylate	826-34-6	488.90	42.819	2
11108	C7H10N2O	4-methoxy-1,3-benzenediamine	615-05-4	460.15	40.069	2	11209	C7H10O4	dimethyl trans-1,2-cyclopropanedicarboxylate	826-35-7	488.90	42.819	2
11109	C7H10N2O	4-methoxy-1,2-benzenediamine	102-51-2	460.15	40.069	2	11210	C7H10O4	(R)-(-)-ethyl (R)-5-oxotetrahydro-2-furancar*	33019-03-3	488.90	42.819	2
11110	C7H10N2O	2-ethyl-3-methoxypyrazine	25680-58-4	460.15	40.069	1,2	11211	C7H10O4	4-(1-propenyloxymethyl)-1,3-dioxolan-2-one	130221-78-2	524.65	46.258	1,2
11111	C7H10N2O	2-furaldehyde dimethylhydrazone	14064-21-2	460.15	40.069	2	11212	C7H10O4	DL-terebic acid	79-91-4	488.90	42.819	2
11112	C7H10N2O	1-(3-pyridinyl)-2-hydroxyethylamine	372144-01-9	460.15	40.069	2	11213	C7H10O4	2,2,5-trimethyl-1,3-dioxane-4,6-dione	3709-18-0	488.90	42.819	2
11113	C7H10N2O	2-methoxy-1,4-benzenediamine	5307-02-8	460.15	40.069	2	11214	C7H10O4	methyl diacetoacetate	4619-66-3	488.90	42.819	2
11115	C7H10N2O2	N,N'-methylenebisacrylamide	110-26-9	385.15	32.968	2	11215	C7H10O4	propene-1,3-diol diacetate	1945-91-1	488.90	42.819	2
11116	C7H10N2O2	2-acetamido-4,5-dimethyloxazole	35629-37-9	385.15	32.968	2	11216	C7H10O5	diethyl ketomalonate	609-09-6	483.15	42.268	1,2
11117	C7H10N2O2	morpholinocarbonylacetonitrile	15029-32-0	385.15	32.968	2	11217	C7H10O5	dimethyl 3-oxo-1,5-pentanedioate	1830-54-2	483.15	42.268	2
11130	C7H10N4O	(3,3-dimethyl-1-(m-pyridyl-N-oxide))triazene	21600-42-0	283.45	23.540	1,2	11218	C7H10O5	dimethyl methoxymethylenemalonate	22398-14-7	483.15	42.268	2
11138	C7H10O	3-cyclohexene-1-carboxaldehyde	100-50-5	378.15	32.311	1,2	11219	C7H10O5	2-[(4S)-2,2-dimethyl-5-oxo-1,3-dioxolan-4-yl*	73991-95-4	483.15	42.268	2
11139	C7H10O	1-cyclohexene-1-carboxaldehyde	1192-88-7	427.68	36.982	2	11220	C7H10O5	dimethyl 2-oxoglutarate	13192-04-6	483.15	42.268	2
11140	C7H10O	dicyclopropyl ketone	1121-37-5	434.15	37.595	1,2	11221	C7H10O5	4-ketopimelic acid	502-50-1	483.15	42.268	2
11141	C7H10O	2,4-dimethyl-2-cyclopenten-1-one	23048-13-7	438.15	37.975	1,2	11222	C7H10O5	shikimic acid	138-59-0	483.15	42.268	2
11142	C7H10O	2-methyl-2-cyclohexen-1-one	1121-18-2	451.65	39.259	1,2	11223	C7H10O5	maleic acid, mono(2-hydroxypropyl) ester	10099-73-7	483.15	42.268	2
11143	C7H10O	3-methyl-2-cyclohexen-1-one	1193-18-6	474.15	41.406	1,2	11224	C7H10O6	trimethyl methanetricarboxylate	1186-73-8	515.85	45.409	1,2
11144	C7H10O	5-methyl-2-cyclohexen-1-one	7214-50-8	458.15	39.878	1,2	11225	C7H10S	2-propylthiophene	1551-27-5	431.65	38.059	1,2
11145	C7H10O	3-methyl-3-cyclohexen-1-one	31883-98-4	474.15	41.406	1,2	11226	C7H10S	3-propylthiophene	1518-75-8	434.15	38.289	1,2
11146	C7H10O	4-methyl-3-cyclohexen-1-one	5259-65-4	443.15	38.450	1,2	11227	C7H10S	2-isopropylthiophene	4095-22-1	426.15	37.551	1,2
11147	C7H10O	2-ethyl-5-methylfuran	1703-52-2	391.65	33.579	1,2	11228	C7H10S	3-isopropylthiophene	29488-27-5	430.15	37.582	1,2
11148	C7H10O	1-ethynylcyclopentanol	17356-19-3	430.65	37.263	1,2	11229	C7H10S	2-methyl-3-ethylthiophene	53119-51-0	430.15	37.858	1,2
11149	C7H10O	trans,trans-2,4-heptadienal	4313-03-5	357.65	30.394	1,2	11230	C7H10S	2-methyl-4-ethyl thiophene	13678-54-1	436.15	38.411	1,2
11150	C7H10O	3,5-heptadien-2-one	3916-64-1	427.68	36.982	2	11231	C7H10S	2-methyl-5-ethyl thiophene	40323-88-4	433.25	38.144	1,2
11151	C7H10O	2-propylfuran	4229-91-8	387.15	33.156	1,2	11232	C7H10S	3-methyl-2-ethylthiophene	31805-48-8	434.15	38.227	1,2
11152	C7H10O	1-acetyl-1-cyclopentene	16112-10-0	427.68	36.982	2	11233	C7H10S	3-methyl-4-ethyl thiophene	---	438.65	36.835	1,2
11153	C7H10O	2,5-dihydroanisole	2886-59-1	422.15	36.457	1,2	11234	C7H10S	3-methyl-5-ethylthiophene	---	427.35	37.600	2
11154	C7H10O	2,3-dimethyl-2-cyclopenten-1-one	1121-05-7	427.68	36.982	2	11235	C7H10S	2,3,4-trimethylthiophene	1795-04-6	445.85	40.384	1,2
11155	C7H10O	4,4-dimethyl-2-cyclopenten-1-one	22748-16-9	431.15	37.310	1,2	11236	C7H10S	2,3,5-trimethylthiophene	1795-05-7	437.65	38.487	1,2
11156	C7H10O	1-methoxy-1,3-cyclohexadiene	2161-90-2	427.68	36.982	2	11237	C7H10Si	methylphenylsilane	766-08-5	413.15	35.606	1,2
11157	C7H10O	norcamphor	497-38-1	443.15	38.450	1,2	11238	C7H10Si	benzyl silane	766-06-3	413.15	35.606	2
11158	C7H10O	2-methyl-5-hexen-3-yn-2-ol	690-94-8	427.68	36.982	2	11240	C7H11Br	1-bromo-1-heptyne	19821-84-2	437.15	37.880	1,2
11159	C7H10O	(1a,2b,4b,5a)-3-oxatricyclo[3.2.1.02,4]octane	3146-39-2	427.68	36.982	2	11241	C7H11Br	1-bromo-2-heptyne	18495-26-6	437.15	37.880	2
11160	C7H10O	2,4-heptadienal	5910-85-0	427.68	36.982	2	11242	C7H11Br	exo-2-bromonorbornane	2534-77-2	437.15	37.880	2
11161	C7H10O2	2-acetylcyclopentanone	1670-46-8	446.44	38.762	2	11245	C7H11BrO4	diethyl 2-bromomalonate	685-87-0	527.15	46.499	2
11162	C7H10O2	allyl trans-2-butenoate	5453-44-1	446.44	38.762	2	11246	C7H11Cl	2-chlorobicyclo[2.2.1]heptane	29342-53-8	435.15	37.690	1,2
11163	C7H10O2	allyl methacrylate	96-05-9	446.44	38.762	2	11247	C7H11Cl	3-chloro-3-ethyl-1-pentyne	6080-79-1	431.40	37.334	2
11164	C7H10O2	1,2-cycloheptanedione	3008-39-7	446.44	38.762	2	11248	C7H11Cl	1-chloro-1-heptyne	51556-10-6	414.15	35.701	1,2
11165	C7H10O2	1-cyclohexene-1-carboxylic acid	636-82-8	514.15	45.245	1,2	11249	C7H11Cl	1-chloro-5-heptyne	70396-13-3	439.15	38.070	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
11250	C7H11Cl	7-chloro-3-heptyne	51575-85-0	437.15	37.880	1,2	11351	C7H12	3,4-dimethyl-1-pentyne	61064-08-2	353.15	29.558	1,2
11251	C7H11Cl	exo-2-chloronorbornane	765-91-3	431.40	37.334	2	11352	C7H12	4,4-dimethyl-1-pentyne	13361-63-2	349.23	28.934	1,2
11252	C7H11ClHgN2O3	chloro((3-(2,4-dioxo-5-imidazolidinyl)-2-met*	3367-31-5	424.90	36.718	2	11353	C7H12	4,4-dimethyl-2-pentyne	999-78-0	356.15	29.387	1,2
11253	C7H11ClHgN2O3	3-(3-chloromercuri-2-methoxy-1-propyl)hydant*	3367-29-1	488.65	42.795	1,2	11354	C7H12	bicyclo[2.2.1]heptane	279-23-2	378.45	32.340	1,2
11254	C7H11ClHgN2O3	5-(3-chloromercuri-2-methoxy-1-propyl)-3-met*	3367-30-4	361.15	30.721	1,2	11355	C7H12	bicyclo[4.1.0]heptane	286-08-8	389.65	33.391	1,2
11255	C7H11ClO	cyclohexanecarbonyl chloride	2719-27-9	453.15	39.402	1,2	11356	C7H12	cycloheptene	628-92-2	388.15	33.250	1,2
11256	C7H11ClO	2-chlorocycloheptanone	766-66-5	460.65	40.117	1,2	11357	C7H12	ethylidenecyclopentane	2146-37-4	388.15	33.250	1,2
11257	C7H11ClO3	ethyl 2-chloro-2-methyl-3-oxobutanoate	37935-39-0	467.15	40.737	1,2	11358	C7H12	1,2-heptadiene	2384-90-9	378.65	32.358	1,2
11258	C7H11ClO3	1-(4-chloromethyl-1,3-dioxolan-2-yl)-2-propa*	53460-80-3	467.15	40.737	2	11359	C7H12	1,4-heptadiene	5675-22-9	366.15	31.188	1,2
11259	C7H11ClO4	3-chloro-1,2-propanediol diacetate	869-50-1	518.15	45.631	1,2	11360	C7H12	1,5-heptadiene	1541-23-7	367.15	31.281	1,2
11260	C7H11ClO4	diethyl chloromalonate	14064-10-9	495.15	43.418	1,2	11361	C7H12	1,6-heptadiene	3070-53-9	370.15	31.562	2
11262	C7H11Cl3O2	isopentyl trichloroacetate	57392-55-9	490.15	42.939	1,2	11362	C7H12	2,4-heptadiene	628-72-8	381.15	32.593	1,2
11267	C7H11N	3-ethyl-4-methyl-1H-pyrrole	488-92-6	438.90	38.046	2	11363	C7H12	2-methyl-1,5-hexadiene	4049-81-4	361.25	30.730	1,2
11268	C7H11N	2-isopropylpyrrole	7696-51-7	445.15	38.640	1,2	11364	C7H12	2-methyl-2,4-hexadiene	28823-41-8	384.65	32.921	1,2
11269	C7H11N	1-propyl-1H-pyrrole	5145-64-2	418.65	36.126	1,2	11365	C7H12	2,4-dimethyl-1,3-pentadiene	1000-86-8	366.35	31.207	1,2
11270	C7H11N	3-propyl-1H-pyrrole	1551-09-3	438.90	38.046	2	11366	C7H12	1-methylbicyclo(3,1,0)hexane	4625-24-5	366.25	31.197	1,2
11271	C7H11N	1,2,5-trimethyl-1H-pyrrole	930-87-0	444.15	38.545	1,2	11367	C7H12	methylenecyclohexane	1192-37-6	375.65	32.077	1,2
11272	C7H11N	cyclohexanecarbonitrile	766-05-2	438.90	38.046	2	11368	C7H12	vinylcyclopentane	3742-34-5	370.15	31.562	1,2
11273	C7H11N	cyclohexyl isocyanide	931-53-3	447.65	38.878	1,2	11369	C7H12	2,4-dimethyl-2,3-pentadiene	1000-87-9	358.55	30.478	1,2
11274	C7H11N	6-heptenenitrile	5048-25-9	438.90	38.046	2	11370	C7H12	1,1'-methylenebiscyclopropane	5685-47-2	375.50	32.063	1,2
11275	C7H11NO	cyclohexyl isocyanate	3173-53-3	442.15	43.707	1,2	11373	C7H12Br2O2	butyl 2,3-dibromopropanoate	21179-48-6	510.65	44.908	1,2
11276	C7H11NO	1-hydroxycyclohexanecarbonitrile	931-97-5	442.15	38.355	2	11374	C7H12Br2O2	ethyl 2,3-dibromopentanoate	79912-55-3	510.65	44.908	2
11277	C7H11NO	7-azabicyclo[4.2.0]octan-8-one	34102-49-3	442.15	38.355	2	11375	C7H12Br2O2	ethyl 2,5-dibromopentanoate	29823-16-3	510.65	44.908	2
11278	C7H11NO	trans-2-cyano-1-cyclohexanol	63301-31-5	442.15	38.355	2	11379	C7H12N2	1,2-diethyl-1H-imidazole	51807-53-5	492.15	43.130	1,2
11279	C7H11NO	pivaloylacetonitrile	59997-51-2	442.15	38.355	2	11380	C7H12N2	2,3,4,6,7,8-hexahydropyrrolo[1,2-a]pyrimidine	3001-72-7	451.48	39.243	2
11280	C7H11NO2	1-acetyl-4-piperidinone	32161-06-1	491.15	43.034	1,2	11381	C7H12N2	1-butylimidazole	4316-42-1	383.15	32.780	1,2
11282	C7H11NO2	butyl cyanoacetate	5459-58-5	504.15	44.283	1,2	11382	C7H12N2	piperidineacetonitrile	3010-03-5	479.15	41.884	1,2
11283	C7H11NO2	3-ethyl-3-methyl-2,5-pyrrolidinedione	77-67-8	497.65	43.658	2	11387	C7H12N2O2	N-(tert-butoxycarbonyl)-2-aminoacetonitrile	85363-04-8	459.15	39.973	1,2
11284	C7H11NO2	4-acryloylmorpholine	5117-12-4	497.65	43.658	2	11389	C7H12N2O2	2-ethyl-trans-crotonylurea	2884-67-5	459.15	39.973	2
11285	C7H11NO2	cis-2-amino-4-cyclohexene-1-carboxylic acid	54162-90-2	497.65	43.658	2	11391	C7H12N2O2	1-methoxy-3,4,5-trimethyl pyrazole-N-oxide	39753-42-9	459.15	39.973	2
11287	C7H11NO2	3,3-dimethylglutarimide	1123-40-6	497.65	43.658	2	11392	C7H12N2O3	3-carboxypropyl(2-propenyl)nitrosamine	86261-23-6	475.15	41.502	1,2
11288	C7H11NO2	isobutyl cyanoacetate	13361-31-4	497.65	43.658	2	11393	C7H12N2O3	N-nitroso(2-oxobutyl)(2-oxopropyl)amine	77698-20-5	475.15	41.502	2
11289	C7H11NO2	methylpentynol carbamate	302-66-9	497.65	43.658	2	11403	C7H12O	cycloheptanone	502-42-1	451.65	39.259	1,2
11290	C7H11NO2	1-methylpyrrole-2,3-dimethanol	53365-77-8	497.65	43.658	2	11404	C7H12O	1-cyclopentylethanone	6004-60-0	431.65	37.358	1,2
11293	C7H11NO3	N-(ethoxymethyl)succinimide	98431-97-1	535.15	47.271	1,2	11405	C7H12O	cyclohexanecarboxaldehyde	2043-61-0	432.45	37.434	1,2
11294	C7H11NO3	butyl isocyanatoacetate	17046-22-9	486.15	42.555	1,2	11406	C7H12O	2,5-dimethylcyclopentanone	4041-09-2	419.65	36.221	1,2
11295	C7H11NO3	(R)-(-)-ethyl 4-cyano-3-hydroxybutyrate	141942-85-0	543.15	48.045	1,2	11407	C7H12O	3,4-dimethyl-1-pentyn-3-ol	1482-15-1	406.15	34.945	1,2
11296	C7H11NO3	ethyl 4-isocyanatobutyrate	106508-62-7	487.15	42.651	1,2	11408	C7H12O	3-ethyl-1-pentyn-3-ol	6285-06-9	411.15	35.417	1,2
11297	C7H11NO3	ethyl (R)-(-)-2-pyrrolidone-5-carboxylate	68766-96-1	512.90	45.125	2	11409	C7H12O	2-methyl-3-hexyn-2-ol	5075-33-2	419.15	36.173	1,2
11298	C7H11NO3	ethyl (S)-(+)-2-pyrrolidone-5-carboxylate	7149-65-7	512.90	45.125	2	11410	C7H12O	3-methyl-1-hexyn-3-ol	4339-05-3	410.15	35.323	1,2
11299	C7H11NO3	2-methoxy-1-methylethyl cyanoacetate	32804-79-8	512.90	45.125	2	11411	C7H12O	1,5-heptadien-4-ol	5638-26-6	429.15	37.121	1,2
11300	C7H11NO3	methyl (S)-(-)-2-isocyanato-3-methylbutyrate	30293-86-8	512.90	45.125	2	11412	C7H12O	1,6-heptadien-4-ol	2883-45-6	424.15	36.647	1,2
11301	C7H11NO3	paramethadione	115-67-3	512.90	45.125	2	11413	C7H12O	2-heptenal	2463-63-0	439.15	38.070	1,2
11302	C7H11NO3	methylcarbamoylethyl acrylate	59163-97-2	512.90	45.125	2	11414	C7H12O	3-heptenal	89896-73-1	424.15	36.647	1,2
11303	C7H11NO4	trans-1-acetyl-4-hydroxy-L-proline	33996-33-7	459.15	39.973	2	11415	C7H12O	1-hepten-3-one	2918-13-0	427.35	36.950	2
11304	C7H11NO4	methyl acrylamidoglycolate methyl ether	77402-03-0	459.15	39.973	2	11416	C7H12O	4-hepten-2-one	24332-22-7	427.35	36.950	2
11305	C7H11NO4	3-methyl-4-nitro-1-buten-3-yl acetate	61447-07-2	459.15	39.973	1,2	11417	C7H12O	6-hepten-2-one	21889-88-3	418.15	36.079	1,2
11306	C7H11NO4	3-methyl-4-nitro-2-buten-1-yl acetate	---	459.15	39.973	2	11418	C7H12O	6-hepten-3-one	2565-39-1	415.15	35.795	1,2
11310	C7H11NS	cyclohexyl isothiocyanate	1122-82-3	494.15	43.322	1,2	11419	C7H12O	cis-3-hepten-2-one	69668-88-8	427.35	36.950	2
11311	C7H11NS	2-(dimethylaminomethyl)thiophene	26019-17-0	465.15	40.546	2	11420	C7H12O	trans-3-hepten-2-one	5609-09-6	427.15	36.931	1,2
11312	C7H11NS	2-isobutylthiazole	18640-74-9	453.15	39.402	1,2	11421	C7H12O	trans-5-hepten-2-one	1071-94-9	426.15	36.836	1,2
11313	C7H11NS	2-isopropyl-4-methylthiazole	15679-13-7	448.15	38.925	1,2	11422	C7H12O	2-methyl-4-hexen-3-one	53252-19-0	421.15	36.363	1,2
11323	C7H12	1-ethylcyclopentene	2146-38-5	379.48	32.343	1,2	11423	C7H12O	3-methyl-5-hexen-2-one	2550-22-3	410.15	35.323	1,2
11324	C7H12	3-ethylcyclopentene	694-35-9	370.92	31.579	1,2	11424	C7H12O	4-methyl-5-hexen-2-one	61675-14-7	410.65	35.370	1,2
11325	C7H12	4-ethylcyclopentene	3742-38-9	371.36	31.618	1,2	11425	C7H12O	5-methyl-1-hexen-3-one	2177-32-4	427.35	36.950	2
11326	C7H12	1,2-dimethylcyclopentene	765-47-9	378.95	31.930	1,2	11426	C7H12O	5-methyl-3-hexen-2-one	5166-53-0	427.35	36.950	2
11327	C7H12	1,3-dimethylcyclopentene	62184-82-1	365.15	30.711	1,2	11427	C7H12O	5-methyl-4-hexen-2-one	28332-44-7	425.15	36.741	1,2
11328	C7H12	1,4-dimethylcyclopentene	19550-48-2	366.35	30.817	1,2	11428	C7H12O	5-methyl-5-hexen-2-one	3240-09-3	423.15	36.552	1,2
11329	C7H12	1,5-dimethylcyclopentene	16491-15-9	375.15	31.595	1,2	11429	C7H12O	2-methylcyclohexanone, (±)	24965-84-2	438.15	37.975	1,2
11330	C7H12	3,3-dimethylcyclopentene	58049-91-5	361.15	30.459	1,2	11430	C7H12O	3-methylcyclohexanone, (±)	625-96-7	442.15	38.355	1,2
11331	C7H12	3,cis-4-dimethylcyclopentene	56039-55-5	364.55	30.658	2	11431	C7H12O	4-methylcyclohexanone	589-92-4	443.15	38.450	1,2
11332	C7H12	3,trans-4-dimethylcyclopentene	53225-40-4	364.55	30.658	2	11432	C7H12O	2-methylenecyclohexanol	4065-80-9	427.35	36.950	2
11333	C7H12	3,cis-5-dimethylcyclopentene	30213-29-7	364.55	30.658	2	11433	C7H12O	2,2-dimethyl-4-pentenal	5497-67-6	397.65	34.144	1,2
11334	C7H12	3,trans-5-dimethylcyclopentene	61394-27-2	364.55	30.658	2	11434	C7H12O	endo-(±)-norborneol	497-36-9	427.35	36.950	2
11335	C7H12	4,4-dimethylcyclopentene	19037-72-0	361.15	30.459	1,2	11435	C7H12O	(2R)-(+)-endo-norborneol	61277-90-5	427.35	36.950	2
11336	C7H12	1-methylcyclohexene	591-49-1	383.45	32.466	1,2	11436	C7H12O	trans-2-heptenal	18829-55-5	427.35	36.950	2
11337	C7H12	3-methylcyclohexene	591-48-0	375.62	31.772	1,2	11437	C7H12O	(Z)-hept-4-enal	6728-31-0	427.35	36.950	2
11338	C7H12	4-methylcyclohexene	591-47-9	375.89	31.795	1,2	11438	C7H12O	1-heptyn-3-ol	7383-19-9	435.15	37.690	1,2
11339	C7H12	3-methylcyclohexene, (±)	56688-75-6	377.15	31.373	1,2	11439	C7H12O	methylcyclohexanone	1331-22-2	438.15	37.975	1,2
11340	C7H12	1-heptyne	628-71-7	372.86	31.878	1,2	11440	C7H12O	(R)-(+)-3-methylcyclohexanone	13368-65-5	441.70	38.312	1,2
11341	C7H12	2-heptyne	1119-65-9	385.15	32.775	1,2	11441	C7H12O	2-methylcyclohexanone	583-60-8	436.70	37.837	1,2
11342	C7H12	3-heptyne	2586-89-2	380.31	32.343	1,2	11442	C7H12O	3-methylcyclohexanone	591-24-2	442.65	38.402	1,2
11343	C7H12	3-methyl-1-hexyne	40276-93-5	358.15	30.261	1,2	11443	C7H12O	exo-norborneol	497-37-0	449.65	39.068	1,2
11344	C7H12	4-methyl-1-hexyne	52713-81-2	364.15	30.793	1,2	11444	C7H12O	1,2,3,6-tetrahydrobenzylalcohol	1679-51-2	427.35	36.950	2
11345	C7H12	5-methyl-1-hexyne	2203-80-7	365.00	30.869	1,2	11445	C7H12O	(Z)-5-hepten-2-one	4535-61-9	422.70	36.509	1,2
11346	C7H12	4-methyl-2-hexyne	20198-49-6	372.69	31.387	1,2	11446	C7H12O	(S)-3-methylcyclohexanone	24965-87-5	439.20	38.074	1,2
11347	C7H12	5-methyl-2-hexyne	53566-37-3	375.61	31.645	1,2	11447	C7H12O	2-heptyn-1-ol	1002-36-4	427.35	36.950	2
11348	C7H12	2-methyl-3-hexyne	36566-80-0	368.35	31.004	1,2	11449	C7H12OSi	4-(trimethylsilyl)-3-butyn-2-one	5930-98-3	429.15	37.121	1,2
11349	C7H12	3-ethyl-1-pentyne	21020-26-8	357.15	30.173	1,2	11450	C7H12O2	butyl acrylate	141-32-2	421.00	37.464	1,2
11350	C7H12	3,3-dimethyl-1-pentyne	918-82-1	343.15	28.405	1,2	11450.1	C7H12O2	sec-butyl acrylate	2998-08-5	404.15	44.320	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
11451	C7H12O2	isobutyl acrylate	106-63-8	405.15	37.562	1,2	11533	C7H12O4	dimethyl glutarate	1119-40-0	487.15	42.651	1,2
11452	C7H12O2	propyl methacrylate	2210-28-8	414.00	37.627	1,2	11534	C7H12O4	dimethyl 2-methylsuccinate	1604-11-1	469.15	40.928	1,2
11453	C7H12O2	isopropyl methacrylate	4655-34-9	398.15	32.695	1,2	11535	C7H12O4	3,3-dimethylpentanedioic acid	4839-46-7	464.16	40.452	2
11454	C7H12O2	allyl butanoate	2051-78-7	415.15	35.795	1,2	11536	C7H12O4	ethyl methyl succinate	627-73-6	481.35	42.095	1,2
11455	C7H12O2	cyclohexanecarboxylic acid	98-89-5	505.65	44.427	1,2	11537	C7H12O4	heptanedioic acid	111-16-0	464.16	40.452	2
11456	C7H12O2	cyclohexyl formate	4351-54-6	435.15	37.690	1,2	11538	C7H12O4	isobutylpropanedioic acid	4361-06-2	464.16	40.452	2
11457	C7H12O2	cyclopentyl acetate	933-05-1	447.69	38.882	2	11539	C7H12O4	methylene bispropionate	7044-96-4	464.16	40.452	2
11458	C7H12O2	cyclopentaneacetic acid	1123-00-8	501.15	43.995	1,2	11540	C7H12O4	2-methylhexanedioic acid	626-70-0	464.16	40.452	2
11459	C7H12O2	3,3-diethoxy-1-propyne	10160-87-9	412.15	35.512	1,2	11541	C7H12O4	3-methylhexanedioic acid, (±)	81177-02-8	464.16	40.452	2
11460	C7H12O2	2,3-heptanedione	96-04-8	417.15	35.984	1,2	11542	C7H12O4	monomethyl adipate	627-91-8	464.16	40.452	2
11461	C7H12O2	2,6-heptanedione	13505-34-5	495.15	43.418	1,2	11543	C7H12O4	1,2-propanediol diacetate	623-84-7	463.65	40.403	1,2
11462	C7H12O2	3-methyl-2,5-hexanedione	4437-50-7	469.15	40.928	1,2	11544	C7H12O4	1,3-propanediol diacetate	628-66-0	482.65	42.220	1,2
11463	C7H12O2	5-methyl-2,3-hexanedione	13706-86-0	411.15	35.417	1,2	11545	C7H12O4	propyl hydrogen succinate	6946-88-9	464.16	40.452	2
11464	C7H12O2	3,3-dimethyl-2,4-pentanedione	3142-58-3	446.15	38.735	1,2	11546	C7H12O4	2,4,8,10-tetraoxaspiro[5.5]undecane	126-54-5	464.16	40.452	2
11465	C7H12O2	3-ethyl-2,4-pentanedione	1540-34-7	451.65	39.259	1,2	11547	C7H12O4	2,5-dimethoxy-3-tetrahydrofurancarboxaldehyd*	50634-05-4	464.16	40.452	2
11466	C7H12O2	2,2-dimethyl-4-pentenoic acid	16386-93-9	490.00	42.924	2	11548	C7H12O4	2,2-dimethylglutaric acid	681-57-2	464.16	40.452	2
11467	C7H12O2	2-heptenoic acid	18999-28-5	499.65	43.850	1,2	11549	C7H12O4	2,4-dimethylglutaric acid, DL and meso	2121-67-7	464.16	40.452	2
11468	C7H12O2	4-heptenoic acid	35194-37-7	490.00	42.924	2	11550	C7H12O4	(R)-(+)-dimethyl (R)-methylsuccinate	22644-27-5	464.16	40.452	2
11469	C7H12O2	5-heptenoic acid	3593-00-8	496.15	43.514	1,2	11551	C7H12O4	2-methoxyethyl acetoacetate	22502-03-0	393.15	33.720	1,2
11470	C7H12O2	6-heptenoic acid	1119-60-4	499.15	43.802	1,2	11552	C7H12O4	3-methyladipic acid	3058-01-3	464.16	40.452	2
11471	C7H12O2	2-methyl-3-hexenoic acid	73513-50-5	490.00	42.924	2	11553	C7H12O4	(R)-(+)-3-methyladipic acid	623-82-5	464.16	40.452	2
11472	C7H12O2	3-methyl-3-hexenoic acid	35205-71-1	490.00	42.924	2	11554	C7H12O4	methyl (R)-2,2-dimethyl-1,3-dioxolane-4-carb*	52373-72-5	464.16	40.452	2
11473	C7H12O2	4-methyl-2-hexenoic acid	37549-83-0	490.00	42.924	2	11555	C7H12O4	(-)-methyl (S)-2,2-dimethyl-1,3-dioxolane-4-*	60456-21-5	464.16	40.452	2
11474	C7H12O2	4-methyl-3-hexenoic acid	55665-79-7	490.00	42.924	2	11556	C7H12O4	methyl (R)-(+)-3-methylglutarate	63473-60-9	464.16	40.452	2
11475	C7H12O2	5-methyl-2-hexenoic acid	41653-96-7	499.65	43.850	1,2	11557	C7H12O4	mono-tert-butyl malonate	40052-13-9	464.16	40.452	2
11476	C7H12O2	5-methyl-4-hexenoic acid	5636-65-7	490.15	42.939	1,2	11558	C7H12O4	a-hydroxyisobutyric acid acetate methyl ester	57865-37-9	464.16	40.452	2
11477	C7H12O2	trans-2-methyl-2-hexenoic acid	97961-66-5	478.15	41.789	1,2	11559	C7H12O5	diethyl hydroxymalonate	13937-08-1	494.15	43.322	1,2
11478	C7H12O2	2-ethoxy-3,4-dihydro-2H-pyran	103-75-3	405.15	34.851	1,2	11560	C7H12O5	1,2,3-propanetriol diacetate	25395-31-7	532.15	46.982	1,2
11479	C7H12O2	ethyl cyclobutanecarboxylate	14924-53-9	432.15	37.405	1,2	11561	C7H12O5	1,2,3-propanetriol-1,3-diacetate	105-70-4	526.48	46.434	2
11480	C7H12O2	ethyl 3-methyl-2-butenoate	638-10-8	426.65	36.884	1,2	11562	C7H12O5	1,3-diacetin	102-62-5	553.15	49.014	1,2
11481	C7H12O2	ethyl trans-2-methyl-2-butenoate	5837-78-5	429.15	37.121	1,2	11563	C7H12O5	dimethyl 3-hydroxyglutarate	7250-55-7	526.48	46.434	2
11482	C7H12O2	1-methylcyclopentanecarboxylic acid	5217-05-0	492.15	43.130	1,2	11567	C7H12SSi	trimethyl-2-thienylsilane	18245-28-8	438.65	38.022	1,2
11483	C7H12O2	methyl 3-hexenoate	2396-78-3	447.69	38.882	2	11569	C7H13Br	cis-1-bromo-1-heptene	39924-57-7	436.15	39.278	1,2
11484	C7H12O2	methyl 2-methyl-2-pentenoate	10478-12-3	447.69	38.882	2	11570	C7H13Br	trans-1-bromo-1-heptene	53434-74-5	436.15	39.278	1,2
11485	C7H12O2	methyl 3-methyl-3-pentenoate	2258-58-4	447.69	38.882	2	11571	C7H13Br	bromocycloheptane	2404-35-5	439.40	38.093	2
11486	C7H12O2	methyl cis-3-methyl-2-pentenoate	17447-00-6	447.69	38.882	2	11572	C7H13Br	(bromomethyl)cyclohexane	2550-36-9	439.40	38.093	2
11487	C7H12O2	methyl trans-3-methyl-2-pentenoate	17447-01-7	424.15	36.647	1,2	11573	C7H13Br	1-bromo-1-methylcyclohexane	931-77-1	431.15	37.310	1,2
11488	C7H12O2	tert-butyl acrylate	1663-39-4	447.69	38.882	2	11574	C7H13Br	1-bromo-3-methylcyclohexane	13905-48-1	454.15	39.497	1,2
11489	C7H12O2	3,5-heptanedione	7424-54-6	449.15	39.021	1,2	11578	C7H13BrO2	2-bromoheptanoic acid	2624-01-3	523.15	46.113	2
11490	C7H12O2	2-methoxycyclohexanone	7429-44-9	458.15	39.878	1,2	11579	C7H13BrO2	7-bromoheptanoic acid	30515-28-7	553.15	49.014	1,2
11491	C7H12O2	methyl trans-2-methyl-2-pentenoate	1567-14-2	447.69	38.882	2	11580	C7H13BrO2	butyl 3-bromopropanoate	6973-79-1	499.90	43.875	2
11492	C7H12O2	4-pentenyl acetate	1576-85-8	418.15	36.079	1,2	11581	C7H13BrO2	ethyl 2-bromo-3-methylbutanoate	609-12-1	459.15	39.973	1,2
11493	C7H12O2	vinyl pivalate	3377-92-2	383.15	32.780	1,2	11582	C7H13BrO2	ethyl 2-bromopentanoate	615-83-8	464.15	40.451	1,2
11494	C7H12O2	ethyl 2-methylcyclopropanecarboxylate	20913-25-1	447.69	38.882	2	11583	C7H13BrO2	ethyl 5-bromopentanoate	14660-52-7	499.90	43.875	2
11495	C7H12O2	2,4-heptanedione	7307-02-0	447.20	38.835	1,2	11584	C7H13BrO2	2-(2-bromoethoxy)tetrahydro-2H-pyran	59146-56-4	499.90	43.875	2
11496	C7H12O2	1,2,6,7-diepoxyheptane	4247-19-2	447.69	38.882	2	11585	C7H13BrO2	5-bromopentyl acetate	15848-22-3	499.90	43.875	2
11497	C7H12O2	3,3-dimethylallyl acetate	1191-16-8	447.69	38.882	2	11586	C7H13Br3	1,1,1-tribromoheptane	62127-64-4	537.15	52.243	1,2
11498	C7H12O2	4-ethoxy-2-methyl-3-butyn-2-ol	2041-76-1	447.69	38.882	2	11587	C7H13Cl	cis-1-chloro-1-heptene	53268-66-9	423.15	36.959	1,2
11499	C7H12O2	g-heptalactone	105-21-5	447.69	38.882	2	11588	C7H13Cl	trans-1-chloro-1-heptene	53268-67-0	423.15	36.959	1,2
11500	C7H12O2	cis-3-hexenyl formate	33467-73-1	447.69	38.882	2	11589	C7H13Cl	1-chloro-1-heptene	2384-75-0	428.15	39.135	1,2
11501	C7H12O2	tetrahydro-2,6-dimethyl-4H-pyran-4-one	1073-79-6	447.69	38.882	2	11590	C7H13Cl	2-chloro-1-heptene	65786-11-0	412.15	33.867	1,2
11503	C7H12O2S2	ethyl 1,3-dithiane-2-carboxylate	20462-00-4	349.15	29.602	1,2	11591	C7H13Cl	4-chloro-3-heptene	2431-24-5	412.15	33.867	1,2
11505	C7H12O3	2,2-dimethyl-4-oxopentanoic acid	470-49-5	462.84	40.325	2	11593	C7H13ClO	1-chloro-2-heptanone	41055-92-9	424.88	36.716	2
11506	C7H12O3	ethylene glycol monoethyl ether propenoate	106-74-1	447.15	38.830	1,2	11594	C7H13ClO	heptanoyl chloride	2528-61-2	398.35	34.210	1,2
11507	C7H12O3	ethyl levulinate	539-88-8	478.95	41.865	1,2	11595	C7H13ClO	3-methylhexanoyl chloride	57323-93-0	436.15	37.785	1,2
11508	C7H12O3	ethyl 2-methylacetoacetate	609-14-3	460.15	40.069	1,2	11596	C7H13ClO	4-methylhexanoyl chloride	50599-73-0	440.15	38.165	1,2
11509	C7H12O3	ethyl 2-oxopentanoate	50461-74-0	455.65	39.640	1,2	11597	C7H13ClO2	butyl 2-chloropropanoate	54819-86-2	457.15	39.783	1,2
11510	C7H12O3	ethyl 3-oxopentanoate	4949-44-4	464.15	40.451	1,2	11598	C7H13ClO2	butyl 3-chloropropanoate	27387-79-7	449.45	39.049	2
11511	C7H12O3	isopropyl 3-oxobutanoate	542-08-5	459.15	39.973	1,2	11599	C7H13ClO2	2-chloroethyl pentanoate	7735-33-3	458.15	39.878	1,2
11512	C7H12O3	methyl 2-ethylacetoacetate	51756-08-2	455.15	39.592	1,2	11600	C7H13ClO2	ethyl 2-chloro-2-methylbutanoate	58190-94-6	449.15	39.021	1,2
11513	C7H12O3	methyl 3-methyl-4-oxopentanoate	25234-83-7	473.15	41.310	1,2	11601	C7H13ClO2	ethyl 2-chloro-3-methylbutanoate	91913-99-4	452.15	39.306	1,2
11514	C7H12O3	4-methyl-5-oxohexanoic acid	6818-07-1	462.84	40.325	2	11602	C7H13ClO2	ethyl 3-chloropentanoate	6513-13-9	462.15	40.260	1,2
11515	C7H12O3	1,2-propanediol 1-methacrylate	923-26-2	462.84	40.325	2	11603	C7H13ClO2	ethyl 4-chloropentanoate	70786-82-2	469.15	40.928	1,2
11516	C7H12O3	tetrahydro-2-furanpropanoic acid	935-12-6	536.15	47.368	1,2	11604	C7H13ClO2	ethyl 5-chloropentanoate	2323-81-1	478.65	41.837	1,2
11517	C7H12O3	tetrahydrofurfuryl acetate	637-64-9	466.15	40.641	1,2	11605	C7H13ClO2	isobutyl 2-chloropropanoate	114489-96-2	449.15	39.021	1,2
11518	C7H12O3	2,5-dihydro-2,5-dimethoxy-2-methylfuran	22414-24-0	462.84	40.325	2	11606	C7H13ClO2	isobutyl 3-chloropropanoate	62108-68-3	464.45	40.479	1,2
11519	C7H12O3	ethylene glycol methyl ether methacrylate	6976-93-8	462.84	40.325	2	11607	C7H13ClO2	propyl 2-chlorobutanoate	62108-71-8	456.15	39.687	1,2
11520	C7H12O3	ethyl 3-ethoxyacrylate	1001-26-9	468.65	40.880	1,2	11608	C7H13ClO2	5-chloropentyl acetate	20395-28-2	449.45	39.049	2
11521	C7H12O3	ethyl 3-methyl-2-oxobutyrate	20201-24-5	335.15	28.301	1,2	11609	C7H13ClO2	2-(3-chloropropyl)-2-methyl-1,3-dioxolane	5978-08-5	347.65	29.462	1,2
11522	C7H12O3	(R)-(-)-glycidyl butyrate	60456-26-0	462.84	40.325	2	11610	C7H13ClO2	hexyl chloroformate	6092-54-2	449.45	39.049	2
11523	C7H12O3	(S)-(+)-glycidyl butyrate	65031-96-1	462.84	40.325	2	11612	C7H13Cl3	1,1,1-trichloroheptane	3922-26-7	476.15	42.099	1,2
11524	C7H12O3	4-hydroxybutyl acrylate	2478-10-6	462.84	40.325	2	11613	C7H13F	cis-1-fluoro-1-heptene	28028-91-3	362.99	31.443	2
11525	C7H12O3	hydroxypropyl methacrylate	27813-02-1	513.15	45.149	1,2	11614	C7H13F	trans-1-fluoro-1-heptene	28028-92-4	362.99	31.443	2
11526	C7H12O3	6-oxoheptanoic acid	3218-07-2	462.84	40.325	2	11618	C7H13F3	1,1,1-trifluoroheptane	693-09-4	374.15	32.604	1,2
11527	C7H12O3	butanoic acid, 3-oxo-, propyl ester	1779-60-8	467.00	40.723	1,2	11619	C7H13I	cis-1-iodo-1-heptene	63318-29-6	465.15	40.726	1,2
11528	C7H12O3	botryodiplodin	27098-03-9	462.84	40.325	2	11620	C7H13I	trans-1-iodo-1-heptene	60595-37-1	465.15	40.726	1,2
11529	C7H12O3	1,2-dimethylcyclopentene ozonide	---	462.84	40.325	2	11621	C7H13I3	1,1,1-triiodoheptane	---	635.75	56.619	2
11530	C7H12O4	diethyl malonate	105-53-3	472.05	46.086	1,2	11622	C7H13N	heptanenitrile	629-08-3	457.65	41.748	1,2
11531	C7H12O4	butylpropanedioic acid	534-59-8	464.16	40.452	2	11624	C7H13N	3-ethyl-1-pentyn-3-amine	3234-64-8	423.10	36.547	2
11532	C7H12O4	diethylpropanedioic acid	510-20-3	464.16	40.452	2	11625	C7H13N	3-vinylpiperidine	57502-49-5	426.65	36.884	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
11626	C7H13N	exo-2-aminonorbornane	7242-92-4	423.10	36.547	2	11764	C7H14Cl2	1,2-dichloro-4,4-dimethylpentane	6065-90-3	448.15	37.440	1,2
11627	C7H13N	hexahydro-1H-pyrrolizine	643-20-9	423.10	36.547	2	11765	C7H14Cl2	1,5-dichloro-3,3-dimethylpentane	62496-53-1	454.15	39.419	2
11628	C7H13N	methyldiallylamine	2424-01-3	385.00	32.954	1,2	11766	C7H14Cl2	2,4-dichloro-2,4-dimethylpentane	33553-93-4	454.15	39.419	2
11629	C7H13N	N,N-diethyl-1-propynylamine	4231-35-0	423.10	36.547	2	11767	C7H14Cl2	1,2-dichloroheptane	10575-87-8	454.15	39.419	2
11630	C7H13N	N,N-diethyl-2-propynylamine	4079-68-9	423.10	36.547	2	11768	C7H14Cl2	1,7-dichloroheptane	821-76-1	454.15	39.419	2
11631	C7H13N	2-methyl-2-azabicyclo(2.2.1)heptane	4524-95-2	423.10	36.547	2	11769	C7H14Cl2	2,2-dichloroheptane	65786-09-6	454.15	39.419	2
11632	C7H13NO	1-acetylpiperidine	618-42-8	499.65	43.850	1,2	11770	C7H14Cl2	4,4-dichloroheptane	89796-76-9	454.15	39.419	1,2
11634	C7H13NO	N-cyclohexylformamide	766-93-8	533.15	47.078	1,2	11772	C7H14F2	1,1-difluoroheptane	407-96-5	392.85	34.297	1,2
11635	C7H13NO	1-aza-2-cyclooctanone	673-66-5	488.25	42.756	2	11774	C7H14I2	1,1-diiodoheptane	66675-46-5	545.40	48.555	2
11636	C7H13NO	1-aza-2-methoxy-1-cycloheptene	2525-16-8	488.25	42.756	2	11776	C7H14NO2PS3	dithiolane iminophosphate	333-29-9	540.15	47.755	1,2
11637	C7H13NO	3-butoxypropionitrile	6959-71-3	483.15	42.268	1,2	11779	C7H14NO3PS2	cyolane	947-02-4	389.65	33.391	1,2
11638	C7H13NO	cyclohexanecarboxamide	1122-56-1	488.25	42.756	2	11782	C7H14N2	N,N'-diisopropylcarbodiimide	693-13-0	420.15	36.268	1,2
11639	C7H13NO	1-ethyl-4-piperidone	3612-18-8	488.25	42.756	2	11783	C7H14N2	1-tert-butyl-3-ethylcarbodiimide	1433-27-8	411.15	35.417	1,2
11640	C7H13NO	hexyl isocyanate	2525-62-4	436.15	37.785	1,2	11784	C7H14N2	3-(diethylamino)propionitrile	5351-04-2	470.15	41.024	1,2
11641	C7H13NO	1-isopropyl-2-pyrrolidinone	3772-26-7	489.15	42.843	1,2	11785	C7H14N2	diisopropylcyanamide	3085-76-5	366.65	31.235	1,2
11642	C7H13NO	N-methylcaprolactam	2556-73-2	488.25	42.756	2	11786	C7H14N2O	cis-2-amino-1-cyclohexanecarboxamide	115014-77-2	401.82	34.536	2
11644	C7H13NO	N-tert-butylacrylamide	107-58-4	488.25	42.756	2	11787	C7H14N2O	1-(3-aminopropyl)-2-pyrrolidinone	7663-77-6	394.65	33.861	1,2
11666	C7H13NO2	2-nitro-2-heptene	6065-14-1	460.00	40.055	2	11788	C7H14N2O	2,6-dimethylnitrosopiperidine	17721-95-8	401.82	34.536	2
11667	C7H13NO2	3-nitro-2-heptene	6065-13-0	460.00	40.055	2	11789	C7H14N2O	3,5-dimethylnitrosopiperidine	65445-59-2	401.82	34.536	2
11696	C7H14	ethylcyclopentane	1640-89-7	376.62	32.246	1,2	11790	C7H14N2O	cis-3,5-dimethyl-1-nitrosopiperidine	78338-31-5	401.82	34.536	2
11697	C7H14	1,1-dimethylcyclopentane	1638-26-2	361.00	35.636	1,2	11791	C7H14N2O	trans-3,5-dimethyl-1-nitrosopiperidine	78338-32-6	401.82	34.536	2
11698	C7H14	1,2-dimethylcyclopentane	2452-99-5	370.00	32.016	1,2	11792	C7H14N2O	N-nitroso-N-methylcyclohexylamine	5432-28-0	401.82	34.536	2
11699	C7H14	cis-1,2-dimethylcyclopentane	1192-18-3	372.68	31.712	1,2	11793	C7H14N2O	octahydro-1-nitrosoazocine	20917-49-1	371.15	31.656	1,2
11700	C7H14	trans-1,2-dimethylcyclopentane	822-50-4	365.02	31.196	1,2	11794	C7H14N2O	pentanal methylformylhydrazone	57590-20-2	439.65	38.117	1,2
11701	C7H14	1,3-dimethylcyclopentane	2453-00-1	365.10	30.576	1,2	11795	C7H14N2OS	2-butyl-3-nitrosothiazolidine	72505-66-9	337.05	28.477	1,2
11702	C7H14	cis-1,3-dimethylcyclopentane	2532-58-3	363.92	30.755	1,2	11796	C7H14N2OS	N-nitrosoisobutylthiazolidine	72505-67-0	337.05	28.477	2
11703	C7H14	trans-1,3-dimethylcyclopentane	1759-58-6	364.88	31.370	1,2	11797	C7H14N2O2	ethyl 1-piperazinecarboxylate	120-43-4	510.15	44.860	1,2
11704	C7H14	methylcyclohexane	108-87-2	374.08	31.823	1,2	11798	C7H14N2O2	N-acetyl L-valinamide	37933-88-3	510.15	44.860	2
11705	C7H14	cycloheptane	291-64-5	391.94	33.547	1,2	11799	C7H14N2O2	3-(3-butenylnitrosamino)-1-propanol	---	510.15	44.860	2
11706	C7H14	1-heptene	592-76-7	366.79	31.739	1,2	11800	C7H14N2O2	1-(butylnitrosoamino)-2-propanone	51938-15-9	510.15	44.860	2
11707	C7H14	2-heptene	592-77-8	371.40	33.555	1,2	11801	C7H14N2O2	4-hydroxybutyl(2-propenyl)nitrosamine	61424-17-7	510.15	44.860	2
11708	C7H14	cis-2-heptene	6443-92-1	371.56	31.159	1,2	11802	C7H14N2O2	4-methyl-4-N-(nitrosomethylamino)-2-pentanone	16339-21-2	510.15	44.860	2
11709	C7H14	trans-2-heptene	14686-13-6	371.10	31.726	1,2	11815	C7H14N2O4	ethyl N-tert-butyl-N-nitrocarbamate	55696-02-1	554.15	49.111	2
11710	C7H14	3-heptene	592-78-9	369.00	32.727	1,2	11817	C7H14N2O4	methylene diurethan	3693-53-6	554.15	49.111	1,2
11711	C7H14	3-heptene (mixed isomers)	25339-56-4	363.69	31.001	2	11826	C7H14N4S2	1-methyl-6-(1-methylallyl)-2,5-dithiobiurea	926-93-2	396.65	34.050	1,2
11712	C7H14	cis-3-heptene	7642-10-6	368.90	31.581	1,2	11827	C7H14O	1-heptanal	111-71-7	425.95	38.800	1,2
11713	C7H14	trans-3-heptene	14686-14-7	368.82	31.486	1,2	11828	C7H14O	3-methylhexanal	19269-28-4	416.15	36.564	1,2
11714	C7H14	2-methyl-1-hexene	6094-02-6	364.99	31.083	1,2	11828.1	C7H14O	2-methylhexanal	925-54-2	416.00	38.532	1,2
11715	C7H14	3-methyl-1-hexene	3404-61-3	357.05	30.731	1,2	11829	C7H14O	2-heptanone	110-43-0	424.05	38.620	1,2
11716	C7H14	4-methyl-1-hexene	3769-23-1	359.88	30.623	1,2	11830	C7H14O	3-heptanone	106-35-4	420.55	38.045	1,2
11717	C7H14	5-methyl-1-hexene	3524-73-0	358.46	30.419	1,2	11831	C7H14O	4-heptanone	123-19-3	417.15	37.724	1,2
11718	C7H14	2-methyl-2-hexene	2738-19-4	368.56	31.281	1,2	11832	C7H14O	3-methyl-2-hexanone	2550-21-2	413.15	36.997	1,2
11719	C7H14	3-methyl-cis-2-hexene	10574-36-4	370.41	31.446	1,2	11833	C7H14O	4-methyl-2-hexanone	105-42-0	412.15	36.903	1,2
11720	C7H14	3-methyl-trans-2-hexene	20710-38-7	368.33	31.261	1,2	11834	C7H14O	5-methyl-2-hexanone	110-12-3	417.95	38.431	1,2
11721	C7H14	4-methyl-cis-2-hexene	3683-19-0	359.46	30.434	1,2	11835	C7H14O	2-methyl-3-hexanone	7379-12-6	406.15	36.341	1,2
11722	C7H14	4-methyl-trans-2-hexene	3683-22-5	360.71	30.545	1,2	11836	C7H14O	4-methyl-3-hexanone	17042-16-9	409.15	36.622	1,2
11723	C7H14	5-methyl-cis-2-hexene	13151-17-2	362.65	30.718	1,2	11837	C7H14O	5-methyl-3-hexanone	623-56-3	409.15	36.622	1,2
11724	C7H14	5-methyl-trans-2-hexene	7385-82-2	361.26	30.594	1,2	11838	C7H14O	3-ethyl-2-pentanone	6137-03-7	411.15	36.809	1,2
11725	C7H14	2-methyl-cis-3-hexene	15840-60-5	359.15	30.407	1,2	11839	C7H14O	3,3-dimethyl-2-pentanone	20669-04-9	403.75	35.417	1,2
11726	C7H14	2-methyl-trans-3-hexene	692-24-0	359.05	30.398	1,2	11840	C7H14O	3,4-dimethyl-2-pentanone	565-78-6	405.15	35.911	1,2
11727	C7H14	3-methyl-cis-3-hexene	4914-89-0	368.55	31.280	1,2	11841	C7H14O	4,4-dimethyl-2-pentanone	590-50-1	398.15	34.903	1,2
11728	C7H14	3-methyl-trans-3-hexene	3899-36-3	366.69	31.115	1,2	11842	C7H14O	2,2-dimethyl-3-pentanone	564-04-5	398.15	34.903	1,2
11729	C7H14	2-ethyl-1-pentene	3404-71-5	367.15	31.328	1,2	11843	C7H14O	2,4-dimethyl-3-pentanone	565-80-0	397.55	35.973	1,2
11730	C7H14	3-ethyl-1-pentene	4038-04-4	357.26	30.675	1,2	11844	C7H14O	1-methylcyclohexanol	590-67-0	430.15	45.951	1,2
11731	C7H14	2,3-dimethyl-1-pentene	3404-72-6	357.43	30.096	1,2	11845	C7H14O	cis-2-methylcyclohexanol	7443-70-1	438.15	46.168	1,2
11732	C7H14	2,4-dimethyl-1-pentene	2213-32-3	354.76	29.860	1,2	11846	C7H14O	trans-2-methylcyclohexanol	7443-52-9	439.65	46.596	1,2
11733	C7H14	3,3-dimethyl-1-pentene	3404-73-7	350.63	29.173	1,2	11847	C7H14O	cis-3-methylcyclohexanol	5454-79-5	441.15	47.405	1,2
11734	C7H14	3,4-dimethyl-1-pentene	7385-78-6	353.95	29.752	1,2	11848	C7H14O	trans-3-methylcyclohexanol	7443-55-2	441.15	47.019	1,2
11735	C7H14	4,4-dimethyl-1-pentene	762-62-9	345.67	28.740	1,2	11849	C7H14O	cis-4-methylcyclohexanol	7731-28-4	444.15	48.597	1,2
11736	C7H14	3-ethyl-2-pentene	816-79-5	369.16	31.335	1,2	11850	C7H14O	trans-4-methylcyclohexanol	7731-29-5	444.15	48.428	1,2
11737	C7H14	2,3-dimethyl-2-pentene	10574-37-5	370.55	31.219	1,2	11851	C7H14O	trans-2-methylcyclohexanol, (±)	615-39-4	440.65	38.212	1,2
11738	C7H14	2,4-dimethyl-2-pentene	625-65-0	356.45	29.937	1,2	11852	C7H14O	cycloheptanol	502-41-0	458.15	39.878	1,2
11739	C7H14	3,4-dimethyl-cis-2-pentene	4914-91-4	362.40	30.462	1,2	11853	C7H14O	cyclohexanemethanol	100-49-2	456.15	39.687	1,2
11740	C7H14	3,4-dimethyl-trans-2-pentene	4914-92-5	364.65	30.660	1,2	11854	C7H14O	cyclopentaneethanol	766-00-7	456.15	39.687	1,2
11741	C7H14	4,4-dimethyl-cis-2-pentene	762-63-0	353.58	29.423	1,2	11855	C7H14O	1-hepten-4-ol	3521-91-3	425.25	36.751	1,2
11742	C7H14	4,4-dimethyl-trans-2-pentene	690-08-4	349.89	29.040	1,2	11856	C7H14O	2-hepten-4-ol, (±)	115113-98-9	426.15	36.836	1,2
11743	C7H14	3-methyl-2-ethyl-1-butene	7357-93-9	359.52	30.280	1,2	11857	C7H14O	3-hepten-2-ol	98991-54-9	423.67	36.601	2
11744	C7H14	2,3,3-trimethyl-1-butene	594-56-9	351.04	29.291	1,2	11858	C7H14O	6-hepten-2-ol	24395-10-6	423.67	36.601	2
11745	C7H14	3,4-dimethylpent-2-ene	24910-63-2	360.80	30.115	1,2	11859	C7H14O	6-hepten-3-ol	19781-77-2	423.67	36.601	2
11746	C7H14	1,1,2,2-tetramethylcyclopropane	4127-47-3	363.69	30.958	2	11860	C7H14O	cis-2-hepten-1-ol	55454-22-3	451.15	39.211	1,2
11747	C7H14	1,1-diethylcyclopropane	1003-19-6	361.80	30.781	1,2	11861	C7H14O	trans-2-hepten-1-ol	33467-76-4	451.15	39.211	1,2
11751	C7H14Br2	1,1-dibromoheptane	59104-79-9	495.15	46.762	1,2	11862	C7H14O	2-methyl-3-hexen-2-ol	18812-62-9	423.67	36.601	2
11752	C7H14Br2	1,2-dibromoheptane	42474-21-5	501.15	43.995	1,2	11863	C7H14O	2-methyl-4-hexen-3-ol	4798-60-1	412.65	35.559	1,2
11753	C7H14Br2	1,5-dibromoheptane	1622-10-2	510.82	44.924	2	11864	C7H14O	2-methyl-5-hexen-2-ol	16744-89-1	415.65	35.842	1,2
11754	C7H14Br2	1,7-dibromoheptane	4549-31-9	536.15	47.368	1,2	11865	C7H14O	3-methyl-3-hexen-2-ol	110383-31-8	423.67	36.601	2
11755	C7H14Br2	2,3-dibromoheptane	21266-88-6	510.82	44.924	2	11866	C7H14O	3-methyl-4-hexen-3-ol	60111-14-0	423.67	36.601	2
11756	C7H14Br2	3,4-dibromoheptane	21266-90-0	510.82	44.924	2	11867	C7H14O	3-methyl-5-hexen-3-ol	1569-44-4	412.15	35.512	1,2
11759	C7H14ClNO2	methyl-b-acetoxyethyl-b-chloroethylamine	36375-30-1	275.65	22.829	1,2	11868	C7H14O	4-methyl-5-hexen-3-ol	1838-77-3	413.65	35.653	1,2
11761	C7H14ClN3O2	nitrosochloroethyldiethylurea	69113-00-4	497.65	43.658	1,2	11869	C7H14O	5-methyl-1-hexen-3-ol	4798-46-3	398.15	34.191	1,2
11763	C7H14Cl2	1,1-dichloroheptane	821-25-0	460.15	40.814	1,2	11870	C7H14O	5-methyl-2-hexenol	77053-92-0	442.15	38.355	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
11871	C7H14O	isopentyl vinyl ether	39782-38-2	385.65	33.015	1,2	11951	C7H14O5	methyl-L-fucopyranoside	65310-00-1	504.15	44.283	2
11872	C7H14O	methoxycyclohexane	931-56-6	406.15	34.945	1,2	11960	C7H14S	thiacyclooctane	6572-99-2	471.15	40.632	1,2
11873	C7H14O	tetrahydro-2-propylfuran	3208-22-8	409.15	35.228	1,2	11961	C7H14S	2-ethylthiacyclohexane	1613-52-1	426.94	36.747	2
11874	C7H14O	1-cyclopentylethanol	52829-98-8	440.15	38.165	1,2	11962	C7H14S	3-ethylthiacyclohexane	61568-48-7	426.94	36.747	2
11875	C7H14O	1-hepten-3-ol	4938-52-7	427.65	36.978	1,2	11963	C7H14S	4-ethylthiacyclohexane	40324-31-0	426.94	36.747	2
11876	C7H14O	cis-4-hepten-1-ol	6191-71-5	423.67	36.601	2	11964	C7H14S	2,2-dimethylthiacyclohexane	---	427.18	36.470	2
11877	C7H14O	methylcyclohexanol	25639-42-3	440.65	38.212	1,2	11965	C7H14S	2,cis-3-dimethylthiacyclohexane	---	422.27	35.915	2
11878	C7H14O	2-methylcyclohexanol; (cis+trans)	583-59-5	438.90	38.046	1,2	11966	C7H14S	2,trans-3-dimethylthiacyclohexane	---	422.27	35.915	2
11879	C7H14O	4-methylcyclohexanol; (cis+trans)	589-91-3	445.15	38.640	1,2	11967	C7H14S	2,cis-4-dimethylthiacyclohexane	---	422.27	35.915	2
11880	C7H14O	3-methylcyclohexanol; (cis+trans)	591-23-1	440.25	38.174	1,2	11968	C7H14S	2,trans-4-dimethylthiacyclohexane	---	422.27	35.915	2
11881	C7H14O	tert-pentyl vinyl ether	29281-39-8	379.15	32.405	1,2	11969	C7H14S	2,cis-5-dimethylthiacyclohexane	---	422.27	35.915	2
11882	C7H14O	1-(2-propenyloxy)butane	3739-64-8	423.67	36.601	2	11970	C7H14S	2,trans-5-dimethylthiacyclohexane	---	422.27	35.915	2
11883	C7H14OSi	1-trimethylsiloxy-1,3-butadiene	6651-43-0	404.15	34.756	1,2	11971	C7H14S	2,cis-6-dimethylthiacyclohexane	---	422.27	35.915	2
11884	C7H14O2	heptanoic acid	111-14-8	496.15	51.731	1,2	11972	C7H14S	2,trans-6-dimethylthiacyclohexane	---	422.27	35.915	2
11885	C7H14O2	2-ethyl-2-methylbutanoic acid	19889-37-3	480.15	41.980	1,2	11973	C7H14S	3,3-dimethylthiacyclohexane	---	427.18	36.470	2
11886	C7H14O2	2-ethylpentanoic acid, (±)	116908-83-9	482.35	42.191	1,2	11974	C7H14S	3,cis-4-dimethylthiacyclohexane	---	422.27	35.915	2
11887	C7H14O2	2-methylhexanoic acid, (±)	22160-12-9	488.65	42.795	1,2	11975	C7H14S	3,trans-4-dimethylthiacyclohexane	---	422.27	35.915	2
11888	C7H14O2	3-methylhexanoic acid	3780-58-3	486.15	42.555	1,2	11976	C7H14S	3,cis-5-dimethylthiacyclohexane	---	422.27	35.915	2
11889	C7H14O2	4-methylhexanoic acid, (±)	22160-41-4	490.65	42.986	1,2	11977	C7H14S	3,trans-5-dimethylthiacyclohexane	---	422.27	35.915	2
11890	C7H14O2	5-methylhexanoic acid	628-46-6	489.15	42.843	1,2	11978	C7H14S	4,4-dimethylthiacyclohexane	---	427.18	36.470	2
11891	C7H14O2	hexyl formate	629-33-4	428.65	38.241	1,2	11979	C7H14Si	1-methyl-1-(trimethylsilyl)allene	74542-82-8	384.65	32.921	1,2
11892	C7H14O2	pentyl acetate	628-63-7	422.15	38.540	1,2	11982	C7H15Br	1-bromoheptane	629-04-9	452.05	40.967	1,2
11893	C7H14O2	1-methylbutyl acetate	626-38-0	406.15	36.229	1,2	11983	C7H15Br	2-bromoheptane	1974-04-5	439.15	37.724	1,2
11894	C7H14O2	2-methylbutyl acetate	624-41-9	413.15	36.880	1,2	11984	C7H15Br	4-bromoheptane	998-93-6	434.15	36.205	1,2
11895	C7H14O2	isopentyl acetate	123-92-2	415.25	37.603	1,2	11988	C7H15Cl	1-chloroheptane	629-06-1	433.59	38.144	1,2
11896	C7H14O2	1-ethylpropyl acetate	620-11-1	405.15	36.193	1,2	11989	C7H15Cl	2-chloro-2,3-dimethylpentane	59889-45-1	413.42	32.405	2
11897	C7H14O2	tert-pentyl acetate	625-16-1	397.15	34.994	1,2	11990	C7H15Cl	2-chloro-2,4-dimethylpentane	35951-33-8	401.15	29.258	1,2
11898	C7H14O2	1,2-dimethylpropyl acetate	5343-96-4	401.65	35.561	1,2	11991	C7H15Cl	3-chloro-2,3-dimethylpentane	595-38-0	401.15	29.258	2
11899	C7H14O2	neopentyl acetate	926-41-0	401.15	35.017	1,2	11992	C7H15Cl	4-chloro-2,2-dimethylpentane	33429-72-0	401.15	29.258	1,2
11900	C7H14O2	sec-pentyl acetate (R)	54638-10-7	415.15	35.795	1,2	11993	C7H15Cl	3-chloro-3-ethylpentane	994-25-2	416.65	33.314	1,2
11901	C7H14O2	butyl propanoate	590-01-2	419.75	38.663	1,2	11994	C7H15Cl	2-chloroheptane	1001-89-4	413.42	32.405	2
11902	C7H14O2	isobutyl propanoate	540-42-1	409.75	35.597	1,2	11995	C7H15Cl	3-chloroheptane	999-52-0	417.15	33.458	1,2
11903	C7H14O2	sec-butyl propanoate	591-34-4	406.15	40.061	1,2	11996	C7H15Cl	4-chloroheptane	998-95-8	417.15	33.458	1,2
11904	C7H14O2	tert-butyl propanoate	20487-40-5	414.55	41.093	2	11997	C7H15Cl	1-chloro-3-methylhexane	101257-63-0	424.15	35.572	1,2
11905	C7H14O2	propyl butanoate	105-66-8	416.45	37.487	1,2	11998	C7H15Cl	2-chloro-2-methylhexane	4398-65-6	408.15	30.998	2
11906	C7H14O2	isopropyl butanoate	638-11-9	404.15	36.024	1,2	11999	C7H15Cl	2-chloro-5-methylhexane	58766-17-9	411.15	31.788	2
11907	C7H14O2	isopropyl isobutanoate	617-50-5	393.85	32.298	1,2	12000	C7H15Cl	3-chloro-3-methylhexane	43197-78-0	408.15	30.998	1,2
11908	C7H14O2	propyl isobutanoate	644-49-5	408.55	37.164	1,2	12001	C7H15Cl	2-chloro-2,3,3-trimethylbutane	918-07-0	413.42	32.405	2
11909	C7H14O2	ethyl isovalerate	108-64-5	407.45	36.614	1,2	12007	C7H15ClSi	2-(chloromethyl)allyl-trimethylsilane	18388-03-9	435.65	37.737	1,2
11910	C7H14O2	ethyl 2,2-dimethylpropanoate	3938-95-2	391.55	32.123	1,2	12012	C7H15Cl2N2O4P	carboxycyclophosphamide	22788-18-7	352.85	29.946	2
11911	C7H14O2	ethyl 2-methylbutanoate, (+)	10307-61-6	405.15	35.946	1,2	12013	C7H15Cl2N2O4P	4-hydroperoxyifosfamide	67292-63-1	305.15	25.530	1,2
11912	C7H14O2	ethyl pentanoate	539-82-2	419.25	36.183	1,2	12014	C7H15Cl2N2O4P	4-hydroperoxyphosphamide	67292-61-9	400.55	34.417	1,2
11913	C7H14O2	methyl 2-ethylbutanoate	816-11-5	409.15	35.228	1,2	12015	C7H15F	1-fluoroheptane	661-11-0	391.05	34.319	1,2
11914	C7H14O2	methyl hexanoate	106-70-7	422.65	36.505	1,2	12020	C7H15I	1-iodoheptane	4282-40-0	477.10	48.545	1,2
11915	C7H14O2	butyl glycidyl ether	2426-08-6	442.15	38.355	1,2	12021	C7H15I	2-iodoheptane	18589-29-2	477.10	41.688	2
11916	C7H14O2	1,1-diethoxy-1-propene	21504-43-8	406.65	34.992	1,2	12022	C7H15I	3-iodoheptane	31294-92-5	477.10	41.688	2
11917	C7H14O2	3,3-diethoxy-1-propene	3054-95-3	396.65	34.050	1,2	12023	C7H15I	4-iodoheptane	31294-93-6	477.10	41.688	2
11918	C7H14O2	[(1,1-dimethylethoxy)methyl]oxirane	7665-72-7	425.15	36.741	1,2	12024	C7H15N	N-methylcyclohexylamine	100-60-7	422.00	38.629	1,2
11919	C7H14O2	2-hydroxy-4-heptanone	54862-92-9	427.81	36.993	2	12025	C7H15N	cyclohexanemethanamine	3218-02-8	433.15	42.787	1,2
11920	C7H14O2	2-hydroxy-2-methyl-3-hexanone	18905-91-4	440.15	38.165	1,2	12026	C7H15N	cis-2-methylcyclohexylamine	2164-19-4	426.65	40.340	1,2
11921	C7H14O2	5-hydroxy-2-methyl-3-hexanone	59357-07-2	427.81	36.993	2	12027	C7H15N	trans-2-methylcyclohexylamine	931-10-2	423.15	39.108	1,2
11922	C7H14O2	4-methoxy-4-methyl-2-pentanone	107-70-0	433.15	37.500	1,2	12028	C7H15N	cis-3-methylcyclohexylamine	1193-16-4	426.15	40.161	1,2
11923	C7H14O2	ethyl 2-methylbutyrate	7452-79-1	405.90	35.916	1,2	12029	C7H15N	trans-3-methylcyclohexylamine	1193-17-5	424.65	39.629	1,2
11924	C7H14O2	glycidyl isobutyl ether	3814-55-9	432.65	37.453	1,2	12030	C7H15N	cis-4-methylcyclohexylamine	2523-56-0	426.65	40.340	1,2
11925	C7H14O2	2-methylhexanoic acid	4536-23-6	482.65	42.220	1,2	12031	C7H15N	trans-4-methylcyclohexylamine	2523-55-9	425.15	39.805	1,2
11926	C7H14O2	neoheptanoic acid	33113-10-9	427.81	30.815	2	12032	C7H15N	2,6-dimethylpiperidine	504-03-0	400.15	34.379	1,2
11927	C7H14O2	tetrahydro-2-furanpropanol	767-08-8	427.81	36.993	2	12033	C7H15N	3,3-dimethylpiperidine	1193-12-0	410.15	35.323	1,2
11927.1	C7H14O2	allyl-tert-butylperoxide	39972-78-6	389.94	35.200	1,2	12034	C7H15N	1,2-dimethylpiperidine, (±)	2512-81-4	400.65	34.426	1,2
11927.2	C7H14O2	neoheptanoic acid	1185-39-3	475.65	50.938	1,2	12035	C7H15N	2,5-dimethylpiperidine	34893-50-0	410.15	35.323	1,2
11931	C7H14O3	ethyl-3-ethoxypropionate	763-69-9	438.15	42.563	1,2	12036	C7H15N	3,5-dimethylpiperidine	35794-11-7	417.15	35.984	1,2
11932	C7H14O3	diisopropyl carbonate	6482-34-4	420.15	36.268	1,2	12037	C7H15N	1-ethylpiperidine	766-09-6	403.95	34.738	1,2
11933	C7H14O3	dipropyl carbonate	623-96-1	441.15	38.260	1,2	12038	C7H15N	2-ethylpiperidine, (±)	78738-37-1	415.65	35.842	1,2
11934	C7H14O3	ethylene glycol monopentanoate	16179-36-5	463.15	40.355	1,2	12039	C7H15N	3-ethylpiperidine, (±)	59433-08-8	425.75	36.798	1,2
11934.1	C7H14O3	propylene glycol ethyl ether acetate	54839-24-6	438.00	41.879	1,2	12040	C7H15N	4-ethylpiperidine	3230-23-7	427.15	36.931	1,2
11935	C7H14O3	ethyl 4-hydroxypentanoate	6149-46-8	442.18	38.357	2	12041	C7H15N	octahydroazocine	1121-92-2	410.43	35.349	2
11936	C7H14O3	butoxyl	4435-53-4	408.15	35.134	1,2	12042	C7H15N	1-propylpyrrolidine	7335-07-1	405.65	34.898	1,2
11937	C7H14O3	butyl lactate	138-22-7	452.15	39.306	1,2	12043	C7H15N	3-propylpyrrolidine	116632-47-4	432.15	37.405	1,2
11938	C7H14O3	butyl (S)-(-)-lactate	34451-19-9	459.15	39.973	1,2	12044	C7H15N	2,2,4-trimethylpyrrolidine	35018-28-1	392.15	33.626	1,2
11939	C7H14O3	5-ethyl-1,3-dioxane-5-methanol	5187-23-5	442.18	38.357	2	12045	C7H15N	2,2,5-trimethylpyrrolidine	6496-48-6	385.15	32.968	1,2
11940	C7H14O3	(+)-isobutyl D-lactate	61597-96-4	455.35	39.611	1,2	12046	C7H15N	cycloheptylamine	5452-35-7	327.15	27.560	1,2
11941	C7H14O3	2-propoxyethyl acetate	20706-25-6	442.18	38.357	2	12047	C7H15N	cis-2,6-dimethylpiperidine	766-17-6	400.65	34.426	1,2
11942	C7H14O3	3-butoxy propanoic acid	7420-06-6	442.18	38.357	2	12048	C7H15N	2-ethylpiperidine	1484-80-6	414.70	35.753	1,2
11943	C7H14O3	4-(2,3-epoxypropoxy)butanol	4711-95-9	442.18	38.357	2	12049	C7H15N	3-methylcyclohexylamine	6850-35-7	423.15	39.108	1,2
11944	C7H14O4	2,6-dideoxy-3-O-methyl-ribo-hexose	579-04-4	441.43	38.286	2	12050	C7H15N	2-methylcyclohexylamine; (cis+trans)	7003-32-9	422.65	38.936	1,2
11945	C7H14O4	glycerol 1-butanoate	557-25-5	553.15	49.014	1,2	12051	C7H15N	4-methylcyclohexylamine	6321-23-9	425.65	39.982	1,2
11946	C7H14O4	L-(+)-2,2-dimethyl-1,3-dioxolane-4,5-dimetha*	50622-09-8	365.15	31.094	1,2	12052	C7H15N	allyldiethylamine	5666-17-1	336.50	28.426	1,2
11947	C7H14O4	(-)-2,3-O-isopropylidene-D-threitol	73346-74-4	365.15	31.094	1,2	12053	C7H15N	4,4-dimethylpiperidine	4045-30-1	418.70	36.131	1,2
11948	C7H14O4	2-(2-methoxyethoxy)ethyl acetate	629-38-9	482.25	42.181	1,2	12054	C7H15NO	1-(diethylamino)-2-propanone	1620-14-0	430.15	37.215	2
11949	C7H14O5	6-deoxy-3-O-methylgalactose	4481-08-7	504.15	44.283	2	12055	C7H15NO	N,N-diethylpropanamide	1114-51-8	464.15	40.451	1,2
11950	C7H14O5	2-methoxyethyl carbonate (2:1)	626-84-6	504.15	44.283	1,2	12056	C7H15NO	N,N-dimethylpentanamide	6225-06-5	458.76	39.936	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
12057	C7H15NO	2,4-dimethyl-3-pentanone oxime	1113-74-2	454.15	39.497	1,2	12174	C7H16O	4-methyl-2-hexanol	2313-61-3	424.15	41.743	1,2
12058	C7H15NO	1-ethyl-3-piperidinol	13444-24-1	458.76	39.936	2	12175	C7H16O	5-methyl-2-hexanol	627-59-8	424.15	41.743	1,2
12059	C7H15NO	heptanal oxime	629-31-2	468.15	40.833	1,2	12176	C7H16O	2-methyl-3-hexanol	617-29-8	418.15	41.128	1,2
12060	C7H15NO	heptanamide	628-62-6	527.15	46.499	1,2	12177	C7H16O	3-methyl-3-hexanol	597-96-6	415.95	40.450	1,2
12061	C7H15NO	5-methyl-2-hexanone oxime	624-44-2	468.65	40.880	1,2	12178	C7H16O	4-methyl-3-hexanol	615-29-2	422.15	41.538	1,2
12062	C7H15NO	1-methyl-3-piperidinemethanol	7583-53-1	415.65	35.842	1,2	12179	C7H16O	5-methyl-3-hexanol	623-55-2	421.15	41.435	1,2
12063	C7H15NO	1-piperidineethanol	3040-44-6	475.15	41.502	1,2	12180	C7H16O	2-ethyl-1-pentanol	27522-11-8	439.15	43.718	1,2
12064	C7H15NO	2-piperidineethanol	1484-84-0	475.15	41.502	1,2	12181	C7H16O	3-ethyl-1-pentanol	66225-51-2	439.15	43.718	1,2
12065	C7H15NO	4-piperidineethanol	622-26-4	500.65	43.947	1,2	12182	C7H16O	2,2-dimethyl-1-pentanol	2370-12-9	426.15	41.485	1,2
12066	C7H15NO	N,N-diisopropylformamide	2700-30-3	468.60	40.876	1,2	12183	C7H16O	2,3-dimethyl-1-pentanol	10143-23-4	437.15	43.077	1,2
12067	C7H15NO	2-heptanone oxime	5314-31-8	458.76	39.936	2	12184	C7H16O	2,4-dimethyl-1-pentanol	6305-71-1	432.15	42.564	1,2
12068	C7H15NO	1-methyl-2-piperidinemethanol	20845-34-5	458.76	39.936	2	12185	C7H16O	3,3-dimethyl-1-pentanol	19264-94-9	438.15	42.704	1,2
12069	C7H15NO	1-methyl-2-pyrrolidineethanol	67004-64-2	458.76	39.936	2	12186	C7H16O	3,4-dimethyl-1-pentanol	6570-87-2	438.15	43.180	1,2
12070	C7H15NO	N-glycidyl diethyl amine	2917-91-1	458.76	39.936	2	12187	C7H16O	4,4-dimethyl-1-pentanol	3121-79-7	433.15	42.196	1,2
12071	C7H15NO	isopropylmorpholine	1331-24-4	357.55	30.385	1,2	12188	C7H16O	3-ethyl-2-pentanol	609-27-8	425.15	41.845	1,2
12075	C7H15NO2	1-nitroheptane	693-39-0	486.15	45.792	1,2	12189	C7H16O	2,3-dimethyl-2-pentanol	4911-70-0	412.15	39.669	1,2
12076	C7H15NO2	butyl ethylcarbamate	16246-07-4	457.71	39.836	2	12190	C7H16O	2,4-dimethyl-2-pentanol	625-06-9	406.15	39.067	1,2
12077	C7H15NO2	ethyl N-butylcarbamate	591-62-8	475.15	41.502	1,2	12191	C7H16O	3,3-dimethyl-2-pentanol	19781-24-9	420.15	40.472	1,2
12078	C7H15NO2	ethyl sec-butylcarbamate	10212-74-5	467.15	40.737	1,2	12192	C7H16O	3,4-dimethyl-2-pentanol	64502-86-9	426.15	41.531	1,2
12079	C7H15NO2	ethyl tert-butylcarbamate	1611-50-3	457.71	39.836	2	12193	C7H16O	4,4-dimethyl-2-pentanol	6144-93-0	411.15	39.568	1,2
12080	C7H15NO2	ethyl isobutylcarbamate	539-89-9	457.71	39.836	2	12194	C7H16O	3-ethyl-3-pentanol	597-49-9	415.65	40.420	1,2
12081	C7H15NO2	ethyl 3-(methylamino)butanoate	68384-70-3	457.71	39.836	2	12195	C7H16O	2,2-dimethyl-3-pentanol	3970-62-5	409.15	39.368	1,2
12082	C7H15NO2	heptyl nitrite	629-43-6	428.95	37.102	1,2	12196	C7H16O	2,3-dimethyl-3-pentanol	595-41-5	413.15	39.769	1,2
12083	C7H15NO2	alpha-methyl-4-morpholineethanol	2109-66-2	457.71	39.836	2	12197	C7H16O	2,4-dimethyl-3-pentanol	600-36-2	411.95	40.089	1,2
12085	C7H15NO2	1-ethyl-1-methylpropyl carbamate	78-28-4	457.71	39.836	2	12198	C7H16O	2-methyl-2-ethyl-1-butanol	18371-13-6	430.15	41.891	1,2
12086	C7H15NO2	3-(1-pyrrolidinyl)propane-1,2-diol	85391-19-1	431.15	37.310	1,2	12199	C7H16O	3-methyl-2-ethyl-1-butanol	32444-34-1	435.15	42.872	1,2
12087	C7H15NO2	ethyl diethylcarbamate	3553-80-8	457.71	39.836	2	12200	C7H16O	2,2,3-trimethyl-1-butanol	55505-23-2	430.15	41.478	1,2
12088	C7H15NO2	heptanoylhydroxamic acid	30406-18-9	457.71	39.836	2	12201	C7H16O	2,3,3-trimethyl-1-butanol	36794-64-6	433.15	41.780	1,2
12099	C7H15N3O	nitroso-3,4,5-trimethylpiperazine	88208-15-5	375.15	32.030	1,2	12202	C7H16O	2,3,3-trimethyl-2-butanol	594-83-2	404.15	38.066	1,2
12100	C7H15N3O2	1-butyl-3,3-dimethyl-1-nitrosourea	56654-53-6	534.15	47.175	1,2	12203	C7H16O	2,4-dimethyl-1-pentanol, (±)	111768-02-6	432.15	37.405	1,2
12101	C7H15N3O2	1-hexyl-1-nitrosourea	18774-85-1	533.15	47.078	2	12204	C7H16O	2-heptanol, (±)	52390-72-4	432.15	37.405	1,2
12102	C7H15N3O2	nitrosotriethylurea	50285-70-6	563.15	49.984	1,2	12205	C7H16O	3-heptanol, (S)	26549-25-7	430.15	37.215	1,2
12103	C7H15N3O3	tetrahydro-1,3-bis(hydroxymethyl)-5-ethyl-1,*	134-97-4	408.15	35.134	2	12206	C7H16O	2-methyl-1-hexanol, (±)	111768-04-8	437.15	37.880	1,2
12108	C7H15O4P	diethyl allyl phosphate	3066-75-9	318.65	26.774	1,2	12207	C7H16O	3-methyl-1-hexanol, (±)	111768-08-2	443.15	38.450	1,2
12109	C7H15O4P	diethyl-b,g-epoxypropylphosphonate	7316-37-2	318.65	26.774	2	12208	C7H16O	4-methyl-1-hexanol, (±)	111768-05-9	446.15	38.735	1,2
12112	C7H16	heptane	142-82-5	371.58	31.731	1,2	12209	C7H16O	2-methyl-3-hexanol, (±)	100295-82-7	416.15	35.890	1,2
12113	C7H16	2-methylhexane	591-76-4	363.20	31.165	1,2	12210	C7H16O	5-methyl-3-hexanol, (±)	100295-83-8	420.15	36.268	1,2
12114	C7H16	3-methylhexane	589-34-4	365.00	31.190	1,2	12211	C7H16O	isopropyl-tert-butyl-ether	17348-59-3	378.66	31.853	1,2
12115	C7H16	3-ethylpentane	617-78-7	366.62	31.007	1,2	12212	C7H16O	butyl propyl ether	3073-92-5	391.25	33.542	1,2
12116	C7H16	2,2-dimethylpentane	590-35-2	352.34	29.262	1,2	12212.1	C7H16O	isopropyl isobutyl ether	78448-33-6	371.20	31.795	1,2
12117	C7H16	2,3-dimethylpentane	565-59-3	362.93	30.492	1,2	12213	C7H16O	2-ethoxy-2-methylbutane	919-94-8	375.15	30.788	1,2
12118	C7H16	2,4-dimethylpentane	108-08-7	353.64	29.796	1,2	12214	C7H16O	ethyl isopentyl ether	628-04-6	385.65	34.139	1,2
12119	C7H16	3,3-dimethylpentane	562-49-2	359.21	29.737	1,2	12215	C7H16O	ethyl pentyl ether	17952-11-3	390.75	33.495	1,2
12120	C7H16	2,2,3-trimethylbutane	464-06-2	354.03	28.978	1,2	12216	C7H16O	hexyl methyl ether	4747-07-3	399.25	34.295	1,2
12121	C7H16	3-methylhexane, (S)-	6131-24-4	365.15	31.675	1,2	12217	C7H16O	1-(1-methylethoxy)butane	1860-27-1	381.15	32.640	1,2
12130	C7H16FO2P	soman	96-64-0	455.65	39.640	1,2	12218	C7H16O	2-methyl-1-propoxypropane	15268-49-2	378.15	31.694	1,2
12137	C7H16N2	2,6-dimethyl-1-piperidinamine	39135-39-2	438.15	37.975	1,2	12219	C7H16O	2-methyl-2-propoxypropane	29072-93-3	373.15	30.204	1,2
12138	C7H16N2	1-ethyl-3-piperidinamine	6789-94-2	428.15	37.026	1,2	12220	C7H16O	(S)-(+)-2-heptanol	6033-23-4	426.80	36.898	1,2
12139	C7H16N2	1-ethyl-2-pyrrolidinemethanamine	26116-12-1	404.78	34.816	2	12221	C7H16O	(R)-(-)-2-heptanol	6033-24-5	420.75	36.325	2
12140	C7H16N2	1,2,4-trimethylpiperazine	120-85-4	422.65	36.505	1,2	12224	C7H16O2	1,2-heptanediol	3710-31-4	511.15	59.952	2
12141	C7H16N2	(R)-2-(aminomethyl)-1-ethylpyrrolidine	22795-97-7	404.78	34.816	2	12225	C7H16O2	1,3-heptanediol	23433-04-7	522.15	61.289	2
12142	C7H16N2	n'-tert-butyl-N,N-dimethylformamidine	23314-06-9	411.65	35.464	1,2	12226	C7H16O2	1,4-heptanediol	40646-07-9	515.15	67.889	1,2
12143	C7H16N2	2-piperidinoethylamine	27578-60-5	459.15	39.973	1,2	12227	C7H16O2	1,5-heptanediol	60096-09-5	489.79	42.904	2
12144	C7H16N2	2,4-diamino-1-methylcyclohexane	13897-55-7	404.78	34.816	2	12228	C7H16O2	1,6-heptanediol	13175-27-4	485.43	56.831	2
12145	C7H16N2	isopropyl piperazine	4318-42-7	341.15	28.858	1,2	12229	C7H16O2	1,7-heptanediol	629-30-1	535.15	62.083	1,2
12146	C7H16N2	N,N,N',N'-tetramethyl propene-1,3-diamine	17471-59-9	332.55	28.060	1,2	12230	C7H16O2	2,3-heptanediol	21508-07-6	508.21	59.008	2
12147	C7H16N2O	N,N'-dipropylurea	623-95-0	528.15	46.595	1,2	12231	C7H16O2	2,4-heptanediol	20748-86-1	508.21	59.008	2
12148	C7H16N2O	4-morpholinepropanamine	123-00-2	493.15	43.226	1,2	12232	C7H16O2	2,6-heptanediol	5969-12-0	508.21	59.008	2
12149	C7H16N2O	2-tert-butylazo-2-hydroxypropane	57910-39-1	510.65	44.908	2	12233	C7H16O2	2-methyl-1,2-hexanediol	56255-50-6	494.25	56.686	2
12150	C7H16N2O	3-dimethylamino-N,N-dimethylpropionamide	17268-47-2	510.65	44.908	2	12234	C7H16O2	2-methyl-2,4-hexanediol	66225-35-2	517.03	58.799	2
12151	C7H16N2O	nitrosomethyl-n-hexylamine	28538-70-7	510.65	44.908	2	12235	C7H16O2	2-methyl-2,5-hexanediol	29044-06-2	517.03	58.799	2
12152	C7H16N2O	N-propyl-N-butylnitrosamine	25413-64-3	510.65	44.908	2	12236	C7H16O2	3-methyl-1,6-hexanediol	4089-71-8	485.43	56.831	2
12153	C7H16N2O2	N-boc-ethylenediamine	57260-73-8	320.65	26.959	2	12237	C7H16O2	3-methyl-2,4-hexanediol	---	530.99	61.135	2
12154	C7H16N2O2	(4S,5S)-4,5-di(aminomethyl)-2,2-dimethyldiox*	119322-88-2	320.65	26.959	1,2	12238	C7H16O2	3-methyl-3,4-hexanediol	18938-47-1	517.03	58.799	2
12155	C7H16N2O2	3-(butylnitrosoamino)-1-propanol	51938-13-7	320.65	26.959	2	12239	C7H16O2	4-methyl-1,5-hexanediol	66225-37-4	508.21	59.008	2
12156	C7H16N2O2	N-nitroso-N-propyl-(4-hydroxybutyl)amine	51938-12-6	320.65	26.959	2	12240	C7H16O2	4-methyl-2,4-hexanediol	38836-25-8	517.03	58.799	2
12160	C7H16N2O6	1-deoxy-1-(N-nitrosomethylamino)-D-glucitol	10356-92-0	368.65	31.422	1,2	12241	C7H16O2	5-methyl-1,5-hexanediol	1462-11-9	494.25	56.686	2
12161	C7H16N2S	diisopropyl thiourea	2986-17-6	383.15	32.780	1,2	12242	C7H16O2	5-methyl-2,4-hexanediol	54877-00-8	530.99	61.135	2
12162	C7H16N3OP	p,p-bis(1-aziridinyl)-N-isopropylaminophosph*	5774-35-6	324.65	27.328	1,2	12243	C7H16O2	2-ethyl-1,3-pentanediol	29887-11-4	497.74	57.658	2
12163	C7H16N3OP	p,p-bis(1-aziridinyl)-N-propylphosphinic ami*	2275-81-2	324.65	27.328	2	12244	C7H16O2	2-ethyl-1,5-pentanediol	14189-13-0	485.43	56.831	2
12164	C7H16O	1-heptanol	111-70-6	449.45	45.769	1,2	12245	C7H16O2	3-ethyl-2,3-pentanediol	66225-32-9	480.00	54.440	2
12165	C7H16O	2-heptanol	543-49-7	432.35	30.501	1,2	12246	C7H16O2	3-ethyl-2,4-pentanediol	66225-33-0	480.65	55.141	1,2
12166	C7H16O	3-heptanol	589-82-2	429.85	42.754	1,2	12247	C7H16O2	2,2-dimethyl-1,3-pentanediol	2157-31-5	485.65	55.104	1,2
12167	C7H16O	4-heptanol	589-55-9	427.85	42.547	1,2	12248	C7H16O2	2,2-dimethyl-1,5-pentanediol	3121-82-2	494.25	56.686	2
12168	C7H16O	2-methyl-1-hexanol	624-22-6	436.15	43.407	1,2	12249	C7H16O2	2,3-dimethyl-1,3-pentanediol	66225-52-3	517.03	58.799	2
12169	C7H16O	3-methyl-1-hexanol	13231-81-7	445.15	44.340	1,2	12250	C7H16O2	2,3-dimethyl-2,3-pentanediol	6931-70-0	525.85	58.560	2
12170	C7H16O	4-methyl-1-hexanol	818-49-5	446.15	44.444	1,2	12251	C7H16O2	DL-2,4-dimethyl-1,5-pentanediol	54630-82-9	508.21	59.008	2
12171	C7H16O	5-methyl-1-hexanol	627-98-5	445.15	48.066	1,2	12252	C7H16O2	meso-2,4-dimethyl-1,5-pentanediol	2121-69-9	508.21	59.008	2
12172	C7H16O	2-methyl-2-hexanol	625-23-0	415.95	40.450	1,2	12253	C7H16O2	2,4-dimethyl-2,3-pentanediol	66225-53-4	459.15	51.462	1,2
12173	C7H16O	3-methyl-2-hexanol	2313-65-7	425.15	41.845	1,2	12254	C7H16O2	2,4-dimethyl-2,4-pentanediol	24892-49-7	470.00	52.121	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
12255	C7H16O2	3,3-dimethyl-1,5-pentanediol	53120-74-4	494.25	56.686	2	12341	C7H17N	N-tert-butylisopropylamine	7515-80-2	371.15	29.112	1,2
12256	C7H16O2	3,4-dimethyl-1,4-pentanediol	63521-36-8	517.03	58.799	2	12342	C7H17N	(S)-2-heptylamine	44745-29-1	416.15	35.890	1,2
12257	C7H16O2	4,4-dimethyl-1,2-pentanediol	66225-54-5	517.03	58.799	2	12343	C7H17N	(R)-2-heptylamine	6240-90-0	416.15	35.890	1,2
12258	C7H16O2	erythro-4,4-dimethyl-2,3-pentanediol	23646-57-3	539.81	60.866	2	12344	C7H17N	N-propylbutylamine	20193-21-9	406.65	34.992	1,2
12259	C7H16O2	threo-4,4-dimethyl-2,3-pentanediol	23646-58-4	539.81	60.866	2	12345	C7H17N	3-aminoheptane	28292-42-4	414.15	35.701	1,2
12260	C7H16O2	2-propyl-1,4-butanediol	62946-68-3	485.43	56.831	2	12346	C7H17N	5-methyl-2-hexylamine	28292-43-5	397.47	34.127	2
12261	C7H16O2	2-isopropyl-1,4-butanediol	39497-66-0	508.21	59.008	2	12347	C7H17NO	1-(diethylamino)-2-propanol, (±)	78738-36-0	432.15	37.405	1,2
12262	C7H16O2	2-methyl-3-ethyl-1,4-butanediol	---	508.21	59.008	2	12348	C7H17NO	2-(diethylamino)-1-propanol	611-12-1	439.15	38.070	1,2
12263	C7H16O2	2-sec-butyl-1,3-propanediol	33673-01-7	508.21	59.008	2	12349	C7H17NO	3-(diethylamino)-1-propanol	622-93-5	462.65	40.307	1,2
12264	C7H16O2	2-methyl-2-propyl-1,3-propanediol	78-26-2	509.85	58.541	1,2	12350	C7H17NO	2-[isopentylamino]ethanol	34240-76-1	478.15	41.789	1,2
12265	C7H16O2	2,2-diethyl-1,3-propanediol	115-76-4	507.15	58.220	1,2	12351	C7H17NO	3-butoxypropylamine	16499-88-0	446.15	38.735	1,2
12266	C7H16O2	1-butoxy-2-propanol	5131-66-8	444.65	38.592	1,2	12352	C7H17NO	1-diethylamino-2-propanol	4402-32-8	451.65	39.259	2
12267	C7H16O2	1,1-diethoxypropane	4744-08-5	396.15	34.003	1,2	12353	C7H17NO	4-amino-2-methyl-3-hexanol	63765-80-0	451.65	39.259	2
12268	C7H16O2	2,2-diethoxypropane	126-84-1	387.15	33.156	1,2	12354	C7H17NOSi	4-(trimethylsilyl)morpholine	13368-42-8	433.15	37.500	1,2
12269	C7H16O2	dipropoxymethane	505-84-0	413.65	35.653	1,2	12355	C7H17NO2	1,1-diethoxy-N,N-dimethylmethanamine	1188-33-6	402.15	34.568	1,2
12270	C7H16O2	2-(pentyloxy)ethanol	6196-58-3	458.15	39.878	1,2	12356	C7H17NO2	1-amino-3,3-diethoxypropane	41365-75-7	454.65	39.544	2
12271	C7H16O2	1-tert-butoxy-2-methoxyethane	66728-50-5	404.65	34.804	1,2	12357	C7H17NO2	3-(diethylamino)-1,2-propanediol	621-56-7	507.15	44.572	1,2
12272	C7H16O2	1-tert-butoxy-2-propanol	57018-52-7	420.20	36.273	1,2	12358	C7H17NO2	(S)-3-tert-butylamino-1,2-propanediol	30315-46-9	454.65	39.544	2
12273	C7H16O2	n-heptyl hydroperoxide	764-81-8	489.79	42.904	2	12359	C7H17NO3	1-[N,N-bis(2-hydroxyethyl)amino]-2-propanol	6712-98-7	418.15	36.079	1,2
12274	C7H16O2	1-isobutoxy-2-propanol	23436-19-3	438.15	37.975	1,2	12360	C7H17NO3	3-aminopropoxy-2-ethoxy ethanol	112-33-4	418.15	36.079	2
12275	C7H16O2	propylene glycol butyl ether, isomers	29387-86-8	443.15	38.450	1,2	12366	C7H17O3P	diethylisopropylphosphonate	1538-69-8	394.25	33.824	2
12275.1	C7H16O2	propylene glycol 2-tert-butyl ether	94023-15-1	425.15	45.541	1,2	12367	C7H17O3P	diisopropyl methylphosphonate	1445-75-6	394.25	33.824	1,2
12275.2	C7H16O2	diethylene glycol monopropyl ether	6881-94-3	487.99	47.808	1,2	12368	C7H17O3P	pinacolyl methylphosphonate	616-52-4	394.25	33.824	2
12276	C7H16O2	1-butoxy-2-methoxyethane	13343-98-1	420.08	36.261	1,2	12369	C7H17O3PS3	thimet sulfoxide	2588-03-6	391.65	33.579	1,2
12277	C7H16O2	3-butoxy-1-propanol	10215-33-5	489.79	42.904	2	12370	C7H17O4PS2	O,O-dimethyl-S-isopropyl-2-sulfinylethylphos*	2674-91-1	363.45	30.936	1,2
12278	C7H16O2	n-butoxypropanol (mixed isomers)	63716-40-5	489.79	42.904	2	12375	C7H18N2	N,N-diethyl-1,3-propanediamine	104-78-9	441.65	38.307	1,2
12279	C7H16O2	isobutoxypropanol, mixed isomers	63716-39-2	489.79	42.904	2	12376	C7H18N2	1,7-heptanediamine	646-19-5	497.15	43.610	1,2
12280	C7H16O2Si	vinyldiethoxymethylsilane	5507-44-8	406.15	34.945	1,2	12377	C7H18N2	N,N,N',N'-tetramethyl-1,3-propanediamine	110-95-2	417.15	35.984	1,2
12281	C7H16O2Si	ethyl trimethylsilylacetate	4071-88-9	430.60	37.258	1,2	12378	C7H18N2	N,N-diethyl-N'-methylethylenediamine	104-79-0	431.65	37.358	1,2
12282	C7H16O3	dipropylene glycol monomethyl ether	34590-94-8	416.90	35.961	2	12379	C7H18N2	N,N,2,2-tetramethyl-1,3-propanediamine	53369-71-4	429.65	37.168	1,2
12283	C7H16O3	1,4,7-heptanetriol	3920-53-4	416.90	35.961	2	12380	C7H18N2	3-diethylaminopropylamine	14642-66-1	443.45	38.478	2
12284	C7H16O3	triethoxymethane	122-51-0	416.15	35.890	1,2	12381	C7H18N2	heptyl hydrazine	2656-72-6	443.45	38.478	2
12285	C7H16O3	1,1,3-trimethoxybutane	10138-89-3	430.15	37.215	1,2	12382	C7H18N2O	1-amino-3-(diethylamino)-2-propanol	6322-01-6	496.15	43.514	1,2
12286	C7H16O3	1,3,3-trimethoxybutane	6607-66-5	426.15	36.836	1,2	12383	C7H18N2O	1,3-bis(dimethylamino)-2-propanol	5966-51-8	454.65	39.544	1,2
12287	C7H16O3	3,3-diethoxy-1-propanol	16777-87-0	416.90	35.961	2	12384	C7H18N2O	2-{[2-(dimethylamino)ethyl]methylamino}ethan*	2212-32-0	480.15	41.980	1,2
12288	C7H16O3	1,2,3-heptanetriol	103404-57-5	416.90	35.961	2	12386	C7H18N2O4Si	1-[3-(trimethoxysilyl)propyl]urea	23843-64-3	490.15	42.939	1,2
12289	C7H16O3	methoxyacetaldehyde diethyl acetal	4819-75-4	419.15	36.173	1,2	12387	C7H18N2Si2	bis(trimethylsilyl)carbodiimide	1000-70-0	437.15	37.880	1,2
12290	C7H16O3	trimethyl orthobutyrate	43083-12-1	419.15	36.173	1,2	12389	C7H18O3Si	triethoxymethylsilane	2031-67-6	415.15	35.795	1,2
12291	C7H16O3	diethylene glycol ethyl methyl ether	1002-67-1	416.90	35.961	2	12390	C7H18O3Si	isobutyl(trimethoxy)silane	18395-30-7	418.65	36.126	1,2
12292	C7H16O3	ethoxyethyl ether of propylene glycol	63716-10-9	390.65	33.485	1,2	12391	C7H18Si	butyltrimethylsilane	1000-49-3	388.15	33.250	1,2
12293	C7H16O3S	butyl propyl sulfite	---	479.65	41.932	2	12392	C7H18Si	trimethylisobutylsilane	1118-09-8	381.65	32.640	1,2
12294	C7H16O4	1,1,3,3-tetramethoxypropane	102-52-3	456.15	39.687	1,2	12393	C7H18Si	diethylisopropylsilane	18395-55-6	401.15	34.474	1,2
12295	C7H16O4	triethylene glycol monomethyl ether	112-35-6	456.15	39.687	2	12396	C7H19N3	1,4,7-trimethyldiethylenetriamine	105-84-0	453.90	39.473	2
12296	C7H16O4S2	sulfonmethane	115-24-2	573.15	50.955	2	12397	C7H19N3	N-(3-aminopropyl)-N-methyl-1,3-propanediamine	105-83-9	505.65	44.427	1,2
12300	C7H16S	heptyl mercaptan	1639-09-4	450.09	40.389	1,2	12398	C7H19N3	spermidine	124-20-9	402.15	34.568	1,2
12301	C7H16S	2-heptanethiol	1628-00-2	436.75	38.182	1,2	12399	C7H19NSi	N,N-diethyltrimethylsilylamine	996-50-9	399.10	34.280	1,2
12302	C7H16S	methyl hexyl sulfide	20291-60-5	440.00	40.601	2	12404	C7H20Si2	bis(trimethylsilyl)methane	2117-28-4	406.65	34.992	1,2
12303	C7H16S	ethyl pentyl sulfide	26158-99-6	440.00	40.601	2	12405	C7H21NSi2	heptamethyldisilazane	920-68-3	423.15	36.552	1,2
12304	C7H16S	propyl butyl sulfide	1613-46-3	431.00	38.564	1,2	12406	C7H21NSi2	N,N-dimethylaminopentamethyldisilane	26798-98-1	429.15	37.121	1,2
12306	C7H16S3	tris(ethylthio)methane	6267-24-9	508.15	44.668	2	12408	C7H22O2Si3	1,1,1,3,5,5,5-heptamethyltrisiloxane	1873-88-7	414.95	35.776	1,2
12307	C7H16Si	diethylmethylvinylsilane	18292-29-0	391.15	33.532	1,2	12409	C7H22O4Si4	heptamethylcyclotetrasiloxane	15721-05-8	438.15	37.975	1,2
12308	C7H16Si	methallyltrimethylsilane	18292-38-1	383.65	32.827	1,2	12411	C8BrF17	1-bromoheptadecafluorooctane	423-55-2	414.65	35.748	1,2
12311	C7H17BO2	diisopropoxymethylborane	86595-27-9	379.15	32.405	1,2	12413	C8ClF15O	pentadecafluorooctanoyl chloride	335-64-8	403.60	34.705	1,2
12313	C7H17ClO3Si	(chloromethyl)triethoxysilane	15267-95-5	447.65	38.878	1,2	12415	C8Cl4N2	chlorothalonil	1897-45-6	623.15	55.834	1,2
12315	C7H17N	heptylamine	111-68-2	430.05	40.145	1,2	12416	C8Cl4N2	tetrachlorophthalonitrile	1953-99-7	623.15	55.834	2
12316	C7H17N	2,4-dimethyl-2-pentanamine	64379-30-2	395.15	36.690	1,2	12418	C8Cl4Si	tetrakis(chloroethynyl)silane	---	431.95	37.386	1,2
12317	C7H17N	2-heptanamine	123-82-0	415.15	35.795	1,2	12419	C8Cl8	octachlorostyrene	29082-74-4	357.95	30.422	1,2
12318	C7H17N	4-heptanamine	16751-59-0	412.65	35.559	1,2	12422	C8Cs	cesium graphite	12079-66-2	337.20	28.491	1,2
12319	C7H17N	3-methyl-1-hexanamine	65530-93-0	422.15	36.457	1,2	12423	C8D8	styrene-d8	19361-62-7	323.65	27.236	1,2
12320	C7H17N	4-methyl-2-hexanamine	105-41-9	405.65	34.898	1,2	12426	C8F8O	octafluoroacetophenone	652-22-2	403.65	34.709	1,2
12321	C7H17N	4-methyl-1-hexylamine	34263-68-8	426.15	36.836	1,2	12427	C8F8O2	pentafluorophenyl trifluoroacetate	14533-84-7	395.65	33.956	1,2
12322	C7H17N	methylhexylamine	35161-70-7	415.15	37.737	1,2	12428	C8F14O3	heptafluorobutanoic anhydride	336-59-4	379.65	32.452	1,2
12323	C7H17N	ethylpentylamine	17839-26-8	407.15	36.703	1,2	12429	C8F16	perfluoro-1,2-dimethylcyclohexane	306-98-9	374.65	31.983	1,2
12324	C7H17N	dimethylpentylamine	26153-88-8	395.15	33.398	1,2	12430	C8F16	perfluoro-1,4-dimethylcyclohexane	374-77-6	373.65	31.890	1,2
12325	C7H17N	dimethyl-2-pentylamine	57303-85-2	382.15	33.533	1,2	12431	C8F16	hexadecafluoro-1,3-dimethylcyclohexane; (cis*	335-27-3	374.55	31.974	1,2
12326	C7H17N	dimethyl-3-pentylamine	18636-94-7	389.15	34.177	1,2	12433	C8F16O	perfluoro-2-butyltetrahydrofuran	335-36-4	375.75	32.086	1,2
12327	C7H17N	dimethyl-2-methylbutylamine	66225-39-6	388.00	34.071	2	12434	C8F17I	heptadecafluoro-1-iodooctane	507-63-1	434.60	37.638	1,2
12328	C7H17N	dimethyl-3-methylbutylamine	2315-43-7	386.65	33.947	1,2	12435	C8F18	perfluorooctane	307-34-6	379.05	32.396	1,2
12329	C7H17N	dimethyl-1,1-dimethylpropylamine	57757-60-5	391.15	33.706	1,2	12436	C8F18O	perfluoro-n-dibutyl ether	308-48-5	375.15	32.030	1,2
12330	C7H17N	dimethyl-1,2-dimethylpropylamine	66225-38-5	390.50	34.301	2	12437	C8F18O2S	heptadecafluorooctanesulfonyl fluoride	307-35-7	427.60	36.974	1,2
12331	C7H17N	dimethyl-2,2-dimethylpropylamine	10076-31-0	390.50	33.647	2	12439	C8HCl4F3N2	4,5,6,7-tetrachloro-2-(trifluoromethyl)benzi*	2338-29-6	371.65	31.702	1,2
12332	C7H17N	methylethylbutylamine	66225-40-9	390.15	34.588	1,2	12440	C8HCl4F11O2	3,5,7,8-tetrachloro-2,2,3,4,4,5,6,6,7,8,8-un*	2923-68-4	553.15	49.014	1,2
12333	C7H17N	methylethyl-sec-butylamine	66225-41-0	376.15	32.982	1,2	12442	C8HF15O2	pentadecafluorooctanoic acid	335-67-1	463.65	40.403	1,2
12334	C7H17N	methylethylisobutylamine	60247-14-5	380.15	33.349	1,2	12443	C8HF17	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecaf*	335-65-9	391.15	33.532	1,2
12335	C7H17N	methylethyl-tert-butylamine	52841-28-8	383.15	32.984	1,2	12444	C8H2Cl2O3	4,5-dichloro-1,3-isobenzofurandione	56962-07-3	602.15	53.780	1,2
12336	C7H17N	methyldipropylamine	3405-42-3	387.25	34.319	1,2	12445	C8H2Cl2O3	5,6-dichloro-1,3-isobenzofurandione	942-06-3	586.15	52.220	1,2
12337	C7H17N	methylpropylisopropylamine	66225-42-1	386.00	33.887	2	12446	C8H2Cl2O3	3,6-dichlorophthalic anhydride	4466-59-5	612.25	54.767	1,2
12338	C7H17N	methyldiisopropylamine	10342-97-9	385.15	33.500	1,2	12457	C8H3BrF6	2,4-bis(trifluoromethyl)bromobenzene	327-75-3	431.15	37.310	1,2
12339	C7H17N	diethylpropylamine	4458-31-5	385.15	34.124	1,2	12458	C8H3BrF6	1,3-bis(trifluoromethyl)-5-bromobenzene	328-70-1	427.15	36.931	1,2
12340	C7H17N	diethylisopropylamine	6006-15-1	381.65	33.487	1,2	12459	C8H3ClF3N	2-chloro-5-(trifluoromethyl)benzonitrile	328-87-0	484.15	42.363	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
12463	C8H3ClF3NS	4-chloro-3-(trifluoromethyl)phenyl isothiocy*	23163-86-2	522.65	46.065	1,2	12633	C8H5Cl3O	2,2,2-trichloro-1-phenylethanone	2902-69-4	529.65	46.740	1,2
12464	C8H3ClF3NS	2-chloro-5-(trifluoromethyl)phenyl isothiocy*	23165-49-3	512.15	45.053	1,2	12634	C8H5Cl3O	3-(dichloromethyl)benzoyl chloride	36747-51-0	529.65	46.740	2
12465	C8H3ClF4O	3-chloro-2-fluoro-6-(trifluoromethyl)benzald*	186517-29-3	487.15	42.651	1,2	12635	C8H5Cl3O	2',3',4'-trichloroacetophenone	13608-87-2	529.65	46.740	2
12466	C8H3ClF4O	3-chloro-2-fluoro-5-(trifluoromethyl)benzald*	261763-02-4	469.15	40.928	1,2	12636	C8H5Cl3O	2,2',4'-trichloroacetophenone	4252-78-2	529.65	46.740	2
12467	C8H3ClF4O	2-fluoro-6-(trifluoromethyl)benzoyl chloride	109227-12-5	466.65	40.689	1,2	12641	C8H5F	1-ethynyl-2-fluorobenzene	766-49-4	423.15	36.552	1,2
12468	C8H3ClF4O	2-fluoro-4-(trifluoromethyl)benzoyl chloride	126917-10-0	461.65	40.212	1,2	12642	C8H5F	1-ethynyl-4-fluorobenzene	766-98-3	423.15	36.552	2
12469	C8H3ClF4O	3-fluoro-5-(trifluoromethyl)benzoyl chloride	171243-30-4	392.15	33.626	1,2	12648	C8H5F2NO2	2-(difluoromethoxy)phenyl isocyanate	186589-03-7	476.15	41.597	1,2
12470	C8H3ClF4O	4-fluoro-2-(trifluoromethyl)benzoyl chloride	189807-21-4	430.15	37.215	1,2	12649	C8H5F2NO2	4-(difluoromethoxy)phenyl isocyanate	58417-15-5	482.15	42.172	1,2
12471	C8H3ClF4O	2-fluoro-5-(trifluoromethyl)benzoyl chloride	207981-46-2	463.65	40.403	1,2	12650	C8H5F3	a-b,b-trifluorostyrene	447-14-3	443.15	38.450	1,2
12472	C8H3ClF4O	2-fluoro-3-(trifluoromethyl)benzoyl chloride	208173-19-7	465.65	40.594	1,2	12651	C8H5F3INO	trifluoroacetyliminoiodobenzene	---	468.65	40.880	1,2
12473	C8H3ClF4O	5-fluoro-2-(trifluoromethyl)benzoyl chloride	216144-70-6	442.15	38.355	1,2	12653	C8H5F3O	2,2,2-trifluoro-1-phenylethanone	434-45-7	426.15	36.836	1,2
12474	C8H3ClF4O	4-fluoro-3-(trifluoromethyl)benzoyl chloride	67515-56-4	442.65	38.402	1,2	12654	C8H5F3O	2',4',5'-trifluoroacetophenone	129322-83-4	350.65	29.742	1,2
12482	C8H3F4N	2-fluoro-6-(trifluoromethyl)benzonitrile	133116-83-3	451.15	39.211	2	12655	C8H5F3O	3-(trifluoromethyl)benzaldehyde	454-89-7	372.15	31.749	2
12483	C8H3F4N	2-fluoro-4-(trifluoromethyl)benzonitrile	146070-34-0	451.15	39.211	1,2	12656	C8H5F3O	4-(trifluoromethyl)benzaldehyde	455-19-6	339.65	28.719	1,2
12489	C8H3F5	2,3,4,5,6-pentafluorostyrene	653-34-9	412.55	35.549	1,2	12657	C8H5F3O	a,a,a-trifluoro-o-tolualdehyde	447-61-0	372.15	31.749	2
12490	C8H3F5O	2',3',4',5',6'-pentafluoroacetophenone	652-29-9	403.60	34.705	1,2	12658	C8H5F3O2	phenyl trifluoroacetate	500-73-2	419.65	36.221	1,2
12495	C8H3F6NO2	3,5-bis(trifluoromethyl)nitrobenzene	328-75-6	344.65	29.183	1,2	12660	C8H5F3O2	4-(trifluoromethoxy)benzaldehyde	659-28-9	483.82	42.331	2
12496	C8H3F13	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-de*	25291-17-2	379.55	32.443	1,2	12661	C8H5F3O2	2-(trifluoromethoxy)benzaldehyde	94651-33-9	483.82	42.331	2
12497	C8H3F15O	2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluor*	307-30-2	437.15	37.880	1,2	12662	C8H5F3O2	2-(trifluoromethyl)benzoic acid	433-97-6	520.15	45.824	1,2
12505	C8H4ClF3O	4'-chloro-2,2,2-trifluoroacetophenone	321-37-9	454.65	39.544	1,2	12663	C8H5F3O2	3-(trifluoromethyl)benzoic acid	454-92-2	511.65	45.005	1,2
12506	C8H4ClF3O	4-chloro-3-(trifluoromethyl)benzaldehyde	34328-46-6	491.15	43.034	1,2	12666	C8H5F3O3	3-methoxy-2,4,5-trifluorobenzoic acid	11281-65-5	476.15	41.597	2
12507	C8H4ClF3O	2-chloro-5-(trifluoromethyl)benzaldehyde	82386-89-8	467.97	40.815	2	12667	C8H5F3O3	4,4,4-trifluoro-1-(2-furyl)-1,3-butanedione	326-90-9	476.15	41.597	1,2
12508	C8H4ClF3O	3-(trifluoromethyl)benzoyl chloride	2251-65-2	458.10	39.873	1,2	12668	C8H5F3O3	3-(trifluoromethoxy)benzoic acid	1014-81-9	476.15	41.597	2
12509	C8H4ClF3O	2-(trifluoromethyl)benzoyl chloride	312-94-7	467.97	40.815	2	12669	C8H5F3O3	4-(trifluoromethoxy)benzoic acid	330-12-1	476.15	41.597	2
12510	C8H4ClF3O	4-(trifluoromethyl)benzoyl chloride	329-15-7	467.97	40.815	2	12670	C8H5F3O3	5-(trifluoromethoxy)salicylaldehyde	93249-62-8	476.15	41.597	2
12520	C8H4Cl2O2	isophthaloyl chloride	99-63-8	549.00	56.884	1,2	12671	C8H5F3OS	4-(trifluoromethylthio)benzaldehyde	4021-50-5	492.15	43.130	1,2
12521	C8H4Cl2O2	1,2-benzenedicarbonyl dichloride	88-95-9	554.25	49.120	1,2	12674	C8H5F5O2	2-(2,3,4,5,6-pentafluorophenoxy)ethanol	2192-55-4	458.15	39.878	2
12522	C8H4Cl2O2	1,4-benzenedicarbonyl dichloride	100-20-9	531.15	46.885	1,2	12675	C8H5F5O2	2-(pentafluorophenoxy)ethanol	2192-55-4	458.15	39.878	1,2
12526	C8H4Cl3F13Si	trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecaf*	78560-45-9	465.15	40.546	1,2	12678	C8H5F11O	[2,2,3,3,4,5,5,5-octafluoro-4-(trifluorometh*	54009-81-3	423.15	36.552	1,2
12533	C8H4F2O2	1,2-benzenedicarbonyl difluoride	445-69-2	500.15	43.899	1,2	12685	C8H5NO	3-formylbenzonitrile	24964-64-5	483.15	42.268	1,2
12534	C8H4F3N	2-(trifluoromethyl)benzonitrile	447-60-9	478.15	41.789	1,2	12686	C8H5NO	4-formylbenzonitrile	105-07-7	481.15	42.076	2
12535	C8H4F3N	3-(trifluoromethyl)benzonitrile	368-77-4	462.15	40.260	1,2	12687	C8H5NO	alpha-oxobenzeneacetonitrile	613-90-1	479.15	41.884	1,2
12536	C8H4F3N	a,a,a-trifluoro-p-tolunitrile	455-18-5	470.15	41.024	2	12707	C8H5N3O2	5-(4-pyridyl)-1,3,4-oxadiazol-2-ol	2845-82-1	340.65	28.811	1,2
12537	C8H4F3NO	4-(trifluoromethoxy)benzonitrile	332-25-2	465.65	40.594	1,2	12708	C8H5N3O4S	N-(4-(5-nitro-2-furyl)-2-thiazolyl)formamide	24554-26-5	473.15	41.310	1,2
12538	C8H4F3NO	3-(trifluoromethoxy)benzonitrile	52771-22-9	374.65	31.983	2	12710	C8H5N5	4-diazo-5-phenyl-1,2,3-triazole	64781-77-7	399.15	34.285	1,2
12539	C8H4F3NO	4-(trifluoromethyl)phenyl isocyanate	1548-13-6	331.15	27.930	1,2	12713	C8H6	ethynylbenzene	536-74-3	416.20	36.250	1,2
12540	C8H4F3NO	3-(trifluoromethyl)phenyl isocyanate	329-01-1	327.15	27.560	1,2	12714	C8H6BrClO	2-bromo-1-(4-chlorophenyl)ethanone	536-38-9	459.15	39.973	2
12541	C8H4F3NO	a,a,a-trifluoro-o-tolyl isocyanate	2285-12-3	374.65	31.983	2	12715	C8H6BrClO	2-bromophenylacetyl chloride	55116-09-1	459.15	39.973	1,2
12542	C8H4F3NOS	2-(trifluoromethoxy)phenyl isothiocyanate	175205-33-1	488.15	42.747	1,2	12721	C8H6BrF3O	3-(trifluoromethoxy)benzyl bromide	159689-88-0	452.15	39.306	1,2
12543	C8H4F3NOS	4-trifluoromethoxyphenyl isothiocyanate	64285-95-6	489.65	42.891	1,2	12722	C8H6BrF3O	4-(trifluoromethoxy)benzyl bromide	50824-05-0	452.15	39.306	2
12544	C8H4F3NOS	4-(trifluoromethylthio)phenyl isocyanate	24032-84-6	488.90	42.819	2	12723	C8H6BrN	2-bromobenzeneacetonitrile	19472-74-3	501.65	44.043	2
12545	C8H4F3NOS	3-(trifluoromethylthio)phenyl isocyanate	55225-88-2	488.90	42.819	2	12724	C8H6BrN	alpha-bromobenzeneacetonitrile	5798-79-8	515.15	45.342	2
12549	C8H4F3NS	4-(trifluoromethyl)phenyl isothiocyanate	1645-65-4	486.65	42.603	2	12725	C8H6BrN	5-bromoindole	10075-50-0	501.65	44.043	2
12550	C8H4F3NS	2-(trifluoromethyl)phenyl isothiocyanate	1743-86-8	493.15	43.226	1,2	12726	C8H6BrN	4-bromoindole	52488-36-5	557.15	49.401	1,2
12551	C8H4F3NS	3-(trifluoromethyl)phenyl isothiocyanate	1840-19-3	480.15	41.980	1,2	12727	C8H6BrN	4-bromo-2-methylbenzonitrile	67832-11-5	501.65	44.043	2
12552	C8H4F4O	2-fluoro-5-(trifluoromethyl)benzaldehyde	146137-78-2	449.15	39.021	1,2	12728	C8H6BrN	4-bromophenylacetonitrile	16532-79-9	515.15	45.342	1,2
12553	C8H4F4O	3-fluoro-5-(trifluoromethyl)benzaldehyde	188815-30-7	448.15	38.925	1,2	12729	C8H6BrN	3-bromophenylacetonitrile	31938-07-5	419.15	36.173	1,2
12554	C8H4F4O	2-fluoro-6-(trifluoromethyl)benzaldehyde	60611-24-7	428.65	37.073	1,2	12730	C8H6BrN	a-bromo-p-tolunitrile	17201-43-3	501.65	44.043	2
12555	C8H4F4O	4-fluoro-3-(trifluoromethyl)benzaldehyde	67515-60-0	451.15	39.211	1,2	12731	C8H6BrN	a-bromo-o-tolunitrile	22115-41-9	501.65	44.043	2
12556	C8H4F4O	2-fluoro-4-(trifluoromethyl)benzaldehyde	89763-93-9	391.65	33.579	1,2	12732	C8H6BrN	a-bromo-m-tolunitrile	28188-41-2	501.65	44.043	2
12557	C8H4F4O	4-fluoro-2-(trifluoromethyl)benzaldehyde	90176-80-0	387.15	33.156	1,2	12745	C8H6Br4	1,2,3,4-tetrabromo-5,6-dimethylbenzene	2810-69-7	647.65	58.236	1,2
12558	C8H4F4O	2,2,2,4'-tetrafluoroacetophenone	655-32-3	425.98	36.820	2	12746	C8H6Br4	a,a,a',a'-tetrabromo-o-xylene	13209-15-9	558.40	49.523	2
12559	C8H4F4O	2',3',4',5'-tetrafluoroacetophenone	66286-21-3	425.98	36.820	2	12747	C8H6Br4	a,a,a',a'-tetrabromo-m-xylene	36323-28-1	558.40	49.523	2
12560	C8H4F4O	2,2,2,3'-tetrafluoroacetophenone	708-64-5	425.98	36.820	2	12748	C8H6Br4	tetrabromo-p-xylene	23488-38-2	469.15	40.928	1,2
12564	C8H4F6	1,3-bis(trifluoromethyl)benzene	402-31-3	389.15	33.344	1,2	12757	C8H6ClN	2-chlorobenzeneacetonitrile	2856-63-5	524.15	46.209	1,2
12565	C8H4F6	1,4-bis(trifluoromethyl)benzene	433-19-2	389.15	33.344	1,2	12758	C8H6ClN	3-chlorobenzeneacetonitrile	1529-41-5	534.15	47.175	1,2
12569	C8H4F13I	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-io*	2043-57-4	453.15	39.402	1,2	12759	C8H6ClN	2-(chloromethyl)benzonitrile	612-13-5	525.15	46.306	1,2
12574	C8H4K4Ni	potassium tetraethynyl nickelate(4-)	---	428.15	37.026	1,2	12760	C8H6ClN	5-chloroindole	17422-32-1	496.23	43.522	2
12581	C8H4N2O2	1,4-diisocyanatobenzene	104-49-4	533.15	47.078	1,2	12761	C8H6ClN	6-chloroindole	17422-33-2	496.23	43.522	2
12582	C8H4N2O2	1,3-phenylene diisocyanate	123-61-5	394.15	33.814	1,2	12762	C8H6ClN	4-chloroindole	25235-85-2	402.65	34.615	1,2
12587	C8H4N2O5	6-nitro-isatoic anhydride	4693-02-1	425.15	36.741	1,2	12763	C8H6ClN	7-chloroindole	53924-05-3	496.23	43.522	2
12592	C8H4N6O2	phthaloyl diazide	50906-29-1	438.15	37.975	1,2	12764	C8H6ClN	2-chloro-6-methylbenzonitrile	6575-09-3	416.15	35.890	1,2
12593	C8H4O2S	benzo[b]thiophene-2,3-dione	493-57-2	520.15	45.824	1,2	12765	C8H6ClN	(4-chlorophenyl)acetonitrile	140-53-4	539.15	47.658	1,2
12594	C8H4O3	phthalic anhydride	85-44-9	557.65	52.980	1,2	12766	C8H6ClN	benzonitrile, 3-(chloromethyl)-	64407-07-4	532.20	46.986	1,2
12595	C8H4O3	2,3-benzofurandione	4732-72-3	557.65	49.450	2	12767	C8H6ClNO	2-chlorobenzyl isocyanate	55204-93-8	511.15	44.956	1,2
12596	C8H4O4	phthaloyl peroxide	---	480.15	41.980	1,2	12768	C8H6ClNO	5-chloro-2-methylbenzoxazole	19219-99-9	492.15	43.130	1,2
12597	C8H4Sn	tetraethynyltin	16413-88-0	425.15	36.741	1,2	12769	C8H6ClNO	3-chloro-4-methylphenyl isocyanate	28479-22-3	380.15	32.499	1,2
12602	C8H5BrF4	4-fluoro-2-(trifluoromethyl)benzyl bromide	206860-48-2	414.15	35.701	1,2	12770	C8H6ClNO	4-(chloromethyl)phenyl isocyanate	29173-65-7	461.15	40.164	2
12608	C8H5BrS	3-bromothianaphthene	7342-82-7	542.15	47.948	1,2	12771	C8H6ClNO	3-chloro-2-methylphenyl isocyanate	40397-90-8	461.15	40.164	2
12609	C8H5Br5	2,3,4,5,6-pentabromoethylbenzene	85-22-3	413.15	35.606	1,2	12772	C8H6ClNO	2-chloro-6-methylphenyl isocyanate	40398-01-4	461.15	40.164	2
12617	C8H5ClN2O	6-chloro-4-quinazolinone	16064-14-5	402.05	34.558	1,2	12773	C8H6ClNO	5-chloro-2-methylphenyl isocyanate	40411-27-6	461.15	40.164	2
12618	C8H5ClN2O4	4-chloro-5-sulphamoylphthalimide	---	351.15	29.788	1,2	12774	C8H6ClNO	2-(chloromethyl)phenyl isocyanate	52986-66-0	461.15	40.164	2
12619	C8H5ClN2O4S	6-chloro-1,3-dioxo-5-isoindolinesulfonamide	3861-99-2	341.15	28.858	1,2	12775	C8H6ClNO	2-chlorophenoxyacetonitrile	43111-31-5	461.15	40.164	2
12620	C8H5ClN2O5	2,4-dinitrophenylacetyl chloride	---	336.15	28.394	1,2	12776	C8H6ClNO	3-chlorophenoxyacetonitrile	43111-32-6	461.15	40.164	2
12623	C8H5Cl2FO	2,6-dichloro-3-fluoroacetophenone	290835-85-7	525.65	46.354	1,2	12780	C8H6ClNO3	4'-chloro-3'-nitroacetophenone	5465-65-6	433.15	37.500	2
12624	C8H5Cl2FO	2',4'-dichloro-5'-fluoroacetophenone	704-10-9	440.15	38.165	1,2	12781	C8H6ClNO3	4-methyl-3-nitrobenzoyl chloride	10397-30-5	433.15	37.500	1,2
12626	C8H5Cl2N	2,6-dichlorophenylacetonitrile	3215-64-3	457.15	39.783	1,2	12782	C8H6ClNO3	2-chloro-m-nitroacetophenone	99-47-8	433.15	37.500	2
12627	C8H5Cl2N	3,4-dichlorophenylacetonitrile	3218-49-3	457.15	39.783	2	12783	C8H6ClNO3	3-methyl-2-nitrobenzoyl chloride	50424-93-6	433.15	37.500	2
12628	C8H5Cl2N	2,4-dichlorophenylacetonitrile	6306-60-1	457.15	39.783	2	12784	C8H6ClNO3	2-nitrophenylacetyl chloride	22751-23-1	433.15	37.500	2
12629	C8H5Cl2NO	3,4-dichlorobenzyl isocyanate	19752-09-1	555.15	49.207	1,2	12790	C8H6ClNS	5-chloro-2-methylphenyl isothiocyanate	19241-36-2	543.15	48.045	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
12791	C8H6ClNS	4-chlorobenzyl isothiocyanate	3694-45-9	543.15	48.045	2	12928	C8H6O3	2-formylbenzoic acid	119-67-5	536.15	47.368	2
12792	C8H6ClNS	5-chloro-2-methylbenzothiazole	1006-99-1	543.15	48.045	2	12929	C8H6O3	alpha-oxobenzeneacetic acid	611-73-4	536.15	47.368	2
12794	C8H6Cl2	2,5-dichlorostyrene	1123-84-8	498.15	43.706	2	12930	C8H6O3	3-carboxybenzaldehyde	619-21-6	536.15	47.368	2
12795	C8H6Cl2	2,6-dichlorostyrene	6607-45-0	498.15	43.706	2	12931	C8H6O3	2,5-dihydroxyphenylacetic acid g-lactone	2688-48-4	536.15	47.368	2
12796	C8H6Cl2	(2,2-dichlorovinyl)benzene	698-88-4	498.15	43.706	1,2	12932	C8H6O3	4-formylbenzoic acid	619-66-9	536.15	47.368	2
12797	C8H6Cl2	1,2-dichloro-3-vinylbenzene	2123-28-6	498.15	43.706	2	12933	C8H6O3	2,3-(methylenedioxy)benzaldehyde	7797-83-3	536.15	47.368	2
12798	C8H6Cl2	1,2-dichloro-4-vinylbenzene	2039-83-0	498.15	43.706	2	12934	C8H6O4	isophthalic acid	121-91-5	753.00	84.328	1,2
12799	C8H6Cl2	1,3-dichloro-2-vinylbenzene	28469-92-3	498.15	43.706	2	12935	C8H6O4	phthalic acid	88-99-3	598.00	74.192	1,2
12800	C8H6Cl2	1,3-dichloro-5-vinylbenzene	2155-42-2	498.15	43.706	2	12936	C8H6O4	terephthalic acid	100-21-0	832.00	93.449	1,2
12801	C8H6Cl2	2,4-dichloro-1-vinylbenzene	2123-27-5	498.15	43.706	2	12937	C8H6O4	1,3-benzodioxole-5-carboxylic acid	94-53-1	727.67	66.136	2
12802	C8H6Cl2N2O3	3,4-dichloro-N-nitrosocarbanilic acid methyl*	100836-84-8	409.15	35.228	1,2	12938	C8H6O4	3-formyl-4-hydroxybenzoic acid	584-87-2	727.67	66.136	2
12803	C8H6Cl2O	alpha-chlorobenzeneacetyl chloride	2912-62-1	532.65	47.030	2	12939	C8H6O4	3-hydroxy-p-phthalaldehydic acid	619-12-5	727.67	66.136	2
12804	C8H6Cl2O	2-chloro-1-(4-chlorophenyl)ethanone	937-20-2	543.15	48.045	1,2	12940	C8H6O4	3-formylsalicylic acid	610-04-8	727.67	66.136	2
12805	C8H6Cl2O	1-(2,4-dichlorophenyl)ethanone	2234-16-4	532.65	47.030	2	12941	C8H6O4	5-formylsalicylic acid	616-76-2	727.67	66.136	2
12806	C8H6Cl2O	1-(2,5-dichlorophenyl)ethanone	2476-37-1	532.65	47.030	2	12947	C8H6S	benzothiophene	95-15-8	493.05	44.014	1,2
12807	C8H6Cl2O	1-(3,4-dichlorophenyl)ethanone	2642-63-9	532.65	47.030	2	12948	C8H6S2	1,4-benzodithiin	255-50-5	533.15	47.078	2
12808	C8H6Cl2O	2,2-dichloro-1-phenylethanone	2648-61-5	522.15	46.016	1,2	12949	C8H6S2	2,2'-bithiophene	492-97-7	533.15	47.078	1,2
12809	C8H6Cl2O	4-chlorobenzeneacetyl chloride	25026-34-0	532.65	47.030	2	12954	C8H7Br	1-bromo-1,3,5,7-cyclooctatetraene	7567-22-8	460.95	40.145	2
12810	C8H6Cl2O	3-(chloromethyl)benzoyl chloride	63024-77-1	532.65	47.030	2	12955	C8H7Br	(1-bromovinyl)benzene	98-81-7	460.95	40.145	2
12811	C8H6Cl2O	4-(chloromethyl)benzoyl chloride	876-08-4	532.65	47.030	2	12956	C8H7Br	(cis-2-bromovinyl)benzene	588-73-8	460.95	40.145	2
12812	C8H6Cl2O2	2,4-dichlorophenyl acetate	6341-97-5	517.65	45.583	1,2	12957	C8H7Br	(trans-2-bromovinyl)benzene	588-72-7	492.15	43.130	2
12813	C8H6Cl2O2	2-chlorobenzyl chloroformate	39545-31-8	517.65	45.583	2	12958	C8H7Br	1-bromo-2-vinylbenzene	2039-88-5	482.35	42.191	1,2
12814	C8H6Cl2O2	4-chlorophenoxyacetyl chloride	4122-68-3	517.65	45.583	2	12959	C8H7Br	1-bromo-3-vinylbenzene	2039-86-3	460.95	40.145	2
12815	C8H6Cl2O2	3',5'-dichloro-2'-hydroxyacetophenone	3321-92-4	517.65	45.583	2	12960	C8H7Br	1-bromo-4-vinylbenzene	2039-82-9	485.15	42.459	1,2
12816	C8H6Cl2O2	2,4-dichlorophenylacetic acid	19719-28-9	517.65	45.583	2	12961	C8H7Br	1-bromobenzocyclobutene	21120-91-2	460.95	40.145	2
12817	C8H6Cl2O2	3,4-dichlorophenylacetic acid	5807-30-7	517.65	45.583	2	12962	C8H7Br	b-bromostyrene; (cis+trans)	103-64-0	384.15	32.874	1,2
12818	C8H6Cl2O2	2,6-dichlorophenylacetic acid	6575-24-2	517.65	45.583	2	12964	C8H7BrO	alpha-bromoacetophenone	70-11-1	530.15	46.788	2
12819	C8H6Cl2O2	methyl 2,3-dichlorobenzoate	2905-54-6	517.65	45.583	2	12965	C8H7BrO	1-(3-bromophenyl)ethanone	2142-63-4	530.15	46.788	2
12826	C8H6Cl4	1,4-bis(dichloromethyl)benzene	7398-82-5	546.55	48.374	2	12966	C8H7BrO	1-(4-bromophenyl)ethanone	99-90-1	530.15	46.788	1,2
12827	C8H6Cl4	1,2,3,4-tetrachloro-5,6-dimethylbenzene	877-08-7	546.55	48.374	2	12967	C8H7BrO	2'-bromoacetophenone	2142-69-0	530.15	46.788	2
12828	C8H6Cl4	1,2,3,5-tetrachloro-4,6-dimethylbenzene	877-09-8	546.55	48.374	2	12968	C8H7BrO	4-bromostyrene oxide	32017-76-8	530.15	46.788	2
12829	C8H6Cl4	a,a,a',a'-tetrachloro-o-xylene	25641-99-0	546.55	48.374	1,2	12969	C8H7BrO2	4-bromobenzeneacetic acid	1878-68-8	526.10	46.397	2
12830	C8H6Cl4	1,2,4,5-tetrachloro-3,6-dimethylbenzene	877-10-1	546.55	48.374	2	12970	C8H7BrO2	methyl 3-bromobenzoate	618-89-3	526.10	46.397	2
12832	C8H6FN	2-fluorobenzeneacetonitrile	326-62-5	505.15	44.379	1,2	12971	C8H7BrO2	methyl 4-bromoacetate	619-42-1	526.10	46.397	2
12833	C8H6FN	4-fluorobenzeneacetonitrile	459-22-3	501.15	43.995	1,2	12972	C8H7BrO2	phenyl bromoacetate	620-72-4	526.10	46.397	2
12834	C8H6FN	4-fluoroindole	387-43-9	503.15	44.187	2	12973	C8H7BrO2	5-bromo-2-anisaldehyde	25016-01-7	526.10	46.397	2
12835	C8H6FN	6-fluoroindole	399-51-9	503.15	44.187	2	12974	C8H7BrO2	3-bromo-4-methoxybenzaldehyde	34841-06-0	526.10	46.397	2
12836	C8H6FN	5-fluoro-2-methylbenzonitrile	77532-79-7	503.15	44.187	2	12975	C8H7BrO2	2-bromophenylacetic acid	18698-97-0	526.10	46.397	2
12837	C8H6FN	3-fluorophenylacetonitrile	501-00-8	503.15	44.187	2	12976	C8H7BrO2	3-bromophenylacetic acid	1878-67-7	526.10	46.397	2
12838	C8H6FN	5-fluoroindole	399-52-0	503.15	44.187	2	12977	C8H7BrO2	a-bromo-p-toluic acid	6232-88-8	526.10	46.397	2
12839	C8H6FNO	4-fluorobenzyl isocyanate	132740-43-3	484.15	42.363	1,2	12978	C8H7BrO2	methyl 2-bromobenzoate	610-94-6	526.10	46.397	1,2
12840	C8H6FNO	3-fluoro-4-methylphenyl isocyanate	102561-42-2	462.65	40.307	1,2	12984	C8H7Cl	1-chloro-1,3,5,7-cyclooctatetraene	29554-49-2	467.83	40.801	2
12841	C8H6FNO	2-fluoro-5-methylphenyl isocyanate	190774-50-6	465.15	40.546	1,2	12985	C8H7Cl	2-chlorostyrene	2039-87-4	461.85	40.231	1,2
12842	C8H6FNO	5-fluoro-2-methylphenyl isocyanate	67191-93-9	459.15	39.973	1,2	12986	C8H7Cl	3-chlorostyrene	2039-85-2	467.83	40.801	2
12848	C8H6F2O2	2-(difluoromethoxy)benzaldehyde	71653-64-0	489.15	42.843	1,2	12987	C8H7Cl	4-chlorostyrene	1073-67-2	465.15	40.546	1,2
12849	C8H6F2O2	4-(difluoromethoxy)benzaldehyde	73960-07-3	495.15	43.418	1,2	12988	C8H7Cl	(1-chlorovinyl)benzene	618-34-8	472.15	41.215	1,2
12850	C8H6F2O2	3,5-difluorophenylacetic acid	105184-38-1	492.15	43.130	2	12989	C8H7Cl	(cis-2-chlorovinyl)benzene	4604-28-8	467.83	40.801	2
12851	C8H6F2O2	3,4-difluorophenylacetic acid	658-93-5	492.15	43.130	2	12990	C8H7Cl	(trans-2-chlorovinyl)benzene	4110-77-4	472.15	41.215	1,2
12852	C8H6F2O2	2,4-difluorophenylacetic acid	81228-09-3	492.15	43.130	2	12991	C8H7Cl	chlorostyrene	1331-28-8	467.83	40.801	2
12853	C8H6F2O2	2,5-difluorophenylacetic acid	85068-27-5	492.15	43.130	2	12998	C8H7ClN2O3	methylnitrosocarbamic acid o-chlorophenyl es*	58169-97-4	316.15	26.543	1,2
12854	C8H6F2O2	2,6-difluorophenylacetic acid	85068-28-6	492.15	43.130	2	12999	C8H7ClO	benzeneacetyl chloride	103-80-0	483.40	42.291	2
12859	C8H6F4	1,4-bis-(difluoromethyl)benzene	369-54-0	416.65	35.937	2	13000	C8H7ClO	alpha-chloroacetophenone	532-27-4	520.15	45.824	1,2
12860	C8H6F4	2,3,5,6-tetrafluoro-p-xylene	703-87-7	416.65	35.937	1,2	13001	C8H7ClO	1-(3-chlorophenyl)ethanone	99-02-5	517.15	45.534	1,2
12864	C8H6N2	cinnoline	253-66-7	535.32	47.288	2	13002	C8H7ClO	1-(4-chlorophenyl)ethanone	99-91-2	505.15	44.379	1,2
12865	C8H6N2	1,5-naphthyridine	254-79-5	535.32	47.288	2	13003	C8H7ClO	2-methylbenzoyl chloride	933-88-0	486.65	42.603	1,2
12866	C8H6N2	phthalazine	253-52-1	589.15	52.512	1,2	13004	C8H7ClO	3-methylbenzoyl chloride	1711-06-4	492.65	43.178	1,2
12867	C8H6N2	quinazoline	253-82-7	514.15	45.245	1,2	13005	C8H7ClO	4-methylbenzoyl chloride	874-60-2	499.15	43.802	1,2
12868	C8H6N2	quinoxaline	91-19-0	502.65	44.139	1,2	13006	C8H7ClO	2'-chloroacetophenone	2142-68-9	501.15	43.995	1,2
12869	C8H6N2O	4-hydroxyquinazoline	491-36-1	610.25	54.572	2	13007	C8H7ClO	3-chlorostyrene oxide	20697-04-5	345.15	29.230	1,2
12870	C8H6N2O	phthalazone	119-39-1	610.25	54.572	1,2	13008	C8H7ClOS	O-(p-tolyl) chlorothionoformate	937-63-3	517.65	45.583	1,2
12871	C8H6N2O	2-cyanobenzamide	17174-98-0	610.25	54.572	2	13009	C8H7ClO2	benzyl chloroformate	501-53-1	513.08	45.143	2
12872	C8H6N2O	4-cyanobenzamide	3034-34-2	610.25	54.572	2	13010	C8H7ClO2	o-chlorobenzeneacetic acid	2444-36-2	513.08	45.143	2
12873	C8H6N2O	phenyl diazomethyl ketone	3282-32-4	610.25	54.572	2	13011	C8H7ClO2	m-chlorobenzeneacetic acid	1878-65-5	513.08	45.143	2
12874	C8H6N2O	2-quinoxalinol	1196-57-2	610.25	54.572	2	13012	C8H7ClO2	p-chlorobenzeneacetic acid	1878-66-6	513.08	45.143	2
12876	C8H6N2OS2	CGA 245704	135158-54-2	540.15	47.755	1,2	13013	C8H7ClO2	5-(chloromethyl)-1,3-benzodioxole	20850-43-5	513.08	45.143	2
12893	C8H6N2O2S	N-(4-(2-furyl)-2-thiazolyl)formamide	77503-17-4	350.65	29.742	1,2	13014	C8H7ClO2	4-methoxybenzoyl chloride	100-07-2	535.65	47.320	1,2
12900	C8H6N2O5	4'-nitrooxanilic acid	103-94-6	305.35	25.548	1,2	13015	C8H7ClO2	methyl 4-chlorobenzoate	1126-46-1	513.08	45.143	2
12908	C8H6N2S3	5-mercapto-3-phenyl-2H-1,3,4-thiadiazole-2-t*	17654-88-5	283.15	23.513	1,2	13016	C8H7ClO2	phenyl chloroacetate	620-73-5	505.65	44.427	1,2
12909	C8H6N4O4S	furothiazole	2578-75-8	394.05	33.805	1,2	13017	C8H7ClO2	5'-chloro-2'-hydroxyacetophenone	1450-74-4	513.08	45.143	2
12914	C8H6O	benzofuran	271-89-6	447.15	38.830	1,2	13018	C8H7ClO2	3-methoxybenzoyl chloride	1711-05-3	513.08	45.143	2
12915	C8H6O	phenoxyacetylene	4279-76-9	447.15	38.830	2	13019	C8H7ClO2	2-methoxybenzoyl chloride	21615-34-9	527.25	46.508	1,2
12917	C8H6O2	1,3-benzenedicarboxaldehyde	626-19-7	519.15	45.727	1,2	13020	C8H7ClO2	methyl 3-chlorobenzoate	2905-65-9	504.15	44.283	1,2
12918	C8H6O2	1,4-benzenedicarboxaldehyde	623-27-8	519.15	45.727	1,2	13021	C8H7ClO2	methyl 2-chlorobenzoate	610-96-8	507.15	44.572	1,2
12919	C8H6O2	2(3H)-benzofuranone	553-86-6	522.15	46.016	1,2	13022	C8H7ClO2	phenoxyacetyl chloride	701-99-5	498.65	43.754	1,2
12920	C8H6O2	3(2H)-benzofuranone	7169-34-8	530.90	46.861	2	13023	C8H7ClO2	p-tolyl chloroformate	937-62-2	513.08	45.143	2
12921	C8H6O2	1(3H)-isobenzofuranone	87-41-2	563.15	49.984	1,2	13024	C8H7ClO2	4-hydroxyphenacyl chloride	6305-04-0	513.08	45.143	2
12922	C8H6O2	phenylglyoxal hydrate	1075-06-5	530.90	46.861	2	13026	C8H7ClO3	3-chloro-4-hydroxy-5-methoxybenzaldehyde	19463-48-0	522.15	46.016	2
12923	C8H6O2	1,2-phthalic dicarboxaldehyde	643-79-8	530.90	46.861	2	13027	C8H7ClO3	(4-chlorophenoxy)acetic acid	122-88-3	522.15	46.016	2
12924	C8H6O2	2-(a,b-epoxyethyl)-5,6-epoxybenzene	13484-13-4	530.90	46.861	2	13028	C8H7ClO3	2-chlorophenoxyacetic acid	614-61-9	522.15	46.016	2
12927	C8H6O3	1,3-benzodioxole-5-carboxaldehyde	120-57-0	536.15	47.368	1,2	13029	C8H7ClO3	3-chlorophenoxyacetic acid	588-32-9	522.15	46.016	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
13030	C8H7ClO3	methyl 5-chloro-2-hydroxybenzoate	4068-78-4	522.15	46.016	2	13143	C8H7NOS	2-(methylthio)phenyl isocyanate	52260-30-7	545.40	48.263	2
13031	C8H7ClO3	4-chloro-o-anisic acid	57479-70-6	522.15	46.016	2	13145	C8H7NO2	4-methoxyphenyl isocyanate	5416-93-3	448.00	38.911	2
13032	C8H7ClO3	2-chloromandelic acid	10421-85-9	522.15	46.016	2	13146	C8H7NO2	3-nitrooctane	4609-92-1	448.00	38.911	2
13033	C8H7ClO3	4-chloromandelic acid	492-86-4	522.15	46.016	2	13147	C8H7NO2	trans-(2-nitrovinyl)benzene	5153-67-3	528.15	46.595	1,2
13034	C8H7ClO3	(R)-(-)-2-chloromandelic acid	52950-18-2	522.15	46.016	2	13148	C8H7NO2	alpha-oxobenzeneacetaldehyde aldoxime	532-54-7	448.00	38.911	2
13035	C8H7ClO3	5-chloro-2-methoxybenzoic acid	3438-16-2	522.15	46.016	2	13149	C8H7NO2	1-vinyl-3-nitrobenzene	586-39-0	448.00	38.911	2
13036	C8H7ClO3	4-methoxyphenyl chloroformate	7693-41-6	522.15	46.016	2	13150	C8H7NO2	1-vinyl-4-nitrobenzene	100-13-0	448.00	38.911	2
13037	C8H7ClO3	4-chloro-4-cyclohexene-1,2-dicarboxylic anhy*	14737-08-7	522.15	46.016	2	13151	C8H7NO2	4-hydroxy-3-methoxybenzonitrile	4221-08-3	448.00	38.911	2
13051	C8H7Cl3O2	2-(2,4,5-trichlorophenoxy)ethanol	2122-77-2	349.15	29.602	1,2	13152	C8H7NO2	3-methoxyphenyl isocyanate	18908-07-1	448.00	38.911	2
13058	C8H7FO	1-(4-fluorophenyl)ethanone	403-42-9	469.15	40.928	1,2	13153	C8H7NO2	2-methoxyphenyl isocyanate	700-87-8	367.85	31.347	1,2
13059	C8H7FO	2-fluoro-1-phenylethanone	450-95-3	472.63	41.260	2	13154	C8H7NO2	3-methyl-2-benzoxazolinone	21892-80-8	448.00	38.911	2
13060	C8H7FO	2'-fluoroacetophenone	445-27-2	461.05	40.155	1,2	13156	C8H7NO2	2-(2-pyridyl)malondialdehyde	212755-83-4	448.00	38.911	2
13061	C8H7FO	3'-fluoroacetophenone	455-36-7	472.63	41.260	2	13157	C8H7NO2	2-(4-pyridyl)malondialdehyde	51076-46-1	448.00	38.911	2
13062	C8H7FO	4-fluoro-3-methylbenzaldehyde	135427-08-6	481.15	42.076	1,2	13158	C8H7NO2	(2-nitroethenyl)benzene	102-96-5	448.00	38.911	2
13063	C8H7FO	3-fluoro-2-methylbenzaldehyde	147624-13-3	472.63	41.260	2	13164	C8H7NO3	2-nitrobenzeneacetaldehyde	1969-73-9	406.90	35.016	2
13064	C8H7FO	3-fluoro-4-methylbenzaldehyde	177756-62-6	479.15	41.884	1,2	13165	C8H7NO3	1-(2-nitrophenyl)ethanone	577-59-3	406.90	35.016	2
13065	C8H7FO2	4-fluorobenezeneacetic acid	405-50-5	476.65	41.645	2	13166	C8H7NO3	1-(3-nitrophenyl)ethanone	121-89-1	475.15	41.502	1,2
13066	C8H7FO2	1-acetoxy-3-fluorobenzene	701-83-7	476.65	41.645	2	13167	C8H7NO3	1-(4-nitrophenyl)ethanone	100-19-6	406.90	35.016	2
13067	C8H7FO2	2'-fluoro-4'-hydroxyacetophenone	98619-07-9	476.65	41.645	2	13168	C8H7NO3	2-nitro-1-phenylethanone	614-21-1	406.90	35.016	2
13068	C8H7FO2	4'-fluoro-2'-hydroxyacetophenone	1481-27-2	476.65	41.645	2	13169	C8H7NO3	6-methoxybenzoxazolinone	532-91-2	406.90	35.016	2
13069	C8H7FO2	5'-fluoro-2'-hydroxyacetophenone	394-32-1	476.65	41.645	2	13170	C8H7NO3	oxanilic acid	500-72-1	338.65	28.626	1,2
13070	C8H7FO2	3-fluoro-4-methylbenzoic acid	350-28-7	476.65	41.645	2	13171	C8H7NO3S	cyanomethyl benzenesulfonate	10531-13-2	417.15	35.984	1,2
13071	C8H7FO2	4-fluorophenyl acetate	405-51-6	476.65	41.645	1,2	13172	C8H7NO3S	o-toluenesulfonyl isocyanate	32324-19-9	417.15	35.984	2
13072	C8H7FO2	a-fluorophenylacetic acid	1578-63-8	476.65	41.645	2	13173	C8H7NO3S	p-toluenesulfonyl isocyanate	4083-64-1	417.15	35.984	1,2
13073	C8H7FO2	3-fluorophenylacetic acid	331-25-9	476.65	41.645	2	13176	C8H7NO4	methyl 2-nitrobenzoate	606-27-9	548.15	48.529	1,2
13074	C8H7FO2	2-fluorophenylacetic acid	451-82-1	476.65	41.645	2	13177	C8H7NO4	methyl 3-nitrobenzoate	618-95-1	537.15	47.465	2
13075	C8H7FO2	methyl 4-fluorobenzoate	403-33-8	476.65	41.645	2	13178	C8H7NO4	o-nitrobenzeneacetic acid	3740-52-1	537.15	47.465	2
13079	C8H7F3	1-methyl-4-(trifluoromethyl)benzene	6140-17-6	402.15	34.568	1,2	13179	C8H7NO4	m-nitrobenzeneacetic acid	1877-73-2	537.15	47.465	2
13080	C8H7F3	3-methylbenzotrifluoride	401-79-6	401.60	34.516	1,2	13180	C8H7NO4	p-nitrobenzeneacetic acid	104-03-0	537.15	47.465	2
13082	C8H7F3O	4-(trifluoromethoxy)toluene	706-27-4	407.65	35.087	1,2	13181	C8H7NO4	2-nitrophenyl acetate	610-69-5	526.15	46.402	2
13083	C8H7F3O	3-(trifluoromethyl)anisole	454-90-0	433.15	37.500	1,2	13182	C8H7NO4	2-aminoterephthalic acid	10312-55-7	537.15	47.465	2
13084	C8H7F3O	(R)-(-)-a-(trifluoromethyl)benzyl alcohol	10531-50-7	420.40	36.292	2	13183	C8H7NO4	4-hydroxy-3-nitroacetophenone	6322-56-1	537.15	47.465	2
13085	C8H7F3O	a-(trifluoromethyl)benzyl alcohol	340-04-5	420.40	36.292	2	13184	C8H7NO4	methyl 4-nitrobenzoate	619-50-1	537.15	47.465	2
13086	C8H7F3O	(S)-(+)-a-(trifluoromethyl)benzyl alcohol	340-06-7	420.40	36.292	2	13185	C8H7NO4	2-methyl-6-nitrobenzoic acid	13506-76-8	537.15	47.465	2
13087	C8H7F3O	2-(trifluoromethyl)benzyl alcohol	346-06-5	420.40	36.292	2	13186	C8H7NO4	2-methyl-3-nitrobenzoic acid	1975-50-4	537.15	47.465	2
13088	C8H7F3O	3-(trifluoromethyl)benzyl alcohol	349-75-7	420.40	36.292	2	13187	C8H7NO4	2-methyl-5-nitrobenzoic acid	1975-52-6	537.15	47.465	2
13089	C8H7F3O	4-(trifluoromethyl)benzyl alcohol	349-95-1	420.40	36.292	2	13188	C8H7NO4	3-methyl-4-nitrobenzoic acid	3113-71-1	537.15	47.465	2
13090	C8H7F3O2	4-(trifluoromethoxy)anisole	710-18-9	437.15	37.880	1,2	13189	C8H7NO4	3-methyl-2-nitrobenzoic acid	5437-38-7	537.15	47.465	2
13091	C8H7F3O2	4-(trifluoromethoxy)benzyl alcohol	1736-74-9	437.15	37.880	2	13190	C8H7NO4	4-methyl-3-nitrobenzoic acid	96-98-0	537.15	47.465	2
13096	C8H7F7O2	2,2,3,3,4,4,4-heptafluorobutyl methacrylate	13695-31-3	408.15	35.134	1,2	13191	C8H7NO4	4-nitrophenyl acetate	830-03-5	537.15	47.465	2
13101	C8H7IO2	methyl 2-iodobenzoate	610-97-9	553.15	49.014	1,2	13192	C8H7NO4Se	(p-nitrophenylselenyl)acetic acid	17893-55-9	376.15	32.124	1,2
13102	C8H7IO2	methyl 3-iodobenzoate	618-91-7	550.15	48.723	1,2	13202	C8H7NS	benzyl isothiocyanate	622-78-6	516.15	45.438	1,2
13103	C8H7IO2	methyl 4-iodobenzoate	619-44-3	551.65	48.868	2	13203	C8H7NS	benzyl thiocyanate	3012-37-1	505.15	44.379	1,2
13104	C8H7IO2	3-iodo-4-methylbenzoic acid	82998-57-0	551.65	48.868	2	13204	C8H7NS	2-methylbenzothiazole	120-75-2	511.15	44.956	1,2
13107	C8H7N	indole	120-72-9	526.15	48.616	1,2	13205	C8H7NS	4-(methylthio)benzonitrile	21382-98-9	545.15	48.239	1,2
13108	C8H7N	benzeneacetonitrile	140-29-4	506.65	44.523	1,2	13206	C8H7NS	phenylthioacetonitrile	5219-61-4	516.58	45.479	2
13109	C8H7N	2-methylbenzonitrile	529-19-1	478.15	41.789	1,2	13207	C8H7NS	o-tolyl isothiocyanate	614-69-7	512.15	45.053	1,2
13110	C8H7N	3-methylbenzonitrile	620-22-4	486.15	42.555	1,2	13208	C8H7NS	m-tolyl isothiocyanate	621-30-7	516.15	45.438	1,2
13111	C8H7N	4-methylbenzonitrile	104-85-8	490.15	42.939	1,2	13209	C8H7NS	p-tolyl isothiocyanate	622-59-3	510.15	44.860	1,2
13112	C8H7N	indolizine	274-40-8	478.15	41.789	1,2	13210	C8H7NS2	3-methyl-2(3H)-benzothiazolethione	2254-94-6	608.15	54.366	1,2
13113	C8H7N	(isocyanomethyl)benzene	10340-91-7	472.15	41.215	2	13211	C8H7NS2	2-(methylthio)benzothiazole	615-22-5	608.15	54.366	2
13114	C8H7N	2,4,6-cycloheptatriene-1-carbonitrile	13612-59-4	491.08	43.028	2	13212	C8H7NS2	4-(methylthio)phenyl isothiocyanate	15863-41-9	608.15	54.366	2
13115	C8H7N	3-ethynylaniline	54060-30-9	491.08	43.028	2	13213	C8H7NS2	2-(methylthio)phenyl isothiocyanate	51333-75-6	608.15	54.366	2
13116	C8H7NO	1,3-dihydro-2H-indol-2-one	59-48-3	477.82	41.757	2	13220	C8H7N3O2	4-phenylurazole	15988-11-1	507.15	44.572	2
13117	C8H7NO	2,3-dihydro-1H-isoindol-1-one	480-91-1	611.15	54.660	1,2	13221	C8H7N3O2	2-benzimidazolecarbamic acid	18538-45-9	507.15	44.572	2
13118	C8H7NO	alpha-hydroxybenzeneacetonitrile, (±)	613-88-7	443.15	38.450	1,2	13222	C8H7N3O2	methyl-2-azidobenzoate	16714-23-1	507.15	44.572	1,2
13119	C8H7NO	1-isocyanato-2-methylbenzene	614-68-6	458.15	39.878	1,2	13223	C8H7N3O2	1-methyl-2-nitrobenzimidazole	5709-68-2	507.15	44.572	2
13120	C8H7NO	2-methoxybenzonitrile	6609-56-9	528.65	46.644	1,2	13237	C8H8	styrene	100-42-5	418.31	42.920	1,2
13121	C8H7NO	3-methoxybenzonitrile	1527-89-5	477.82	41.757	2	13238	C8H8	1,3,5,7-cyclooctatetraene	629-20-9	413.16	36.401	1,2
13122	C8H7NO	4-methoxybenzonitrile	874-90-8	529.65	46.740	1,2	13239	C8H8	trans-5-(2-propenylidene)-1,3-cyclopentadiene	116862-65-8	418.21	36.084	2
13123	C8H7NO	2-methylbenzoxazole	95-21-6	473.65	41.358	1,2	13240	C8H8	benzocyclobutene	694-87-1	423.15	36.552	1,2
13124	C8H7NO	phenoxyacetonitrile	3598-14-9	512.65	45.101	1,2	13241	C8H8	cubane	277-10-1	418.21	36.084	2
13125	C8H7NO	benzyl isocyanate	3173-56-6	477.82	41.757	2	13242	C8H8	1,3,7-octatrien-5-yne	16607-77-5	418.21	36.084	2
13126	C8H7NO	5-hydroxyindole	1953-54-4	477.82	41.757	2	13251	C8H8BrN3O2	3-(p-bromophenyl)-1-methyl-1-nitrosourea	23139-02-8	322.45	27.125	1,2
13127	C8H7NO	4-hydroxyindole	2380-94-1	477.82	41.757	2	13252	C8H8Br2	1,2-bis(bromomethyl)benzene	91-13-4	536.46	47.398	2
13128	C8H7NO	3-hydroxyindole	480-93-3	477.82	41.757	2	13253	C8H8Br2	1,3-bis(bromomethyl)benzene	626-15-3	536.46	47.398	2
13129	C8H7NO	4-hydroxyphenylacetonitrile	14191-95-8	603.15	53.878	1,2	13254	C8H8Br2	1,4-bis(bromomethyl)benzene	623-24-5	518.15	45.631	1,2
13130	C8H7NO	(R)-(+)-mandelonitrile	10020-96-9	443.15	38.450	1,2	13255	C8H8Br2	1,2-dibromo-3,4-dimethylbenzene	24932-49-8	550.15	48.723	1,2
13131	C8H7NO	mandelonitrile	532-28-5	443.15	38.450	1,2	13256	C8H8Br2	1,5-dibromo-2,4-dimethylbenzene	615-87-2	528.65	46.644	1,2
13132	C8H7NO	6-methylbenzoxazole	10531-80-3	477.82	41.757	2	13257	C8H8Br2	(1,2-dibromoethyl)benzene	93-52-7	536.46	47.398	2
13133	C8H7NO	5-methylbenzoxazole	10531-78-9	477.82	41.757	2	13258	C8H8Br2	1,4-dibromo-2,5-dimethylbenzene	1074-24-4	534.15	47.175	1,2
13134	C8H7NO	m-tolyl isocyanate	621-29-4	348.15	29.509	1,2	13259	C8H8Br2	1,2-dibromo-4,5-dimethylbenzene	24932-48-7	551.20	48.825	1,2
13135	C8H7NO	p-tolyl isocyanate	622-58-2	339.15	28.672	1,2	13260	C8H8Br2	ethyl dibromobenzene	30812-87-4	536.46	47.398	2
13136	C8H7NOS	2-methoxyphenyl isothiocyanate	3288-04-8	537.15	47.465	1,2	13262	C8H8Br3N3	3,3-dimethyl-1-(2,4,6-tribromophenyl)triazene	50355-75-4	305.35	25.548	1,2
13137	C8H7NOS	2H-1,4-benzothiazin-3(4H)-one	5325-20-2	545.40	48.263	2	13265	C8H8ClF2N	m-chloro-N-(2,2-difluoroethyl)aniline	331-54-4	303.25	25.355	1,2
13138	C8H7NOS	4-methoxyphenyl isothiocyanate	2284-20-0	553.65	49.062	1,2	13267	C8H8ClNO	N-(4-chlorophenyl)acetamide	539-03-7	606.15	54.171	1,2
13139	C8H7NOS	3-methoxyphenyl isothiocyanate	3125-64-2	545.40	48.263	2	13268	C8H8ClNO	methylphenylcarbamic chloride	4285-42-1	553.15	49.014	1,2
13140	C8H7NOS	3-methyl-2(3H)-benzoxazolethione	13673-63-7	545.40	48.263	2	13269	C8H8ClNO	2'-chloroacetanilide	533-17-5	579.65	51.587	2
13141	C8H7NOS	4-(methylthio)phenyl isocyanate	1632-84-4	545.40	48.263	2	13270	C8H8ClNO	3'-chloroacetanilide	588-07-8	579.65	51.587	2
13142	C8H7NOS	3-(methylthio)phenyl isocyanate	28479-19-8	545.40	48.263	2	13271	C8H8ClNO	4-chloro-N-formyl-o-toluidine	21787-81-5	579.65	51.587	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
13279	C8H8ClNO4	1-chloro-2,4-dimethoxy-5-nitrobenzene	119-21-1	495.45	43.447	1,2	13424	C8H8O2	2-hydroxy-4-methylbenzaldehyde	698-27-1	496.15	43.514	1,2
13280	C8H8ClN3O2	1-methyl-1-nitroso-3-(p-chlorophenyl)urea	25355-61-7	310.15	25.990	1,2	13425	C8H8O2	2-hydroxy-5-methylbenzaldehyde	613-84-3	490.65	42.986	1,2
13281	C8H8Cl2	1,2-bis(chloromethyl)benzene	612-12-4	512.65	45.101	1,2	13426	C8H8O2	2-hydroxy-6-methylbenzaldehyde	18362-36-2	503.15	44.187	1,2
13282	C8H8Cl2	1,3-bis(chloromethyl)benzene	626-16-4	524.65	46.258	1,2	13427	C8H8O2	1-(2-hydroxyphenyl)ethanone	118-93-4	491.15	43.034	1,2
13283	C8H8Cl2	1,4-bis(chloromethyl)benzene	623-25-6	524.65	46.258	2	13428	C8H8O2	1-(3-hydroxyphenyl)ethanone	121-71-1	569.15	50.566	1,2
13284	C8H8Cl2	1,2-dichloro-3,4-dimethylbenzene	68266-67-1	504.15	44.283	1,2	13429	C8H8O2	1-(4-hydroxyphenyl)ethanone	99-93-4	504.96	44.361	2
13285	C8H8Cl2	1,3-dichloro-2,5-dimethylbenzene	38204-89-6	495.15	43.418	1,2	13430	C8H8O2	2-methoxybenzaldehyde	135-02-4	516.65	45.486	1,2
13286	C8H8Cl2	1,4-dichloro-2,5-dimethylbenzene	1124-05-6	495.15	43.418	1,2	13431	C8H8O2	3-methoxybenzaldehyde	591-31-1	504.15	44.283	1,2
13287	C8H8Cl2	1,5-dichloro-2,4-dimethylbenzene	2084-45-9	496.15	43.514	1,2	13432	C8H8O2	4-methoxybenzaldehyde	123-11-5	521.15	45.920	1,2
13288	C8H8Cl2	2,3-dichloro-1,4-dimethylbenzene	34840-79-4	503.15	44.187	1,2	13433	C8H8O2	m-toluic acid	99-04-7	504.96	44.361	2
13289	C8H8Cl2	(1,2-dichloroethyl)benzene	1074-11-9	506.65	44.523	1,2	13434	C8H8O2	6,7-dihydro-4(5H)-benzofuranone	16806-93-2	504.96	44.361	2
13290	C8H8Cl2	1,4-dichloro-2-ethylbenzene	54484-63-8	486.65	42.603	1,2	13435	C8H8O2	2,5-dimethyl-p-benzoquinone	137-18-8	504.96	44.361	2
13291	C8H8Cl2	1-(dichloromethyl)-4-methylbenzene	23063-36-7	486.53	42.592	2	13436	C8H8O2	4-hydroxy-3-methylbenzaldehyde	15174-69-3	523.75	46.171	1,2
13292	C8H8Cl2	ethyldichlorobenzene	1331-29-9	486.53	42.592	2	13437	C8H8O2	3,4-(methylenedioxy)toluene	7145-99-5	472.65	41.263	1,2
13293	C8H8Cl2	xylene chloride	28347-13-9	486.53	42.592	2	13438	C8H8O2	furfurylidine-2-propanal	874-66-8	504.96	44.361	2
13294	C8H8Cl2IO3PS	iodofenophos	18181-70-9	303.25	25.355	1,2	13439	C8H8O2	4-methyl-tropolone	583-80-2	504.96	44.361	2
13295	C8H8Cl2O	2,4-dichloro-3,5-dimethylphenol	133-53-9	510.15	44.860	2	13440	C8H8O2	phenoxyacetaldehyde	2120-70-9	504.96	44.361	2
13296	C8H8Cl2O	2,6-dichloro-3,5-dimethylphenol	1943-54-0	510.15	44.860	2	13444	C8H8O2Te	acide methyl-TE-2-benzoique	22261-92-3	490.65	42.986	1,2
13297	C8H8Cl2O	2,4-dichloro-alpha-methylbenzenemethanol	1475-13-4	510.15	44.860	2	13445	C8H8O3	methyl salicylate	119-36-8	493.65	52.021	1,2
13298	C8H8Cl2O	2,4-dichloro-1-ethoxybenzene	5392-86-9	510.15	44.860	1,2	13446	C8H8O3	vanillin	121-33-5	558.00	62.123	1,2
13299	C8H8Cl2O	2,6-dichlorobenzyl methyl ether	33486-90-7	510.15	44.860	2	13447	C8H8O3	allyl 2-furancarboxylate	4208-49-5	480.65	42.028	1,2
13300	C8H8Cl2O	2,6-dichlorophenethylalcohol	30595-79-0	510.15	44.860	2	13448	C8H8O3	1,2-benzenediol monoacetate	2848-25-1	522.32	46.033	2
13301	C8H8Cl2O	3,4-dichlorophenethylalcohol	35364-79-5	510.15	44.860	2	13449	C8H8O3	1,3-benzodioxole-5-methanol	495-76-1	522.32	46.033	2
13302	C8H8Cl2O	2,4-dichlorophenethyl alcohol	81156-68-5	510.15	44.860	2	13450	C8H8O3	1-(2,4-dihydroxyphenyl)ethanone	89-84-9	522.32	46.033	2
13303	C8H8Cl2O2	chloroneb	2675-77-6	541.15	47.852	1,2	13451	C8H8O3	alpha-hydroxybenzeneacetic acid, (±)	611-72-3	522.32	46.033	2
13304	C8H8Cl2O2	2-(2,4-dichlorophenoxy)-ethanol	120-67-2	541.15	47.852	2	13452	C8H8O3	alpha-hydroxybenzeneacetic acid, (S)	17199-29-0	522.32	46.033	2
13305	C8H8Cl2O3	2,4-dichlorophenoxy ethanediol	73986-95-5	304.20	25.442	1,2	13453	C8H8O3	2-hydroxybenzeneacetic acid	614-75-5	513.15	45.149	1,2
13307	C8H8Cl3N3	2,4,6-trichloro-phenyldimethyltriazene	50355-74-3	293.25	24.437	1,2	13454	C8H8O3	3-hydroxybenzeneacetic acid	621-37-4	522.32	46.033	2
13316	C8H8F2O	2,6-difluoro-a-methylbenzyl alcohol	87327-65-9	454.15	39.497	1,2	13455	C8H8O3	4-hydroxybenzeneacetic acid	156-38-7	522.32	46.033	2
13324	C8H8F6O2	2,2,3,4,4,4-hexafluorobutyl methacrylate	36405-47-7	431.15	37.310	1,2	13456	C8H8O3	3-hydroxy-4-methoxybenzaldehyde	621-59-0	522.32	46.033	2
13328	C8H8INO	4'-iodoacetanilide	622-50-4	453.15	39.402	1,2	13457	C8H8O3	3-hydroxy-5-methoxybenzaldehyde	57179-35-8	522.32	46.033	2
13329	C8H8I2O2S	diiodomethyl p-tolyl sulfone	20018-09-1	403.15	34.662	1,2	13458	C8H8O3	2-hydroxy-3-methoxybenzaldehyde	148-53-8	538.65	47.610	1,2
13330	C8H8K2	dipotassium cyclooctatetraene	78831-88-6	490.65	42.986	1,2	13459	C8H8O3	2-hydroxy-5-methoxybenzaldehyde	672-13-9	520.65	45.872	1,2
13332	C8H8N2	4-aminobenzeneacetonitrile	3544-25-0	585.15	52.123	1,2	13460	C8H8O3	2-hydroxy-3-methylbenzoic acid	83-40-9	522.32	46.033	2
13333	C8H8N2	5-amino-2-methylbenzonitrile	50670-64-9	550.57	48.763	2	13461	C8H8O3	2-hydroxy-4-methylbenzoic acid	50-85-1	522.32	46.033	2
13334	C8H8N2	1-methyl-1H-benzimidazole	1632-83-3	559.15	49.595	1,2	13462	C8H8O3	2-hydroxy-5-methylbenzoic acid	89-56-5	522.32	46.033	2
13335	C8H8N2	2-methyl-1H-benzimidazole	615-15-6	550.57	48.763	2	13463	C8H8O3	3-hydroxy-5-methylbenzoic acid	585-81-9	522.32	46.033	2
13336	C8H8N2	1-methyl-1H-indazole	13436-48-1	504.15	44.283	1,2	13464	C8H8O3	2-methoxybenzoic acid	579-75-9	473.15	41.310	1,2
13337	C8H8N2	2-methyl-2H-indazole	4838-00-0	534.15	47.175	1,2	13465	C8H8O3	3-methoxybenzoic acid	586-38-9	522.32	46.033	2
13338	C8H8N2	3-methyl-1H-indazole	3176-62-3	553.65	49.062	1,2	13466	C8H8O3	4-methoxybenzoic acid	100-09-4	549.65	48.674	1,2
13339	C8H8N2	5-methyl-1H-indazole	1776-37-0	567.15	50.372	1,2	13467	C8H8O3	methyl 2-furanacrylate	623-18-7	500.15	43.899	1,2
13340	C8H8N2	methylphenylcyanamide	18773-77-8	550.57	48.763	2	13468	C8H8O3	methyl 3-hydroxybenzoate	19438-10-9	554.15	49.111	1,2
13341	C8H8N2	5-aminoindole	5192-03-0	550.57	48.763	2	13469	C8H8O3	methyl 4-hydroxybenzoate	99-76-3	548.15	48.529	2
13342	C8H8N2	5-methylbenzimidazole	614-97-1	550.57	48.763	2	13470	C8H8O3	phenoxyacetic acid	122-59-8	558.15	49.498	2
13343	C8H8N2	N-phenylglycinonitrile	3009-97-0	550.57	48.763	2	13471	C8H8O3	4,5,6,7-tetrahydro-1,3-isobenzofurandione	2426-02-0	522.32	46.033	2
13349	C8H8N2OS	2-amino-6-methoxybenzothiazole	1747-60-0	513.15	45.149	1,2	13472	C8H8O3	2',5'-dihydroxyacetophenone	490-78-8	522.32	46.033	2
13351	C8H8N2OS	2-amino-4-methoxybenzothiazole	5464-79-9	513.15	45.149	2	13473	C8H8O3	3',5'-dihydroxyacetophenone	51863-60-6	522.32	46.033	2
13362	C8H8N2O2S2	acetopyrrothine	87-11-6	473.15	41.310	1,2	13474	C8H8O3	2',6'-dihydroxyacetophenone	699-83-2	522.32	46.033	2
13369	C8H8N2O3S	1,2-benzisoxazole-3-methanesulfonamide	68291-97-4	496.15	43.514	1,2	13475	C8H8O3	1-(2-furyl)-1,3-butanedione	25790-35-6	522.32	46.033	2
13370	C8H8N2O4	carbamic acid, (4-nitrophenyl)-, methyl ester	1943-87-9	499.15	43.802	2	13476	C8H8O3	4-hydroxy-2-methoxybenzaldehyde	18278-34-7	522.32	46.033	2
13371	C8H8N2O4	3,4-dihydroxyphenylglyoxime	65561-73-1	499.15	43.802	1,2	13477	C8H8O3	2-hydroxy-4-methoxybenzaldehyde	673-22-3	522.32	46.033	2
13372	C8H8N2O4	N-(p-nitrophenyl)glycine	619-91-0	499.15	43.802	2	13478	C8H8O3	3-hydroxy-4-methylbenzoic acid	586-30-1	522.32	46.033	2
13384	C8H8N3NaO8	sodium-4,4-dimethoxy-1-aci-nitro-3,5-dinitro*	12275-58-0	459.15	39.973	1,2	13479	C8H8O3	(R)-(-)-mandelic acid	611-71-2	522.32	46.033	2
13391	C8H8O	acetophenone	98-86-2	475.15	44.253	1,2	13480	C8H8O3	mandelic acid	90-64-2	522.32	46.033	2
13392	C8H8O	p-tolualdehyde	104-87-0	477.15	45.610	1,2	13481	C8H8O3	resorcin monoacetate	102-29-4	556.15	49.304	1,2
13393	C8H8O	benzeneacetaldehyde	122-78-1	468.15	40.833	1,2	13482	C8H8O3	cis-1,2,3,6-tetrahydrophthalic anhydride	935-79-5	522.32	46.033	2
13394	C8H8O	2-methylbenzaldehyde	529-20-4	473.15	41.310	1,2	13483	C8H8O3	cis-1,2,3,6-tetrahydrophthalic anydride	85-43-8	468.15	40.833	1,2
13395	C8H8O	3-methylbenzaldehyde	620-23-5	472.15	41.215	1,2	13487	C8H8O4	3-acetyl-6-methyl-2H-pyran-2,4(3H)-dione	520-45-6	543.15	48.045	1,2
13396	C8H8O	2,3-dihydrobenzofuran	496-16-2	461.65	40.212	1,2	13488	C8H8O4	2,4-dihydroxy-6-methylbenzoic acid	480-64-8	543.15	48.045	2
13397	C8H8O	phenyloxirane	96-09-3	467.25	40.747	1,2	13489	C8H8O4	2,6-dimethoxy-2,5-cyclohexadiene-1,4-dione	530-55-2	543.15	48.045	2
13398	C8H8O	phenyl vinyl ether	766-94-9	428.65	37.073	1,2	13490	C8H8O4	fumigatin	484-89-9	543.15	48.045	2
13399	C8H8O	2-vinylphenol	695-84-1	463.74	40.412	2	13491	C8H8O4	2,5-hydroxybenzeneacetic acid	451-13-8	543.15	48.045	2
13400	C8H8O	3-vinylphenol	620-18-8	463.74	40.412	2	13492	C8H8O4	4-hydroxy-3-methoxybenzoic acid	121-34-6	543.15	48.045	2
13401	C8H8O	phthalan	496-14-0	465.15	40.546	1,2	13493	C8H8O4	1-(2,3,4-trihydroxyphenyl)ethanone	528-21-2	543.15	48.045	2
13402	C8H8O	(R)-(+)-styrene oxide	20780-53-4	467.15	40.737	1,2	13494	C8H8O4	5-acetoxymethyl-2-furaldehyde	10551-58-3	543.15	48.045	2
13403	C8H8O	(S)-(-)-styrene oxide	20780-54-5	466.15	40.641	1,2	13495	C8H8O4	2,6-dihydroxy-4-methylbenzoic acid	480-67-1	543.15	48.045	2
13404	C8H8O	tolualdehyde	1334-78-7	463.74	40.412	2	13496	C8H8O4	3,4-dihydroxyphenylacetic acid	102-32-9	543.15	48.045	2
13405	C8H8O	4-vinylphenol	2628-17-3	443.15	38.450	1,2	13497	C8H8O4	DL-4-hydroxymandelic acid	7198-10-9	543.15	48.045	2
13412	C8H8O2	methyl benzoate	93-58-3	472.65	44.023	1,2	13498	C8H8O4	3-hydroxy-4-methoxybenzoic acid	645-08-9	543.15	48.045	2
13413	C8H8O2	o-toluic acid	118-90-1	532.00	56.689	1,2	13499	C8H8O4	4-methoxysalicylic acid	2237-36-7	543.15	48.045	2
13414	C8H8O2	p-toluic acid	99-94-5	548.15	58.386	1,2	13500	C8H8O4	5-methoxysalicylic acid	2612-02-4	543.15	48.045	2
13415	C8H8O2	benzeneacetic acid	103-82-2	538.65	47.610	1,2	13501	C8H8O4	3-methoxysalicylic acid	877-22-5	543.15	48.045	2
13416	C8H8O2	benzyl formate	104-57-4	476.15	41.597	1,2	13502	C8H8O4	methyl 3,5-dihydroxybenzoate	2150-44-9	543.15	48.045	2
13417	C8H8O2	phenyl acetate	122-79-2	469.15	40.928	1,2	13503	C8H8O4	methyl 2,4-dihydroxybenzoate	2150-47-2	543.15	48.045	2
13418	C8H8O2	2,3-dihydro-1,4-benzodioxin	493-09-4	485.15	42.459	1,2	13504	C8H8O4	2',4',6'-trihydroxyacetophenone monohydrate	480-66-0	543.15	48.045	2
13419	C8H8O2	2,3-dimethyl-2,5-cyclohexadiene-1,4-dione	526-86-3	504.96	44.361	2	13509	C8H8O5	dimethyl 2,5-furandicarboxylate	4282-32-0	423.15	36.552	2
13420	C8H8O2	2,6-dimethyl-2,5-cyclohexadiene-1,4-dione	527-61-7	504.96	44.361	2	13511	C8H8O5	DL-3,4-dihydroxymandelic acid	14883-87-5	423.15	36.552	2
13421	C8H8O2	4-(2-furanyl)-3-buten-2-one	623-15-4	502.15	44.091	2	13512	C8H8O5	dimethyl 3,4-furandicarboxylate	4282-33-1	423.15	36.552	1,2
13422	C8H8O2	(hydroxyacetyl)benzene	582-24-1	504.96	44.361	2	13527	C8H9Br	1-bromo-2,3-dimethylbenzene	576-23-8	487.15	42.651	1,2
13423	C8H8O2	2-hydroxy-3-methylbenzaldehyde	824-42-0	481.65	42.124	1,2	13528	C8H9Br	1-bromo-2,4-dimethylbenzene	583-70-0	478.15	41.789	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
13529	C8H9Br	1-bromo-3,5-dimethylbenzene	556-96-7	477.15	41.693	1,2	13622	C8H9Cl2N	2,4-dichlorophenethylamine	52516-13-9	507.20	44.576	2
13530	C8H9Br	2-bromo-1,3-dimethylbenzene	576-22-7	476.65	41.645	1,2	13623	C8H9Cl2N	2,4-dichloro-N,N-dimethylbenzenamine	35113-90-7	507.20	44.576	1,2
13531	C8H9Br	2-bromo-1,4-dimethylbenzene	553-94-6	472.15	41.215	1,2	13624	C8H9Cl2NO	2,6-dichloro-4-ethoxyaniline	51225-20-8	548.15	48.529	1,2
13532	C8H9Br	4-bromo-1,2-dimethylbenzene	583-71-1	487.65	42.699	1,2	13625	C8H9Cl2NO	1-(3,5-dichlorophenyl)-2-hydroxyethylamine	372144-00-8	548.15	48.529	2
13533	C8H9Br	(1-bromoethyl)benzene, (±)	38661-81-3	475.15	41.502	1,2	13626	C8H9Cl2P	(2,5-dimethylphenyl)phosphonous dichloride	57150-66-0	526.65	46.451	1,2
13534	C8H9Br	(1-bromoethyl)benzene, (R)	1459-14-9	476.15	41.597	1,2	13627	C8H9Cl2P	(4-ethylphenyl)phosphonous dichloride	5274-50-0	524.15	46.209	1,2
13535	C8H9Br	(2-bromoethyl)benzene	103-63-9	492.15	43.130	1,2	13629	C8H9Cl3Si	trichloro(2-phenylethyl)silane	940-41-0	515.15	45.342	1,2
13536	C8H9Br	1-bromo-2-ethylbenzene	1973-22-4	472.45	41.243	1,2	13630	C8H9F	3-fluoro-o-xylene	443-82-3	423.15	36.552	1,2
13537	C8H9Br	1-bromo-3-ethylbenzene	2725-82-8	475.15	41.502	1,2	13631	C8H9F	2-fluoro-m-xylene	443-88-9	420.65	36.315	1,2
13538	C8H9Br	1-bromo-4-ethylbenzene	1585-07-5	477.15	41.693	1,2	13632	C8H9F	4-fluoro-o-xylene	452-64-2	422.15	36.457	1,2
13539	C8H9Br	1-(bromomethyl)-2-methylbenzene	89-92-9	490.15	42.939	1,2	13635	C8H9FO	1-ethoxy-2-fluorobenzene	451-80-9	444.55	38.583	1,2
13540	C8H9Br	1-(bromomethyl)-3-methylbenzene	620-13-3	485.65	42.507	1,2	13636	C8H9FO	1-ethoxy-3-fluorobenzene	458-03-7	445.15	38.640	1,2
13541	C8H9Br	1-(bromomethyl)-4-methylbenzene	104-81-4	493.15	43.226	1,2	13637	C8H9FO	1-ethoxy-4-fluorobenzene	459-26-7	446.15	38.735	1,2
13542	C8H9Br	(1-bromoethyl)benzene	585-71-7	367.15	31.281	1,2	13638	C8H9FO	4-fluoro-3-methylanisole	2338-54-7	447.65	38.878	1,2
13543	C8H9Br	xylyl bromide	35884-77-6	488.15	42.747	1,2	13639	C8H9FO	4-fluoro-2-methylanisole	399-54-2	445.88	38.709	2
13545	C8H9BrO	(2-bromoethoxy)benzene	589-10-6	513.15	45.149	2	13640	C8H9FO	4-fluoro-a-methylbenzyl alcohol	403-41-8	445.88	38.709	2
13546	C8H9BrO	1-bromo-2-ethoxybenzene	583-19-7	496.15	43.514	1,2	13641	C8H9FO	2-fluorophenethyl alcohol	50919-06-7	445.88	38.709	2
13547	C8H9BrO	1-bromo-4-ethoxybenzene	588-96-5	504.15	44.283	1,2	13642	C8H9FO	3-fluorophenethyl alcohol	52059-53-7	445.88	38.709	2
13548	C8H9BrO	2-bromo-alpha-methylbenzenemethanol	5411-56-3	468.48	40.864	2	13643	C8H9FO	4-fluorophenethyl alcohol	7589-27-7	445.88	38.709	2
13549	C8H9BrO	alpha-(bromomethyl)benzenemethanol	2425-28-7	468.48	40.864	2	13647	C8H9F3O3	3-(ethoxymethylene)-1,1,1-trifluoro-2,4-pent*	164342-38-5	510.15	44.860	1,2
13550	C8H9BrO	4-bromobenzeneethanol	4654-39-1	468.48	40.864	2	13649	C8H9I	1-ethyl-2-iodobenzene	18282-40-1	499.15	43.802	1,2
13551	C8H9BrO	4-bromo-2,6-dimethylphenol	2374-05-2	468.48	40.864	2	13650	C8H9I	1-ethyl-4-iodobenzene	25309-64-2	482.15	42.172	1,2
13552	C8H9BrO	4-bromo-3,5-dimethylphenol	7463-51-6	468.48	40.864	2	13651	C8H9I	1-iodo-2,3-dimethylbenzene	31599-60-7	502.15	44.091	1,2
13553	C8H9BrO	2-bromo-4-methylanisole	22002-45-5	468.48	40.864	2	13652	C8H9I	1-iodo-2,4-dimethylbenzene	4214-28-2	504.15	44.283	2
13554	C8H9BrO	4-bromo-3-methylanisole	27060-75-9	468.48	40.864	2	13653	C8H9I	1-iodo-3,5-dimethylbenzene	22445-41-6	503.65	44.235	1,2
13555	C8H9BrO	(S)-(-)-2-bromo-a-methylbenzyl alcohol	114446-55-8	468.48	40.864	2	13654	C8H9I	2-iodo-1,3-dimethylbenzene	608-28-6	502.65	44.139	1,2
13556	C8H9BrO	4-bromo-a-methylbenzyl alcohol	5391-88-8	393.15	33.720	1,2	13655	C8H9I	2-iodo-1,4-dimethylbenzene	1122-42-5	500.15	43.899	2
13557	C8H9BrO	2-bromophenethyl alcohol	1074-16-4	468.48	40.864	2	13656	C8H9I	4-iodo-1,2-dimethylbenzene	31599-61-8	504.65	44.331	1,2
13558	C8H9BrO	3-bromophenethyl alcohol	28229-69-8	468.48	40.864	2	13657	C8H9I	(2-iodoethyl)benzene	17376-04-4	499.84	43.869	2
13559	C8H9BrO	3-bromophenetole	2655-84-7	479.15	41.884	1,2	13658	C8H9IO	1-ethoxy-4-iodobenzene	699-08-1	523.15	46.113	1,2
13560	C8H9BrO	3-methoxybenzyl bromide	874-98-6	425.15	36.741	1,2	13659	C8H9IO	1-ethoxy-2-iodobenzene	614-73-3	523.15	46.113	2
13561	C8H9BrO2	4-bromo-1,2-dimethoxybenzene	2859-78-1	527.65	46.547	1,2	13663	C8H9N	2-allylpyridine	2835-33-8	463.15	40.355	1,2
13562	C8H9BrO2	1-bromo-2,4-dimethoxybenzene	17715-69-4	465.65	40.594	2	13664	C8H9N	5-vinyl-2-methylpyridine	140-76-1	474.48	41.438	2
13563	C8H9BrO2	1-bromo-2,5-dimethoxybenzene	25245-34-5	403.65	34.709	1,2	13665	C8H9N	bicyclo[2.2.1]hept-5-ene-2-carbonitrile	95-11-4	474.48	41.438	2
13564	C8H9BrO2	5-bromo-2-methoxybenzylalcohol	80866-82-6	465.65	40.594	2	13666	C8H9N	2,3-dihydro-1H-indole	496-15-1	502.15	44.091	1,2
13565	C8H9BrO2	2-(4-bromophenoxy)ethanol	34743-88-9	465.65	40.594	2	13667	C8H9N	N-(phenylmethylene)methanamine	622-29-7	458.15	39.878	1,2
13567	C8H9Cl	1-chloro-2,3-dimethylbenzene	608-23-1	461.15	40.164	1,2	13668	C8H9N	2-vinylaniline	3867-18-3	474.48	41.438	2
13568	C8H9Cl	1-chloro-2,4-dimethylbenzene	95-66-9	457.15	39.783	1,2	13669	C8H9N	3-vinylaniline	15411-43-5	474.48	41.438	2
13569	C8H9Cl	2-chloro-1,3-dimethylbenzene	6781-98-2	459.15	39.973	1,2	13670	C8H9N	4-vinylaniline	1520-21-4	474.48	41.438	2
13570	C8H9Cl	2-chloro-1,4-dimethylbenzene	95-72-7	460.15	40.069	1,2	13671	C8H9NO	acetanilide	103-84-4	576.95	58.385	1,2
13571	C8H9Cl	4-chloro-1,2-dimethylbenzene	615-60-1	467.15	40.737	1,2	13672	C8H9NO	1-(3-aminophenyl)ethanone	99-03-6	562.65	49.935	1,2
13572	C8H9Cl	(1-chloroethyl)benzene, (±)	38661-82-4	462.95	40.336	2	13673	C8H9NO	1-(4-aminophenyl)ethanone	99-92-3	567.15	50.372	1,2
13573	C8H9Cl	(2-chloroethyl)benzene	622-24-2	470.65	41.071	1,2	13674	C8H9NO	2-amino-1-phenylethanone	613-89-8	524.15	46.209	1,2
13574	C8H9Cl	1-chloro-2-ethylbenzene	89-96-3	451.55	39.249	1,2	13675	C8H9NO	benzeneacetamide	103-81-1	547.78	48.493	2
13575	C8H9Cl	1-chloro-3-ethylbenzene	620-16-6	456.95	39.764	1,2	13676	C8H9NO	2-methylbenzamide	527-85-5	547.78	48.493	2
13576	C8H9Cl	1-chloro-4-ethylbenzene	622-98-0	457.55	39.821	1,2	13677	C8H9NO	N-methylbenzamide	613-93-4	564.15	50.081	1,2
13577	C8H9Cl	1-(chloromethyl)-2-methylbenzene	552-45-4	471.15	41.119	1,2	13678	C8H9NO	N-(2-methylphenyl)formamide	94-69-9	561.15	49.789	1,2
13578	C8H9Cl	1-(chloromethyl)-3-methylbenzene	620-19-9	468.65	40.880	1,2	13679	C8H9NO	N-(3-methylphenyl)formamide	3085-53-8	563.15	49.984	2
13579	C8H9Cl	1-(chloromethyl)-4-methylbenzene	104-82-5	474.15	41.406	1,2	13680	C8H9NO	N-methyl-N-phenylformamide	93-61-8	516.15	45.438	1,2
13580	C8H9Cl	1-chloro-1-phenylethane	672-65-1	462.95	40.336	2	13681	C8H9NO	1-(6-methyl-3-pyridinyl)ethanone	36357-38-7	547.78	48.493	2
13581	C8H9Cl	1-chloro-3,5-xylene	556-97-8	462.95	40.336	2	13682	C8H9NO	1-phenylethanone oxime	613-91-2	518.15	45.631	1,2
13582	C8H9Cl	ethylchlorobenzene	1331-31-3	462.95	40.336	2	13683	C8H9NO	2'-aminoacetophenone	551-93-9	524.15	46.209	1,2
13589	C8H9ClO	3-chlorobenzeneethanol	5182-44-5	483.83	42.333	2	13684	C8H9NO	N-benzylformamide	6343-54-0	547.78	48.493	2
13590	C8H9ClO	4-chlorobenzeneethanol	1875-88-3	532.15	46.982	1,2	13685	C8H9NO	4-oxo-3-aza-tricyclo[4.2.1.0(2.5)]non-7-ene	---	547.78	48.493	2
13591	C8H9ClO	alpha-(chloromethyl)benzenemethanol	1674-30-2	483.83	42.333	2	13686	C8H9NO	m-toluamide	618-47-3	547.78	48.493	2
13592	C8H9ClO	4-chloro-2,5-dimethylphenol	1124-06-7	483.83	42.333	2	13687	C8H9NO	p-toluamide	619-55-6	547.78	48.493	2
13593	C8H9ClO	4-chloro-2,6-dimethylphenol	1123-63-3	483.83	42.333	2	13688	C8H9NO	4-propionylpyridine	1701-69-5	547.78	48.493	2
13594	C8H9ClO	4-chloro-3,5-dimethylphenol	88-04-0	519.15	45.727	1,2	13691	C8H9NO2	4-aminobenezeneacetic acid	1197-55-3	518.92	45.705	2
13595	C8H9ClO	2-chloro-3,4-dimethylphenol	10283-15-5	461.15	40.164	1,2	13692	C8H9NO2	1,3-benzodioxole-5-methanamine	2620-50-0	518.92	45.705	2
13596	C8H9ClO	(2-chloroethoxy)benzene	622-86-6	491.65	43.082	1,2	13693	C8H9NO2	1,2-dimethyl-3-nitrobenzene	83-41-0	513.15	45.149	1,2
13597	C8H9ClO	1-chloro-2-ethoxybenzene	614-72-2	483.15	42.268	1,2	13694	C8H9NO2	1,2-dimethyl-4-nitrobenzene	99-51-4	524.15	46.209	1,2
13598	C8H9ClO	1-chloro-3-ethoxybenzene	2655-83-6	480.15	41.980	1,2	13695	C8H9NO2	1,3-dimethyl-2-nitrobenzene	81-20-9	499.15	43.802	1,2
13599	C8H9ClO	1-chloro-4-ethoxybenzene	622-61-7	486.15	42.555	1,2	13696	C8H9NO2	1,3-dimethyl-5-nitrobenzene	99-12-7	547.15	48.432	1,2
13600	C8H9ClO	[(chloromethoxy)methyl]benzene	3587-60-8	483.83	42.333	2	13697	C8H9NO2	1,4-dimethyl-2-nitrobenzene	89-58-7	513.65	45.197	1,2
13601	C8H9ClO	1-(chloromethyl)-4-methoxybenzene	824-94-2	535.65	47.320	1,2	13698	C8H9NO2	2,4-dimethyl-1-nitrobenzene	89-87-2	520.15	45.824	1,2
13602	C8H9ClO	4-chloro-3-methylanisole	13334-71-9	483.83	42.333	2	13699	C8H9NO2	1-ethyl-2-nitrobenzene	612-22-6	505.65	44.427	1,2
13603	C8H9ClO	4-chloro-2-methylanisole	3260-85-3	487.15	42.651	1,2	13700	C8H9NO2	1-ethyl-3-nitrobenzene	7369-50-8	515.65	45.390	1,2
13604	C8H9ClO	3-chloro-2-methylanisole	3260-88-6	488.15	42.747	1,2	13701	C8H9NO2	1-ethyl-4-nitrobenzene	100-12-9	518.65	45.679	1,2
13605	C8H9ClO	2-chlorophenethyl alcohol	19819-95-5	357.65	30.394	1,2	13702	C8H9NO2	ethyl 4-pyridinecarboxylate	1570-45-2	492.65	43.178	1,2
13606	C8H9ClO	1-(4-chlorophenyl)ethanol	3391-10-4	483.83	42.333	2	13703	C8H9NO2	ethyl 2-pyridinecarboxylate	2524-52-9	516.15	45.438	1,2
13607	C8H9ClO	2-methoxybenzyl chloride	7035-02-1	483.83	42.333	2	13704	C8H9NO2	ethyl 3-pyridinecarboxylate	614-18-6	497.15	43.610	1,2
13608	C8H9ClO	3-methoxybenzyl chloride	824-98-6	483.83	42.333	2	13705	C8H9NO2	N-(4-hydroxyphenyl)acetamide	103-90-2	518.92	45.705	2
13610	C8H9ClO2	1-chloro-2,5-dimethoxybenzene	2100-42-7	520.15	45.824	1,2	13706	C8H9NO2	4-methoxybenzamide	3424-93-9	568.15	50.469	1,2
13611	C8H9ClO2	5-chloro-1,3-dimethoxybenzene	7051-16-3	543.15	48.045	2	13707	C8H9NO2	methyl 2-aminobenzoate	134-20-3	529.15	46.692	1,2
13612	C8H9ClO2	2-(2-chlorophenoxy)ethanol	15480-00-9	543.15	48.045	2	13708	C8H9NO2	methyl 3-aminobenzoate	4518-10-9	518.92	45.705	2
13613	C8H9ClO2	(1S)-1-(2-chlorophenyl)ethane-1,2-diol	133082-13-0	543.15	48.045	2	13709	C8H9NO2	2-(methylamino)benzoic acid	119-68-6	518.92	45.705	2
13614	C8H9ClO2	(S)-(+)-1-(2-chlorophenyl)-1,2-ethanediol	133082-13-0	566.15	50.275	1,2	13710	C8H9NO2	3-(methylamino)benzoic acid	51524-84-6	518.92	45.705	2
13615	C8H9ClO2	2-(p-chlorophenoxy)ethanol	1892-43-9	543.15	48.045	2	13711	C8H9NO2	4-(methylamino)benzoic acid	10541-83-0	518.92	45.705	2
13620	C8H9Cl2N	2,6-dichlorophenethylamine	14573-23-0	507.20	44.576	2	13712	C8H9NO2	1-methyl-4-(nitromethyl)benzene	29559-27-1	518.92	45.705	2
13621	C8H9Cl2N	3,4-dichlorophenethylamine	21581-45-3	507.20	44.576	2	13713	C8H9NO2	(2-nitroethyl)benzene	6125-24-2	523.15	46.113	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
13714	C8H9NO2	N-phenylglycine	103-01-5	518.92	45.705	2	13822	C8H10ClN	3-chloro-N-methylbenzenemethanamine	39191-07-6	501.03	43.983	2
13715	C8H9NO2	3-acetamidophenol	621-42-1	518.92	45.705	2	13823	C8H10ClN	2-chloro-4,6-dimethylaniline	63133-82-4	501.03	43.983	2
13716	C8H9NO2	3-amino-4-methylbenzoic acid	2458-12-0	518.92	45.705	2	13824	C8H10ClN	4-chloro-a-methylbenzylamine	6299-02-1	501.03	43.983	2
13717	C8H9NO2	4-amino-3-methylbenzoic acid	2486-70-6	518.92	45.705	2	13825	C8H10ClN	2-(3-chlorophenyl)ethylamine	13078-79-0	501.03	43.983	2
13718	C8H9NO2	2-amino-5-methylbenzoic acid	2941-78-8	518.92	45.705	2	13826	C8H10ClN	2-(2-chlorophenyl)ethylamine	13078-80-3	501.03	43.983	2
13719	C8H9NO2	2-amino-3-methylbenzoic acid	4389-45-1	518.92	45.705	2	13827	C8H10ClN	2-(4-chlorophenyl)ethylamine	156-41-2	516.65	45.486	1,2
13720	C8H9NO2	2-amino-6-methylbenzoic acid	4389-50-8	518.92	45.705	2	13834	C8H10ClOPS	ethyl P-phenylphosphonochloridothioate	5075-13-8	410.65	35.370	1,2
13721	C8H9NO2	3-amino-2-methylbenzoic acid	52130-17-3	518.92	45.705	2	13835	C8H10ClO3PS	fujithion	3309-87-3	374.15	31.937	1,2
13722	C8H9NO2	4-(aminomethyl)benzoic acid	56-91-7	518.92	45.705	2	13838	C8H10Cl2NO3	ethyl phosphoramidic acid 2,4-dichlorophenyl*	36031-66-0	440.15	38.165	1,2
13723	C8H9NO2	1,4-benzodioxan-6-amine	22013-33-8	518.92	45.705	2	13841	C8H10Cl2O4	di-2-chloroethyl maleate	63917-06-6	389.15	33.344	1,2
13724	C8H9NO2	benzyl carbamate	621-84-1	518.92	45.705	2	13842	C8H10Cl2Si	dichloromethyl(4-methylphenyl)silane	18236-57-2	500.65	43.947	2
13725	C8H9NO2	N-(hydroxymethyl)benzamide	6282-02-6	518.92	45.705	2	13843	C8H10Cl2Si	ethylphenyldichlorosilane	1125-27-5	500.65	43.947	1,2
13726	C8H9NO2	4-hydroxyphenylacetamide	17194-82-0	518.92	45.705	2	13846	C8H10FN	4-fluoro-a-methylbenzylamine	403-40-7	418.15	36.079	1,2
13727	C8H9NO2	methyl 4-aminobenzoate	619-45-4	518.92	45.705	2	13847	C8H10FN	4-fluorophenethylamine	1583-88-6	418.15	36.079	2
13728	C8H9NO2	methyl 6-methylnicotinate	5470-70-2	518.92	45.705	2	13848	C8H10FN	3-fluorophenethylamine	404-70-6	418.15	36.079	2
13729	C8H9NO2	methyl 2-pyridylacetate	1658-42-0	518.92	45.705	2	13849	C8H10FN	2-fluorophenethylamine	52721-69-4	418.15	36.079	2
13730	C8H9NO2	phenoxyacetamide	621-88-5	518.92	45.705	2	13852	C8H10HgN4O4	bis(ethoxycarbonyldiazomethyl)mercury	20539-85-9	381.15	32.593	1,2
13732	C8H9NO2	L(+)-a-phenylglycine	2935-35-5	518.92	45.705	2	13857	C8H10N2	acetaldehyde phenylhydrazone	935-07-9	502.15	44.091	2
13734	C8H9NO2	cis-1,2,3,6-tetrahydrophthalimide	27813-21-4	518.92	45.705	2	13858	C8H10N2	ethylphenyldiazene	935-08-0	450.15	39.116	1,2
13735	C8H9NO2	carbamic acid, phenyl-, methyl ester	2603-10-3	518.92	45.705	2	13859	C8H10N2	1,2,3,4-tetrahydroquinoxaline	3476-89-9	562.15	49.886	1,2
13736	C8H9NO2	N-(2-hydroxyphenyl)acetamide	614-80-2	518.92	45.705	2	13860	C8H10N2	6,7-dihydro-5-methyl-5(H)-cyclopentapyrazine	23747-48-0	502.15	44.091	2
13737	C8H9NO2	2-amino-3-hydroxyacetophenone	4502-10-7	518.92	45.705	2	13861	C8H10N2	5,6,7,8-tetrahydroquinoxaline	34413-35-9	494.15	43.322	1,2
13738	C8H9NO2	o-anisamide	2439-77-2	518.92	45.705	2	13862	C8H10N2O	N-(4-aminophenyl)acetamide	122-80-5	540.15	47.755	1,2
13739	C8H9NO2	glycolanilide	4746-61-6	518.92	45.705	2	13863	C8H10N2O	benzylurea	538-32-9	473.15	41.310	2
13740	C8H9NO2	nitroxylene	25168-04-1	518.92	45.705	2	13864	C8H10N2O	N-ethyl-N-nitrosoaniline	612-64-6	506.65	44.523	2
13741	C8H9NO2	phenylmonomethylcarbamate	1943-79-9	518.92	45.705	2	13865	C8H10N2O	p-nitroso-N,N-dimethylaniline	138-89-6	506.65	44.523	2
13742	C8H9NO2	tetrahydrophthalic acid imide	85-40-5	518.92	45.705	2	13866	C8H10N2O	1-acetyl-2-phenylhydrazine	114-83-0	506.65	44.523	2
13744	C8H9NO3	3,6-dimethyl-2-nitrophenol	71608-10-1	513.79	45.211	2	13867	C8H10N2O	3'-aminoacetanilide	102-28-3	506.65	44.523	2
13745	C8H9NO3	1-ethoxy-2-nitrobenzene	610-67-3	540.15	47.755	1,2	13868	C8H10N2O	3-amino-4-methylbenzamide	19406-86-1	506.65	44.523	2
13746	C8H9NO3	1-ethoxy-3-nitrobenzene	621-52-3	537.15	47.465	1,2	13869	C8H10N2O	phenylacetic acid hydrazide	937-39-3	506.65	44.523	2
13747	C8H9NO3	1-ethoxy-4-nitrobenzene	100-29-8	556.15	49.304	1,2	13870	C8H10N2O	D(-)-phenylglycinamide	6485-67-2	506.65	44.523	2
13749	C8H9NO3	4-methoxy-1-methyl-2-nitrobenzene	17484-36-5	539.65	47.707	1,2	13871	C8H10N2O	p-toluic hydrazide	3619-22-5	506.65	44.523	2
13750	C8H9NO3	methyl 3-amino-4-hydroxybenzoate	536-25-4	513.79	45.211	2	13872	C8H10N2O	o-tolylurea	614-77-7	506.65	44.523	2
13751	C8H9NO3	2-nitrobenzeneethanol	15121-84-3	540.15	47.755	1,2	13873	C8H10N2O	p-tolylurea	622-51-5	506.65	44.523	2
13752	C8H9NO3	3-amino-4-methoxybenzoic acid	2840-26-8	513.79	45.211	2	13874	C8H10N2O	1-tolylurea	63-99-0	506.65	44.523	2
13753	C8H9NO3	N-(benzyloxycarbonyl)hydroxylamine	3426-71-9	513.79	45.211	2	13875	C8H10N2O	N-methyl-N-benzylnitrosamine	937-40-6	506.65	44.523	2
13754	C8H9NO3	2,6-dimethyl-4-nitrophenol	2423-71-4	513.79	45.211	2	13876	C8H10N2O2	N,N-dimethyl-2-nitroaniline	610-17-3	524.40	46.233	2
13755	C8H9NO3	D(-)-4-hydroxyphenylglycine	22818-40-2	513.79	45.211	2	13877	C8H10N2O2	N,N-dimethyl-3-nitroaniline	619-31-8	555.65	49.256	1,2
13756	C8H9NO3	4-methyl-2-nitroanisole	119-10-8	513.79	45.211	2	13878	C8H10N2O2	carbobenzoxyhydrazide	5331-43-1	524.40	46.233	2
13757	C8H9NO3	3-methyl-2-nitroanisole	5345-42-6	513.79	45.211	2	13879	C8H10N2O2	trans-1,4-cyclohexane diisocyanate	7517-76-2	524.40	46.233	2
13758	C8H9NO3	3-methyl-4-nitroanisole	5367-32-8	513.79	45.211	2	13880	C8H10N2O2	2,3-dimethyl-6-nitroaniline	59146-96-2	524.40	46.233	2
13759	C8H9NO3	3-methyl-4-nitrobenzyl alcohol	80866-75-7	513.79	45.211	2	13881	C8H10N2O2	4,5-dimethyl-2-nitroaniline	6972-71-0	524.40	46.233	2
13760	C8H9NO3	3-methyl-2-nitrobenzyl alcohol	80866-76-8	513.79	45.211	2	13882	C8H10N2O2	N-ethyl-2-nitroaniline	10112-15-9	524.40	46.233	2
13761	C8H9NO3	4-nitrophenethyl alcohol	100-27-6	513.79	45.211	2	13883	C8H10N2O2	N-(2-hydroxyethyl)isonicotinamide	6265-74-3	493.15	43.226	1,2
13762	C8H9NO3	3-nitrophenethyl alcohol	52022-77-2	513.79	45.211	2	13884	C8H10N2O2	N,N-dimethyl-p-nitroaniline	100-23-2	524.40	46.233	2
13763	C8H9NO3	3-hydroxyanthranilic acid methyl ester	17672-21-8	513.79	45.211	2	13885	C8H10N2O2	o-anisic acid, hydrazide	7466-54-8	524.40	46.233	2
13764	C8H9NO3	2-hydroxyphenyl methylcarbamate	10309-97-4	374.15	31.937	1,2	13886	C8H10N2O2	p-anisic acid, hydrazide	3290-99-1	524.40	46.233	2
13770	C8H9NS2	methyl dithiocarbanilate	701-73-5	353.65	30.021	1,2	13905	C8H10N4O5	furadroxyl	405-22-1	416.75	35.946	1,2
13772	C8H9O5SSb	2-(carboxymethylmercapto)phenylstibonic acid	63938-93-2	294.15	24.520	1,2	13906	C8H10N4S	p-aminobenzaldehydethiosemicarbazone	6957-91-1	378.15	32.311	1,2
13789	C8H10	ethylbenzene	100-41-4	409.35	35.915	1,2	13907	C8H10N4S	6-(propylthio)purine	6288-93-3	378.15	32.311	2
13790	C8H10	o-xylene	95-47-6	417.58	37.005	1,2	13912	C8H10O	phenetole	103-73-1	443.15	41.021	1,2
13791	C8H10	m-xylene	108-38-3	412.27	36.334	1,2	13913	C8H10O	2-phenylethanol	60-12-8	492.05	50.950	1,2
13792	C8H10	p-xylene	106-42-3	411.51	35.821	1,2	13914	C8H10O	2-methylbenzenemethanol	89-95-2	497.15	43.610	1,2
13793	C8H10	xylenes	1330-20-7	413.15	36.570	1,2	13915	C8H10O	3-methylbenzenemethanol	587-03-1	488.65	42.795	1,2
13794	C8H10	1,3,5-cyclooctatriene	1871-52-9	418.65	36.126	1,2	13916	C8H10O	4-methylbenzenemethanol	589-18-4	490.15	42.939	1,2
13795	C8H10	1,3,6-cyclooctatriene	3725-30-2	415.89	35.865	2	13917	C8H10O	1-phenylethanol	98-85-1	478.15	41.789	1,2
13796	C8H10	2,5-dimethyl-1,5-hexadien-3-yne	3725-05-1	396.15	34.003	1,2	13918	C8H10O	o-ethylphenol	90-00-6	477.67	44.679	1,2
13797	C8H10	5-(1-methylethylidene)-1,3-cyclopentadiene	2175-91-9	428.15	37.026	1,2	13919	C8H10O	m-ethylphenol	620-17-7	477.66	43.048	1,2
13798	C8H10	2,6-octadiyne	764-73-8	415.89	35.865	2	13920	C8H10O	p-ethylphenol	123-07-9	491.14	49.878	1,2
13799	C8H10	3,5-octadiyne	16387-70-5	436.65	37.832	1,2	13921	C8H10O	2,3-xylenol	526-75-0	490.07	49.391	1,2
13800	C8H10	1,7-octadiyne	871-84-1	408.65	35.181	1,2	13922	C8H10O	2,4-xylenol	105-67-9	484.13	48.770	1,2
13801	C8H10	1,3,5,7-octatetraene	1482-91-3	415.89	35.865	2	13923	C8H10O	2,5-xylenol	95-87-4	484.33	49.232	1,2
13802	C8H10	1-ethynylcyclohexene	931-49-7	422.65	36.505	1,2	13924	C8H10O	2,6-xylenol	576-26-1	474.22	45.710	1,2
13803	C8H10AsNO5	acetphenarsine	97-44-9	345.32	29.245	1,2	13925	C8H10O	3,4-xylenol	95-65-8	500.15	52.446	1,2
13804	C8H10BrN	4-bromobenzeneethanamine	73918-56-6	534.65	47.223	2	13926	C8H10O	3,5-xylenol	108-68-9	494.89	49.968	1,2
13805	C8H10BrN	2-bromo-N,N-dimethylaniline	698-00-0	534.65	47.223	2	13927	C8H10O	benzyl methyl ether	538-86-3	443.15	38.450	1,2
13806	C8H10BrN	3-bromo-N,N-dimethylaniline	16518-62-0	532.15	46.982	1,2	13928	C8H10O	bicyclo[2.2.1]hept-5-ene-2-carboxaldehyde	5453-80-5	473.33	41.327	2
13807	C8H10BrN	4-bromo-N,N-dimethylaniline	586-77-6	537.15	47.465	1,2	13929	C8H10O	2-methylanisole	578-58-5	444.15	38.545	1,2
13808	C8H10BrN	4-bromo-2,6-dimethylaniline	24596-19-8	534.65	47.223	2	13930	C8H10O	3-methylanisole	100-84-5	448.65	38.973	1,2
13809	C8H10BrN	2-bromo-4,6-dimethylaniline	41825-73-4	534.65	47.223	2	13931	C8H10O	4-methylanisole	104-93-8	448.65	38.973	1,2
13810	C8H10BrN	4-bromo-2-ethylaniline	45762-41-2	534.65	47.223	2	13932	C8H10O	3-methylenebicyclo[2.2.1]heptan-2-one	5597-27-3	473.33	41.327	2
13811	C8H10BrN	4-bromo-a-phenethylamine	24358-62-1	534.65	47.223	2	13933	C8H10O	2,4,6-octatrienal	17609-31-3	473.33	41.327	2
13812	C8H10BrN	(S)-(-)-4-bromo-a-phenethylamine	27298-97-1	534.65	47.223	2	13934	C8H10O	dimethyl phenol	1300-71-6	411.65	29.431	1,2
13813	C8H10BrN	3-bromophenethylamine	58971-11-2	534.65	47.223	2	13935	C8H10O	(±)-a-methyl-benzenemethanol	13323-81-4	477.15	41.693	1,2
13814	C8H10BrN	2-bromophenethylamine	65185-58-2	534.65	47.223	2	13936	C8H10O	(S)-(-)-sec-phenethyl alcohol	1445-91-6	473.33	41.327	2
13815	C8H10BrN	(R)-(+)-1-(4-bromophenyl)ethylamine	45791-36-4	534.65	47.223	2	13937	C8H10O	(R)-(+)-sec-phenethyl alcohol	1517-69-7	476.25	41.607	1,2
13818	C8H10Br2O4	1,4-bis(bromoacetoxy)-2-butene	20679-58-7	341.15	28.858	1,2	13938	C8H10OS	4-ethoxybenzenethiol	699-09-2	511.15	44.956	1,2
13819	C8H10ClN	2-chloro-N,N-dimethylaniline	698-01-1	478.15	41.789	1,2	13939	C8H10OS	2-methyl-1-(2-thienyl)-1-propanone	36448-60-9	502.15	44.091	1,2
13820	C8H10ClN	3-chloro-N,N-dimethylaniline	6848-13-1	505.15	44.379	1,2	13940	C8H10OS	3-acetyl-2,5-dimethylthiophene	2530-10-1	453.82	39.465	2
13821	C8H10ClN	4-chloro-N,N-dimethylaniline	698-69-1	504.15	44.283	1,2	13941	C8H10OS	methoxymethyl phenyl sulfide	13865-50-4	453.82	39.465	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
13942	C8H10OS	1-methoxy-4-(methylthio)benzene	1879-16-9	453.82	39.465	2	14027	C8H10O4	3,4-dihydro-2,2-dimethyl-4-oxo-2H-pyran-6-ca*	80866-93-9	486.15	42.555	2
13943	C8H10OS	4-(methylthio)benzyl alcohol	3446-90-0	453.82	39.465	2	14028	C8H10O4	ethylene glycol diacrylate	2274-11-5	486.15	42.555	2
13944	C8H10OS	(R)-(+)-methyl p-tolyl sulfoxide	1519-39-7	348.15	29.509	1,2	14029	C8H10O4	furaneol acetate	4166-20-5	516.15	45.438	1,2
13945	C8H10OS	methyl p-tolyl sulfoxide	934-72-5	453.82	39.465	2	14030	C8H10O4	isodehydroacetic acid	480-65-9	486.15	42.555	2
13946	C8H10OS	2-(phenylthio)ethanol	699-12-7	453.82	39.465	2	14031	C8H10O4	dicrotonyl peroxide	---	486.15	42.555	2
13947	C8H10OS	2-(ethylthio)phenol	29549-60-8	453.82	39.465	2	14032	C8H10O4	2,6-dimethoxyquinol	15233-65-5	452.15	39.306	1,2
13948	C8H10OS	3-methyl-4-methylthiophenol	3120-74-9	453.82	39.465	2	14035	C8H10O6	diallyl peroxydicarbonate	34037-79-1	390.15	33.438	1,2
13949	C8H10O2	1,3-benzenedimethanol	626-18-6	508.40	44.692	2	14036	C8H10O8	bis(3-carboxypropionyl)peroxide	123-23-9	326.15	27.467	1,2
13950	C8H10O2	1,4-benzenedimethanol	589-29-7	508.40	44.692	2	14037	C8H10O8	1,2,3,4-butanetetracarboxylic acid	1703-58-8	380.15	32.499	1,2
13951	C8H10O2	1,2-dimethoxybenzene	91-16-7	479.15	41.884	1,2	14039	C8H10S	o-ethylthiophenol	4500-58-7	483.15	43.342	1,2
13952	C8H10O2	1,3-dimethoxybenzene	151-10-0	490.65	42.986	1,2	14040	C8H10S	m-ethylthiophenol	62154-77-2	484.15	43.436	1,2
13953	C8H10O2	1,4-dimethoxybenzene	150-78-7	485.75	42.517	1,2	14041	C8H10S	p-ethylthiophenol	4946-13-8	484.15	43.436	1,2
13954	C8H10O2	2,5-dimethyl-1,3-benzenediol	488-87-9	551.65	48.868	1,2	14042	C8H10S	2,3-dimethylthiophenol	18800-51-6	489.45	43.861	2
13955	C8H10O2	4,5-dimethyl-1,2-benzenediol	2785-74-2	508.40	44.692	2	14043	C8H10S	2,4-dimethylthiophenol	13616-82-5	481.15	43.083	1,2
13956	C8H10O2	4,5-dimethyl-1,3-benzenediol	527-55-9	557.15	49.401	1,2	14044	C8H10S	2,5-dimethylthiophenol	4001-61-0	478.15	42.802	1,2
13957	C8H10O2	4,6-dimethyl-1,3-benzenediol	615-89-4	549.15	48.626	1,2	14045	C8H10S	2,6-dimethylthiophenol	118-72-9	489.45	43.861	2
13958	C8H10O2	4-ethyl-1,3-benzenediol	2896-60-8	508.40	44.692	2	14046	C8H10S	3,4-dimethylthiophenol	18800-53-8	489.45	43.861	2
13959	C8H10O2	2-ethoxyphenol	94-71-3	490.15	42.939	1,2	14047	C8H10S	3,5-dimethylthiophenol	38360-81-5	489.45	43.861	2
13960	C8H10O2	3-ethoxyphenol	621-34-1	519.15	45.727	1,2	14048	C8H10S	(1-thiapropyl)-benzene	622-38-8	478.15	42.718	1,2
13961	C8H10O2	4-ethoxyphenol	622-62-8	519.65	45.775	1,2	14049	C8H10S	2-methyl-(1-thiaethyl)-benzene	---	482.88	43.090	2
13962	C8H10O2	4-(2-furanyl)-2-butanone	699-17-2	476.15	41.597	1,2	14050	C8H10S	3-methyl-(1-thiaethyl)-benzene	4886-77-5	482.88	43.090	2
13963	C8H10O2	hexahydro-1,5-pentalenedione	62353-69-9	508.40	44.692	2	14051	C8H10S	4-methyl-(1-thiaethyl)-benzene	623-13-2	490.15	43.769	1,2
13964	C8H10O2	3-hydroxybenzeneethanol	13398-94-2	508.40	44.692	2	14052	C8H10S	[(methylthio)methyl]benzene	766-92-7	483.15	43.803	1,2
13965	C8H10O2	2-methoxybenzenemethanol	612-16-8	522.15	46.016	1,2	14053	C8H10S	alpha-methylbenzenemethanethiol, (S)	33877-11-1	472.15	40.479	1,2
13966	C8H10O2	3-methoxybenzenemethanol	6971-51-3	525.15	46.306	1,2	14054	C8H10S	2-phenylethanethiol	4410-99-5	490.65	46.297	1,2
13967	C8H10O2	4-methoxybenzenemethanol	105-13-5	532.25	46.991	1,2	14073	C8H11ClO4	diethyl 2-chlorofumarate	10302-94-0	523.15	46.113	2
13968	C8H10O2	2-methoxy-4-methylphenol	93-51-6	494.15	43.322	1,2	14074	C8H11ClO4	diethyl 2-chloromaleate	626-10-8	508.15	44.668	2
13969	C8H10O2	2-phenoxyethanol	122-99-6	518.15	45.631	1,2	14076	C8H11ClSi	chlorodimethylphenylsilane	768-33-2	468.15	40.833	1,2
13970	C8H10O2	1-phenyl-1,2-ethanediol	93-56-1	546.15	48.336	1,2	14079	C8H11Cl3O6	a-chloralose	15879-93-3	456.15	39.687	1,2
13971	C8H10O2	3-acetyl-2,5-dimethylfuran	10599-70-9	467.15	40.737	1,2	14081	C8H11F3O2	1,1,1-trifluoro-5,5-dimethyl-2,4-hexanedione	22767-90-4	412.65	35.559	1,2
13972	C8H10O2	1,2-benzenedimethanol	612-14-6	508.40	44.692	2	14082	C8H11N	N,N-dimethylaniline	121-69-7	466.69	42.832	1,2
13973	C8H10O2	2,3-dimethylhydroquinone	608-43-5	508.40	44.692	2	14083	C8H11N	o-ethylaniline	578-54-1	482.65	46.788	1,2
13974	C8H10O2	4-hydroxyphenethyl alcohol	501-94-0	508.40	44.692	2	14084	C8H11N	N,2-dimethylaniline	611-21-2	480.65	47.398	1,2
13975	C8H10O2	2-hydroxyphenethyl alcohol	7768-28-7	441.15	38.260	1,2	14085	C8H11N	N,3-dimethylaniline	696-44-6	479.65	47.016	1,2
13976	C8H10O2	4-hydroxyphenyl methyl carbitol	2380-91-8	508.40	44.692	2	14086	C8H11N	N,4-dimethylaniline	623-08-5	483.15	48.372	1,2
13977	C8H10O2	2-methyl-5-propionyl-furan	10599-69-6	508.40	44.692	2	14087	C8H11N	2,3-dimethylaniline	87-59-2	494.65	43.370	1,2
13978	C8H10O2	5-norbornene-2-carboxylic acid, endo and exo	120-74-1	419.15	36.173	1,2	14088	C8H11N	2,4-dimethylaniline	95-68-1	487.15	42.651	1,2
13979	C8H10O2	(R)-(-)-1-phenyl-1,2-ethanediol	16355-00-3	546.15	48.336	1,2	14089	C8H11N	2,5-dimethylaniline	95-78-3	487.15	42.651	1,2
13980	C8H10O2	(S)-(+)-1-phenyl-1,2-ethanediol	25779-13-9	546.15	48.336	1,2	14090	C8H11N	2,6-dimethylaniline	87-62-7	488.15	42.747	1,2
13981	C8H10O2	p-xylohydroquinone	615-90-7	508.40	44.692	2	14091	C8H11N	3,4-dimethylaniline	95-64-7	501.15	43.995	1,2
13982	C8H10O2	2,5-dimethyl-1,2,5,6-diepoxyhex-3-yne	42149-31-5	508.40	44.692	2	14092	C8H11N	3,5-dimethylaniline	108-69-0	493.65	43.274	1,2
13983	C8H10O2	2,6-dimethylhydroquinone	654-42-2	508.40	44.692	2	14093	C8H11N	m-ethylaniline	587-02-0	487.15	42.651	1,2
13984	C8H10O2	1,4-epidioxy-1,4-dihydro-6,6-dimethylfulvene	---	508.40	44.692	2	14094	C8H11N	p-ethylaniline	589-16-2	490.65	42.986	1,2
13985	C8H10O2	2-phenylethyl hydroperoxide	27254-37-1	508.40	44.692	2	14095	C8H11N	N-ethylaniline	103-69-5	476.15	45.717	1,2
13985.1	C8H10O2	ethylbenzene hydroperoxide	3071-32-7	536.00	60.388	1,2	14096	C8H11N	2,4,6-trimethylpyridine	108-75-8	444.00	39.511	1,2
13992	C8H10O3	2-butenoic anhydride	623-68-7	520.15	45.824	1,2	14097	C8H11N	2-ethyl-4-methylpyridine	2150-18-7	447.15	41.299	1,2
13993	C8H10O3	2,6-dimethoxyphenol	91-10-1	534.15	47.175	1,2	14098	C8H11N	2-ethyl-6-methylpyridine	1122-69-6	433.65	36.938	1,2
13994	C8H10O3	3,5-dimethoxyphenol	500-99-2	497.14	43.609	2	14099	C8H11N	3-ethyl-4-methylpyridine	529-21-5	471.15	41.119	1,2
13995	C8H10O3	ethyl 2-furanacetate	4915-21-3	497.14	43.609	2	14100	C8H11N	4-ethyl-2-methylpyridine	536-88-9	452.15	43.107	1,2
13996	C8H10O3	ethyl 2-methyl-3-furancarboxylate	28921-35-9	497.14	43.609	2	14101	C8H11N	2-isopropylpyridine	644-98-4	432.95	36.731	1,2
13997	C8H10O3	furfuryl propanoate	623-19-8	468.15	40.833	1,2	14102	C8H11N	3-isopropylpyridine	6304-18-3	450.65	42.553	1,2
13998	C8H10O3	hexahydro-1,3-isobenzofurandione	85-42-7	497.14	43.609	2	14103	C8H11N	4-isopropylpyridine	696-30-0	451.15	42.736	1,2
13999	C8H10O3	2-hydroxy-3-methoxybenzenemethanol	4383-05-5	497.14	43.609	2	14104	C8H11N	4-propylpyridine	1122-81-2	458.15	39.878	1,2
14000	C8H10O3	4-hydroxy-3-methoxybenzenemethanol	498-00-0	497.14	43.609	2	14105	C8H11N	2-propylpyridine	622-39-9	440.15	38.950	1,2
14001	C8H10O3	isopropyl 2-furancarboxylate	6270-34-4	471.65	41.167	1,2	14106	C8H11N	2,3,4-trimethylpyridine	2233-29-6	465.65	40.594	1,2
14002	C8H10O3	methyl 2-furanpropanoate	37493-31-5	497.14	43.609	2	14107	C8H11N	2,3,5-trimethylpyridine	695-98-7	457.15	39.783	1,2
14003	C8H10O3	2-methyl-2-propenoic anhydride	760-93-0	497.14	43.609	2	14108	C8H11N	2,3,6-trimethylpyridine	1462-84-6	444.75	40.471	1,2
14004	C8H10O3	propyl 2-furancarboxylate	615-10-1	484.05	42.354	1,2	14109	C8H11N	2,4,5-trimethylpyridine	1122-39-0	461.15	40.164	1,2
14005	C8H10O3	2-acetyl-1,3-cyclohexanedione	4056-73-9	497.14	43.609	2	14110	C8H11N	benzeneethanamine	64-04-0	470.65	41.071	1,2
14006	C8H10O3	crotonic anhydride	78957-07-0	521.15	45.920	1,2	14111	C8H11N	2-methylbenzenemethanamine	89-93-0	479.15	41.884	1,2
14007	C8H10O3	3,4-dimethoxyphenol	2033-89-8	497.14	43.609	2	14112	C8H11N	3-methylbenzenemethanamine	100-81-2	476.65	41.645	1,2
14008	C8H10O3	2,3-dimethoxyphenol	5150-42-5	506.65	44.523	1,2	14113	C8H11N	4-methylbenzenemethanamine	104-84-7	468.15	40.833	1,2
14009	C8H10O3	furfuryl glycidyl ether	5380-87-0	497.14	43.609	2	14114	C8H11N	N-methylbenzenemethanamine	103-67-3	453.65	39.449	1,2
14010	C8H10O3	(R)-(-)-1-(2-furyl)ethyl acetate	113471-32-2	497.14	43.609	2	14115	C8H11N	alpha-methylbenzylamine, (±)	618-36-0	460.15	40.069	1,2
14011	C8H10O3	DL-1-(2-furyl)ethyl acetate	22426-24-0	497.14	43.609	2	14116	C8H11N	cyclohexylideneacetonitrile	4435-18-1	467.62	40.781	2
14012	C8H10O3	cis-hexahydrophthalic anhydride	13149-00-3	497.14	43.609	2	14117	C8H11N	5-ethyl-2-picoline	104-90-5	451.45	39.240	1,2
14013	C8H10O3	2-(2-hydroxyethoxy)phenol	4792-78-3	497.14	43.609	2	14118	C8H11N	1-cyclohexenylacetonitrile	6975-71-9	467.62	40.781	2
14014	C8H10O3	methyl 2,5-dimethyl-3-furancarboxylate	6148-34-1	471.15	41.119	1,2	14119	C8H11N	(S)-(-)-a-methylbenzylamine	2627-86-3	461.15	40.164	1,2
14015	C8H10O3S	ethyl benzenesulfonate	515-46-8	565.15	50.178	2	14120	C8H11N	(R)-(+)-a-methylbenzylamine	3886-69-9	456.70	39.740	1,2
14016	C8H10O3S	methyl 4-toluenesulfonate	80-48-8	565.15	50.178	1,2	14121	C8H11N	2-norbornanecarbonitrile, endo and exo	2234-26-6	467.62	40.781	2
14017	C8H10O3S	2,5-dimethylbenzenesulfonic acid	609-54-1	565.15	50.178	2	14122	C8H11N	1-phenylethylamine	98-84-0	458.15	39.878	1,2
14018	C8H10O3S	2-(phenylsulfonyl)ethanol	20611-21-6	565.15	50.178	2	14123	C8H11N	xylidine, isomers	1300-73-8	492.65	43.178	1,2
14019	C8H10O3S	xylenesulfonic acid	25321-41-9	565.15	50.178	2	14124	C8H11NO	p-phenetidine	156-43-4	528.00	52.995	1,2
14020	C8H10O3S	2,4-xylenesulfonic acid	88-61-9	565.15	50.178	2	14125	C8H11NO	2-aminobenzeneethanol	5339-85-5	520.21	45.829	2
14021	C8H10O4	2-butyne-1,4-diol diacetate	1573-17-7	486.15	42.555	2	14126	C8H11NO	beta-aminobenzeneethanol	7568-92-5	534.15	47.175	1,2
14022	C8H10O4	diallyl oxalate	615-99-6	490.15	42.939	1,2	14127	C8H11NO	4-(2-aminoethyl)phenol	51-67-2	520.21	45.829	2
14023	C8H10O4	diethyl 2-butynedioate	762-21-0	486.15	42.555	2	14128	C8H11NO	alpha-(aminomethyl)benzenemethanol	7568-93-6	520.21	45.829	2
14024	C8H10O4	3-methoxy-5-methyl-4-oxo-2,5-hexadienoic acid	90-65-3	486.15	42.555	2	14129	C8H11NO	2-(dimethylamino)phenol	3743-22-4	472.65	41.263	1,2
14025	C8H10O4	(2R,3S)-1-carboxy-2,3-dihydroxy-4-methylcycl*	193338-20-6	486.15	42.555	2	14130	C8H11NO	3-(dimethylamino)phenol	99-07-0	539.65	47.707	1,2
14026	C8H10O4	3,4-diethoxy-3-cyclobutene-1,2-dione	5231-87-8	486.15	42.555	2	14131	C8H11NO	4-(dimethylamino)phenol	619-60-3	520.21	45.829	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
14132	C8H11NO	2-ethoxyaniline	94-70-2	505.65	44.427	1,2	14277	C8H12N2	N,N'-dimethyl-1,2-benzenediamine	3213-79-4	520.15	45.824	1,2
14133	C8H11NO	3-ethoxyaniline	621-33-0	521.15	45.920	1,2	14278	C8H12N2	N,N-dimethyl-1,2-benzenediamine	2836-03-5	491.15	43.034	1,2
14134	C8H11NO	3-(ethylamino)phenol	621-31-8	520.21	45.829	2	14279	C8H12N2	N,N-dimethyl-1,3-benzenediamine	2836-04-6	543.15	48.045	1,2
14135	C8H11NO	2-methoxybenzenemethanamine	6850-57-3	501.15	43.995	1,2	14280	C8H12N2	N,N-dimethyl-1,4-benzenediamine	99-98-9	536.15	47.368	1,2
14136	C8H11NO	4-methoxybenzenemethanamine	2393-23-9	509.65	44.812	1,2	14281	C8H12N2	3-ethyl-2,5-dimethylpyrazine	13360-65-1	453.65	39.449	1,2
14137	C8H11NO	2-(2-methoxyethyl)pyridine	114-91-0	476.15	41.597	1,2	14282	C8H12N2	1-ethyl-1-phenylhydrazine	644-21-3	510.15	44.860	1,2
14138	C8H11NO	2-methoxy-6-methylaniline	50868-73-0	520.21	45.829	2	14283	C8H12N2	1-ethyl-2-phenylhydrazine	622-82-2	514.15	45.245	1,2
14139	C8H11NO	5-methoxy-2-methylaniline	50868-72-9	526.15	46.402	1,2	14284	C8H12N2	1-methyl-2-(3-methylphenyl)hydrazine	116836-06-7	465.90	40.618	2
14140	C8H11NO	2-methoxy-5-methylaniline	120-71-8	508.15	44.668	1,2	14285	C8H12N2	octanedinitrile	629-40-3	465.90	40.618	2
14141	C8H11NO	3-methoxy-4-methylaniline	16452-01-0	524.15	46.209	1,2	14286	C8H12N2	tetramethyl succinonitrile	3333-52-6	465.90	40.618	2
14142	C8H11NO	4-methoxy-2-methylaniline	102-50-1	521.65	45.968	1,2	14287	C8H12N2	(1-phenylethyl)hydrazine	65-64-5	465.90	40.618	2
14143	C8H11NO	alpha-methyl-2-pyridineethanol	5307-19-7	520.21	45.829	2	14288	C8H12N2	4-(2-aminoethyl)aniline	13472-00-9	376.15	32.124	1,2
14144	C8H11NO	N-phenylethanolamine	122-98-5	552.65	48.965	1,2	14289	C8H12N2	2,3-diethylpyrazine	15707-24-1	454.15	39.497	1,2
14145	C8H11NO	2-pyridinepropanol	2859-68-9	533.35	47.098	1,2	14290	C8H12N2	1,6-diisocyanohexane	929-57-7	465.90	40.618	2
14146	C8H11NO	3-pyridinepropanol	2859-67-8	557.15	49.401	1,2	14291	C8H12N2	N,N-dimethyl-p-phenylenediamine	105-10-2	465.90	40.618	2
14147	C8H11NO	3-acetyl-2,4-dimethylpyrrole	2386-25-6	520.21	45.829	2	14292	C8H12N2	2-ethyl-3,5(6)dimethylpyrazine	27043-05-6	465.90	40.618	2
14148	C8H11NO	4-aminophenethyl alcohol	104-10-9	520.21	45.829	2	14293	C8H12N2	2-(2-methylaminoethyl)pyridine	5638-76-6	386.65	33.109	1,2
14149	C8H11NO	1-(3-aminophenyl)ethanol	2454-37-7	490.15	42.939	1,2	14294	C8H12N2	2-methyl-3-propylpyrazine	15986-80-8	462.65	40.307	1,2
14150	C8H11NO	3-methoxybenzylamine	5071-96-5	520.21	45.829	2	14295	C8H12N2	N-phenylethylenediamine	1664-40-0	536.15	47.368	1,2
14151	C8H11NO	N-methyl-p-anisidine	5961-59-1	520.21	45.829	2	14296	C8H12N2	2-phenylethylhydrazine	51-71-8	411.15	35.417	1,2
14152	C8H11NO	4-oxo-3-aza-tricyclo[4.2.1.0(2.5)]nonane	---	520.21	45.829	2	14297	C8H12N2	2,3,5,6-tetramethylpyrazine	1124-11-4	463.15	40.355	1,2
14153	C8H11NO	2-phenoxyethylamine	1758-46-9	520.21	45.829	2	14298	C8H12N2	p-xylylenediamine	539-48-0	465.90	40.618	2
14154	C8H11NO	(S)-(+)-2-phenylglycinol	20989-17-7	520.21	45.829	2	14299	C8H12N2	1-methyl-2-benzylhydrazine	10309-79-2	275.65	22.829	1,2
14155	C8H11NO	(R)-(-)-2-phenylglycinol	56613-80-0	520.21	45.829	2	14300	C8H12N2O	4-ethoxy-1,2-benzenediamine	1197-37-1	568.15	50.469	1,2
14156	C8H11NO	4-pyridinepropanol	2629-72-3	562.15	49.886	1,2	14301	C8H12N2O	1-cyanoacetylpiperidine	15029-30-8	568.15	50.469	2
14157	C8H11NO	3-acetyl-2,5-dimethyl-pyrrole	1500-94-3	520.21	45.829	2	14302	C8H12N2O	2-(dimethylaminomethyl)-3-hydroxypyridine	2168-13-0	568.15	50.469	2
14158	C8H11NO	2-amino-4,5-xylenol	6623-41-2	520.21	45.829	2	14303	C8H12N2O	3-exo-aminobicyclo[2.2.1]hept-5-ene-2-exo-ca*	105786-40-1	568.15	50.469	2
14159	C8H11NO	ethoxyaniline	1321-31-9	520.21	45.829	2	14304	C8H12N2O	2-isopropyl-3-methoxypyrazine	25773-40-4	568.15	50.469	2
14160	C8H11NO	4-methoxy-m-toluidine	136-90-3	520.21	45.829	2	14305	C8H12N2O	2-isopropyl-6-methyl-4-pyrimidinol	2814-20-2	568.15	50.469	2
14163	C8H11NO2	2,5-dimethoxyaniline	102-56-7	543.15	48.045	1,2	14306	C8H12N2O2	hexamethylene diisocyanate	822-06-0	421.65	36.410	2
14164	C8H11NO2	2,6-dimethoxyaniline	2734-70-5	514.95	45.322	2	14307	C8H12N2O2	1-(tert-butoxycarbonyl)imidazole	49761-82-2	421.65	36.410	1,2
14165	C8H11NO2	dopamine	51-61-6	514.95	45.322	2	14313	C8H12N2S4Zn	zinc allyl dithio carbamate	63904-83-6	266.25	21.973	1,2
14166	C8H11NO2	bucrylate	1069-55-2	514.95	45.322	2	14318	C8H12N4O4	5-azadeoxycytidine	2353-33-5	470.65	41.071	1,2
14167	C8H11NO2	N-tert-butylmaleimide	4144-22-3	462.15	40.260	1,2	14323	C8H12N22	1,3,4,6-tetrakis(2-methyltetrazol-5-yl)-hexa*	83195-98-6	286.05	23.778	1,2
14168	C8H11NO2	D(-)-2,5-dihydrophenylglycine	26774-88-9	514.95	45.322	2	14324	C8H12O	bicyclo[2.2.1]heptane-2-carboxaldehyde	19396-83-9	455.43	39.619	2
14169	C8H11NO2	3,5-dimethoxyaniline	10272-07-8	514.95	45.322	2	14325	C8H12O	2-tert-butylfuran	7040-43-9	392.65	33.673	1,2
14170	C8H11NO2	2,4-dimethoxyaniline	2735-04-8	603.15	53.878	1,2	14326	C8H12O	1-(1-cyclohexen-1-yl)ethanone	932-66-1	474.65	41.454	1,2
14171	C8H11NO2	3,4-dimethoxyaniline	6315-89-5	448.15	38.925	1,2	14327	C8H12O	3-cycloocten-1-one	4734-90-1	473.65	41.358	1,2
14173	C8H11NO2	ethyl 2-cyano-3-methyl-2-butenoate	759-58-0	514.95	45.322	2	14328	C8H12O	2,3-dimethyl-2-cyclohexen-1-one	1122-20-9	455.43	39.619	2
14175	C8H11NO2	methyl 1-methyl-2-pyrroleacetate	51856-79-2	514.95	45.322	2	14329	C8H12O	2,5-dimethyl-2-cyclohexen-1-one	14845-35-3	462.65	40.307	1,2
14176	C8H11NO2	a-(aminomethyl)-m-hydroxybenzyl alcohol	536-21-0	514.95	45.322	2	14330	C8H12O	3,5-dimethyl-2-cyclohexen-1-one	1123-09-7	481.65	42.124	1,2
14177	C8H11NO2	a-(aminomethyl)-p-hydroxybenzyl alcohol	104-14-3	514.95	45.322	2	14331	C8H12O	3,6-dimethyl-2-cyclohexen-1-one	15329-10-9	476.15	41.597	1,2
14178	C8H11NO2	anhydro-dimethylamino hexose reductone	63937-30-4	518.15	45.631	1,2	14332	C8H12O	3-isopropyl-2-cyclopenten-1-one	1619-28-9	487.15	42.651	1,2
14179	C8H11NO2	dehydroheliotridine	26400-24-8	514.95	45.322	2	14333	C8H12O	2-ethylidenecyclohexanone	1122-25-4	455.43	39.619	2
14180	C8H11NO2	dehydroretronecine	23107-12-2	514.95	45.322	2	14334	C8H12O	1-ethynylcyclohexanol	78-27-3	447.15	38.830	1,2
14181	C8H11NO2	4-deoxypyridoxal	61-67-6	514.95	45.322	2	14335	C8H12O	cis-hexahydro-2(1H)-pentalenone	19915-11-8	468.15	40.833	1,2
14182	C8H11NO2	N-hydroxy-p-phenetidine	38246-95-6	514.95	45.322	2	14336	C8H12O	hexahydro-2(1H)-pentalenone	56180-61-1	455.43	39.619	2
14222	C8H11N7S	ambazone	539-21-9	433.15	37.500	1,2	14337	C8H12O	3-vinyl-7-oxabicyclo[4.1.0]heptane	106-86-5	442.15	38.355	1,2
14227	C8H11P	dimethylphenylphosphine	672-66-2	465.15	40.546	1,2	14338	C8H12O	bicyclo[3.2.1]octan-2-one	5019-82-9	455.43	39.619	2
14228	C8H12	1,5-cyclooctadiene	111-78-4	423.27	37.454	1,2	14339	C8H12O	4,4-dimethyl-2-cyclohexen-1-one	1073-13-8	455.43	39.619	2
14229	C8H12	1,4-cyclooctadiene	1073-07-0	418.15	35.752	1,2	14340	C8H12O	2-methyl-1,2,3,6-tetrahydrobenzaldehyde	89-94-1	391.05	33.523	1,2
14230	C8H12	cis,cis-1,5-cyclooctadiene	1552-12-1	424.15	37.504	1,2	14341	C8H12O	5-norbornene-2-methanol, endo and exo	95-12-5	455.43	39.619	2
14230.1	C8H12	methylnorbornene	694-92-8	390.15	31.979	1,2	14342	C8H12O	2-octynal	1846-68-0	455.43	39.619	2
14231	C8H12	vinylcyclohexene	100-40-3	401.00	35.215	1,2	14343	C8H12O	9-oxabicyclo[6.1.0]non-4-ene	637-90-1	468.15	40.833	1,2
14232	C8H12	1-vinylcyclohexene	2622-21-1	418.15	36.079	1,2	14344	C8H12O2	2-acetylcyclohexanone	874-23-7	451.90	39.282	2
14233	C8H12	bicyclo[4.2.0]oct-2-ene	13367-29-8	411.15	35.417	1,2	14345	C8H12O2	3-allyl-2,4-pentanedione	3508-78-9	472.15	41.215	1,2
14234	C8H12	cyclooctyne	1781-78-8	431.15	37.310	1,2	14346	C8H12O2	5,5-dimethyl-1,3-cyclohexanedione	126-81-8	451.90	39.282	2
14235	C8H12	1,3-dimethyl-1,3-cyclohexadiene	4573-05-1	408.65	35.181	1,2	14347	C8H12O2	3,3-dimethyl-4-(1-methylethylidene)-2-oxetan*	3173-79-3	443.15	38.450	1,2
14236	C8H12	1,4-dimethyl-1,3-cyclohexadiene	26120-52-5	409.65	35.275	1,2	14348	C8H12O2	1,2-epoxy-4-(epoxyethyl)cyclohexane	106-87-6	500.15	43.899	1,2
14237	C8H12	1,5-dimethyl-1,3-cyclohexadiene	1453-17-4	402.15	34.568	1,2	14349	C8H12O2	ethyl 2,4-hexadienate	110318-09-7	468.65	40.880	1,2
14238	C8H12	2,5-dimethyl-1,3-cyclohexadiene	2050-33-1	400.15	34.379	1,2	14350	C8H12O2	ethyl trans,trans-2,4-hexadienoate	2396-84-1	468.65	40.880	1,2
14239	C8H12	2,6-dimethyl-1,3-cyclohexadiene	2050-32-0	404.15	34.756	1,2	14351	C8H12O2	methyl 3-cyclohexene-1-carboxylate	6493-77-2	455.15	39.592	1,2
14240	C8H12	1,2-dimethylenecyclohexane	2819-48-9	400.15	34.379	1,2	14352	C8H12O2	4-octene-2,7-dione	2130-23-6	451.90	39.282	2
14241	C8H12	2,5-dimethyl-1,3,5-hexatriene	4916-63-6	419.15	36.173	1,2	14353	C8H12O2	2-octynoic acid	5663-96-7	451.90	39.282	2
14242	C8H12	cis-1,2-divinylcyclobutane	16177-46-1	406.55	34.983	2	14354	C8H12O2	3-octynoic acid	57074-96-1	451.90	39.282	2
14243	C8H12	trans-1,2-divinylcyclobutane	6553-48-6	385.65	33.015	1,2	14355	C8H12O2	5-octynoic acid	76469-08-4	451.90	39.282	2
14244	C8H12	trans,trans,trans-2,4,6-octatriene	15192-80-0	420.65	36.315	1,2	14356	C8H12O2	7-octynoic acid	10297-09-3	451.90	39.282	2
14245	C8H12	1-octen-3-yne	17679-92-4	407.15	35.039	1,2	14357	C8H12O2	2,2,4,4-tetramethyl-1,3-cyclobutanedione	933-52-8	451.90	39.282	2
14246	C8H12	bicyclo(2.2.2)oct-2-ene	931-64-6	404.05	34.747	1,2	14358	C8H12O2	1-cyclohexen-1-yl acetate	1424-22-2	451.90	39.282	2
14247	C8H12	1,3-cyclooctadiene	1700-10-3	416.15	35.194	1,2	14359	C8H12O2	1,2,5,6-diepoxycyclooctane	27035-39-8	343.15	29.044	1,2
14248	C8H12	cis,cis-1,3-cyclooctadiene	3806-59-5	327.15	18.638	1,2	14360	C8H12O2	3,6-dihydro-4,6,6-trimethyl-2H-pyran-2-one	22954-83-2	451.90	39.282	2
14249	C8H12	3-cyclopentyl-1-propyne	116279-08-4	406.55	34.983	2	14361	C8H12O2	4,4-dimethyl-1,3-cyclohexanedione	562-46-9	451.90	39.282	2
14250	C8H12	bicyclobutylidine	6708-14-1	406.55	34.983	2	14362	C8H12O2	3-ethoxy-2-cyclohexenone	5323-87-5	451.90	39.282	2
14251	C8H12	bicyclo[4.2.0]oct-7-ene	616-10-4	405.65	34.898	1,2	14363	C8H12O2	methyl cyclohexene-1-carboxylate	18448-47-0	464.15	40.451	1,2
14252	C8H12	(Z,E)-1,3-cyclooctadiene	3806-60-8	406.55	32.674	2	14364	C8H12O2	exo-2-norbornyl formate	41498-71-9	451.90	39.282	2
14263	C8H12Cl2	2,5-dichloro-2,5-dimethyl-3-hexyne	2431-30-3	451.15	39.211	1,2	14365	C8H12O2	tetrahydro-2-(2-propynyloxy)-2H-pyran	6089-04-9	451.90	39.282	2
14266	C8H12Cl2N6O	imidazole mustard	5034-77-5	266.85	22.028	1,2	14366	C8H12O2	3,4-dihydro-2,5-dimethyl-2H-pyran-2-carboxal*	1920-21-4	451.90	39.282	2
14271	C8H12F6N2O	N-nitroso-bis-(4,4,4-trifluoro-n-butyl)amine	83335-32-4	274.15	22.692	1,2	14367	C8H12O2	acetic acid 2,4-hexadien-1-ol ester	1516-17-2	451.90	39.282	2
14272	C8H12F7NOSi	N-methyl-N-trimethylsilylheptafluorobutyrami*	53296-64-3	421.15	36.363	1,2	14368	C8H12O2	1-hydroperoxy-1-vinylcyclohex-3-ene	3736-26-3	451.90	39.282	2
14276	C8H12N2	1,3-benzenedimethanamine	1477-55-0	520.15	45.824	1,2	14369	C8H12O3	ethyl 2-cyclopentanone-1-carboxylate	611-10-9	494.15	43.322	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
14370	C8H12O3	3-methyl-4-oxocyclohexanecarboxylic acid	101567-36-6	446.23	38.743	2	14471	C8H14	1,4-dimethylcyclohexene	2808-79-9	401.65	33.806	1,2
14371	C8H12O3	tetrahydrofurfuryl acrylate	2399-48-6	446.23	38.743	2	14472	C8H14	1,5-dimethylcyclohexene	2808-77-7	401.15	33.837	1,2
14372	C8H12O3	4,4-diethoxy-2-butyn-1-al	74149-25-0	446.23	38.743	2	14473	C8H14	1,6-dimethylcyclohexene	1759-64-4	404.25	34.112	1,2
14373	C8H12O3	1,4-dioxaspiro[4.5]decan-2-one	4423-79-4	446.23	38.743	2	14474	C8H14	3,3-dimethylcyclohexene	695-28-3	392.15	33.142	1,2
14374	C8H12O3	1,4-dioxaspiro[4.5]decan-8-one	4746-97-8	446.23	38.743	2	14475	C8H14	3,cis-4-dimethylcyclohexene	---	395.80	33.364	2
14375	C8H12O3	3-ethyl-3-methylglutaric anhydride	6970-57-6	458.15	39.878	1,2	14476	C8H14	3,trans-4-dimethylcyclohexene	---	395.80	33.364	2
14376	C8H12O3	acetic acid 3-allyloxyallyl ester	64046-61-3	446.23	38.743	2	14477	C8H14	3,cis-5-dimethylcyclohexene	---	397.65	33.247	1,2
14377	C8H12O3	3-butyl-4-hydroxy-2(5H)furanone	78128-80-0	446.23	38.743	2	14478	C8H14	3,trans-5-dimethylcyclohexene	56021-63-7	395.80	33.364	2
14378	C8H12O3	2-(vinyloxy)ethyl methacrylate	1464-69-3	386.40	33.086	1,2	14479	C8H14	3,cis-6-dimethylcyclohexene	---	398.15	33.216	1,2
14379	C8H12O4	1,4-cyclohexanedicarboxylic acid	619-82-9	669.00	80.764	1,2	14480	C8H14	3,trans-6-dimethylcyclohexene	3685-00-5	395.80	33.364	2
14380	C8H12O4	diethyl maleate	141-05-9	498.15	48.340	1,2	14481	C8H14	4,4-dimethylcyclohexene	14072-86-7	390.39	32.986	1,2
14381	C8H12O4	diethyl fumarate	623-91-6	487.15	42.651	1,2	14482	C8H14	4,cis-5-dimethylcyclohexene	---	400.96	33.820	1,2
14382	C8H12O4	cis-2,2-dimethyl-1,3-cyclobutanedicarboxylic*	3211-48-1	505.81	44.442	2	14483	C8H14	4,trans-5-dimethylcyclohexene	---	395.80	33.364	2
14383	C8H12O4	dimethyl trans-1,2-cyclobutanedicarboxylate	7371-67-7	498.15	43.706	1,2	14484	C8H14	1-octyne	629-05-0	399.35	35.314	1,2
14384	C8H12O4	ethyl 2-acetylacetoacetate	603-69-0	483.15	42.268	1,2	14485	C8H14	2-octyne	2809-67-8	410.88	35.275	1,2
14385	C8H12O4	2-methyl-2-propene-1,1-diol diacetate	10476-95-6	464.15	40.451	1,2	14486	C8H14	3-octyne	15232-76-5	406.29	34.862	1,2
14386	C8H12O4	tetrahydro-2,2-dimethyl-5-oxo-3-furanacetic *	26754-48-3	505.81	44.442	2	14487	C8H14	4-octyne	1942-45-6	404.75	35.115	1,2
14387	C8H12O4	1,4-cyclohexanedicarboxylic acid	1076-97-7	505.81	44.442	2	14488	C8H14	3-ethyl-3-methyl-1-pentyne	919-12-0	374.65	27.003	1,2
14388	C8H12O4	1,2-cyclohexanedicarboxylic acid	2305-32-0	505.81	44.442	2	14489	C8H14	allylcyclopentane	3524-75-2	398.15	34.191	1,2
14389	C8H12O4	3,4-diacetoxy-1-butene	18085-02-4	505.81	44.442	2	14490	C8H14	bicyclo[4.2.0]octane	278-30-8	409.15	35.228	1,2
14390	C8H12O4	cis-1,4-diacetoxy-2-butene	25260-60-0	505.81	44.442	2	14491	C8H14	cis-cyclooctene	931-87-3	411.15	35.417	1,2
14391	C8H12O4	dimethyl allylmalonate	40637-56-7	480.15	41.980	1,2	14492	C8H14	trans-cyclooctene	931-89-5	416.15	35.890	1,2
14392	C8H12O4	dimethyl 3-methyl-trans-1,2-cyclopropanedica*	28363-79-3	505.81	44.442	2	14493	C8H14	1,7-octadiene	3710-30-3	388.65	33.297	1,2
14393	C8H12O4	dimethyl 1-methyl-trans-1,2-cyclopropanedica*	702-92-1	505.81	44.442	2	14494	C8H14	2,6-octadiene	4974-27-0	397.65	34.144	1,2
14394	C8H12O4	dimethyl 3-methylglutaconate	52313-87-8	505.81	44.442	2	14495	C8H14	3-methyl-1,5-heptadiene	4894-62-6	384.15	32.874	1,2
14395	C8H12O4	(-)-6b-hydroxymethyl-7a-hydroxy-cis-2-oxabic*	32233-40-2	505.81	44.442	2	14496	C8H14	2,5-dimethyl-1,5-hexadiene	627-58-7	387.45	33.184	1,2
14396	C8H12O4	methyl 3-acetoxy-2-methylenebutyrate	22787-68-4	505.81	44.442	2	14497	C8H14	2,5-dimethyl-2,4-hexadiene	764-13-6	407.65	35.087	1,2
14397	C8H12O4	mono-butyl maleate	925-21-3	474.15	41.406	1,2	14498	C8H14	ethylidenecyclohexane	1003-64-1	409.15	35.228	1,2
14398	C8H12O4	1,2-cyclobutanedicarboxylic acid, dimethyl e*	2607-03-6	498.20	43.711	1,2	14499	C8H14	1-methylcycloheptene	1453-25-4	409.15	35.228	1,2
14399	C8H12O4	cis-1,2-cyclohexanedicarboxylic acid	610-09-3	505.81	44.442	2	14500	C8H14	5-methylcycloheptene	2505-06-8	400.61	34.423	2
14400	C8H12O5	diethyl oxobutanedioate	108-56-5	392.65	33.673	2	14501	C8H14	1-methyl-4-methylenecyclohexane	2808-80-2	395.15	33.908	1,2
14402	C8H12O5	methyl 2,5-dihydro-2,5-dimethoxy-2-furancarb*	62435-72-7	392.65	33.673	1,2	14502	C8H14	cis-octahydropentalene	1755-05-1	412.15	35.512	1,2
14403	C8H12O5	O,O-tert-butyl hydrogen monoperoxy maleate	---	392.65	33.673	2	14503	C8H14	trans-octahydropentalene	5597-89-7	405.15	34.851	1,2
14404	C8H12O6	maleic acid, mono(hydroxyethoxyethyl) ester	10099-72-6	451.65	39.259	1,2	14504	C8H14	vinylcyclohexane	695-12-5	401.15	34.474	1,2
14410	C8H12S	2-butylthiophene	1455-20-5	454.65	39.544	1,2	14505	C8H14	cyclooctene	931-88-4	418.65	36.126	1,2
14411	C8H12S	3-butylthiophene	34722-01-5	455.15	39.592	1,2	14515	C8H14Cl2O2	butyl 3,4-dichlorobutanoate	116723-94-5	367.65	31.328	2
14412	C8H12S	2-(1,1-dimethylethyl)thiophene	1689-78-7	437.15	37.880	1,2	14516	C8H14Cl2O2	2,2-dichlorooctanoic acid	102272-30-0	367.65	31.328	1,2
14413	C8H12S	3-(1,1-dimethylethyl)thiophene	1689-79-8	442.15	38.355	1,2	14541	C8H14O	1-cyclohexylethanone	823-76-7	453.65	39.449	1,2
14413.1	C8H12S	3-ethyl-2,5-dimethylthiophene	55735-23-4	456.15	41.113	1,2	14542	C8H14O	cyclooctanone	502-49-8	469.15	40.928	1,2
14414	C8H12Si	dimethylphenylsilane	766-77-8	429.65	37.168	1,2	14543	C8H14O	2-methylcycloheptanone	932-56-9	458.15	39.878	1,2
14415	C8H12Si	tetravinylsilane	1112-55-6	403.35	34.681	1,2	14544	C8H14O	1-(1-methylcyclopentyl)ethanone	13388-93-7	443.32	38.466	2
14416	C8H12Sn	tetravinylstannane	1112-56-7	433.15	37.500	1,2	14545	C8H14O	1-(2-methylcyclopentyl)ethanone	1601-00-9	443.65	38.497	1,2
14420	C8H13Cl	1-chloro-1-octyne	64531-26-6	447.00	38.816	2	14546	C8H14O	2-cycloocten-1-ol	3212-75-7	443.32	38.466	2
14421	C8H13Cl	1-chloro-2-octyne	51575-83-8	447.00	38.816	2	14547	C8H14O	2,2-dimethylcyclohexanone	1193-47-1	445.15	38.640	1,2
14422	C8H13ClHgN2O3	1-(3-chloromercuri-2-methoxy-1-propyl)-3-met*	67465-39-8	489.15	42.843	1,2	14548	C8H14O	cis-2,3-dimethylcyclohexanone	1551-88-8	451.65	39.259	1,2
14423	C8H13ClHgN2O3	3-(3-chloromercuri-2-methoxy-1-propyl)-1-met*	3367-28-0	489.15	42.843	2	14549	C8H14O	trans-2,3-dimethylcyclohexanone	1551-89-9	443.32	38.466	2
14424	C8H13ClO	cyclopentanepropionyl chloride	104-97-2	472.65	41.263	1,2	14550	C8H14O	cis-2,4-dimethylcyclohexanone	116783-29-0	450.15	39.116	1,2
14425	C8H13F3O2	2-methylpentyl trifluoroacetate	10042-29-2	413.15	35.606	1,2	14551	C8H14O	trans-2,4-dimethylcyclohexanone, (2S)	93921-42-7	452.15	39.306	1,2
14426	C8H13N	1-butyl-1H-pyrrole	589-33-3	443.65	38.497	1,2	14552	C8H14O	trans-2,5-dimethylcyclohexanone, (±)	66395-23-1	445.15	38.640	1,2
14427	C8H13N	3-ethyl-2,4-dimethyl-1H-pyrrole	517-22-6	472.15	41.215	1,2	14553	C8H14O	2,6-dimethylcyclohexanone	2816-57-1	448.15	38.925	1,2
14428	C8H13N	4-ethyl-2,3-dimethyl-1H-pyrrole	491-18-9	473.15	41.310	1,2	14554	C8H14O	3,3-dimethylcyclohexanone	2979-19-3	453.15	39.402	1,2
14429	C8H13N	2,3,4,5-tetramethyl-1H-pyrrole	1003-90-3	464.26	40.461	2	14555	C8H14O	3,4-dimethylcyclohexanone	5465-09-8	460.15	40.069	1,2
14430	C8H13N	cyclohexaneacetonitrile	4435-14-7	473.15	41.310	1,2	14556	C8H14O	3,5-dimethylcyclohexanone	2320-30-1	455.65	39.640	1,2
14431	C8H13N	1-ethynylcyclohexanamine	30389-18-5	464.26	40.461	2	14557	C8H14O	4,4-dimethylcyclohexanone	4255-62-3	443.32	38.466	2
14432	C8H13N	cycloheptyl cyanide	32730-85-1	464.26	40.461	2	14558	C8H14O	3,4-dimethyl-3-hexen-2-one	1635-02-5	432.15	37.405	1,2
14433	C8H13N	2,5-diethyl-1H-pyrrole	766-95-0	459.20	39.978	1,2	14559	C8H14O	3,4-dimethyl-4-hexen-2-one	53252-21-4	427.15	36.931	1,2
14434	C8H13N	1-diethylamino-1-buten-3-yne	1809-53-6	464.26	40.461	2	14560	C8H14O	3-methyl-5-hepten-2-one	38552-72-6	443.32	38.466	2
14435	C8H13NO	8-methyl-8-azabicyclo[3.2.1]octan-3-one	532-24-1	500.15	43.899	1,2	14561	C8H14O	5-methyl-5-hepten-2-one	10339-67-0	443.32	38.466	2
14436	C8H13NO	2-oxooctanenitrile	80997-84-8	472.15	41.215	2	14562	C8H14O	6-methyl-3-hepten-2-one	2009-74-7	452.15	39.306	1,2
14437	C8H13NO	N,N,5-trimethylfurfurylamine	14496-35-6	444.15	38.545	1,2	14563	C8H14O	6-methyl-4-hepten-2-one	39273-81-9	436.15	37.785	1,2
14438	C8H13NO	N-vinylcaprolactam	2235-00-9	472.15	41.215	2	14564	C8H14O	6-methyl-5-hepten-2-one	110-93-0	436.15	37.785	2
14439	C8H13NO2	arecoline	63-75-2	482.15	42.172	1,2	14565	C8H14O	2-methyl-5-hepten-3-one	77958-21-5	434.65	37.642	1,2
14440	C8H13NO2	4-ethyl-4-methyl-2,6-piperidinedione	64-65-3	491.48	43.066	2	14566	C8H14O	5-methyl-1-hepten-3-one	44829-76-7	443.32	38.466	2
14441	C8H13NO2	scopoline	487-27-4	521.15	45.920	1,2	14567	C8H14O	5-methyl-4-hepten-3-one	1447-26-3	439.65	38.117	1,2
14442	C8H13NO2	(R)-(+)-2-acetoxy-3,3-dimethylbutyronitrile	126567-38-2	471.15	41.119	1,2	14568	C8H14O	5-methyl-5-hepten-3-one	1190-34-7	443.32	38.466	2
14443	C8H13NO2	N-acetylcaprolactam	1888-91-1	491.48	43.066	2	14569	C8H14O	5-methyl-2-hepten-4-one	81925-81-7	444.15	38.545	1,2
14445	C8H13NO2	ethyl 2-amino-1-cyclopentene-1-carboxylate	7149-18-0	491.48	43.066	2	14570	C8H14O	6-methyl-2-hepten-4-one	49852-35-9	443.15	38.450	1,2
14447	C8H13NO2	(±)-exo-6-hydroxytropinone	5932-53-6	491.48	43.066	2	14571	C8H14O	4-ethylcyclohexanone	5441-51-0	466.15	40.641	1,2
14448	C8H13NO2	methyl 2-amino-1-cyclohexene-1-carboxylate	56661-88-2	491.48	43.066	2	14572	C8H14O	2-ethyl-5-methylcyclopentanone	51686-60-3	437.65	37.927	1,2
14449	C8H13NO2	a-methyl-a-propylsuccinimide	1497-19-4	491.48	43.066	2	14573	C8H14O	2-isopropylcyclopentanone	14845-55-7	448.15	38.925	1,2
14450	C8H13NO2	4-(dimethylamino)butyn-1-ol acetate	3921-94-6	491.48	43.066	2	14574	C8H14O	2-propylcyclopentanone	1193-70-0	456.15	39.687	1,2
14457	C8H13N2O3PS	thionazin	297-97-2	353.15	29.974	1,2	14575	C8H14O	3-propylcyclopentanone	82322-93-8	463.65	40.403	1,2
14463	C8H14	1-propylcyclopentene	3074-61-1	404.35	34.760	1,2	14576	C8H14O	2,2,4-trimethylcyclopentanone	28056-54-4	431.15	37.310	1,2
14464	C8H14	1,2,3-trimethylcyclopentene	473-91-6	394.75	31.956	1,2	14577	C8H14O	2,2,5-trimethylcyclopentanone	4573-09-5	425.15	36.741	1,2
14465	C8H14	1,5,5-trimethylcyclopentene	62184-83-2	382.15	28.751	1,2	14578	C8H14O	2,3,5-trimethylcyclopentanone	90112-26-8	431.15	37.310	1,2
14466	C8H14	1-ethylcyclohexene	1453-24-3	410.14	35.026	1,2	14579	C8H14O	2,4,4-trimethylcyclopentanone	4694-12-6	433.65	37.547	1,2
14467	C8H14	3-ethylcyclohexene	2808-71-1	404.76	34.544	1,2	14580	C8H14O	4-methyl-1,6-heptadien-4-ol	25201-40-5	431.55	37.348	1,2
14468	C8H14	4-ethylcyclohexene	3742-42-5	406.15	34.669	1,2	14581	C8H14O	2-octyn-1-ol	20739-58-6	443.32	38.466	2
14469	C8H14	1,2-dimethylcyclohexene	1674-10-8	411.13	34.721	1,2	14582	C8H14O	tert-butyl 1-methyl-2-propynyl ether	26826-40-4	443.32	38.466	2
14470	C8H14	1,3-dimethylcyclohexene	2808-76-6	400.25	33.757	1,2	14583	C8H14O	cyclohexyl vinyl ether	2182-55-0	421.65	36.410	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
14584	C8H14O	cyclooctene oxide	286-62-4	462.15	40.260	1,2	14665	C8H14O3	isopropyl 4-oxopentanoate	21884-26-4	482.45	42.200	1,2
14585	C8H14O	3,5-dimethyl-1-hexyn-3-ol	107-54-0	423.60	36.595	1,2	14666	C8H14O3	methyl 4-methyl-5-oxohexanoate	36045-56-4	468.96	40.910	2
14586	C8H14O	1,2-epoxy-7-octene	19600-63-6	443.32	38.466	2	14667	C8H14O3	2-methylpropanoic anhydride	97-72-3	456.15	39.687	1,2
14587	C8H14O	1-ethoxycyclohexene	1122-84-5	443.32	38.466	2	14668	C8H14O3	propyl 4-oxopentanoate	645-67-0	491.15	43.034	1,2
14588	C8H14O	2-ethyl-2-hexenal	645-62-5	443.32	38.466	2	14669	C8H14O3	tetrahydro-2-furanmethanol propanoate	637-65-0	478.65	41.837	1,2
14589	C8H14O	methylheptenone	409-02-9	446.65	38.783	1,2	14670	C8H14O3	tert-butyl acetoacetate	1694-31-1	460.10	40.064	1,2
14590	C8H14O	2-norbornanemethanol, endo and exo	5240-72-2	374.15	31.937	1,2	14671	C8H14O3	di(ethylene glycol) divinyl ether	764-99-8	471.65	41.167	1,2
14591	C8H14O	trans-2-octenal	2548-87-0	443.32	38.466	2	14672	C8H14O3	2-ethoxyethyl methacrylate	2370-63-0	468.96	40.910	2
14592	C8H14O	3-octen-2-one	1669-44-9	443.32	38.466	2	14673	C8H14O3	ethyl trans-3-ethoxycrotonate	57592-45-7	470.65	41.071	1,2
14593	C8H14O	(R)-(+)-1-octyn-3-ol	32556-70-0	443.32	38.466	2	14674	C8H14O3	ethyl cis-2-hydroxy-1-cyclopentanecarboxylate	2315-21-1	468.96	40.910	2
14594	C8H14O	(S)-(-)-1-octyn-3-ol	32556-71-1	443.32	38.466	2	14675	C8H14O3	ethyl 3-oxohexanoate	3249-68-1	468.96	40.910	2
14595	C8H14O	1-octyn-3-ol	818-72-4	455.15	39.592	1,2	14676	C8H14O3	hydroxybutyl methacrylate, isomers	29008-35-3	453.15	39.402	1,2
14596	C8H14O	3-octyn-1-ol	14916-80-4	443.32	38.466	2	14677	C8H14O3	isobutyl acetoacetate	7779-75-1	477.05	41.683	1,2
14597	C8H14O	2-ethyl hexenal	26266-68-2	443.32	38.466	2	14678	C8H14O3	3-methoxycyclohexanecarboxylic acid	99799-10-7	468.96	40.910	2
14598	C8H14O	(methyl-3-cyclohexenyl)methanol	17264-01-6	443.32	38.466	2	14679	C8H14O3	methyl 4,4-dimethyl-3-oxopentanoate	55107-14-7	460.15	40.069	1,2
14599	C8H14O2	butyl methacrylate	97-88-1	434.00	40.200	1,2	14680	C8H14O3	7-oxooctanoic acid	14112-98-2	468.96	40.910	2
14600	C8H14O2	sec-butyl methacrylate	2998-18-7	420.15	36.268	1,2	14681	C8H14O3	butanoic acid, 3-oxo-, 1-methylpropyl ester	13562-76-0	467.00	40.723	1,2
14601	C8H14O2	isobutyl methacrylate	97-86-9	428.15	37.026	1,2	14682	C8H14O3	2-buteneperoxoic acid, 1,1-dimethylethyl est*	23474-91-1	468.96	40.910	2
14602	C8H14O2	5-butyldihydro-2(3H)-furanone	104-50-7	454.57	39.537	2	14683	C8H14O3	bis(3,4-epoxybutyl) ether	10580-77-5	468.96	40.910	2
14603	C8H14O2	cycloheptanecarboxylic acid	1460-16-8	532.15	46.982	1,2	14684	C8H14O3	bis(2,3-epoxy-2-methylpropyl) ether	7487-28-7	468.96	40.910	2
14604	C8H14O2	cyclohexaneacetic acid	5292-21-7	518.15	45.631	1,2	14685	C8H14O3	a,g-dimethyl-a-oxymethyl glutaraldehyde	63951-48-4	468.96	40.910	2
14605	C8H14O2	cyclohexyl acetate	622-45-7	446.15	38.735	1,2	14686	C8H14O3	2,3-epoxybutyric acid butyl ester	10138-34-8	468.96	40.910	2
14606	C8H14O2	cyclopentanepropanoic acid	140-77-2	454.57	39.537	2	14687	C8H14O3	ethoxypropylacrylate	64050-15-3	468.96	40.910	2
14607	C8H14O2	2,4-octanedione	14090-87-0	467.15	40.737	1,2	14688	C8H14O4	diethyl succinate	123-25-1	489.65	50.570	1,2
14608	C8H14O2	2,7-octanedione	1626-09-1	454.57	39.537	2	14689	C8H14O4	1,4-butanediol diacetate	628-67-1	502.15	44.091	1,2
14609	C8H14O2	3,6-octanedione	2955-65-9	454.57	39.537	2	14690	C8H14O4	butyl hydrogen succinate	5150-93-6	495.09	43.413	2
14610	C8H14O2	4,5-octanedione	5455-24-3	441.15	38.260	1,2	14691	C8H14O4	diethyl methylmalonate	609-08-5	474.15	41.406	1,2
14611	C8H14O2	2,5-dimethyl-3,4-hexanedione	4388-87-8	417.65	36.032	1,2	14692	C8H14O4	diisopropyl oxalate	615-81-6	463.15	40.355	1,2
14612	C8H14O2	2,5-dimethyl-3-hexyne-2,5-diol	142-30-3	478.15	41.789	1,2	14693	C8H14O4	dimethyl adipate	627-93-0	495.09	43.413	2
14613	C8H14O2	ethyl 2,3-dimethyl-2-butenoate	13979-28-7	428.15	37.026	1,2	14694	C8H14O4	dipropyl oxalate	615-98-5	484.15	42.363	1,2
14614	C8H14O2	ethyl 2-hexenoate	1552-67-6	447.65	38.878	1,2	14695	C8H14O4	ethylene glycol dipropanoate	123-80-8	484.15	42.363	1,2
14615	C8H14O2	ethyl 3-hexenoate	2396-83-0	439.65	38.117	1,2	14696	C8H14O4	ethyl hydrogen adipate	626-86-8	558.15	49.498	1,2
14616	C8H14O2	ethyl 3-methyl-3-pentenoate	86623-80-5	454.57	39.537	2	14697	C8H14O4	3-ethyl-3-methylpentanedioic acid	5345-01-7	534.15	47.175	1,2
14617	C8H14O2	ethyl 4-methyl-2-pentenoate	2351-97-5	447.15	38.830	1,2	14698	C8H14O4	octanedioic acid	505-48-6	495.09	43.413	2
14618	C8H14O2	ethyl 4-methyl-3-pentenoate	6849-18-9	454.57	39.537	2	14699	C8H14O4	tetramethylbutanedioic acid	630-51-3	495.09	43.413	2
14619	C8H14O2	1-(1-hydroxycyclohexyl)ethanone	1123-27-9	398.65	34.238	1,2	14700	C8H14O4	1,4-bis(2-hydroxyethoxy)-2-butyne	1606-85-5	495.09	43.413	2
14620	C8H14O2	3-hydroxy-2,2-dimethylhexanoic acid, beta-la*	90112-82-6	510.00	44.846	2	14701	C8H14O4	1,3-butanediol diacetate	1117-31-3	495.09	43.413	2
14621	C8H14O2	2-methylbutyl acrylate	44914-03-6	433.15	37.500	1,2	14702	C8H14O4	tert-butyl methyl malonate	42726-73-8	495.09	43.413	2
14622	C8H14O2	methyl cyclohexanecarboxylate	4630-82-4	456.15	39.687	1,2	14703	C8H14O4	(1S)-1-(2,5-dimethoxy-2,5-dihydrofuran-2-yl)*	236408-20-1	495.09	43.413	2
14623	C8H14O2	3-methylcyclopentaneacetic acid	63370-69-4	510.15	44.860	1,2	14704	C8H14O4	(1R)-1-(2,5-dimethoxy-2,5-dihydrofuran-2-yl)*	316186-17-1	495.09	43.413	2
14624	C8H14O2	6-methyl-2-heptenoic acid	90112-75-7	512.65	45.101	1,2	14705	C8H14O4	DL-1-(2,5-dimethoxy-2,5-dihydrofuran-2-yl)et*	33647-67-5	495.09	43.413	2
14625	C8H14O2	octanedial	638-54-0	508.15	44.668	2	14706	C8H14O4	2,6-dimethyl-1,3-dioxan-4-ol acetate, cis an*	828-00-2	495.09	43.413	2
14626	C8H14O2	1,4-butanediol divinyl ether	3891-33-6	454.57	39.537	2	14707	C8H14O4	dimethyl 3-methylglutarate	19013-37-7	495.09	43.413	2
14627	C8H14O2	tert-butyl methacrylate	585-07-9	405.15	34.851	1,2	14708	C8H14O4	ethylene glycol diglycidyl ether	2224-15-9	495.09	43.413	2
14628	C8H14O2	2-butyn-1-al diethyl acetal	2806-97-5	339.15	28.672	1,2	14709	C8H14O4	(S)-2-isopropylsuccinic acid-1-methyl ester	208113-95-5	495.09	43.413	2
14629	C8H14O2	3-cyclohexene-1,1-dimethanol	2160-94-3	454.57	39.537	2	14710	C8H14O4	(R)-2-isopropylsuccinic acid-1-methyl ester	220498-08-8	495.09	43.413	2
14630	C8H14O2	1,2,7,8-diepoxyoctane	2426-07-5	513.15	45.149	1,2	14711	C8H14O4	isosorbide dimethyl ether	5306-85-4	495.09	43.413	2
14631	C8H14O2	dihydro-2,2,5,5-tetramethyl-3(2H)-furanone	5455-94-7	454.57	39.537	2	14712	C8H14O4	methyl (4S)-(+)-2,2-dimethyl-1,3-dioxolane-4*	95422-24-5	466.15	40.641	1,2
14632	C8H14O2	2-ethoxycyclohexanone	33371-97-0	454.57	39.537	2	14713	C8H14O4	methyl (4S,5R)-2,2,5-trimethyl-1,3-dioxolane*	38410-80-9	495.09	43.413	2
14633	C8H14O2	2-ethyl-2-hexenoic acid	5309-52-4	510.00	44.846	2	14714	C8H14O4	2,5-dihydroperoxy-2,5-dimethylhex-3-yne	3491-36-9	495.09	43.413	2
14634	C8H14O2	ethyl 4-methyl-4-pentenoate	4911-54-0	454.57	39.537	2	14715	C8H14O4	diisobutyryl peroxide	3437-84-1	495.09	43.413	2
14635	C8H14O2	ethyl 2-methyl-4-pentenoate	53399-81-8	427.15	36.931	1,2	14716	C8H14O4	ethyl acetoacetate ethylene ketal	6413-10-1	495.09	43.413	2
14636	C8H14O2	trans-2-hexenyl acetate	2497-18-9	438.60	38.017	1,2	14722	C8H14O5	diethylene glycol diacetate	628-68-2	473.15	41.310	1,2
14637	C8H14O2	isoamyl acrylate	4245-35-6	431.15	37.310	1,2	14723	C8H14O5	1,2-o-isopropylidene-a-D-xylofuranose	20031-21-4	473.15	41.310	2
14638	C8H14O2	1-methyl-1-cyclohexanecarboxylic acid	1123-25-7	507.15	44.572	1,2	14724	C8H14O5	methyl 4,4-dimethoxy-3-oxovalerate	62759-83-5	473.15	41.310	2
14639	C8H14O2	4-methyl-1-cyclohexanecarboxylic acid	4331-54-8	454.57	39.537	2	14725	C8H14O5	methyl 3,4-O-isopropylidene-l-threonate	92973-40-5	473.15	41.310	2
14640	C8H14O2	2-methyl-1-cyclohexanecarboxylic acid	56586-13-1	514.65	45.293	1,2	14727	C8H14O6	diethyl tartrate	57968-71-5	554.15	49.111	1,2
14641	C8H14O2	6-methyl-2,4-heptanedione	3002-23-1	454.57	39.537	2	14728	C8H14O6	(-)-diethyl D-tartrate	13811-71-7	553.15	49.014	1,2
14642	C8H14O2	2-octenoic acid	1871-67-6	510.00	44.846	2	14729	C8H14O6	(+)-diethyl l-tartrate	87-91-2	553.15	49.014	1,2
14643	C8H14O2	2,2-pentamethylene-1,3-dioxolane	177-10-6	454.57	39.537	2	14730	C8H14O6	isopropyl peroxydicarbonate	105-64-6	553.48	49.046	2
14644	C8H14O2	(Z)-acetate3-hexen-1-ol	3681-71-8	442.00	38.340	1,2	14731	C8H14O6	di-n-propyl peroxydicarbonate	16066-38-9	553.48	49.046	2
14645	C8H14O2	sec-butylcrotonate	44917-51-3	454.57	39.537	2	14732	C8H14O6S	bis(2-acetoxyethyl)sulfone	3763-72-2	464.15	40.451	1,2
14646	C8H14O2	cyclopentanecarboxylic acid, 1-methyl-, meth*	4630-83-5	454.57	39.537	2	14735	C8H14Si	cyclopentadienyltrimethylsilane	3559-74-8	413.15	35.606	1,2
14647	C8H14O2	4,4-bis(hydroxymethyl)-1-cyclohexene	64011-53-6	454.57	39.537	2	14736	C8H15Br	cis-1-bromo-1-octene	42843-49-2	453.15	41.138	1,2
14648	C8H14O2	3,4-dimethyl-2,5-hexanedione	25234-79-1	454.57	39.537	2	14737	C8H15Br	trans-1-bromo-1-octene	51751-87-2	453.15	41.138	1,2
14649	C8H14O2	ethylene glycol diallyl ether	7529-27-3	454.57	39.537	2	14738	C8H15Br	(2-bromoethyl)cyclohexane	1647-26-3	485.15	42.459	1,2
14650	C8H14O2	2-(2,4-hexadienyloxy)ethanol	27310-21-0	454.57	39.537	2	14739	C8H15BrO2	2-bromo-2-butenal, diethyl acetal	98551-14-5	484.50	42.397	2
14651	C8H14O2	cis-hexenyl ocyacetaldehyde	68133-72-2	454.57	39.537	2	14740	C8H15BrO2	2-bromooctanoic acid	2623-82-7	484.50	42.397	2
14652	C8H14O2	isopropyl tiglate	1733-25-1	454.57	39.537	2	14741	C8H15BrO2	8-bromooctanoic acid	17696-11-6	484.50	42.397	2
14653	C8H14O2	isovaleric acid, allyl ester	2835-39-4	510.00	44.846	2	14742	C8H15BrO2	ethyl 2-bromohexanoate, (±)	63927-44-6	481.85	42.143	1,2
14654	C8H14O2	5-octanolide	698-76-0	454.57	39.537	2	14743	C8H15BrO2	ethyl 5-bromohexanoate	90202-08-7	484.50	42.397	2
14654.1	C8H14O2	2-oxolan-2-yloxolane	108538-38-9	497.00	45.920	1,2	14744	C8H15BrO2	ethyl 6-bromohexanoate	25542-62-5	484.50	42.397	2
14656	C8H14O2S2	dl-thioctic acid	1077-28-7	435.65	37.737	1,2	14745	C8H15BrO2	isopentyl 3-bromopropanoate	100983-12-8	484.50	42.397	2
14657	C8H14O2S2	thioctic acid	62-46-4	435.65	37.737	1,2	14746	C8H15BrO2	2-(3-bromopropoxy)tetrahydro-2H-pyran	33821-94-2	484.50	42.397	2
14659	C8H14O3	butyric anhydride	106-31-0	468.15	46.733	1,2	14747	C8H15BrO2	ethyl 2-bromohexanoate	615-96-3	487.15	42.651	1,2
14660	C8H14O3	butyl acetoacetate	591-60-6	468.96	40.910	2	14748	C8H15Br3	1,1,1-tribromooctane	62127-65-5	554.15	54.309	1,2
14661	C8H14O3	ethyl 2,2-dimethylacetoacetate	597-04-6	455.15	39.592	1,2	14749	C8H15Cl	cis-1-chloro-1-octene	64531-23-3	450.15	39.682	1,2
14662	C8H14O3	ethyl 2-ethylacetoacetate	607-97-6	471.15	41.119	1,2	14750	C8H15Cl	trans-1-chloro-1-octene	59871-24-8	450.15	39.682	1,2
14663	C8H14O3	ethyl 4-methyl-3-oxopentanoate	7152-15-0	446.15	38.735	1,2	14751	C8H15Cl	1-chloro-4-ethyl-3-hexene	82507-04-8	446.15	38.822	1,2
14664	C8H14O3	ethyl 5-oxohexanoate	13984-57-1	494.65	43.370	1,2	14752	C8H15Cl	6-chloro-2-methyl-2-heptene	80325-37-7	441.98	37.415	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
14753	C8H15Cl	2-chloro-1-octene	31283-43-9	442.15	37.472	1,2	14863	C8H16	1-methyl-1-ethylcyclopentane	16747-50-5	394.67	33.225	1,2
14754	C8H15Cl	2-chloro-2-octene	90202-21-4	440.65	36.983	1,2	14864	C8H16	1-methyl-cis-2-ethylcyclopentane	930-89-2	401.20	33.988	1,2
14755	C8H15Cl	4-chloro-2-octene	116668-50-9	426.15	32.706	1,2	14865	C8H16	1-methyl-trans-2-ethylcyclopentane	930-90-5	394.35	33.379	1,2
14756	C8H15Cl	cis-4-chloro-4-octene	7321-48-4	438.45	36.283	1,2	14866	C8H16	1-methyl-cis-3-ethylcyclopentane	2613-66-3	394.25	33.370	1,2
14758	C8H15ClO	2-ethylhexanoyl chloride	760-67-8	468.75	40.890	2	14867	C8H16	1-methyl-trans-3-ethylcyclopentane	2613-65-2	394.25	33.370	1,2
14759	C8H15ClO	octanoyl chloride	111-64-8	468.75	40.890	1,2	14868	C8H16	1,1,2-trimethylcyclopentane	4259-00-1	386.88	32.444	1,2
14760	C8H15ClO2	3-methylbutyl 2-chloropropanoate	62108-69-4	481.15	42.076	1,2	14869	C8H16	1,1,3-trimethylcyclopentane	4516-69-2	378.04	31.666	1,2
14761	C8H15ClO2	3-methylbutyl 3-chloropropanoate	62108-70-7	481.15	42.076	1,2	14870	C8H16	1,cis-2,cis-3-trimethylcyclopentane	2613-69-6	396.15	33.167	1,2
14762	C8H15ClO2	2-(3-chloropropoxy)tetrahydro-2H-pyran	42330-88-1	481.15	42.076	2	14871	C8H16	1,cis-2,trans-3-trimethylcyclopentane	15890-40-1	390.65	32.684	1,2
14765	C8H15Cl3	1,1,1-trichlorooctane	4905-79-7	497.15	44.328	1,2	14872	C8H16	1,trans-2,cis-3-trimethylcyclopentane	19374-46-0	383.35	32.043	1,2
14766	C8H15F	cis-1-fluoro-1-octene	32814-16-7	385.87	33.736	2	14873	C8H16	1,cis-2,cis-4-trimethylcyclopentane	2613-72-1	390.15	32.640	1,2
14767	C8H15F	trans-1-fluoro-1-octene	32814-17-8	385.87	33.736	2	14874	C8H16	1,cis-2,trans-4-trimethylcyclopentane	4850-28-6	389.88	32.616	1,2
14770	C8H15F3	1,1,1-trifluorooctane	53392-86-2	398.15	34.869	1,2	14875	C8H16	1,trans-2,cis-4-trimethylcyclopentane	16883-48-0	382.44	31.963	1,2
14772	C8H15I	cis-1-iodo-1-octene	52356-93-1	485.15	42.827	1,2	14876	C8H16	1-methyl-3-ethylcyclopentane	3726-47-4	394.20	33.109	1,2
14773	C8H15I	trans-1-iodo-1-octene	42599-17-7	485.15	42.827	1,2	14877	C8H16	ethylcyclohexane	1678-91-7	404.95	34.163	1,2
14774	C8H15I3	1,1,1-triiodooctane	---	658.63	59.123	2	14878	C8H16	1,1-dimethylcyclohexane	590-66-9	392.70	32.443	1,2
14775	C8H15N	octanenitrile	124-12-9	478.35	44.010	1,2	14879	C8H16	1,2-dimethylcyclohexane, (cis+trans)	583-57-3	399.05	32.807	1,2
14776	C8H15N	8-methyl-8-azabicyclo[3.2.1]octane	529-17-9	439.15	38.070	1,2	14880	C8H16	cis-1,2-dimethylcyclohexane	2207-01-4	402.94	33.541	1,2
14777	C8H15N	octahydroindolizine	13618-93-4	445.75	38.697	2	14881	C8H16	trans-1,2-dimethylcyclohexane	6876-23-9	396.58	32.865	1,2
14778	C8H15N	octahydro-1H-indole	4375-14-8	458.65	39.926	1,2	14882	C8H16	1,3-dimethylcyclohexane, cis and trans	591-21-9	393.10	31.136	1,2
14779	C8H15N	2-(1-propenyl)piperidine, (±)	5913-85-9	441.15	38.260	1,2	14883	C8H16	cis-1,3-dimethylcyclohexane	638-04-0	393.24	32.722	1,2
14780	C8H15N	2,3,4,5-tetrahydro-6-propylpyridine	1604-01-9	447.15	38.830	1,2	14884	C8H16	trans-1,3-dimethylcyclohexane	2207-03-6	397.61	33.247	1,2
14781	C8H15N	N-allylcyclopentylamine	55611-39-7	430.65	37.263	1,2	14885	C8H16	1,4-dimethylcyclohexane, (cis+trans)	589-90-2	395.90	31.907	1,2
14782	C8H15N	2-(1-cyclohexenyl)ethylamine	3399-73-3	445.75	38.697	2	14886	C8H16	cis-1,4-dimethylcyclohexane	624-29-3	397.47	33.140	1,2
14783	C8H15N	N-tert-butylcrotonaldimine	6943-47-1	445.75	38.697	2	14887	C8H16	trans-1,4-dimethylcyclohexane	2207-04-7	392.51	32.477	1,2
14784	C8H15N	3-azabicyclo[3.2.2]nonane	283-24-9	445.75	38.697	2	14888	C8H16	cyclooctane	292-64-8	424.30	35.920	1,2
14785	C8H15N	1-(2-propenyl)piperidine	14446-67-4	425.15	36.741	1,2	14889	C8H16	methylcycloheptane	4126-78-7	407.15	35.039	1,2
14786	C8H15N	2-(aminomethyl)norbornane	14370-50-4	445.75	38.697	2	14890	C8H16	1-octene	111-66-0	394.44	34.387	1,2
14787	C8H15NO	1-acetyl-3-methylpiperidine	4593-16-2	512.15	45.053	1,2	14891	C8H16	oct-2-ene	111-67-1	398.05	34.182	1,2
14788	C8H15NO	2-hydroxy-3-methyl-2-isopropylbutanenitrile	4390-75-4	469.35	40.947	2	14892	C8H16	cis-2-octene	7642-04-8	398.79	34.450	1,2
14789	C8H15NO	2-hydroxy-2-propylpentanenitrile	5699-74-1	469.35	40.947	2	14893	C8H16	trans-2-octene	13389-42-9	398.15	33.668	1,2
14790	C8H15NO	1-(1-methyl-2-pyrrolidinyl)-2-propanone, (R)	496-49-1	469.35	40.947	2	14894	C8H16	cis-3-octene	14850-22-7	396.05	34.202	1,2
14791	C8H15NO	1-(2-piperidinyl)-1-propanone	97073-23-9	469.35	40.947	2	14895	C8H16	trans-3-octene	14919-01-8	396.45	33.673	1,2
14792	C8H15NO	1-(2-piperidinyl)-2-propanone, (R)	2858-66-4	468.15	40.833	1,2	14896	C8H16	oct-4-ene	592-99-4	398.00	34.177	1,2
14793	C8H15NO	8-methyl-8-azabicyclo[3.2.1]octan-3-ol, exo	135-97-7	514.15	45.245	1,2	14897	C8H16	cis-4-octene	7642-15-1	395.69	34.169	1,2
14794	C8H15NO	8-methyl-8-azabicyclo[3.2.1]octan-3-ol, endo	120-29-6	506.15	44.475	1,2	14898	C8H16	trans-4-octene	14850-23-8	395.41	33.715	1,2
14795	C8H15NO	2-azacyclononanone	935-30-8	469.35	40.947	2	14899	C8H16	2-methyl-1-heptene	15870-10-7	392.45	33.696	1,2
14796	C8H15NO	cyclooctanone oxime	1074-51-7	469.35	40.947	2	14900	C8H16	3-methyl-1-heptene	4810-09-7	384.15	32.909	1,2
14797	C8H15NO	5,6-dihydro-2,4,4,6-tetramethyl4H-1,3-oxazine	26939-18-4	469.35	40.947	2	14901	C8H16	4-methyl-1-heptene	13151-05-8	385.95	33.070	1,2
14798	C8H15NO	heptyl isocyanate	4747-81-3	469.35	40.947	2	14902	C8H16	5-methyl-1-heptene	13151-04-7	386.45	33.115	1,2
14799	C8H15NO	1-(1'-methylethyl)-4-piperidone	5355-68-0	469.35	40.947	2	14903	C8H16	6-methyl-1-heptene	5026-76-6	386.35	33.106	1,2
14800	C8H15NO	1-propyl-4-piperidone	23133-37-1	469.35	40.947	2	14904	C8H16	2-methyl-2-heptene	627-97-4	395.75	33.910	1,2
14801	C8H15NO	3,3,5,5-tetramethyl-1-pyrroline N-oxide	10135-38-3	346.15	29.323	1,2	14905	C8H16	3-methyl-cis-2-heptene	22768-19-0	395.15	33.856	1,2
14802	C8H15NO	1-diethylacetylaziridine	63019-57-8	469.35	40.947	2	14906	C8H16	3-methyl-trans-2-heptene	22768-20-3	395.15	33.856	1,2
14803	C8H15NO	1-hexanoylaziridine	45776-10-1	469.35	40.947	2	14907	C8H16	4-methyl-cis-2-heptene	66225-16-9	387.15	33.096	1,2
14806	C8H15NO2	trans-4-(aminomethyl)cyclohexanecarboxylic a*	1197-18-8	461.98	40.244	2	14908	C8H16	4-methyl-trans-2-heptene	66225-17-0	387.15	33.096	1,2
14807	C8H15NO2	4,4-diethoxybutanenitrile	18381-45-8	461.98	40.244	2	14909	C8H16	5-methyl-cis-2-heptene	24608-84-2	391.15	33.455	1,2
14808	C8H15NO2	2-(dimethylamino)ethyl methacrylate	2867-47-2	461.98	40.244	2	14910	C8H16	5-methyl-trans-2-heptene	24608-85-3	391.15	33.455	1,2
14809	C8H15NO2	ethyl 4-piperidinecarboxylate	1126-09-6	461.98	40.244	2	14911	C8H16	6-methyl-2-heptene	73548-72-8	390.15	33.809	1,2
14810	C8H15NO2	methyl 1-methyl-4-piperidinecarboxylate	1690-75-1	461.98	40.244	2	14912	C8H16	6-methyl-cis-2-heptene	66225-18-1	390.15	33.365	1,2
14811	C8H15NO2	2,3-octanedione 3-oxime	584-92-9	461.98	40.244	2	14913	C8H16	6-methyl-trans-2-heptene	51065-65-7	390.15	33.365	1,2
14812	C8H15NO2	N-tert-butylacetoacetamide	42222-06-0	461.98	40.244	2	14914	C8H16	6-methyl-3-heptene	3404-57-7	388.15	33.145	1,2
14813	C8H15NO2	tert-butyl N-allylcarbamate	78888-18-3	461.98	40.244	2	14915	C8H16	2-methyl-3-heptene	17618-76-7	385.15	32.185	1,2
14814	C8H15NO2	N,N-diethyl-3-oxobutanamide	2235-46-3	461.98	40.244	2	14916	C8H16	2-methyl-cis-3-heptene	20488-34-0	385.15	32.917	1,2
14815	C8H15NO2	3-(dimethylamino)propyl acrylate	18526-07-3	440.15	38.165	1,2	14917	C8H16	2-methyl-trans-3-heptene	692-96-6	385.15	32.917	1,2
14816	C8H15NO2	ethyl azetidine-1-propionate	7730-42-9	461.98	40.244	2	14918	C8H16	3-methyl-3-heptene	7300-03-0	394.15	35.199	1,2
14817	C8H15NO2	ethyl nipecotate	5006-62-2	461.98	40.244	2	14919	C8H16	3-methyl-cis-3-heptene	22768-17-8	394.15	33.766	1,2
14818	C8H15NO2	ethyl pipecolinate	15862-72-3	489.65	42.891	1,2	14920	C8H16	3-methyl-trans-3-heptene	22768-18-9	394.15	33.766	1,2
14819	C8H15NO2	ethyl 1-piperidinecarboxylate	5325-94-0	456.15	39.687	1,2	14921	C8H16	4-methyl-3-heptene	4485-16-9	394.15	35.199	1,2
14820	C8H15NO2	ethyl pyrrolidinoacetate	22041-19-6	461.98	40.244	2	14922	C8H16	4-methyl-cis-3-heptene	14255-24-4	395.15	33.856	1,2
14821	C8H15NO2	1-piperidinepropionic acid	26371-07-3	461.98	40.244	2	14923	C8H16	4-methyl-trans-3-heptene	13714-85-7	395.15	33.856	1,2
14822	C8H15NO2	N-(butoxymethyl)-2-propenamide	1852-16-0	461.98	40.244	2	14924	C8H16	5-methyl-3-heptene	13172-91-3	385.15	32.185	1,2
14823	C8H15NO2	cyclohexylamino acetic acid	58695-41-3	461.98	40.244	2	14925	C8H16	5-methyl-cis-3-heptene	50422-80-5	385.15	32.917	1,2
14824	C8H15NO2	N-isobutoxymethylacrylamide	16669-59-3	461.98	40.244	2	14926	C8H16	5-methyl-trans-3-heptene	53510-18-2	385.15	32.917	1,2
14825	C8H15NO2	2-nitro-2-octene	6065-11-8	475.00	41.487	2	14927	C8H16	6-methyl-cis-3-heptene	66225-19-2	388.15	33.186	1,2
14826	C8H15NO2	3-nitro-2-octene	6065-10-7	475.00	41.487	2	14928	C8H16	6-methyl-trans-3-heptene	66225-20-5	388.15	33.186	1,2
14827	C8H15NO2	3-nitro-3-octene	6065-09-4	475.00	41.487	2	14929	C8H16	2-ethyl-1-hexene	1632-16-2	393.15	34.113	1,2
14828	C8H15NO2	oxanamide	126-93-2	461.98	40.244	2	14930	C8H16	3-ethyl-1-hexene	3404-58-8	383.45	32.846	1,2
14836	C8H15NO4	boc-L-alanine	15761-38-3	472.15	41.215	2	14931	C8H16	4-ethyl-1-hexene	16746-85-3	383.15	32.819	1,2
14837	C8H15NO4	boc-D-alanine	7764-95-6	472.15	41.215	2	14932	C8H16	2,3-dimethyl-1-hexene	16746-86-4	383.65	32.610	1,2
14838	C8H15NO4	N-(tert-butoxycarbonyl)glycine methyl ester	31954-27-5	463.15	40.355	1,2	14933	C8H16	2,4-dimethyl-1-hexene	16746-87-5	384.35	32.673	1,2
14839	C8H15NO4	diethyl iminodiacetate	6290-05-7	481.15	42.076	1,2	14934	C8H16	2,5-dimethyl-1-hexene	6975-92-4	384.75	32.708	1,2
14840	C8H15NO4	2-(3-methyl-3-nitrobutyl)-1,3-dioxolane	57620-56-1	472.15	41.215	2	14935	C8H16	3,3-dimethyl-1-hexene	3404-77-1	377.15	31.678	1,2
14841	C8H15NO4	boc-sarcosine	13734-36-6	472.15	41.215	2	14936	C8H16	3,4-dimethyl-1-hexene	16745-94-1	385.15	32.704	1,2
14844	C8H15NS	heptyl thiocyanate	5416-94-4	508.15	44.668	1,2	14937	C8H16	3,5-dimethyl-1-hexene	7423-69-0	377.15	31.992	1,2
14845	C8H15NS	heptyl isothiocyanate	4426-83-9	508.15	44.668	1,2	14938	C8H16	4,4-dimethyl-1-hexene	1647-08-1	380.35	31.960	1,2
14846	C8H15N2O	2,2,4,5,5-pentamethyl-3-imidazoline-1-oxyl, *	39753-74-7	435.65	37.737	1,2	14939	C8H16	4,5-dimethyl-1-hexene	16106-59-5	382.15	32.437	1,2
14856	C8H15N5S	desmetryne	1014-69-3	618.15	55.344	1,2	14940	C8H16	5,5-dimethyl-1-hexene	7116-86-1	375.65	31.546	1,2
14861	C8H16	propylcyclopentane	2040-96-2	404.11	34.593	1,2	14941	C8H16	3-ethyl-cis-2-hexene	36880-72-5	394.15	33.766	1,2
14862	C8H16	isopropylcyclopentane	3875-51-2	399.57	33.895	1,2	14942	C8H16	3-ethyl-trans-2-hexene	66225-15-8	394.15	33.766	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
14943	C8H16	4-ethyl-cis-2-hexene	54616-49-8	386.15	33.007	1,2	15048	C8H16N2O3	N-butyl-(3-carboxy propyl)nitrosamine	38252-74-3	308.75	25.861	1,2
14944	C8H16	4-ethyl-trans-2-hexene	19781-63-6	386.15	33.007	1,2	15049	C8H16N2O3	ethyl-N-(4-morpholinomethyl)carbamate	58050-49-0	322.95	27.171	2
14945	C8H16	2,3-dimethyl-2-hexene	7145-20-2	394.92	33.575	1,2	15050	C8H16N2O3	4-(2-nitrobutyl)morpholine	2224-44-4	337.15	28.486	1,2
14946	C8H16	2,4-dimethyl-2-hexene	14255-23-3	383.75	32.540	1,2	15057	C8H16N2O4Se2	selenohomocystine	7776-33-2	387.65	33.203	1,2
14947	C8H16	2,5-dimethyl-2-hexene	3404-78-2	385.35	32.682	1,2	15059	C8H16N3OPS	bis(1-aziridinyl)(2-methyl-3-thiazolidinyl)p*	1078-79-1	370.15	31.562	1,2
14948	C8H16	3,4-dimethyl-cis-2-hexene	19550-81-3	389.15	33.020	1,2	15060	C8H16N4	1,3,6,8-tetraazatricyclo(4.4.1.13,8)dodecane	51-46-7	338.55	28.616	1,2
14949	C8H16	3,4-dimethyl-trans-2-hexene	19550-82-4	389.15	33.020	1,2	15062	C8H16O	2-ethylhexanal	123-05-7	433.80	40.653	1,2
14950	C8H16	3,5-dimethyl-cis-2-hexene	66225-31-8	385.15	32.664	1,2	15063	C8H16O	1-octanal	124-13-0	447.15	39.947	1,2
14951	C8H16	3,5-dimethyl-trans-2-hexene	66225-12-5	385.15	32.664	1,2	15064	C8H16O	5-methylheptanal	75579-88-3	435.14	37.689	2
14952	C8H16	4,4-dimethyl-cis-2-hexene	19550-83-5	379.15	31.778	1,2	15065	C8H16O	2-propylpentanal	18295-59-5	433.15	37.500	1,2
14953	C8H16	4,4-dimethyl-trans-2-hexene	---	379.15	31.778	1,2	15066	C8H16O	2-octanone	111-13-7	445.75	51.580	1,2
14954	C8H16	4,5-dimethyl-2-hexene	73548-71-7	383.15	31.567	1,2	15067	C8H16O	2,5-dimethyl-3-hexanone	1888-57-9	420.65	33.767	1,2
14955	C8H16	4,5-dimethyl-cis-2-hexene	65036-71-7	383.15	32.446	1,2	15068	C8H16O	2,2-dimethyl-3-hexanone	5405-79-8	419.15	33.333	1,2
14956	C8H16	4,5-dimethyl-trans-2-hexene	66225-14-7	383.15	32.446	1,2	15069	C8H16O	3,3-dimethyl-2-hexanone	26118-38-7	420.15	33.621	1,2
14957	C8H16	5,5-dimethyl-cis-2-hexene	39761-61-0	380.05	31.857	1,2	15070	C8H16O	3,4-dimethyl-2-hexanone	19550-10-8	431.15	37.046	1,2
14958	C8H16	5,5-dimethyl-trans-2-hexene	39782-43-9	377.25	31.610	1,2	15071	C8H16O	4,4-dimethyl-3-hexanone	19550-14-2	421.15	33.913	1,2
14959	C8H16	3-ethyl-3-hexene	16789-51-8	389.15	33.317	1,2	15072	C8H16O	3-ethyl-4-methyl-2-pentanone	71172-57-1	427.65	35.903	1,2
14960	C8H16	2,2-dimethyl-cis-3-hexene	690-92-6	378.58	31.727	1,2	15073	C8H16O	2-methyl-3-heptanone	13019-20-0	431.15	37.046	1,2
14961	C8H16	2,2-dimethyl-trans-3-hexene	690-93-7	374.00	31.325	1,2	15074	C8H16O	2-methyl-4-heptanone	626-33-5	427.15	35.744	1,2
14962	C8H16	2,3-dimethyl-cis-3-hexene	59643-75-3	387.15	32.842	1,2	15075	C8H16O	3-methyl-2-heptanone	2371-19-9	437.15	37.880	1,2
14963	C8H16	2,3-dimethyl-trans-3-hexene	66225-30-7	387.15	32.842	1,2	15076	C8H16O	3-methyl-4-heptanone	15726-15-5	426.15	35.429	1,2
14964	C8H16	2,4-dimethyl-cis-3-hexene	37549-89-6	382.15	32.397	1,2	15077	C8H16O	5-methyl-3-heptanone	541-85-5	435.14	38.416	2
14965	C8H16	2,4-dimethyl-trans-3-hexene	61847-78-7	380.75	32.273	1,2	15078	C8H16O	6-methyl-2-heptanone	928-68-7	440.15	38.165	1,2
14966	C8H16	2,5-dimethyl-cis-3-hexene	10557-44-5	375.15	31.736	1,2	15079	C8H16O	6-methyl-3-heptanone	624-42-0	437.15	37.880	1,2
14967	C8H16	2,5-dimethyl-trans-3-hexene	692-70-6	375.15	31.736	1,2	15080	C8H16O	3-octanone	106-68-3	440.65	38.212	1,2
14968	C8H16	3,4-dimethyl-cis-3-hexene	19550-87-9	395.15	33.596	1,2	15081	C8H16O	4-octanone	589-63-9	436.15	38.775	1,2
14969	C8H16	3,4-dimethyl-trans-3-hexene	19550-88-0	395.15	33.596	1,2	15082	C8H16O	2,2,4-trimethyl-3-pentanone	5857-36-3	408.25	30.410	1,2
14970	C8H16	2-propyl-1-pentene	15918-08-8	390.85	33.552	1,2	15083	C8H16O	cyclohexaneethanol	4442-79-9	481.15	42.076	1,2
14971	C8H16	2-isopropyl-1-pentene	16746-02-4	386.15	32.833	1,2	15084	C8H16O	cyclooctanol	696-71-9	435.14	37.689	2
14972	C8H16	3-methyl-2-ethyl-1-pentene	3404-67-9	384.65	32.700	1,2	15085	C8H16O	1-methylcycloheptanol	3761-94-2	456.65	39.735	1,2
14973	C8H16	4-methyl-2-ethyl-1-pentene	3404-80-6	383.45	32.593	1,2	15086	C8H16O	2-methylcycloheptanol	59777-92-3	464.15	40.451	1,2
14974	C8H16	2-methyl-3-ethyl-1-pentene	19780-66-6	383.15	32.566	1,2	15087	C8H16O	4-methylcycloheptanol	90200-61-6	435.14	37.689	2
14975	C8H16	3-methyl-3-ethyl-1-pentene	6196-60-7	385.15	32.383	1,2	15088	C8H16O	4-methylcyclohexanemethanol	34885-03-5	435.14	37.689	2
14976	C8H16	4-methyl-3-ethyl-1-pentene	61847-80-1	380.65	32.303	1,2	15089	C8H16O	alpha-methylcyclohexanemethanol	1193-81-3	462.15	40.260	1,2
14977	C8H16	2,3,3-trimethyl-1-pentene	560-23-6	381.46	31.816	1,2	15090	C8H16O	alpha-methylcyclohexanemethanol, (S)	3113-98-2	435.14	37.689	2
14978	C8H16	2,3,4-trimethyl-1-pentene	565-76-4	381.15	32.047	1,2	15091	C8H16O	cis-2-methylcyclohexanemethanol	3937-45-9	461.65	40.212	1,2
14979	C8H16	2,4,4-trimethyl-1-pentene	107-39-1	374.59	30.985	1,2	15092	C8H16O	trans-2-methylcyclohexanemethanol	3937-46-0	465.15	40.546	1,2
14980	C8H16	3,3,4-trimethyl-1-pentene	560-22-5	378.15	31.489	1,2	15093	C8H16O	2,2-diethyltetrahydrofuran	1193-35-7	419.15	36.173	1,2
14981	C8H16	3,4,4-trimethyl-1-pentene	564-03-4	377.15	31.401	1,2	15094	C8H16O	2,2,4,4-tetramethyltetrahydrofuran	3358-28-9	394.15	33.814	1,2
14982	C8H16	2-methyl-3-ethyl-2-pentene	19780-67-7	390.15	33.150	1,2	15095	C8H16O	2,2-dimethylcyclohexanol	1193-46-0	450.15	39.116	1,2
14983	C8H16	4-methyl-3-ethyl-cis-2-pentene	42067-48-1	389.15	33.020	1,2	15096	C8H16O	2,4-dimethylcyclohexanol	69542-91-2	450.65	39.163	1,2
14984	C8H16	4-methyl-3-ethyl-trans-2-pentene	42067-49-2	387.45	32.869	1,2	15097	C8H16O	2,6-dimethylcyclohexanol	5337-72-4	449.15	39.021	1,2
14985	C8H16	2,3,4-trimethyl-2-pentene	565-77-5	389.41	32.792	1,2	15098	C8H16O	3,3-dimethylcyclohexanol	767-12-4	458.15	39.878	1,2
14986	C8H16	2,4,4-trimethyl-2-pentene	107-40-4	378.06	31.927	1,2	15099	C8H16O	3,4-dimethylcyclohexanol	5715-23-1	462.15	40.260	1,2
14987	C8H16	3,4,4-trimethyl-cis-2-pentene	39761-64-3	385.15	32.063	1,2	15100	C8H16O	3,5-dimethylcyclohexanol	5441-52-1	460.15	40.069	1,2
14988	C8H16	3,4,4-trimethyl-trans-2-pentene	39761-57-4	385.15	32.063	1,2	15101	C8H16O	4,4-dimethylcyclohexanol	932-01-4	459.15	39.973	1,2
14989	C8H16	3,4,4-trimethyl-2-pentene	598-96-9	385.15	32.185	1,2	15102	C8H16O	cis-1,2-dimethylcyclohexanol	19879-11-9	435.14	37.689	2
14990	C8H16	2,4,4-trimethylpentene	25167-70-8	376.15	29.535	1,2	15103	C8H16O	trans-1,2-dimethyl cyclohexanol	19879-12-0	435.14	37.689	2
14991	C8H16	3-methyl-2-isopropyl-1-butene	111823-35-9	377.15	31.747	1,2	15104	C8H16O	cis-1,3-dimethylcyclohexanol	15466-94-1	435.14	37.689	2
14992	C8H16	3,3-dimethyl-2-ethyl-1-butene	18231-53-3	383.15	31.964	1,2	15105	C8H16O	trans-1,3-dimethylcyclohexanol	15466-93-0	435.14	37.689	2
14994	C8H16Br2	1,1-dibromooctane	62168-26-7	515.15	49.048	1,2	15106	C8H16O	cis-1,4-dimethylcyclohexanol	16980-61-3	435.14	37.689	2
14995	C8H16Br2	1,2-dibromooctane	6269-92-7	514.15	45.245	1,2	15107	C8H16O	2,2-dimethyl-4-hexen-3-ol	37674-67-2	435.14	37.689	2
14996	C8H16Br2	1,4-dibromooctane	70690-24-3	524.48	46.241	2	15108	C8H16O	2,5-dimethyl-4-hexen-3-ol	60703-31-3	435.15	37.690	1,2
14997	C8H16Br2	1,5-dibromooctane	17912-17-3	524.48	46.241	2	15109	C8H16O	3,5-dimethyl-1-hexen-3-ol	3329-48-4	419.65	36.221	1,2
14998	C8H16Br2	1,8-dibromooctane	4549-32-0	544.15	48.142	1,2	15110	C8H16O	3,5-dimethyl-4-hexen-3-ol	1569-43-3	435.14	37.689	2
14999	C8H16Br2	4,5-dibromooctane	61539-75-1	524.48	46.241	2	15111	C8H16O	2-methyl-3-hepten-2-ol	116668-45-2	435.14	37.689	2
15003	C8H16ClO2PS	2-chloro-5-ethyl-4-propyl-2-thiono-1,3,2-dio*	10140-94-0	347.85	29.481	1,2	15112	C8H16O	2-methyl-4-hepten-2-ol	116668-44-1	435.14	37.689	2
15005	C8H16Cl2	1,1-dichlorooctane	20395-24-8	481.15	43.042	1,2	15113	C8H16O	2-methyl-6-hepten-2-ol	77437-98-0	435.14	37.689	2
15006	C8H16Cl2	2,5-dichloro-2,5-dimethylhexane	6223-78-5	491.48	43.066	2	15114	C8H16O	3-methyl-4-hepten-3-ol	4048-30-0	435.14	37.689	2
15007	C8H16Cl2	1,8-dichlorooctane	2162-99-4	514.15	45.245	1,2	15115	C8H16O	3-methyl-6-hepten-1-ol	4048-32-2	435.14	37.689	2
15008	C8H16Cl2	2,3-dichlorooctane	21948-47-0	479.15	41.884	1,2	15116	C8H16O	4-methyl-1-hepten-4-ol	1186-31-8	432.65	37.453	1,2
15009	C8H16Cl2O	4-chlorobutyl ether	6334-96-9	400.05	34.370	1,2	15117	C8H16O	4-methyl-4-hepten-3-ol	81280-12-8	435.14	37.689	2
15010	C8H16Cl2OS2	2-2'-di(3-chloroethylthio)diethyl ether	63918-89-8	336.15	28.394	1,2	15118	C8H16O	5-methyl-2-hepten-4-ol	4048-31-1	435.14	37.689	2
15011	C8H16Cl2S	bis(2-chloromethyl-2-propyl)sulfide	52444-01-6	391.15	33.532	1,2	15119	C8H16O	6-methyl-2-hepten-4-ol	4798-62-3	435.14	37.689	2
15016	C8H16F2	1,1-difluorooctane	61350-03-6	415.15	36.361	1,2	15120	C8H16O	6-methyl-5-hepten-2-ol	1569-60-4	448.15	38.925	1,2
15017	C8H16I2	1,1-diiodooctane	66225-22-7	568.28	51.012	2	15121	C8H16O	1-octen-4-ol	40575-42-6	445.15	38.640	1,2
15018	C8H16I2	1,8-diiodooctane	24772-63-2	568.28	50.482	2	15122	C8H16O	2-octen-1-ol	22104-78-5	435.14	37.689	2
15021	C8H16NO3PS2	2-(diethoxyphosphinylimino)-4-methyl-1,3-dit*	950-10-7	420.65	36.315	1,2	15123	C8H16O	2-octen-4-ol	4798-61-2	448.15	38.925	1,2
15023	C8H16NO5P	dicrotophos	141-66-2	673.15	60.745	1,2	15124	C8H16O	4-octen-1-ol	67700-26-9	467.15	40.737	1,2
15024	C8H16NO6P	3-(dimethoxyphosphinyloxy)-N-methyl-N-methox*	25601-84-7	436.65	37.832	1,2	15125	C8H16O	5-octen-1-ol	90200-83-2	435.14	37.689	2
15025	C8H16N2	2-butanone (1-methylpropylidene)hydrazone	5921-54-0	444.65	38.592	1,2	15126	C8H16O	2-(2,2-dimethylpropyl)-2-methyloxirane	107-48-2	414.05	35.691	1,2
15026	C8H16N2	4-diethylaminobutyronitrile	5336-75-4	444.65	38.592	2	15127	C8H16O	1-ethylcyclohexanol	1940-18-7	439.15	38.070	1,2
15030	C8H16N2OS2	diethyldithiocarbamic acid anhydrosulfide wi*	69654-93-9	352.72	29.934	1,2	15128	C8H16O	4-ethylcyclohexanol	4534-74-1	435.14	37.689	2
15032	C8H16N2O2	ethyl 4-amino-1-piperidinecarboxylate	58859-46-4	317.85	26.700	2	15129	C8H16O	cis-2-ethylcyclohexanol, (±)	116697-35-9	454.15	39.497	1,2
15034	C8H16N2O2	N-butyl-N-(2-oxobutyl)nitrosamine	61734-89-2	317.85	26.700	2	15130	C8H16O	trans-2-ethylcyclohexanol, (±)	89886-25-9	435.14	37.689	2
15035	C8H16N2O2	N-butyl-N-(3-oxobutyl)nitrosamine	61734-90-5	317.85	26.700	1,2	15131	C8H16O	hexyl vinyl ether	5363-64-4	416.15	35.890	1,2
15036	C8H16N2O2	N-nitroso-N-butylbutyramide	78455-93-3	317.85	26.700	2	15132	C8H16O	cis-2-propylcyclopentanol	25172-42-3	435.14	37.689	2
15045	C8H16N2O3	N-DL-leucylglycine	615-82-7	322.95	27.171	2	15133	C8H16O	trans-2-propylcyclopentanol	25172-43-4	435.14	37.689	2
15046	C8H16N2O3	1-acetoxy-N-nitrosodipropylamine	53198-41-7	322.95	27.171	2	15134	C8H16O	1-propylcyclopentanol	1604-02-0	446.65	38.783	1,2
15047	C8H16N2O3	n-amyl-N-nitrosourethane	64005-62-5	322.95	27.171	2	15135	C8H16O	1,2,2-trimethylcyclopentanol	1121-95-5	429.15	37.121	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
15136	C8H16O	1,2,4-trimethylcyclopentanol	34103-97-4	431.15	37.310	1,2	15221	C8H16O3	2,2-dimethoxycyclohexanol	63703-34-4	448.69	38.977	2
15137	C8H16O	1,2,5-trimethylcyclopentanol	33840-38-9	435.14	37.689	2	15222	C8H16O3	3-[(4S)-2,2-dimethyl-1,3-dioxolan-4-yl]-prop*	51268-87-2	448.69	38.977	2
15138	C8H16O	3-cyclopentyl-1-propanol	767-05-5	435.14	37.689	2	15223	C8H16O3	ethyl DL-2-hydroxycaproate	6946-90-3	468.15	40.833	1,2
15139	C8H16O	1,2-epoxyoctane	2984-50-1	335.90	28.370	1,2	15224	C8H16O3	ethyl 4-ethoxybutyrate	26448-91-9	457.65	39.830	1,2
15140	C8H16O	(R)-(+)-1,2-epoxyoctane	77495-66-0	435.14	37.689	2	15225	C8H16O3	ethyl 2-hydroxyhexanoate	52089-55-1	468.15	40.833	1,2
15141	C8H16O	2-ethylcyclohexanol	3760-20-1	435.14	37.689	2	15226	C8H16O3	ethyl 6-hydroxyhexanoate	5299-60-5	448.69	38.977	2
15142	C8H16O	DL-6-methyl-5-hepten-2-ol	4630-06-2	435.14	37.689	2	15227	C8H16O3	8-hydroxyoctanoic acid	764-89-6	448.69	38.977	2
15143	C8H16O	trans-2-octen-1-ol	18409-17-1	435.14	37.689	2	15228	C8H16O3	2,5-diethoxytetrahydrofuran	3320-90-9	443.70	38.502	1,2
15144	C8H16O	1-octen-3-ol	3391-86-4	435.14	37.689	2	15229	C8H16O3	tert-butyl perisobutyrate	109-13-7	341.45	28.886	1,2
15145	C8H16O	(R)-(-)-1-octen-3-ol	3687-48-7	435.14	37.689	2	15230	C8H16O3	diethylene glycol ethylvinyl ether	10143-53-0	448.69	38.977	2
15146	C8H16O	2,2,5,5-tetramethyltetrahydrofuran	15045-43-9	384.70	32.926	1,2	15232	C8H16O4	diethylene glycol ethyl ether acetate	112-15-2	490.55	47.410	1,2
15147	C8H16O	3-ethyl-3-methyl-2-pentanone	19780-65-5	426.60	35.570	1,2	15233	C8H16O4	ethyl diethoxyacetate	6065-82-3	472.15	41.215	1,2
15148	C8H16O	5-methyl-2-heptanone	18217-12-4	437.00	37.865	1,2	15234	C8H16O4	fumaraldehyde bis(dimethyl acetal)	6068-62-8	481.35	42.095	2
15149	C8H16O	2,5-diethyltetrahydrofuran	41239-48-9	435.14	37.689	2	15235	C8H16O4	lithium ionophore v	294-93-9	481.35	42.095	2
15150	C8H16O	diisobutylene oxide	63919-00-6	435.14	37.689	2	15237	C8H16O4	methyl 5,5-dimethoxyvalerate	23068-91-9	481.35	42.095	2
15151	C8H16O	6-methyl-6-hepten-2-ol	1335-09-7	374.25	31.946	1,2	15238	C8H16O4	1,1,3,3-tetramethoxycyclobutane	152897-19-3	481.35	42.095	2
15152	C8H16OS	vinyl 2-(butylmercaptoethyl) ether	6607-49-4	355.15	30.161	1,2	15240	C8H16O4S2	trans-1,2-bis(n-propylsulfonyl)ethylene	1113-14-0	355.65	30.207	1,2
15153	C8H16OSi	1-cyclopropyl-1-(trimethylsilyloxy)ethylene	42161-96-6	388.65	33.297	2	15242	C8H16O5	2-[2-(2-methoxyethoxy)ethoxy]-1,3-dioxolane	74733-99-6	369.15	31.468	1,2
15154	C8H16OSi	[(1,1-dimethyl-2-propynyl)oxy]trimethylsilane	17869-77-1	388.65	33.297	1,2	15243	C8H16S	thiacyclononane	6007-54-1	493.15	42.538	1,2
15155	C8H16OSi	1-(trimethylsiloxy)cyclopentene	19980-43-9	388.65	33.297	2	15244	C8H16Si	diallyldimethylsilane	1113-12-8	410.15	35.323	1,2
15156	C8H16O2	octanoic acid	124-07-2	513.05	56.310	1,2	15245	C8H16Si	(tert-butyldimethylsilyl)acetylene	86318-61-8	389.65	33.391	1,2
15157	C8H16O2	2-ethylhexanoic acid	149-57-5	501.15	43.995	1,2	15246	C8H16Si	(triethylsilyl)acetylene	1777-03-3	409.15	35.228	1,2
15158	C8H16O2	3-ethylhexanoic acid	41065-91-2	436.35	30.181	2	15247	C8H16Si	1-trimethylsilyl-1-pentyne	18270-17-2	408.15	35.134	1,2
15159	C8H16O2	heptyl formate	112-23-2	451.25	40.488	1,2	15248	C8H17Br	1-bromooctane	111-83-1	473.95	43.384	1,2
15160	C8H16O2	hexyl acetate	142-92-7	444.65	41.312	1,2	15249	C8H17Br	2-bromooctane, (±)-	60251-57-2	461.65	40.738	1,2
15161	C8H16O2	1,1-dimethylbutyl acetate	34859-98-8	426.15	35.784	1,2	15250	C8H17Br	2-ethylhexyl bromide	18908-66-2	467.80	40.799	2
15162	C8H16O2	2-ethylbutyl acetate	10031-87-5	435.65	37.737	1,2	15252	C8H17Cl	1-chlorooctane	111-85-3	456.62	40.527	1,2
15163	C8H16O2	sec-hexyl acetate	108-84-9	420.65	34.061	1,2	15253	C8H17Cl	2-chloro-2,5-dimethylhexane	29342-44-7	442.45	36.380	2
15164	C8H16O2	2-methyl-1-pentyl acetate	7789-99-3	436.15	37.785	1,2	15254	C8H17Cl	3-chloro-2,3-dimethylhexane	101654-30-2	442.45	36.380	2
15165	C8H16O2	2-methyl-3-pentyl acetate	35897-16-6	422.15	34.519	1,2	15255	C8H17Cl	2-chloro-2-methylheptane	4325-49-9	442.45	36.380	2
15166	C8H16O2	3-methyl-3-pentyl acetate	10250-47-2	421.15	34.213	1,2	15256	C8H17Cl	2-chloro-6-methylheptane	2350-19-8	442.45	36.380	2
15167	C8H16O2	pentyl propanoate	624-54-4	441.90	39.174	1,2	15257	C8H17Cl	3-chloro-3-methylheptane	5272-02-6	442.45	36.380	2
15168	C8H16O2	1-methylbutyl propanoate	54004-43-2	440.22	42.198	2	15258	C8H17Cl	4-chloro-4-methylheptane	61764-94-1	442.45	36.380	2
15169	C8H16O2	2-methylbutyl propanoate	2438-20-2	440.22	40.577	2	15259	C8H17Cl	3-(chloromethyl)heptane	123-04-6	445.15	37.250	1,2
15170	C8H16O2	isopentyl propanoate	105-68-0	432.65	38.443	1,2	15260	C8H17Cl	2-chlorooctane	628-61-5	445.15	37.250	1,2
15171	C8H16O2	1-ethylpropyl propanoate	---	440.22	42.440	2	15261	C8H17Cl	2-chloro-2,4,4-trimethylpentane	6111-88-2	445.15	37.250	2
15172	C8H16O2	1,1-dimethylpropyl propanoate	34949-22-9	437.43	42.772	2	15262	C8H17Cl	(S)-2-chlorooctane	16844-08-9	442.45	36.380	2
15173	C8H16O2	1,2-dimethylpropyl propanoate	66576-70-3	439.78	42.797	2	15263	C8H17Cl	(<+->)-2-chlorooctane	51261-14-4	445.20	37.266	1,2
15174	C8H16O2	2,2-dimethylpropyl propanoate	3581-69-9	437.43	41.622	2	15264	C8H17Cl	2-ethylhexyl-6-chloride	2350-24-5	442.45	36.380	2
15175	C8H16O2	butyl butanoate	109-21-7	438.15	40.285	1,2	15270	C8H17Cl2N	2,2'-dichloro-N-butyldiethylamine	42520-97-8	430.15	37.215	1,2
15176	C8H16O2	isobutyl butanoate	539-90-2	430.05	37.627	1,2	15271	C8H17Cl3Si	trichlorooctylsilane	5283-66-9	505.15	44.379	1,2
15177	C8H16O2	isobutyl isobutyrate	97-85-8	420.65	37.682	1,2	15272	C8H17Cl3Sn	octyltrichlorostannane	3091-25-6	558.15	49.498	1,2
15178	C8H16O2	sec-butyl butanoate	819-97-6	425.15	38.214	1,2	15273	C8H17F	1-fluorooctane	463-11-6	415.45	36.795	1,2
15179	C8H16O2	tert-butyl butanoate	2308-38-5	409.15	36.391	1,2	15276	C8H17I	1-iodooctane	629-27-6	498.26	51.102	1,2
15180	C8H16O2	sec-butyl butanoate, (S)	116836-55-6	425.15	36.741	1,2	15277	C8H17I	2-iodooctane, (±)	36049-78-2	483.15	42.268	1,2
15181	C8H16O2	tert-butyl 2-methylpropanoate	16889-72-8	399.85	30.470	1,2	15278	C8H17I	2-ethylhexyl iodide	1653-16-3	490.71	42.992	2
15182	C8H16O2	1,3-cyclohexanedimethanol	3971-28-6	378.65	32.358	1,2	15279	C8H17I	2-octyl iodide	557-36-8	490.71	42.992	2
15183	C8H16O2	1,4-cyclohexanedimethanol	105-08-8	556.15	49.304	1,2	15280	C8H17N	1-butylpyrrolidine	767-10-2	427.65	36.978	1,2
15184	C8H16O2	1,1-diethoxy-2-butene	10602-34-3	420.65	36.315	1,2	15281	C8H17N	2-butylpyrrolidine	3446-98-8	447.15	38.830	1,2
15185	C8H16O2	ethyl hexanoate	123-66-0	440.15	38.165	1,2	15282	C8H17N	cyclohexyldimethylamine	98-94-2	435.15	37.690	1,2
15186	C8H16O2	ethyl 4-methylpentanoate	25415-67-2	436.15	37.785	1,2	15283	C8H17N	cyclohexylethylamine	5459-93-8	437.15	37.880	1,2
15187	C8H16O2	4-hydroxy-3-methyl-2-heptanone	56072-27-6	436.35	37.804	2	15284	C8H17N	cyclooctanamine	5452-37-9	463.15	40.355	1,2
15188	C8H16O2	5-hydroxy-5-methyl-3-heptanone	39121-37-4	460.15	40.069	1,2	15285	C8H17N	N,4-dimethylcyclohexylamine	90226-23-6	469.15	40.928	1,2
15189	C8H16O2	5-hydroxy-4-octanone	496-77-5	458.15	39.878	1,2	15286	C8H17N	2-ethylcyclohexanamine	6850-36-8	443.65	38.497	1,2
15190	C8H16O2	3-hydroxy-2,2,4-trimethylpentanal	918-79-6	436.35	37.804	2	15287	C8H17N	1-isopropylpiperidine	766-79-0	422.65	36.505	1,2
15191	C8H16O2	isopropyl 3-methylbutanoate	32665-23-9	415.15	35.160	1,2	15288	C8H17N	1-propylpiperidine	5470-02-0	424.65	36.694	1,2
15192	C8H16O2	isopropyl pentanoate	18362-97-5	436.35	37.804	2	15289	C8H17N	2-propylpiperidine, (S)	458-88-8	439.65	38.117	1,2
15193	C8H16O2	propyl 3-methylbutanoate	557-00-6	429.05	37.111	1,2	15290	C8H17N	4-propylpiperidine	22398-09-0	449.15	39.021	1,2
15194	C8H16O2	propyl pentanoate	141-06-0	440.65	38.212	1,2	15291	C8H17N	2,2,4-trimethylpiperidine	101257-71-0	421.15	36.363	1,2
15195	C8H16O2	methyl heptanoate	106-73-0	447.15	38.830	1,2	15292	C8H17N	2,3,6-trimethylpiperidine	50402-72-7	440.81	38.227	2
15196	C8H16O2	3-butenal diethyl acetal	10602-36-5	436.35	37.804	2	15293	C8H17N	2,4,6-trimethylpiperidine	21974-48-1	418.15	36.079	1,2
15197	C8H16O2	trans-2-butenal diethyl acetal	63511-92-2	421.15	36.363	1,2	15294	C8H17N	octahydro-1H-azonine	5661-71-2	440.81	38.227	2
15198	C8H16O2	2-butoxytetrahydrofuran	1927-59-9	436.35	37.804	2	15295	C8H17N	(S)-(+)-1-cyclohexylethylamine	17430-98-7	440.81	38.227	2
15199	C8H16O2	trans-1,4-cyclohexanedimethanol	3236-48-4	436.35	37.804	2	15296	C8H17N	2,3-dimethylcyclohexylamine	42195-92-6	432.15	37.405	1,2
15200	C8H16O2	cyclohexanone dimethyl ketal	933-40-4	327.15	27.560	1,2	15297	C8H17N	R-(-)-cyclohexylethylamine	5913-13-3	440.81	38.227	2
15201	C8H16O2	cis-1,5-cyclooctanediol	23418-82-8	436.35	37.804	2	15298	C8H17N	4-(1-methylethyl)piperidine	19678-58-1	442.70	38.407	1,2
15202	C8H16O2	ethylene glycol butyl vinyl ether	4223-11-4	436.35	37.804	2	15299	C8H17N	cyclohexaneethylamine	4442-85-7	440.81	38.227	2
15203	C8H16O2	(R)-(+)-glycidyl pentyl ether	121906-42-1	436.35	37.804	2	15300	C8H17N	5-ethyl-2-methylpiperidine	104-89-2	440.81	38.227	2
15204	C8H16O2	2-methylheptanoic acid	1188-02-9	436.35	30.181	2	15301	C8H17N	N-methyl-N-(cyclohexylmethyl) amine	25756-29-0	440.81	38.227	2
15205	C8H16O2	2-propylpentanoic acid	99-66-1	494.15	43.322	1,2	15302	C8H17N	2,2,5,5-tetramethylpyrrolidine	4567-22-0	479.65	41.932	1,2
15206	C8H16O2	2,2,4,4-tetramethyl-1,3-cyclobutanediol, iso*	3010-96-6	485.65	42.507	1,2	15305	C8H17N3O2	1-heptyl-1-nitrosourea	24346-78-9	461.15	40.164	1,2
15207	C8H16O2	butyl isobutyrate	97-87-0	436.35	37.804	2	15306	C8H17N3O3	1-(L-a-glutamyl)-2-isopropylhydrazine	60762-50-7	433.15	37.500	1,2
15208	C8H16O2	2-ethoxy-4-methyl-tetrahydropyran	25724-34-9	350.30	29.709	1,2	15308	C8H17NO	4-butylmorpholine	1005-67-0	486.65	42.603	1,2
15209	C8H16O2	trans-2-hexenal dimethyl acetal	18318-83-7	436.35	37.804	2	15309	C8H17NO	4-(diethylamino)-2-butanone	3299-38-5	472.28	41.227	2
15211	C8H16O2S2	ethyl bis(ethylthio)acetate	20461-95-4	343.15	29.044	1,2	15310	C8H17NO	N,N-diethylbutanamide	1114-76-7	479.15	41.884	1,2
15216	C8H16O3	2-hydroxyoctanoic acid	617-73-2	448.69	38.977	2	15311	C8H17NO	3-(dimethylamino)cyclohexanol	6890-03-5	504.15	44.283	1,2
15217	C8H16O3	isobutyl 2-hydroxybutanoate	116723-95-6	469.15	40.928	1,2	15312	C8H17NO	N,N-dipropylacetamide	1116-24-1	482.65	42.220	1,2
15218	C8H16O3	isopentyl lactate	19329-89-6	475.55	41.540	1,2	15313	C8H17NO	octanal oxime	929-55-5	472.28	41.227	2
15219	C8H16O3	pentyl lactate	6382-06-5	448.69	38.977	2	15314	C8H17NO	octanamide	629-01-6	512.15	45.053	1,2
15220	C8H16O3	2-butoxyethyl acetate	112-07-2	465.70	40.599	1,2	15315	C8H17NO	trans-6-propyl-3-piperidinol, (3S)	140-55-6	509.15	44.764	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
15316	C8H17NO	conhydrine	495-20-5	499.15	43.802	1,2	15432	C8H18O	2-octanol, (±)	4128-31-8	453.15	39.402	1,2
15317	C8H17NO	N,N-diisopropylacetamide	759-22-8	469.15	40.928	1,2	15433	C8H18O	3-octanol	589-98-0	447.85	44.904	1,2
15318	C8H17NO	2-(hexamethyleneimino)ethanol	20603-00-3	472.28	41.227	2	15434	C8H18O	4-octanol	589-62-8	449.75	45.102	1,2
15319	C8H17NO	N-isobutylmorpholine	10315-98-7	454.15	39.497	1,2	15435	C8H18O	4-octanol, (±)	74778-22-6	449.45	39.049	1,2
15320	C8H17NO	a-methyl-1-piperidineethanol	934-90-7	465.65	40.594	1,2	15436	C8H18O	2-methyl-1-heptanol	60435-70-3	448.75	44.998	1,2
15321	C8H17NO	2-(cyclohexylamino)ethanol	2842-38-8	397.15	34.097	1,2	15437	C8H18O	3-methyl-1-heptanol	1070-32-2	459.15	46.084	1,2
15322	C8H17NO	N,N-dimethylhexanamide	5830-30-8	408.15	35.134	1,2	15438	C8H18O	4-methyl-1-heptanol	817-91-4	456.35	45.792	1,2
15323	C8H17NO	2-octanone, oxime	7207-49-0	472.28	41.227	2	15439	C8H18O	5-methyl-1-heptanol	7212-53-5	459.75	46.147	1,2
15324	C8H17NO	ethyl 2-methylbutyl ketoxine	22457-23-4	472.28	41.227	2	15440	C8H18O	6-methyl-1-heptanol	1653-40-3	460.85	46.262	1,2
15325	C8H17NO	2-ethyl-3-methylvaleramide	4171-13-5	472.28	41.227	2	15441	C8H18O	2-methyl-2-heptanol	625-25-2	429.85	42.132	1,2
15326	C8H17NO	N-2-hydroxyethyl-3,4-dimethylazolidin	63886-56-6	472.28	41.227	2	15442	C8H18O	3-methyl-2-heptanol	31367-46-1	439.25	43.571	1,2
15327	C8H17NO	2-propylvaleramide	2430-27-5	472.28	41.227	2	15443	C8H18O	4-methyl-2-heptanol	56298-90-9	444.75	44.140	1,2
15328	C8H17NO2	1-nitrooctane	629-37-8	505.15	47.973	1,2	15444	C8H18O	5-methyl-2-heptanol	54630-50-1	445.05	44.171	1,2
15330	C8H17NO2	4-(2-ethoxyethyl)morpholine	622-09-3	479.15	41.884	1,2	15445	C8H18O	6-methyl-2-heptanol	4730-22-7	445.05	44.171	1,2
15331	C8H17NO2	ethyl isopentylcarbamate	1611-52-5	491.15	43.034	1,2	15446	C8H18O	2-methyl-3-heptanol	18720-62-2	440.75	43.726	1,2
15332	C8H17NO2	2-nitrooctane, (±)	116836-12-5	480.78	41.677	2	15447	C8H18O	3-methyl-3-heptanol	5582-82-1	434.15	42.572	1,2
15333	C8H17NO2	octyl nitrite	629-46-9	447.65	38.878	1,2	15448	C8H18O	4-methyl-3-heptanol	14979-39-6	428.55	42.466	1,2
15337	C8H17NO2	(R,R)-(-)-2,5-bis(methoxymethyl)pyrrolidine	90290-05-4	480.78	42.040	2	15449	C8H18O	5-methyl-3-heptanol	18720-65-5	426.75	42.280	1,2
15338	C8H17NO2	(S,S)-(+)-2,5-bis(methoxymethyl)pyrrolidine	93621-94-4	480.78	42.040	2	15450	C8H18O	6-methyl-3-heptanol	18720-66-6	433.00	42.925	2
15339	C8H17NO2	3-piperidino-1,2-propanediol	4847-93-2	480.78	42.040	2	15451	C8H18O	2-methyl-4-heptanol	21570-35-4	439.25	43.571	1,2
15340	C8H17NO2	ethyl-L-leucinate	2743-60-4	480.78	42.040	2	15452	C8H18O	3-methyl-4-heptanol	1838-73-9	437.85	43.426	1,2
15341	C8H17NO3	octyl nitrate	629-39-0	470.00	41.009	2	15453	C8H18O	4-methyl-4-heptanol	598-01-6	434.25	42.582	1,2
15352	C8H17O5P	triethyl phosphonoacetate	867-13-0	534.15	47.175	1,2	15454	C8H18O	2-ethyl-1-hexanol	104-76-7	457.75	50.804	1,2
15354	C8H18	octane	111-65-9	398.83	34.766	1,2	15455	C8H18O	3-ethyl-1-hexanol	41065-95-6	453.00	45.442	2
15355	C8H18	2-methylheptane	592-27-8	390.80	33.436	1,2	15456	C8H18O	4-ethyl-1-hexanol	---	453.00	45.442	2
15356	C8H18	3-methylheptane	589-81-1	392.08	34.038	1,2	15457	C8H18O	2,2-dimethyl-1-hexanol	2370-13-0	445.65	43.748	1,2
15357	C8H18	4-methylheptane	589-53-7	390.86	33.877	1,2	15458	C8H18O	2,3-dimethyl-1-hexanol	---	447.00	44.372	2
15358	C8H18	3-methyl-3-ethylpentane	1067-08-9	391.42	32.807	1,2	15459	C8H18O	2,4-dimethyl-1-hexanol	3965-59-1	448.15	44.491	1,2
15359	C8H18	3-ethylhexane	619-99-8	391.69	33.689	1,2	15460	C8H18O	2,5-dimethyl-1-hexanol	6886-16-4	452.15	44.905	1,2
15360	C8H18	3-ethyl-2-methylpentane	609-26-7	388.81	32.966	1,2	15461	C8H18O	3,3-dimethyl-1-hexanol	10524-70-6	454.00	44.603	2
15361	C8H18	2,2-dimethylhexane	590-73-8	379.99	32.366	1,2	15462	C8H18O	3,4-dimethyl-1-hexanol	---	454.00	45.097	2
15362	C8H18	2,3-dimethylhexane	584-94-1	388.76	33.180	1,2	15463	C8H18O	3,5-dimethyl-1-hexanol	13501-73-0	456.15	45.319	1,2
15363	C8H18	2,4-dimethylhexane	589-43-5	382.58	32.475	1,2	15464	C8H18O	4,4-dimethyl-1-hexanol	6481-95-4	455.00	44.705	2
15364	C8H18	2,5-dimethylhexane	592-13-2	382.26	32.731	1,2	15465	C8H18O	4,5-dimethyl-1-hexanol	---	455.00	45.200	2
15365	C8H18	3,3-dimethylhexane	563-16-6	385.12	32.639	1,2	15466	C8H18O	5,5-dimethyl-1-hexanol	2768-18-5	455.00	44.705	2
15366	C8H18	3,4-dimethylhexane	583-48-2	390.88	33.309	1,2	15467	C8H18O	3-ethyl-2-hexanol	24448-19-9	441.15	43.767	1,2
15367	C8H18	2,2,3-trimethylpentane	564-02-3	383.00	32.157	1,2	15468	C8H18O	4-ethyl-2-hexanol	---	441.00	43.752	2
15368	C8H18	2,2,4-trimethylpentane	540-84-1	372.39	31.020	1,2	15469	C8H18O	2,3-dimethyl-2-hexanol	19550-03-9	433.25	42.062	1,2
15369	C8H18	2,3,3-trimethylpentane	560-21-4	387.92	32.398	1,2	15470	C8H18O	2,4-dimethyl-2-hexanol	42328-76-7	423.85	41.110	1,2
15370	C8H18	2,3,4-trimethylpentane	565-75-3	386.62	32.622	1,2	15471	C8H18O	2,5-dimethyl-2-hexanol	3730-60-7	425.65	41.293	1,2
15371	C8H18	2,2,3,3-tetramethylbutane	594-82-1	379.60	31.422	1,2	15472	C8H18O	3,3-dimethyl-2-hexanol	22025-20-3	433.00	42.036	2
15372	C8H18	octane, mixture	---	376.22	29.570	1,2	15473	C8H18O	3,4-dimethyl-2-hexanol	19550-05-1	444.15	43.643	1,2
15380	C8H18Cl2Ge	dibutylgermanium dichloride	4593-81-1	515.15	45.342	1,2	15474	C8H18O	3,5-dimethyl-2-hexanol	66576-27-0	433.15	42.517	1,2
15383	C8H18Cl2Si	di-tert-butyldichlorosilane	18395-90-9	463.15	40.355	1,2	15475	C8H18O	4,4-dimethyl-2-hexanol	---	435.00	42.239	2
15384	C8H18Cl2Sn	di-tert-butyltin dichloride	19429-30-2	339.15	28.672	1,2	15476	C8H18O	4,5-dimethyl-2-hexanol	---	435.00	42.706	2
15385	C8H18Cl2Sn	dibutyltin dichloride	683-18-1	408.15	35.134	1,2	15477	C8H18O	5,5-dimethyl-2-hexanol	31841-77-7	439.15	42.659	1,2
15388	C8H18F2Sn	dibutyldifluorostannane	563-25-7	421.85	36.429	1,2	15478	C8H18O	3-ethyl-3-hexanol	597-76-2	432.15	42.367	1,2
15391	C8H18Hg	dibutylmercury	629-35-6	496.15	43.514	1,2	15479	C8H18O	4-ethyl-3-hexanol	19780-44-0	437.15	43.354	1,2
15392	C8H18Hg	di-sec-butylmercury	691-88-3	496.15	43.514	2	15480	C8H18O	2,2-dimethyl-3-hexanol	4209-90-9	429.25	41.657	1,2
15395	C8H18NO	di-tert-butyl nitroxide	2406-25-9	363.90	30.978	1,2	15481	C8H18O	2,3-dimethyl-3-hexanol	4166-46-5	431.35	41.869	1,2
15397	C8H18NO4PS2	N-methyl-O,O-dimethylthiolophosphoryl-5-thia*	2275-23-2	345.95	29.304	1,2	15482	C8H18O	2,4-dimethyl-3-hexanol	13432-25-2	433.15	42.517	1,2
15399	C8H18N2	azobutane	2159-75-3	436.80	37.846	2	15483	C8H18O	2,5-dimethyl-3-hexanol	19550-07-3	432.15	42.414	1,2
15400	C8H18N2	1,3-cyclohexanedimethanamine	2579-20-6	493.15	43.226	1,2	15484	C8H18O	3,4-dimethyl-3-hexanol	19550-08-4	425.15	41.242	1,2
15401	C8H18N2	2,2'-azobis(2-methylpropane)	927-83-3	382.55	32.724	1,2	15485	C8H18O	3,5-dimethyl-3-hexanol	4209-91-0	425.15	41.242	1,2
15402	C8H18N2	1,4-bis(aminomethyl)cyclohexane	2549-93-1	515.65	45.390	1,2	15486	C8H18O	4,4-dimethyl-3-hexanol	19550-09-5	432.15	41.950	1,2
15403	C8H18N2	(1R,2R)-diaminomethylcyclohexane	68737-65-5	436.80	37.846	2	15487	C8H18O	4,5-dimethyl-3-hexanol	---	429.00	42.092	2
15404	C8H18N2	N,N'-diethyl-2-butene-1,4-diamine	112-21-0	354.65	30.114	1,2	15488	C8H18O	5,5-dimethyl-3-hexanol	66576-31-6	426.15	41.343	1,2
15405	C8H18N2	1,4-diethylpiperazine	6483-50-7	430.15	37.215	1,2	15489	C8H18O	2-propyl-1-pentanol	58175-57-8	452.15	45.353	1,2
15406	C8H18N2	N,N,N',N'-tetramethyl-2-butene-1,4-diamine	4559-79-9	444.65	38.592	1,2	15490	C8H18O	2-isopropyl-1-pentanol	---	473.74	47.141	2
15407	C8H18N2O	N-nitrosodibutylamine	924-16-3	392.15	33.626	2	15491	C8H18O	2-methyl-2-ethyl-1-pentanol	5970-63-8	450.25	44.219	1,2
15408	C8H18N2O	N,N'-diisopropyl-O-methylisourea	54648-79-2	392.15	33.626	2	15492	C8H18O	3-methyl-2-ethyl-1-pentanol	---	450.00	44.683	2
15409	C8H18N2O	4-[2-(dimethylamino)ethyl]morpholine	4385-05-1	392.15	33.626	2	15493	C8H18O	4-methyl-2-ethyl-1-pentanol	106-67-2	449.65	44.646	1,2
15410	C8H18N2O	bisisobutyl-N-nitrosoamine	997-95-5	392.15	33.626	2	15494	C8H18O	2-methyl-3-ethyl-1-pentanol	---	448.00	44.476	2
15411	C8H18N2O	bis(2-ethoxyethyl)nitrosoamine	67856-66-0	392.15	33.626	2	15495	C8H18O	3-methyl-3-ethyl-1-pentanol	---	448.00	43.988	2
15412	C8H18N2O	heptylmethylnitrosamine	16338-99-1	392.15	33.626	1,2	15496	C8H18O	4-methyl-3-ethyl-1-pentanol	---	448.00	44.476	2
15413	C8H18N2O	nitrosodi-sec-butylamine	5350-17-4	392.15	33.626	2	15497	C8H18O	2,2,3-trimethyl-1-pentanol	57409-53-7	447.65	43.521	1,2
15414	C8H18N2O	t-butylazo-2-hydroxybutane	57910-79-9	392.15	33.626	2	15498	C8H18O	2,2,4-trimethyl-1-pentanol	123-44-4	441.45	42.892	1,2
15415	C8H18N2O2	1,4-bis(2-hydroxyethyl)piperazine	122-96-3	551.05	48.810	1,2	15499	C8H18O	2,3,3-trimethyl-1-pentanol	57409-53-7	449.00	43.657	2
15416	C8H18N2O2	N-boc-1,3-propanediamine	75178-96-0	476.15	41.597	1,2	15500	C8H18O	2,3,4-trimethyl-1-pentanol	6570-88-3	456.15	44.873	1,2
15417	C8H18N2O2	1,7-diaza-12-crown-4	294-92-8	445.88	38.709	2	15501	C8H18O	2,4,4-trimethyl-1-pentanol	16325-63-6	444.15	43.166	1,2
15418	C8H18N2O2	1-[2-(2-hydroxyethoxy)ethyl]piperazine	13349-82-1	423.15	36.552	1,2	15502	C8H18O	3,3,4-trimethyl-1-pentanol	---	444.00	43.151	2
15419	C8H18N2O2	2-methyl-2-nitrosopropane dimer	6841-96-9	445.88	38.709	2	15503	C8H18O	3,4,4-trimethyl-1-pentanol	16325-64-7	444.00	43.151	2
15420	C8H18N2O2	n-butyl-N-(2-hydroxybutyl)nitrosamine	55621-29-9	445.88	38.709	2	15504	C8H18O	2-methyl-3-ethyl-2-pentanol	19780-63-3	430.95	41.829	1,2
15421	C8H18N2O2	n-butyl-N-(3-hydroxybutyl)nitrosamine	40911-07-7	445.88	38.709	2	15505	C8H18O	3-methyl-3-ethyl-2-pentanol	66576-22-5	433.00	42.036	2
15422	C8H18N2O2	4-hydroxybutylbutylnitrosamine	3817-11-6	333.15	28.115	1,2	15506	C8H18O	4-methyl-3-ethyl-2-pentanol	66576-23-6	437.15	42.926	1,2
15423	C8H18N2O3	N-butyl-N-(2,4-dihydroxybutyl)nitrosamine	62018-91-1	380.15	32.499	1,2	15507	C8H18O	2,3,3-trimethyl-2-pentanol	23171-85-9	433.15	41.188	1,2
15424	C8H18N2O3	hydroperoxy-N-nitrosodibutylamine	74940-23-1	374.75	31.993	1,2	15508	C8H18O	2,3,4-trimethyl-2-pentanol	66576-26-9	431.15	41.439	1,2
15426	C8H18N2O4PtS	spiroplatin	74790-08-2	364.55	31.038	1,2	15509	C8H18O	2,4,4-trimethyl-2-pentanol	690-37-9	419.55	39.839	1,2
15430	C8H18O	1-octanol	111-87-5	468.35	43.505	1,2	15510	C8H18O	3,3,4-trimethyl-2-pentanol	19411-41-7	438.15	42.141	1,2
15431	C8H18O	2-octanol	123-96-6	452.95	44.163	1,2	15511	C8H18O	3,4,4-trimethyl-2-pentanol	10575-56-1	431.15	41.439	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
15512	C8H18O	2-methyl-3-ethyl-3-pentanol	597-05-7	433.15	42.052	1,2	15594	C8H18O4	acetaldehyde bis(2-methoxyethyl)acetal	10143-67-6	508.98	44.747	2
15513	C8H18O	2,2,3-trimethyl-3-pentanol	7294-05-5	425.15	40.395	1,2	15595	C8H18O4S	dibutyl sulfate	625-22-9	528.77	46.655	2
15514	C8H18O	2,2,4-trimethyl-3-pentanol	5162-48-1	424.15	40.737	1,2	15596	C8H18O4S	2-ethylhexyl sulfate	72214-01-8	528.77	46.655	2
15515	C8H18O	2,3,4-trimethyl-3-pentanol	3054-92-0	430.15	41.339	1,2	15598	C8H18O5	tetraethylene glycol	112-60-7	581.00	78.318	1,2
15516	C8H18O	3-methyl-2-isopropyl-1-butanol	18593-92-5	446.15	43.848	1,2	15599	C8H18O6S2	dimethylmyleran	55-93-6	421.65	36.410	1,2
15517	C8H18O	2,2-diethyl-1-butanol	13023-60-4	446.00	43.784	2	15600	C8H18O6S2	meso-dimethylmyleran	33447-90-4	421.65	36.410	2
15518	C8H18O	2,3-dimethyl-2-ethyl-1-butanol	---	446.00	43.353	2	15601	C8H18O10S2	bis(methane sulfonyl)-D-mannitol	1187-00-4	324.15	27.282	1,2
15519	C8H18O	3,3-dimethyl-2-ethyl-1-butanol	66576-56-5	446.00	43.353	2	15602	C8H18S	octyl mercaptan	111-88-6	472.19	42.539	1,2
15520	C8H18O	2,2,3,3-tetramethyl-1-butanol	66576-24-7	446.00	42.464	2	15603	C8H18S	2-octanethiol	3001-66-9	459.55	40.364	1,2
15521	C8H18O	3,5-dimethyl-3-hexanol, (±)	19113-78-1	425.15	36.741	1,2	15604	C8H18S	tert-octyl mercaptan	141-59-3	429.00	35.737	1,2
15522	C8H18O	2-methyl-1-heptanol, (±)	111675-77-5	448.75	38.983	1,2	15605	C8H18S	2-octanethiol, (±)	10435-81-1	459.55	40.012	1,2
15523	C8H18O	5-methyl-1-heptanol, (±)	111767-95-4	459.75	40.031	1,2	15606	C8H18S	dibutyl sulfide	544-40-1	455.15	39.706	1,2
15524	C8H18O	2-methyl-3-heptanol, (±)	100296-26-2	440.65	38.212	1,2	15607	C8H18S	methyl heptyl sulfide	20291-61-6	461.70	43.516	1,2
15525	C8H18O	6-methyl-3-heptanol, (±)	100295-85-0	442.15	38.355	1,2	15608	C8H18S	ethyl hexyl sulfide	7309-44-6	460.00	43.657	2
15526	C8H18O	3-methyl-4-heptanol, (R*,S*)-(±)	92737-91-2	435.15	37.690	1,2	15609	C8H18S	propyl pentyl sulfide	42841-80-5	460.00	43.657	2
15527	C8H18O	dibutyl ether	142-96-1	413.44	37.346	1,2	15610	C8H18S	di-sec-butyl sulfide	626-26-6	438.15	33.601	1,2
15528	C8H18O	di-sec-butyl ether	6863-58-7	394.20	34.297	1,2	15611	C8H18S	di-tert-butyl sulfide	107-47-1	422.25	29.668	1,2
15529	C8H18O	di-tert-butyl ether	6163-66-2	380.40	32.187	1,2	15612	C8H18S	diisobutyl sulfide	592-65-4	444.15	35.279	1,2
15530	C8H18O	butyl isobutyl ether	17071-47-5	424.15	36.647	1,2	15614	C8H18S2	dibutyl disulfide	629-45-8	504.36	46.861	1,2
15531	C8H18O	tert-butyl isobutyl ether	33021-02-2	439.93	38.143	2	15615	C8H18S2	di-tert-butyl disulfide	110-06-5	513.34	45.167	2
15532	C8H18O	di-sec-butyl ether, (±)	17226-28-7	393.65	34.169	1,2	15616	C8H18S2	1,8-octanedithiol	1191-62-4	542.65	47.997	1,2
15533	C8H18O	ethyl hexyl ether	5756-43-4	416.15	35.890	1,2	15617	C8H18S2	disulfide, bis(2-methylpropyl)	1518-72-5	493.00	43.212	1,2
15534	C8H18O	1-methoxyheptane	629-32-3	424.15	36.647	1,2	15618	C8H18S2	disulfide, bis(1-methylpropyl)	5943-30-6	513.34	45.167	2
15535	C8H18O	isooctanol	26952-21-6	459.15	39.973	1,2	15621	C8H18Si	triethylvinylsilane	1112-54-5	419.65	36.221	1,2
15536	C8H18O	(R)-(-)-2-octanol	5978-70-1	448.90	38.997	1,2	15622	C8H18Si2	1,2-bis(trimethylsilyl)acetylene	14630-40-1	407.15	35.039	1,2
15537	C8H18O	(S)-(+)-2-octanol	6169-06-8	451.05	39.202	1,2	15623	C8H19Al	diisobutylaluminum hydride	1191-15-7	378.15	32.311	1,2
15538	C8H18O	octyl alcohol; mixed isomers	29063-28-3	468.15	40.833	1,2	15631	C8H19N	octylamine	111-86-4	452.75	42.090	1,2
15539	C8H18O	isobutyl ether	628-55-7	395.85	33.974	1,2	15632	C8H19N	2-ethylhexylamine	104-75-6	442.35	38.374	1,2
15541	C8H18OSi2	1,3-divinyl-1,1,3,3-tetramethyldisiloxane	2627-95-4	312.15	26.174	1,2	15633	C8H19N	6-methyl-2-heptanamine, (±)	5984-58-7	428.15	37.026	1,2
15542	C8H18OSn	dibutyltin oxide	818-08-6	573.15	50.955	1,2	15634	C8H19N	2-octanamine, (±)	44855-57-4	437.15	37.880	1,2
15543	C8H18OSn	diisobutyloxostannane	61947-30-6	573.15	50.955	2	15635	C8H19N	methylheptylamine	36343-05-2	438.15	40.121	1,2
15544	C8H18O2	1,2-octanediol	1117-86-8	525.15	61.843	2	15636	C8H19N	ethylhexylamine	20352-67-4	431.15	39.192	1,2
15545	C8H18O2	1,3-octanediol	23433-05-8	536.15	63.185	2	15637	C8H19N	dibutylamine	111-92-2	432.00	40.612	1,2
15546	C8H18O2	1,4-octanediol	51916-47-3	557.15	65.749	2	15638	C8H19N	diisobutylamine	110-96-3	412.25	36.713	1,2
15547	C8H18O2	1,8-octanediol	629-41-4	544.15	64.756	2	15639	C8H19N	di-sec-butylamine	626-23-3	407.15	33.116	1,2
15548	C8H18O2	2,4-octanediol	90162-24-6	478.13	43.995	2	15640	C8H19N	N-methyl-2-heptanamine	540-43-2	428.15	37.026	1,2
15549	C8H18O2	4,5-octanediol, (±)	22520-40-7	478.13	43.995	2	15641	C8H19N	dimethylhexylamine	4385-04-0	418.15	35.438	1,2
15550	C8H18O2	3-methyl-2,4-heptanediol	6964-04-1	478.13	43.995	2	15642	C8H19N	diethylbutylamine	4444-68-2	409.15	36.587	1,2
15551	C8H18O2	2-ethyl-1,3-hexanediol	94-96-2	517.15	45.534	1,2	15643	C8H19N	N-ethyl-N-isopropyl-2-propanamine	7087-68-5	399.65	30.980	1,2
15552	C8H18O2	2,5-dimethyl-2,5-hexanediol	110-03-2	487.15	42.651	1,2	15644	C8H19N	N-ethyl-N-propyl-1-propanamine	20634-92-8	411.15	34.344	1,2
15553	C8H18O2	2,2,4-trimethyl-1,4-pentanediol	80864-10-4	483.15	45.847	1,2	15645	C8H19N	2-amino-6-methylheptane	543-82-8	428.15	37.026	1,2
15554	C8H18O2	2,2,4-trimethyl-1,3-pentanediol	144-19-4	508.15	44.668	1,2	15646	C8H19N	(S)-2-amino-6-methylheptane	70419-10-2	428.15	37.026	1,2
15555	C8H18O2	2-butyl-2-methyl-1,3-propanediol	3121-83-3	535.15	47.271	1,2	15647	C8H19N	(R)-2-amino-6-methylheptane	70419-11-3	428.15	37.026	1,2
15556	C8H18O2	di-t-butyl peroxide	110-05-4	384.15	33.576	1,2	15648	C8H19N	(S)-2-aminooctane	34566-04-6	437.15	37.880	1,2
15557	C8H18O2	1,2-dipropoxyethane	18854-56-3	478.13	41.787	2	15649	C8H19N	(R)-2-aminooctane	34566-05-7	437.15	37.880	1,2
15558	C8H18O2	ethylene glycol monohexyl ether	112-25-4	481.15	42.076	1,2	15650	C8H19N	2-aminooctane	693-16-3	438.15	37.975	1,2
15559	C8H18O2	methyl ethyl ketone peroxide	1338-23-4	478.13	41.787	2	15651	C8H19N	N-isopropyl-N-methyl-tert-butylamine	85523-00-8	400.15	31.116	1,2
15560	C8H18O2	1-tert-butoxy-2-ethoxyethane	51422-54-9	421.15	36.363	1,2	15652	C8H19N	tert-octylamine	107-45-9	413.15	34.983	1,2
15561	C8H18O2	(3R,6R)-3,6-octanediol	129619-37-0	478.13	43.995	2	15653	C8H19NO	N,N-diisopropylethanolamine	96-80-0	463.15	40.355	1,2
15562	C8H18O2	(3S,6S)-3,6-octanediol	136705-66-3	478.13	43.995	2	15654	C8H19NO	2-(dipropylamino)ethanol	3238-75-3	469.15	40.928	1,2
15563	C8H18O2	1-butoxy-2-ethoxyethane	4413-13-2	434.03	37.583	1,2	15655	C8H19NO	6-amino-2-methyl-2-heptanol	372-66-7	466.15	40.641	2
15564	C8H18O2	1,1-diethoxybutane	3658-95-5	416.50	35.923	1,2	15656	C8H19NO2	ammonium caprylate	5972-76-9	489.32	42.859	2
15565	C8H18O2	peroxide, dibutyl	3849-34-1	478.13	41.787	2	15657	C8H19NO2	bis(3-hydroxy-2-butyl)amine	6959-06-4	513.15	45.149	1,2
15566	C8H18O2	acetaldehyde-di-n-propyl acetal	105-82-8	478.13	41.787	2	15658	C8H19NO2	N,N-bis(2-hydroxyethyl)butylamine	102-79-4	548.15	48.529	1,2
15567	C8H18O2	2-(2-ethylbutoxy)ethanol	4468-93-3	478.13	41.787	2	15659	C8H19NO2	4,4-diethoxy-1-butanamine	6346-09-4	469.15	40.928	1,2
15568	C8H18O2	ethylene glycol mono-2-methylpentyl ether	10137-96-9	470.00	41.009	2	15660	C8H19NO2	2,2-diethoxy-N,N-dimethylethanamine	3616-56-6	443.65	38.497	1,2
15570	C8H18O2S	diisobutyl sulfone	10495-45-1	538.15	47.561	1,2	15661	C8H19NO2	2-[2-(diethylamino)ethoxy]ethanol	140-82-9	494.65	43.370	1,2
15571	C8H18O2S	dibutyl sulfone	598-04-9	564.00	57.077	1,2	15662	C8H19NO2	2-ethoxy-N-(2-ethoxyethyl)ethanamine	124-21-0	467.15	40.737	1,2
15572	C8H18O2S	di-tert-butylsulfone	1886-75-5	521.05	41.967	1,2	15663	C8H19NO2	N-tert-butyldiethanolamine	2160-93-2	489.32	42.859	2
15573	C8H18O2Si	allyldiethoxymethylsilane	18388-45-9	428.15	37.026	1,2	15669	C8H19O3P	di-tert-butyl phosphonate	13086-84-5	505.83	44.444	2
15574	C8H18O2Si	(tert-butyldimethylsilyloxy)acetaldehyde	102191-92-4	439.15	38.070	1,2	15670	C8H19O3P	dibutyl phosphonate	1809-19-4	503.15	44.187	1,2
15575	C8H18O2Si	(1-ethoxycyclopropoxy)trimethylsilane	27374-25-0	433.65	37.547	2	15671	C8H19O3P	diethyl-2-butylphosphonate	34510-96-8	505.83	44.444	2
15576	C8H18O2Si	1-methoxy-2-methyl-1-(trimethylsiloxy)propene	31469-15-5	433.65	37.547	2	15672	C8H19O3P	diisobutylphosphite	1189-24-8	508.50	44.701	1,2
15578	C8H18O3	diethylene glycol diethyl ether	112-36-7	462.15	44.763	1,2	15675	C8H19O3PS3	oxydisulfoton	2497-07-6	429.65	37.168	1,2
15579	C8H18O3	diethylene glycol monobutyl ether	112-34-5	504.15	54.049	1,2	15678	C8H19O4PS2	iso systox sulfoxide	2496-92-6	327.15	27.560	1,2
15580	C8H18O3	3,5-dimethoxy-1-hexanol	90952-10-6	467.48	40.769	2	15680	C8H20As2	tetraethyldiarsine	612-08-8	459.15	39.973	1,2
15581	C8H18O3	1,1,1-triethoxyethane	78-39-7	418.15	36.079	1,2	15687	C8H20FN2OP	di-(N-butylamino)fluorophosphine oxide	590-69-2	403.85	34.728	1,2
15582	C8H18O3	di(propylene glycol) dimethyl ether, isomers	111109-77-4	448.15	38.925	1,2	15688	C8H20Ge	tetraethylgermanium	597-63-7	436.30	37.799	1,2
15583	C8H18O3	1-isoamyl glycerol ether	627-92-9	534.15	47.175	1,2	15689	C8H20GeO4	germanium(iv) ethoxide	14165-55-0	458.65	39.926	1,2
15584	C8H18O3	trimethyl orthovalerate	13820-09-2	438.15	37.975	1,2	15693	C8H20N2	1,2-diisobutylhydrazine	3711-37-3	444.15	38.545	1,2
15585	C8H18O3	diethylene glycol monoisobutyl ether	18912-80-6	467.48	40.769	2	15694	C8H20N2	2,5-dimethyl-2,5-hexanediamine	23578-35-0	457.15	39.783	1,2
15586	C8H18O3	1-ethoxy-3-isopropoxypropan-2-ol	13021-50-6	467.48	40.769	2	15695	C8H20N2	1,8-octanediamine	373-44-4	498.15	43.706	1,2
15587	C8H18O3	1-(2-ethoxy-2-methylethoxy)-2-propanol	15764-24-6	467.48	40.769	2	15696	C8H20N2	N,N,N',N'-tetramethyl-1,4-butanediamine	111-51-3	441.15	38.260	1,2
15587.1	C8H18O3	dipropylene glycol monoethyl ether	30025-38-8	471.00	47.969	1,2	15697	C8H20N2	N,N'-diisopropylethylenediamine	4013-94-9	443.15	38.450	1,2
15588	C8H18O3S	dibutyl sulfite	626-85-7	503.15	44.187	1,2	15698	C8H20N2	N,N'-dimethyl-1,6-hexanediamine	13093-04-4	430.41	37.240	2
15589	C8H18O3S	diisobutyl sulfite	18748-27-1	483.15	42.268	1,2	15699	C8H20N2	N-hexylethylenediamine	7261-70-3	430.41	37.240	2
15590	C8H18O3Si	vinyltriethoxysilane	78-08-0	433.15	37.500	1,2	15700	C8H20N2	N,N,N',N'-tetramethyl-1,3-butanediamine	97-84-7	437.70	37.932	1,2
15591	C8H18O4	triethylene glycol dimethyl ether	112-49-2	489.15	50.901	1,2	15701	C8H20N2	N,N,N'-triethylethylenediamine	105-04-4	327.65	27.606	1,2
15592	C8H18O4	triethylene glycol monoethyl ether	112-50-5	528.80	46.658	1,2	15702	C8H20N2	1,1-dibutylhydrazine	7422-80-2	430.41	37.240	2
15593	C8H18O4	2,5-dimethylhexane-2,5-dihydroperoxide	3025-88-5	508.98	44.747	2	15703	C8H20N2	N,N-diisopropyl ethylenediamine	121-05-1	394.15	33.814	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
15704	C8H20N2	N'-isopropyl-N,N'-dimethyl-1,3-propane-diami*	63905-13-5	430.41	37.240	2	15910	C9H6N2O2	8-nitroquinoline	607-35-2	523.65	46.161	2
15705	C8H20N2	6-methyl-2-heptylhydrazine	7535-34-4	430.41	37.240	2	15911	C9H6N2O2	5-nitroso-8-quinolinol	3565-26-2	523.65	46.161	2
15706	C8H20N2O	2-[(2-amino-2-methylpropyl)amino]-2-methyl-1*	72622-74-3	504.15	44.283	1,2	15912	C9H6N2O2	tolylene 2,5-diisocyanate	614-90-4	523.65	46.161	2
15707	C8H20N2O	2,2'-oxybis[N,N-dimethylethanamine	3033-62-3	504.15	44.283	2	15913	C9H6N2O2	a,4-tolylene diisocyanate	99741-73-8	523.65	46.161	2
15713	C8H20OSi	ethoxytriethylsilane	597-67-1	427.65	36.978	1,2	15914	C9H6N2O2	2-nitroquinoline	18714-34-6	523.65	46.161	2
15717	C8H20O3Si	triethoxyethylsilane	78-07-9	431.65	37.358	1,2	15915	C9H6N2O2	4-nitrosoquinoline-1-oxide	1130-69-4	523.65	46.161	2
15719	C8H20O4Si	ethyl silicate	78-10-4	441.95	38.336	1,2	15924	C9H6OS2	di-2-thienylmethanone	704-38-1	599.15	53.487	1,2
15720	C8H20O4Si	tetrakis-(2-hydroxyethyl)silane	18928-76-2	441.95	38.336	2	15925	C9H6O2	1H-2-benzopyran-1-one	491-31-6	559.15	49.595	1,2
15729	C8H20Pb	tetraethyl lead	78-00-2	473.15	41.310	2	15926	C9H6O2	2H-1-benzopyran-2-one	91-64-5	574.85	51.120	1,2
15730	C8H20Si	tetraethylsilane	631-36-7	427.85	36.997	1,2	15927	C9H6O2	4H-1-benzopyran-4-one	491-38-3	567.00	50.357	2
15731	C8H20Si2	trans-bis(trimethylsilyl)ethene	18178-59-1	418.65	36.126	1,2	15928	C9H6O2	1H-indene-1,3(2H)-dione	606-23-5	567.00	50.357	2
15733	C8H21NO	tetraethylammonium hydroxide	77-98-5	383.15	32.780	1,2	15929	C9H6O2	2-benzofurancarboxaldehyde	4265-16-1	567.00	50.357	2
15737	C8H21N3	N,N-diethyldiethylenetriamine	24426-16-2	500.65	43.947	1,2	15930	C9H6O2	phenylpropiolic acid	637-44-5	567.00	50.357	2
15738	C8H21N3	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-d*	10563-29-8	500.65	43.947	2	15933	C9H6O3	2-benzofurancarboxylic acid	496-41-3	585.65	52.171	1,2
15739	C8H22N2O3Si	[3-(2-aminoethylamino)propyl]trimethoxysilane	1760-24-3	419.15	36.173	1,2	15934	C9H6O3	6-hydroxy-2H-1-benzopyran-2-one	6093-68-1	576.90	51.320	2
15740	C8H22N2O5P2	diethyl bis-dimethylpyrophosphoradiamide (sy*	28616-48-0	361.90	30.791	1,2	15935	C9H6O3	7-hydroxy-2H-1-benzopyran-2-one	93-35-6	576.90	51.320	2
15741	C8H22N2O5P2	diethyl di(dimethylamido)pyrophosphate (unsy*	1474-80-2	361.90	30.791	2	15936	C9H6O3	2-oxo-2H-1-benzopyran-3-carboxylic acid	531-81-7	576.90	51.320	2
15744	C8H22O2Si2	1,2-bis(trimethylsiloxy)ethane	7381-30-8	438.65	38.022	1,2	15937	C9H6O3	homophthalic anhydride	703-59-3	576.90	51.320	2
15745	C8H22O3Si2	1,3-diethoxy-1,1,3,3-tetramethyldisiloxane	18420-09-2	434.15	37.595	1,2	15938	C9H6O3	4-hydroxycoumarin	1076-38-6	576.90	51.320	2
15747	C8H23N5	tetraethylenepentamine	112-57-2	606.15	74.940	1,2	15939	C9H6O3	4-methylphthalic anhydride	19438-61-0	568.15	50.469	1,2
15750	C8H24Cl2O3Si4	1,7-dichloro-octamethyltetrasiloxane	2474-02-4	495.15	43.418	1,2	15940	C9H6O3	3-methylphthalic anhydride	4792-30-7	576.90	51.320	2
15754	C8H24O12P2S	pyroset tko	55566-30-8	384.25	32.884	1,2	15964	C9H7ClO	3-phenyl-2-propenoyl chloride	102-92-1	530.15	46.788	1,2
15755	C8H24O2Si3	octamethyltrisiloxane	107-51-7	426.15	36.836	1,2	15965	C9H7ClO	trans-3-phenyl-2-propenoyl chloride	17082-09-6	530.65	46.837	1,2
15756	C8H24O4Si4	octamethylcyclotetrasiloxane	556-67-2	448.15	39.139	1,2	15966	C9H7ClO	a-chlorocinnamaldehyde	18365-42-9	405.65	34.898	1,2
15759	C8H26O3Si4	1,1,1,3,5,7,7,7-octamethyltetrasiloxane	16066-09-4	443.15	38.450	1,2	15967	C9H7ClO	5-chloro-1-indanone	42348-86-7	488.82	42.811	2
15760	C8H28N4Si4	2,2,4,4,6,6,8,8-octamethylcyclotetrasilazane	1020-84-4	498.05	43.697	1,2	15974	C9H7ClO3	o-acetylsalicyloyl chloride	5538-51-2	494.15	43.322	2
15761	C8H28O4Si5	tetrakis(dimethylsilyl) orthosilicate	17082-47-2	462.15	40.260	1,2	15975	C9H7ClO3	(R)-(-)-O-formylmandeloyl chloride	29169-64-0	494.15	43.322	1,2
15764	C8K	potassium graphite	12081-88-8	410.65	35.370	1,2	15976	C9H7ClO3	methyl 4-chlorocarbonylbenzoate	7377-26-6	494.15	43.322	2
15767	C9F20	perfluorononane	375-96-2	398.45	34.219	1,2	15982	C9H7FO	5-fluoro-1-indanone	700-84-5	386.65	33.109	1,2
15768	C9F21N	perfluorotripropylamine	338-83-0	403.15	34.662	1,2	15983	C9H7FO2	2-fluoro-3-phenyl-2-propenoic acid	350-90-3	563.15	49.984	1,2
15769	C9Fe2O9	iron nonacarbonyl	15321-51-4	482.15	42.172	2	15984	C9H7FO2	6-fluoro-4-chromanone	66892-34-0	563.15	49.984	2
15770	C9Fe2O9	nonacarbonyl diiron	20982-74-5	482.15	42.172	1,2	15985	C9H7FO2	trans-3-fluorocinnamic acid	20595-30-6	563.15	49.984	2
15771	C9HF17O2	heptadecafluorononanoic acid	375-95-1	491.15	43.034	1,2	15986	C9H7FO2	2-fluorocinnamic acid	451-69-4	563.15	49.984	2
15773	C9H2F14O2	1,1,1,2,2,3,3,7,7,8,8,9,9,9-tetradecafluoro-*	113116-18-0	370.15	31.562	1,2	15987	C9H7FO2	3-fluorocinnamic acid	458-46-8	563.15	49.984	2
15778	C9H3Cl6NO2	chlorendic imide	6889-41-4	328.15	27.652	1,2	15988	C9H7FO2	4-fluorocinnamic acid	459-32-5	563.15	49.984	2
15779	C9H3F6N	3,5-bis(trifluoromethyl)benzonitrile	27126-93-8	428.15	37.026	1,2	15990	C9H7F3	a-(trifluoromethyl)styrene	384-64-5	412.15	35.512	1,2
15782	C9H3F9	1,3,5-tris(trifluoromethyl)benzene	729-81-7	392.10	33.621	1,2	15991	C9H7F3	2-(trifluoromethyl)styrene	395-45-9	412.15	35.512	2
15783	C9H3F15O2	methyl perfluorooctanoate	376-27-2	431.15	37.310	1,2	15992	C9H7F3	3-(trifluoromethyl)styrene	402-24-4	412.15	35.512	2
15784	C9H3F17O	2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecaf*	423-56-3	449.15	39.021	1,2	15993	C9H7F3	4-(trifluoromethyl)styrene	402-50-6	412.15	35.512	2
15785	C9H3F18O3P	tris(1,1,1,3,3,3-hexafluoro-2-propyl)phosphi*	66470-81-3	403.15	34.662	1,2	15994	C9H7F3O	2'-(trifluoromethyl)acetophenone	17408-14-9	436.15	37.785	1,2
15786	C9H4Cl2N2O3	6,7-dichloro-4-nitroquinoline-1-oxide	14094-48-5	486.15	42.555	1,2	15995	C9H7F3O	3'-(trifluoromethyl)acetophenone	349-76-8	472.10	41.210	1,2
15790	C9H4Cl6O4	chlorendic acid	115-28-6	448.15	38.925	1,2	15996	C9H7F3O	4'-(trifluoromethyl)acetophenone	709-63-7	454.13	39.494	2
15793	C9H4F6O	2,5-bis(trifluoromethyl)benzaldehyde	395-64-2	410.15	35.323	1,2	15997	C9H7F3O	1,1,1-trifluoro-3-phenyl-2-propanone	350-92-5	454.13	39.494	2
15794	C9H4F6O	3,5-bis(trifluoromethyl)benzaldehyde	401-95-6	427.65	36.978	2	15998	C9H7F3O2	methyl 3-(trifluoromethyl)benzoate	2557-13-3	476.15	41.597	2
15795	C9H4F6O	2,4-bis(trifluoromethyl)benzaldehyde	59664-42-5	445.15	38.640	1,2	15999	C9H7F3O2	methyl 4-(trifluoromethyl)benzoate	2967-66-0	476.15	41.597	2
15796	C9H4F6O	2,2,2-trifluoro-3'-(trifluoromethyl)acetophe*	721-37-9	427.65	36.978	2	16000	C9H7F3O2	3'-(trifluoromethoxy)acetophenone	170141-63-6	476.15	41.597	1,2
15802	C9H4O	2-nonen-4,6,8-triyn-1-al	---	443.15	38.450	1,2	16001	C9H7F3O2	4'-(trifluoromethoxy)acetophenone	85013-98-5	476.15	41.597	2
15803	C9H4O5	trimellitic anhydride	552-30-7	663.00	143.368	1,2	16002	C9H7F3O2	(a,a,a-trifluoro-o-tolyl)acetic acid	3038-48-0	476.15	41.597	2
15813	C9H5ClN2O3	3-chloro-4-nitroquinoline-1-oxide	14100-52-8	405.90	34.922	2	16003	C9H7F3O2	(a,a,a-trifluoro-p-tolyl)acetic acid	32857-62-8	476.15	41.597	2
15815	C9H5ClN2O3	6-chloro-4-nitroquinoline-1-oxide	3741-12-6	413.65	35.653	1,2	16008	C9H7I3N2O3	3-acetamido-5-amino-2,4,6-triiodobenzoic acid	1713-07-1	504.15	44.283	1,2
15816	C9H5ClN2O3	7-chloro-4-nitroquinoline-1-oxide	14753-14-1	398.15	34.191	1,2	16010	C9H7N	isoquinoline	119-65-3	516.40	46.877	1,2
15821	C9H5Cl2N	2,4-dichloroquinoline	703-61-7	554.15	49.111	1,2	16011	C9H7N	quinoline	91-22-5	510.75	47.287	1,2
15822	C9H5Cl2N	2,7-dichloroquinoline	613-77-4	554.15	49.111	2	16012	C9H7N	cis-3-phenyl-2-propenenitrile	24840-05-9	522.15	46.016	1,2
15823	C9H5Cl2N	4,5-dichloroquinoline	21617-18-5	554.15	49.111	2	16013	C9H7N	trans-3-phenyl-2-propenenitrile	1885-38-7	536.95	47.445	1,2
15824	C9H5Cl2N	4,7-dichloroquinoline	86-98-6	554.15	49.111	2	16014	C9H7N	1-benzocyclobutenecarbonitrile	6809-91-2	521.56	45.960	2
15825	C9H5Cl2N	5,8-dichloroquinoline	703-32-2	554.15	49.111	2	16015	C9H7N	4-cyanostyrene	5338-96-5	521.56	45.960	2
15828	C9H5F5	allylpentafluorobenzene	1736-60-3	421.60	36.405	1,2	16016	C9H7N	4-cyanostyrene, stabilized	3435-51-6	521.56	45.960	2
15829	C9H5F5O2	ethyl pentafluorobenzoate	4522-93-4	386.15	33.062	1,2	16017	C9H7N	cinnamonitrile	4360-47-8	521.56	45.960	2
15841	C9H6BrN	4-bromoisoquinoline	1532-97-4	555.65	49.256	1,2	16018	C9H7NO	8-hydroxyquinoline	148-24-3	540.00	54.858	1,2
15842	C9H6BrN	3-bromoquinoline	5332-24-1	548.15	48.529	1,2	16019	C9H7NO	7-isoquinolinol	7651-83-4	586.58	52.261	2
15843	C9H6BrN	5-bromoquinoline	4964-71-0	553.15	49.014	1,2	16020	C9H7NO	beta-oxobenzenepropanenitrile	614-16-4	586.58	52.261	2
15844	C9H6BrN	6-bromoquinoline	5332-25-2	554.15	49.111	1,2	16021	C9H7NO	2-hydroxyquinoline	59-31-4	586.58	52.261	2
15845	C9H6BrN	7-bromoquinoline	4965-36-0	563.15	49.984	1,2	16022	C9H7NO	3-quinolinol	580-18-7	586.58	52.261	2
15846	C9H6BrN	8-bromoquinoline	16567-18-3	554.85	49.178	2	16023	C9H7NO	5-quinolinol	578-67-6	586.58	52.261	2
15853	C9H6ClN	1-chloroisoquinoline	19493-44-8	547.65	48.481	1,2	16024	C9H7NO	6-quinolinol	580-16-5	633.15	56.813	1,2
15854	C9H6ClN	2-chloroquinoline	612-62-4	539.15	47.658	1,2	16025	C9H7NO	7-quinolinol	580-20-1	586.58	52.261	2
15855	C9H6ClN	4-chloroquinoline	611-35-8	535.15	47.271	1,2	16026	C9H7NO	4-acetylbenzonitrile	1443-80-7	586.58	52.261	2
15856	C9H6ClN	5-chloroquinoline	635-27-8	529.15	46.692	1,2	16027	C9H7NO	3-acetylbenzonitrile	6136-68-1	586.58	52.261	2
15857	C9H6ClN	6-chloroquinoline	612-57-7	536.15	47.368	1,2	16028	C9H7NO	2-acetylbenzonitrile	91054-33-0	586.58	52.261	2
15858	C9H6ClN	7-chloroquinoline	612-61-3	540.65	47.803	1,2	16029	C9H7NO	5-hydroxyisoquinoline	2439-04-5	586.58	52.261	2
15859	C9H6ClN	8-chloroquinoline	611-33-6	561.65	49.838	1,2	16030	C9H7NO	4-hydroxyquinoline	611-36-9	586.58	52.261	2
15891	C9H6F6O	3,5-bis(trifluoromethyl)benzyl alcohol	32707-89-4	434.05	37.585	2	16031	C9H7NO	indole-3-carboxaldehyde	487-89-8	586.58	52.261	2
15892	C9H6F6O	1,1,1,3,3,3-hexafluoro-2-phenyl-2-propanol	718-64-9	434.05	37.585	1,2	16032	C9H7NO	isoquinoline-N-oxide	1532-72-5	586.58	52.261	2
15903	C9H6N2O2	toluene diisocyanate	584-84-9	523.15	50.640	1,2	16033	C9H7NO	5-phenyloxazole	1006-68-4	586.58	52.261	2
15904	C9H6N2O2	5-nitroisoquinoline	607-32-9	523.65	46.161	2	16034	C9H7NO	quinoline-7,8-oxide	130536-39-9	586.58	52.261	2
15905	C9H6N2O2	5-nitroquinoline	607-34-1	523.65	46.161	2	16036	C9H7NO2	2-methyl-1H-isoindole-1,3(2H)-dione	550-44-7	559.15	49.595	1,2
15906	C9H6N2O2	6-nitroquinoline	613-50-3	523.65	46.161	2	16037	C9H7NO2	2-acetoxybenzonitrile	5715-02-6	526.15	46.402	1,2
15907	C9H6N2O2	7-nitroquinoline	613-51-4	523.65	46.161	2	16038	C9H7NO2	3-acetylphenyl isocyanate	23138-64-9	500.15	43.899	2
15908	C9H6N2O2	toluene-2,6-diisocyanate	91-08-7	523.65	46.161	2	16039	C9H7NO2	4-acetylphenyl isocyanate	49647-20-3	500.15	43.899	2
15909	C9H6N2O2	diisocyanatomethylbenzene	1321-38-6	524.15	46.209	1,2	16040	C9H7NO2	benzyl cyanoformate	5532-86-5	500.15	43.899	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
16041	C9H7NO2	8-hydroxyquinoline-N-oxide	1127-45-3	500.15	43.899	2	16226	C9H8O3	methyl benzoylformate	15206-55-0	520.15	45.824	1,2
16042	C9H7NO2	indole-2-carboxylic acid	1477-50-5	500.15	43.899	2	16227	C9H8O3	3,4-methylenedioxyacetophenone	3162-29-6	500.48	43.931	2
16043	C9H7NO2	indole-5-carboxylic acid	1670-81-1	500.15	43.899	2	16228	C9H8O3	methyl 4-formylbenzoate	1571-08-0	538.15	47.561	1,2
16047	C9H7NO2	methyl 4-cyanobenzoate	1129-35-7	415.15	35.795	1,2	16229	C9H8O3	bicyclo(2.2.1)-hept-5-ene-2,3-dicarboxylic a*	826-62-0	500.48	43.931	2
16048	C9H7NO2	1-methylisatin	2058-74-4	500.15	43.899	2	16232	C9H8O4	acetyl benzoylperoxide	644-31-5	546.15	48.336	2
16049	C9H7NO2	3-phenyl-5-isoxazolone	1076-59-1	500.15	43.899	2	16233	C9H8O4	2-(acetyloxy)benzoic acid	50-78-2	546.15	48.336	2
16050	C9H7NO2	2,4-quinolinediol	86-95-3	500.15	43.899	2	16234	C9H8O4	3-(3,4-dihydroxyphenyl)-2-propenoic acid	331-39-5	546.15	48.336	2
16051	C9H7NO2	trans-quinoline-5,6,7,8-dioxide	142129-81-5	500.15	43.899	2	16235	C9H8O4	methyl 1,3-benzodioxole-5-carboxylate	326-56-7	546.15	48.336	2
16079	C9H7N3O2S	2-amino-4-(p-nitrophenyl)thiazole	2104-09-8	504.15	44.283	1,2	16236	C9H8O4	4-formylphenoxyacetic acid	22042-71-3	546.15	48.336	2
16090	C9H8	indene	95-13-6	455.77	40.939	1,2	16237	C9H8O4	2-formylphenoxyacetic acid	6280-80-4	546.15	48.336	2
16091	C9H8	1-propynylbenzene	673-32-5	456.15	39.687	1,2	16238	C9H8O4	4-hydroxyphenylpyruvic acid	156-39-8	546.15	48.336	2
16092	C9H8	4-ethynyltoluene	766-97-2	442.15	38.355	1,2	16239	C9H8O4	3,4-(methylenedioxy)phenylacetic acid	2861-28-1	546.15	48.336	2
16093	C9H8	3-phenyl-1-propyne	10147-11-2	451.36	39.231	2	16240	C9H8O4	4-methylphthalic acid	4316-23-8	546.15	48.336	2
16096	C9H8BrClO2	ethyl 5-bromo-2-chlorobenzoate	76008-73-6	561.15	49.789	1,2	16241	C9H8O4	mono-methyl terephthlate	1679-64-7	546.15	48.336	2
16107	C9H8Cl2	(3,3-dichloroallyl)benzene	38862-78-1	515.15	45.342	1,2	16242	C9H8O4	phenylmalonic acid	2613-89-0	546.15	48.336	2
16108	C9H8Cl2	1,2-dichloro-2,3-dihydro-1H-indene	74925-48-7	515.15	45.342	2	16243	C9H8O4	4-(acetyloxy)benzoic acid	2345-34-8	546.15	48.336	2
16109	C9H8Cl2	(2,2-dichlorocyclopropyl)benzene	2415-80-7	515.15	45.342	2	16246.1	C9H8S	2-methyl benzothiophene	1195-14-8	519.00	47.054	1,2
16116	C9H8Cl2O2	trans-3,6-endomethylene-1,2,3,6-tetrahydroph*	4582-21-2	389.15	33.344	1,2	16248	C9H9Br	1-bromo-4-allylbenzene	2294-43-1	497.15	43.610	1,2
16117	C9H8Cl2O2	methyl 2,6-dichlorophenylacetate	54551-83-6	389.15	33.344	2	16249	C9H9Br	(3-bromo-1-propenyl)benzene	4392-24-9	504.40	44.307	2
16118	C9H8Cl2O2	methyl 2,4-dichlorophenylacetate	55954-23-9	389.15	33.344	2	16250	C9H9Br	1-bromo-4-(1-propenyl)benzene	4489-23-0	511.65	45.005	1,2
16119	C9H8Cl2O2	methyl 3,4-dichlorophenylacetate	6725-44-6	389.15	33.344	2	16251	C9H9BrO	2-bromo-1-(4-methylphenyl)ethanone	619-41-0	520.65	45.872	2
16134	C9H8F8O2	2,2,3,3,4,4,5,5-octafluoropentyl methacrylate	355-93-1	451.15	39.211	1,2	16252	C9H9BrO	1-(4-bromophenyl)-1-propanone	10342-83-3	520.65	45.872	2
16137	C9H8N2	1-isoquinolinamine	1532-84-9	527.34	46.517	2	16253	C9H9BrO	2-bromo-1-phenyl-1-propanone	2114-00-3	520.65	45.872	1,2
16138	C9H8N2	5-isoquinolinamine	1125-60-6	527.34	46.517	2	16254	C9H9BrO	2-bromo-1-indanol	5400-80-6	520.65	45.872	2
16139	C9H8N2	2-quinolinamine	580-22-3	527.34	46.517	2	16255	C9H9BrO	2-bromophenylacetone	21906-31-0	520.65	45.872	2
16140	C9H8N2	3-quinolinamine	580-17-6	527.34	46.517	2	16256	C9H9BrO	3-bromophenylacetone	21906-32-1	520.65	45.872	2
16141	C9H8N2	4-quinolinamine	578-68-7	527.34	46.517	2	16257	C9H9BrO	4-bromophenylacetone	6186-22-7	520.65	45.872	2
16142	C9H8N2	5-quinolinamine	611-34-7	583.15	51.928	1,2	16258	C9H9BrO	3'-bromopropiophenone	19829-31-3	520.65	45.872	2
16143	C9H8N2	6-quinolinamine	580-15-4	527.34	46.517	2	16259	C9H9BrO2	alpha-bromobenzenepropanoic acid	16503-53-0	488.95	42.823	2
16144	C9H8N2	8-quinolinamine	578-66-5	527.34	46.517	2	16260	C9H9BrO2	2-(3-bromophenyl)-1,3-dioxolane	17789-14-9	405.65	34.898	1,2
16145	C9H8N2	2-methylquinoxaline	7251-61-8	517.15	45.534	1,2	16261	C9H9BrO2	ethyl 2-bromobenzoate	6091-64-1	527.65	46.547	1,2
16146	C9H8N2	6-methylquinoxaline	6344-72-5	522.15	46.016	1,2	16262	C9H9BrO2	ethyl 3-bromobenzoate	24398-88-7	534.15	47.175	1,2
16147	C9H8N2	1-phenyl-1H-imidazole	7164-98-9	549.15	48.626	1,2	16263	C9H9BrO2	ethyl 4-bromobenzoate	5798-75-4	536.15	47.368	1,2
16148	C9H8N2	2-phenyl-1H-imidazole	670-96-2	613.15	54.855	1,2	16264	C9H9BrO2	benzyl bromoacetate	5437-45-6	441.15	38.260	1,2
16149	C9H8N2	5-methylquinoxaline	13708-12-8	518.15	45.631	1,2	16265	C9H9BrO2	2-bromoethyl benzoate	939-54-8	488.95	42.823	2
16150	C9H8N2	4-phenylimidazole	670-95-1	527.34	46.517	2	16266	C9H9BrO2	2-bromo-4'-methoxyacetophenone	2632-13-5	488.95	42.823	2
16151	C9H8N2	1-phenylpyrazole	1126-00-7	527.34	46.517	2	16267	C9H9BrO2	2-bromo-2'-methoxyacetophenone	31949-21-0	488.95	42.823	2
16152	C9H8N2	3-phenylpyrazole	2458-26-6	527.34	46.517	2	16268	C9H9BrO2	2-bromo-3'-methoxyacetophenone	5000-65-7	488.95	42.823	2
16153	C9H8N2	4-methyl cinnoline	14722-38-4	527.34	46.517	2	16269	C9H9BrO2	2-bromomethyl-1,4-benzodioxane	2164-34-3	488.95	42.823	2
16154	C9H8N2	3-pyrrol-2-ylpyridine	494-98-4	388.45	33.278	1,2	16270	C9H9BrO2	methyl 4-(bromomethyl)benzoate	2417-72-3	488.95	42.823	2
16185	C9H8O	2-methylbenzofuran	4265-25-2	470.65	43.137	1,2	16271	C9H9BrO2	benzeneacetic acid, a-bromo-, methyl ester	3042-81-7	488.95	42.823	2
16186	C9H8O	3-methylbenzofuran	21535-97-7	470.15	41.024	1,2	16272	C9H9BrO2	(2R,3R)-(+)-2,3-epoxy-3-(4-bromophenyl)-1-pr*	115362-13-5	488.95	42.823	2
16187	C9H8O	5-methylbenzofuran	18441-43-5	471.15	41.119	1,2	16273	C9H9BrO2	(2S,3S)-(-)-2,3-epoxy-3-(4-bromophenyl)-1-pr*	106948-05-4	488.95	42.823	2
16188	C9H8O	7-methylbenzofuran	17059-52-8	463.65	40.403	1,2	16276	C9H9Cl	(3-chloroallyl)benzene	6268-37-7	484.15	42.363	1,2
16189	C9H8O	2H-1-benzopyran	254-04-6	490.15	42.939	2	16277	C9H9Cl	(1-chloro-1-propenyl)benzene	35673-03-1	493.75	43.284	2
16190	C9H8O	alpha-ethynylbenzenemethanol	4187-87-5	490.15	42.939	2	16278	C9H9Cl	(2-chloro-1-propenyl)benzene	13099-50-8	493.75	43.284	2
16191	C9H8O	3-phenyl-2-propyn-1-ol	1504-58-1	490.15	42.939	2	16279	C9H9Cl	1-chloro-3-(trans-1-propenyl)benzene	23204-80-0	493.75	43.284	2
16192	C9H8O	cinnamaldehyde	14371-10-9	519.15	45.727	1,2	16280	C9H9Cl	trans-(3-chloro-1-propenyl)benzene	21087-29-6	493.75	43.284	2
16193	C9H8O	1,3-dihydro-2H-inden-2-one	615-13-4	491.15	43.034	2	16281	C9H9Cl	4-chloro-a-methylstyrene	1712-70-5	478.15	41.789	1,2
16194	C9H8O	2,3-dihydro-1H-inden-1-one	83-33-0	516.15	45.438	1,2	16282	C9H9Cl	cinnamyl chloride	2687-12-9	493.75	43.284	2
16195	C9H8O	1a,6a-dihydro-6H-indeno[1,2-b]oxirene	768-22-9	490.15	42.939	2	16283	C9H9Cl	4-vinylbenzyl chloride	1592-20-7	502.15	44.091	1,2
16196	C9H8O	4-ethynylanisole	768-60-5	490.15	42.939	2	16284	C9H9Cl	vinylbenzyl chloride	30030-25-2	502.15	44.091	1,2
16197	C9H8O	trans-3-phenyl-2-propenal	104-55-2	519.15	45.727	1,2	16285	C9H9Cl	vinylbenzyl chloride, stabilized, m- and p-i*	57458-41-0	502.15	44.091	1,2
16198	C9H8O	4H-1-benzopyran	254-03-5	490.15	42.939	2	16287	C9H9ClO	allyl 4-chlorophenyl ether	13997-70-1	503.15	44.187	1,2
16199	C9H8O	benzyloxy acetylene	---	490.15	42.939	2	16288	C9H9ClO	benzenepropanoyl chloride	645-45-4	498.15	43.706	2
16200	C9H8O	2-propenophenone	768-03-6	490.15	42.939	2	16289	C9H9ClO	4-chloro-2-allylphenol	13997-73-4	510.56	44.900	2
16202	C9H8O2	2-benzofuranmethanol	55038-01-2	510.15	44.860	2	16290	C9H9ClO	7-chloro-2,3-dihydro-1H-inden-4-ol	145-94-8	510.56	44.900	2
16203	C9H8O2	cis-cinnamic acid	102-94-3	510.15	44.860	2	16291	C9H9ClO	2-(chloromethyl)-2,3-dihydrobenzofuran	53491-32-0	510.56	44.900	2
16204	C9H8O2	trans-cinnamic acid	140-10-3	573.15	50.955	1,2	16292	C9H9ClO	2-chloro-1-(4-methylphenyl)ethanone	4209-24-9	534.65	47.223	1,2
16205	C9H8O2	di-2-furylmethane	1197-40-6	510.15	44.860	2	16293	C9H9ClO	1-(4-chlorophenyl)-1-propanone	6285-05-8	510.56	44.900	2
16206	C9H8O2	2,3-dihydro-4H-1-benzopyran-4-one	491-37-2	510.15	44.860	2	16294	C9H9ClO	3-chlorophenylacetone	14123-60-5	510.56	44.900	2
16207	C9H8O2	3,4-dihydro-1H-2-benzopyran-1-one	4702-34-5	510.15	44.860	2	16295	C9H9ClO	4-chlorophenylacetone	5586-88-9	510.56	44.900	2
16208	C9H8O2	3,4-dihydro-2H-1-benzopyran-2-one	119-84-6	545.15	48.239	1,2	16296	C9H9ClO	2-chlorophenylacetone	6305-95-9	510.56	44.900	2
16209	C9H8O2	alpha-methylenebenezeneacetic acid	492-38-6	540.15	47.755	2	16297	C9H9ClO	3'-chloropropiophenone	34841-35-5	510.56	44.900	2
16210	C9H8O2	1-phenyl-1,2-propanedione	579-07-7	495.15	43.418	1,2	16298	C9H9ClO	3-chloropropiophenone	936-59-4	510.56	44.900	2
16211	C9H8O2	5-vinyl-1,3-benzodioxole	7315-32-4	497.15	43.610	1,2	16299	C9H9ClO	4-ethylbenzoyl chloride	16331-45-6	508.65	44.716	1,2
16212	C9H8O2	cinnamic acid	621-82-9	573.15	50.955	1,2	16300	C9H9ClO	2,4-dimethylbenzoyl chloride	21900-42-5	508.20	44.673	1,2
16213	C9H8O2	vinyl benzoate	769-78-8	347.15	29.416	1,2	16301	C9H9ClO2	benzyl chloroacetate	140-18-1	491.59	43.076	2
16214	C9H8O2	4-vinylbenzoic acid	1075-49-6	510.15	44.860	2	16302	C9H9ClO2	2-chloroethyl benzoate	939-55-9	528.15	46.595	1,2
16215	C9H8O3	2-acetylbenzoic acid	577-56-0	500.48	43.931	2	16303	C9H9ClO2	3-(2-chlorophenyl)propanoic acid	1643-28-3	491.59	43.076	2
16216	C9H8O3	3-acetylbenzoic acid	586-42-5	500.48	43.931	2	16304	C9H9ClO2	3-(3-chlorophenyl)propanoic acid	21640-48-2	491.59	43.076	2
16217	C9H8O3	4-acetylbenzoic acid	586-89-0	500.48	43.931	2	16305	C9H9ClO2	3-(4-chlorophenyl)propanoic acid	2019-34-3	491.59	43.076	2
16218	C9H8O3	carbic anhydride	129-64-6	500.48	43.931	2	16306	C9H9ClO2	ethyl 2-chlorobenzoate	7335-25-3	516.15	45.438	1,2
16219	C9H8O3	3-(4-hydroxyphenyl)-2-propenoic acid	7400-08-0	500.48	43.931	2	16307	C9H9ClO2	ethyl 3-chlorobenzoate	1128-76-3	516.15	45.438	1,2
16220	C9H8O3	4-acetoxybenzaldehyde	878-00-2	443.15	38.450	1,2	16308	C9H9ClO2	ethyl 4-chlorobenzoate	7335-27-5	510.65	44.908	1,2
16221	C9H8O3	1,4-benzodioxan-6-carboxaldehyde	29668-44-8	500.48	43.931	2	16309	C9H9ClO2	4-methylphenyl chloroacetate	15150-39-7	527.15	46.499	1,2
16222	C9H8O3	2,6-diformyl-4-methylphenol	7310-95-4	500.48	43.931	2	16310	C9H9ClO2	2-phenoxypropanoyl chloride	122-35-0	420.15	36.268	1,2
16223	C9H8O3	p-hydroxycinnamic acid, predominantly trans	501-98-4	500.48	43.931	2	16311	C9H9ClO2	benzyloxyacetyl chloride	19810-31-2	491.59	43.076	2
16224	C9H8O3	m-hydroxycinnamic acid, predominantly trans	14755-02-3	500.48	43.931	2	16312	C9H9ClO2	2-(chloromethyl)phenyl acetate	15068-08-3	491.59	43.076	2
16225	C9H8O3	o-hydroxycinnamic acid, predominantly trans	614-60-8	500.48	43.931	2	16313	C9H9ClO2	4-(chloromethyl)phenyl acetate	39720-27-9	513.15	45.149	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
16314	C9H9ClO2	4-methoxyphenacyl chloride	2196-99-8	491.59	43.076	2	16412	C9H9NO	2-ethylbenzoxazole	6797-13-3	606.15	54.171	2
16315	C9H9ClO2	3-methoxyphenylacetyl chloride	6834-42-0	491.59	43.076	2	16413	C9H9NO	indole-3-carbinol	700-06-1	489.83	42.908	2
16316	C9H9ClO2	methyl 3-chlorophenylacetate	53088-68-9	491.59	43.076	2	16414	C9H9NOS	4-methoxybenzylisothiocyanate	3694-57-3	561.15	49.789	2
16317	C9H9ClO2	methyl 4-chlorophenylacetate	52449-43-1	491.59	43.076	2	16415	C9H9NOS	5-methoxy-2-methylbenzothiazole	2941-69-7	561.15	49.789	2
16318	C9H9ClO2	methyl 2-chlorophenylacetate	57486-68-7	491.59	43.076	2	16416	C9H9NOS	6-methoxy-2-methylbenzothiazole	2941-72-2	561.15	49.789	2
16319	C9H9ClO2	methyl a-chlorophenylacetate	7476-66-6	401.15	34.474	1,2	16417	C9H9NOS	2-methoxy-5-methylphenylisothiocyanate	190774-56-2	561.15	49.789	2
16320	C9H9ClO2	2-chloromethyl-p-anisaldehyde	73637-11-3	491.59	43.076	2	16418	C9H9NOS	2-methoxy-5-methylphenyl isothiocyanate	190774-56-2	561.15	49.789	1,2
16321	C9H9ClO2	4-chlorophenyl glycidyl ether	2212-05-7	491.59	43.076	2	16420	C9H9NO2	2,6-dimethoxybenzonitrile	16932-49-3	583.15	51.928	1,2
16323	C9H9ClO3	2-chloro-1-(4-hydroxy-3-methoxyphenyl)ethano*	6344-28-1	526.65	46.451	2	16421	C9H9NO2	1-(2-pyridinyl)-1,3-butanedione	40614-52-6	533.98	47.159	2
16324	C9H9ClO3	(4-chloro-2-methylphenoxy)acetic acid	94-74-6	526.65	46.451	2	16422	C9H9NO2	1-(3-pyridinyl)-1,3-butanedione	3594-37-4	533.98	47.159	2
16325	C9H9ClO3	cloprop	101-10-0	526.65	46.451	2	16423	C9H9NO2	1-(4-pyridinyl)-1,3-butanedione	75055-73-1	533.98	47.159	2
16326	C9H9ClO3	ethyl 3-chloro-2-hydroxybenzoate	56961-32-1	542.65	47.997	1,2	16424	C9H9NO2	4-acetamidobenzaldehyde	122-85-0	533.98	47.159	2
16327	C9H9ClO3	2-(2-chlorophenoxy)propionic acid	25140-86-7	526.65	46.451	2	16425	C9H9NO2	4-acetaminobenzaldehyde	6051-41-8	533.98	47.159	2
16328	C9H9ClO3	3,5-dimethoxybenzoyl chloride	17213-57-9	526.65	46.451	2	16426	C9H9NO2	2,6-diacetylpyridine	1129-30-2	533.98	47.159	2
16329	C9H9ClO3	3,4-dimethoxybenzoyl chloride	3535-37-3	526.65	46.451	2	16427	C9H9NO2	6,7-dihydroxy-3,4-dihydroisoquinoline	4602-83-9	533.98	47.159	2
16330	C9H9ClO3	methyl 5-chloro-2-methoxybenzoate	33924-48-0	510.65	44.908	1,2	16428	C9H9NO2	3,5-dimethoxybenzonitrile	19179-31-8	533.98	47.159	2
16343	C9H9FO2	ethyl 4-fluorobenzoate	451-46-7	483.15	42.268	1,2	16429	C9H9NO2	3,4-dimethoxybenzonitrile	2024-83-1	533.98	47.159	2
16344	C9H9FO2	ethyl 3-fluorobenzoate	451-02-5	483.15	42.268	2	16430	C9H9NO2	2,4-dimethoxybenzonitrile	4107-65-7	533.98	47.159	2
16345	C9H9FO2	3'-fluoro-4'-methoxyacetophenone	455-91-4	483.15	42.268	2	16431	C9H9NO2	2,3-dimethoxybenzonitrile	5653-62-3	533.98	47.159	2
16346	C9H9FO2	2'-fluoro-4'-methoxyacetophenone	74457-86-6	483.15	42.268	2	16432	C9H9NO2	4-ethoxyphenyl isocyanate	32459-62-4	505.65	44.427	1,2
16347	C9H9FO2	[(4-fluorophenoxy)methyl]oxirane	108648-25-5	483.15	42.268	2	16433	C9H9NO2	2-ethoxyphenyl isocyanate	5395-71-1	533.98	47.159	2
16348	C9H9FO2	methyl 4-fluorophenylacetate	34837-84-8	483.15	42.268	2	16434	C9H9NO2	4-hydroxy-3-methoxyphenylacetonitrile	4468-59-1	533.98	47.159	2
16349	C9H9FO2	methyl 2-fluorophenylacetate	57486-67-6	483.15	42.268	2	16435	C9H9NO2	(S)-(-)-indoline-2-carboxylic acid	79815-20-6	533.98	47.159	2
16350	C9H9FO2	methyl 3-fluorophenylacetate	64123-77-9	483.15	42.268	2	16436	C9H9NO2	4-methoxybenzyl isocyanate	56651-60-6	533.98	47.159	2
16351	C9H9F3O	a-methyl-4-(trifluoromethyl)benzyl alcohol	1737-26-4	458.15	39.878	2	16437	C9H9NO2	2-methoxy-5-methylphenyl isocyanate	59741-04-7	513.15	45.149	1,2
16352	C9H9F3O	a-methyl-3-(trifluoromethyl)benzyl alcohol	454-91-1	458.15	39.878	2	16438	C9H9NO2	4-methoxy-2-methylphenyl isocyanate	60385-06-0	533.98	47.159	2
16353	C9H9F3O	a-methyl-o-(trifluoromethyl)benzyl alcohol	79756-81-3	458.15	39.878	2	16439	C9H9NO2	4-nitroindan	34701-14-9	533.98	47.159	2
16354	C9H9F3O	3-(trifluoromethyl)phenethyl alcohol	455-01-6	458.15	39.878	2	16440	C9H9NO2	(R)-(-)-4-phenyl-2-oxazolidinone	90319-52-1	533.98	47.159	2
16355	C9H9F3O	2-(trifluoromethyl)phenethyl alcohol	94022-96-5	458.15	39.878	1,2	16441	C9H9NO2	(S)-(+)-4-phenyl-2-oxazolidinone	99395-88-7	533.98	47.159	2
16358	C9H9F5Si	trimethyl(pentafluorophenyl)silane	1206-46-8	443.15	38.450	1,2	16442	C9H9NO2	1-phenyl-1,2-propanedione-2-oxime	119-51-7	533.98	47.159	2
16360	C9H9IO2	ethyl 4-iodobenzoate	51934-41-9	555.15	49.207	1,2	16443	C9H9NO2	cinnamohydroxamic acid	3669-32-7	533.98	47.159	2
16361	C9H9IO2	ethyl 3-iodobenzoate	58313-23-8	545.15	48.239	1,2	16444	C9H9NO2	5-nitroindane	7436-07-9	533.98	47.159	2
16364	C9H9N	benzenepropanenitrile	645-59-0	534.15	47.175	1,2	16445	C9H9NO2	4-oxo-4-(3-pyridyl)butanal	76014-80-7	533.98	47.159	2
16365	C9H9N	2-methylbenzeneacetonitrile	22364-68-7	517.15	45.534	1,2	16447	C9H9NO2S	2,5-dimethoxyphenyl isothiocyanate	40532-06-7	283.15	23.513	1,2
16366	C9H9N	3-methylbenzeneacetonitrile	2947-60-6	521.15	45.920	1,2	16464	C9H9NO4	[2-(aminocarbonyl)phenoxy]acetic acid	25395-22-6	525.92	46.380	2
16367	C9H9N	4-methylbenzeneacetonitrile	2947-61-7	515.65	45.390	1,2	16465	C9H9NO4	benzadox	5251-93-4	525.92	46.380	2
16368	C9H9N	alpha-methylbenzeneacetonitrile	1823-91-2	504.15	44.283	1,2	16466	C9H9NO4	ethyl 2-nitrobenzoate	610-34-4	548.15	48.529	1,2
16369	C9H9N	1-methyl-1H-indole	603-76-9	510.15	44.860	1,2	16467	C9H9NO4	ethyl 3-nitrobenzoate	618-98-4	570.15	50.663	1,2
16370	C9H9N	2-methyl-1H-indole	95-20-5	545.15	48.239	1,2	16468	C9H9NO4	ethyl 4-nitrobenzoate	99-77-4	459.45	40.002	1,2
16371	C9H9N	3-methyl-1H-indole	83-34-1	539.15	47.658	1,2	16469	C9H9NO4	3-(2-nitrophenyl)propanoic acid	2001-32-3	525.92	46.380	2
16372	C9H9N	4-methyl-1H-indole	16096-32-5	540.15	47.755	1,2	16470	C9H9NO4	3-(4-nitrophenyl)propanoic acid	16642-79-8	525.92	46.380	2
16373	C9H9N	5-methyl-1H-indole	614-96-0	540.15	47.755	1,2	16471	C9H9NO4	N-(2-carboxyphenyl)glycine	612-42-0	525.92	46.380	2
16374	C9H9N	7-methyl-1H-indole	933-67-5	539.15	47.658	1,2	16472	C9H9NO4	1,2-epoxy-3-(4-nitrophenoxy)propane	5255-75-4	525.92	46.380	2
16375	C9H9N	2,3-dimethylbenzonitrile	5724-56-1	526.36	46.422	2	16473	C9H9NO4	a-hydroxyhippuric acid	16555-77-4	525.92	46.380	2
16376	C9H9N	2,6-dimethylbenzonitrile	6575-13-9	526.36	46.422	2	16474	C9H9NO4	2-hydroxyhippuric acid	487-54-7	525.92	46.380	2
16377	C9H9N	4-ethylbenzonitrile	25309-65-3	510.15	44.860	1,2	16475	C9H9NO4	4-nitrobenzyl acetate	619-90-9	525.92	46.380	2
16378	C9H9N	2-ethylbenzonitrile	34136-59-9	526.36	46.422	2	16476	C9H9NO4	trans-(+)-3-(4-nitrophenyl)oxiranemethanol	37141-32-5	525.92	46.380	2
16379	C9H9N	6-methylindole	3420-02-8	526.36	46.422	2	16477	C9H9NO4	trans-(-)-3-(4-nitrophenyl)oxiranemethanol	1885-07-0	525.92	46.380	2
16380	C9H9N	tripropargylamine	6921-29-5	526.36	46.422	2	16484	C9H9NS	2,5-dimethylbenzothiazole	95-26-1	494.78	43.382	2
16381	C9H9NO	3,4-dihydro-2(1H)-quinolinone	553-03-7	489.83	42.908	2	16485	C9H9NS	2,6-dimethylphenyl isothiocyanate	19241-16-8	520.15	45.824	1,2
16382	C9H9NO	2,5-dimethylbenzoxazole	5676-58-4	491.65	43.082	1,2	16486	C9H9NS	4-ethylphenyl isothiocyanate	18856-63-8	517.65	45.583	1,2
16383	C9H9NO	2-ethoxybenzonitrile	6609-57-0	533.65	47.127	1,2	16487	C9H9NS	2-ethylphenyl isothiocyanate	19241-19-1	524.15	46.209	1,2
16384	C9H9NO	4-ethoxybenzonitrile	25117-74-2	531.15	46.885	1,2	16488	C9H9NS	2-phenylethyl isothiocyanate	2257-09-2	417.15	35.984	1,2
16385	C9H9NO	2-methoxybenzeneacetonitrile	7035-03-2	489.83	42.908	2	16492	C9H9N3O	2,4-dihydro-5-amino-2-phenyl-3H-pyrazol-3-one	4149-06-8	528.15	46.595	1,2
16386	C9H9NO	4-methoxybenzeneacetonitrile	104-47-2	559.65	49.644	1,2	16493	C9H9N3O	3-phenylpropionyl azide	---	528.15	46.595	2
16387	C9H9NO	7-methoxy-1H-indole	3189-22-8	489.83	42.908	2	16496	C9H9N3O2S	methylbenzothiadiazine carbamate	33082-92-7	314.65	26.405	1,2
16388	C9H9NO	cinnamamide, predominantly trans	621-79-4	489.83	42.908	2	16499	C9H9N3O3W	triacetonitrile tungsten tricarbonyl	16800-47-8	307.15	25.714	1,2
16389	C9H9NO	2,6-dimethylbenzoxazole	53012-61-6	489.83	42.908	2	16508	C9H10	indane	496-11-7	451.12	39.543	1,2
16390	C9H9NO	3,5-dimethyl-4-hydroxybenzonitrile	4198-90-7	489.83	42.908	2	16509	C9H10	cis-1-propenylbenzene	766-90-5	443.16	38.740	1,2
16391	C9H9NO	2,3-dimethylphenyl isocyanate	1591-99-7	489.83	42.908	2	16510	C9H10	trans-1-propenylbenzene	873-66-5	443.16	38.740	1,2
16392	C9H9NO	2,6-dimethylphenyl isocyanate	28556-81-2	356.65	30.301	1,2	16511	C9H10	2-propenylbenzene	300-57-2	428.95	37.391	1,2
16393	C9H9NO	2,5-dimethylphenyl isocyanate	40397-98-6	483.15	42.268	1,2	16512	C9H10	alpha-methylstyrene	98-83-9	438.65	38.543	1,2
16394	C9H9NO	3,4-dimethylphenyl isocyanate	51163-27-0	489.83	42.908	2	16513	C9H10	m-methylstyrene	100-80-1	444.75	39.424	1,2
16395	C9H9NO	2,4-dimethylphenyl isocyanate	51163-29-2	489.83	42.908	2	16514	C9H10	o-methylstyrene	611-15-4	442.96	40.057	1,2
16396	C9H9NO	3,5-dimethylphenyl isocyanate	54132-75-1	489.83	42.908	2	16515	C9H10	p-methylstyrene	622-97-9	445.93	39.462	1,2
16397	C9H9NO	3-ethoxybenzonitrile	25117-75-3	515.65	45.390	1,2	16516	C9H10	1-propenylbenzene	637-50-3	448.65	41.760	1,2
16398	C9H9NO	4-ethylphenyl isocyanate	23138-50-3	489.83	42.908	2	16517	C9H10	cyclopropylbenzene	873-49-4	446.75	38.792	1,2
16399	C9H9NO	3-ethylphenyl isocyanate	23138-58-1	489.83	42.908	2	16518	C9H10	1-methyl-1,3,5,7-cyclooctatetraene	2570-12-9	443.32	38.466	2
16400	C9H9NO	2-ethylphenyl isocyanate	40411-25-4	489.83	42.908	2	16519	C9H10	methylstyrene	25013-15-4	442.65	39.040	1,2
16401	C9H9NO	1-furfurylpyrrole	1438-94-4	489.83	42.908	2	16520	C9H10	3(4)-methylstyrene, isomers	39294-88-7	443.15	39.200	1,2
16402	C9H9NO	5-methoxyindole	1006-94-6	489.83	42.908	2	16528	C9H10ClNO	2-chloro-4-acetotoluidide	16634-82-5	364.15	31.001	2
16403	C9H9NO	4-methoxyindole	4837-90-5	489.83	42.908	2	16529	C9H10ClNO	3'-chloro-p-acetotoluidide	7149-79-3	353.15	29.974	1,2
16404	C9H9NO	3-methoxyphenylacetonitrile	19924-43-7	489.83	42.908	2	16530	C9H10ClNO	2-chloro-1-nitroso-2-phenylpropane	6866-10-0	375.15	32.030	1,2
16405	C9H9NO	(S)-(-)-a-methylbenzyl isocyanate	14649-03-7	328.15	27.652	1,2	16537	C9H10ClN5O2	1-((6-chloro-3-pyridinyl)methyl)-N-nitro-2-i*	138261-41-3	366.65	31.235	1,2
16406	C9H9NO	(R)-(+)-a-methylbenzyl isocyanate	33375-06-3	489.83	42.908	2	16538	C9H10Br2	2,4-dibromo-1,3,5-trimethylbenzene	6942-99-0	558.15	49.498	1,2
16407	C9H9NO	4-methylbenzyl isocyanate	56651-57-1	489.83	42.908	2	16539	C9H10Cl2	2,4-dichloro-1,3,5-trimethylbenzene	57386-83-1	516.65	45.486	1,2
16408	C9H9NO	2-methylbenzyl isocyanate	56651-58-2	499.15	43.802	1,2	16542	C9H10Cl3O3PS	trichlorometaphos-3	2633-54-7	365.65	31.141	1,2
16409	C9H9NO	3-methylbenzyl isocyanate	61924-25-2	489.83	42.908	2	16547	C9H10FNO2	p-fluoro-D-phenylalanine	18125-46-7	338.15	28.579	1,2
16410	C9H9NO	phenethyl isocyanate	1943-82-4	483.15	42.268	1,2	16548	C9H10FNO2	3-fluorophenylalanine	456-88-2	356.90	30.324	2
16411	C9H9NO	2-phenyl-2-oxazoline	7127-19-7	489.83	42.908	2	16549	C9H10FNO2	3-(o-fluorophenyl)alanine	325-69-9	375.65	32.077	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
16550	C9H10FNO2	4-fluorophenylalanine	60-17-3	356.90	30.324	2	16655	C9H10O2	3,5-dimethylbenzoic acid	499-06-9	504.72	44.337	2
16553	C9H10F3NO	a-aminomethyl-m-trifluoromethylbenzyl alcohol	21172-28-1	414.15	35.701	1,2	16656	C9H10O2	2-ethylbenzoic acid	612-19-1	532.15	46.982	1,2
16557	C9H10HgN4O4	8-theophylline mercuric acetate	6336-12-5	379.15	32.405	1,2	16657	C9H10O2	3-ethylbenzoic acid	619-20-5	504.72	44.337	2
16562	C9H10NO3PS	cyanophos	2636-26-2	392.65	33.673	1,2	16658	C9H10O2	2-ethoxybenzaldehyde	613-69-4	521.15	45.920	1,2
16563	C9H10MgN2O4	pemoline magnesium	18968-99-5	365.40	31.118	1,2	16659	C9H10O2	3-ethoxybenzaldehyde	22924-15-8	518.65	45.679	1,2
16565	C9H10N2	4,5-dihydro-1-phenyl-1H-pyrazole	936-53-8	546.15	48.336	1,2	16660	C9H10O2	4-ethoxybenzaldehyde	10031-82-0	522.15	46.016	1,2
16566	C9H10N2	4,5-dihydro-3-phenyl-1H-pyrazole	936-48-1	551.29	48.834	2	16661	C9H10O2	1-(2-hydroxy-4-methylphenyl)ethanone	6921-64-8	518.15	45.631	1,2
16567	C9H10N2	1,5-dimethyl-1H-benzimidazole	10394-35-1	573.15	50.955	1,2	16662	C9H10O2	1-(2-hydroxy-5-methylphenyl)ethanone	1450-72-2	483.15	42.268	1,2
16568	C9H10N2	2,5-dimethyl-1H-benzimidazole	1792-41-2	623.15	55.834	1,2	16663	C9H10O2	1-(4-hydroxy-2-methylphenyl)ethanone	875-59-2	586.15	52.220	1,2
16569	C9H10N2	5,6-dimethyl-1H-benzimidazole	582-60-5	551.29	48.834	2	16664	C9H10O2	1-(2-hydroxyphenyl)-1-propanone	610-99-1	504.72	44.337	2
16570	C9H10N2	1,5-dimethyl-1H-indazole	70127-93-4	533.15	47.078	1,2	16665	C9H10O2	1-(4-hydroxyphenyl)-1-propanone	70-70-2	504.72	44.337	2
16571	C9H10N2	2,3-dimethyl-2H-indazole	50407-18-6	559.15	49.595	1,2	16666	C9H10O2	2-hydroxy-1-phenyl-1-propanone	5650-40-8	524.15	46.209	1,2
16572	C9H10N2	2,2'-dipyrrolylmethane	21211-65-4	551.29	48.834	2	16667	C9H10O2	3-hydroxy-1-phenyl-1-propanone	5650-41-9	504.72	44.337	2
16573	C9H10N2	2-ethylbenzimidazole	1848-84-6	551.29	48.834	2	16668	C9H10O2	2-methoxybenzeneacetaldehyde	33567-59-8	518.15	45.631	1,2
16574	C9H10N2	5-amino-2-methylindole	7570-49-2	433.15	37.500	1,2	16669	C9H10O2	4-methoxybenzeneacetaldehyde	5703-26-4	528.65	46.644	1,2
16575	C9H10N2	3-anilinopropionitrile	1075-76-9	551.29	48.834	2	16670	C9H10O2	4-methoxy-3-methylbenzaldehyde	32723-67-4	526.15	46.402	1,2
16576	C9H10N2	4-(dimethylamino)benzonitrile	1197-19-9	591.15	52.707	1,2	16671	C9H10O2	1-(3-methoxyphenyl)ethanone	586-37-8	513.15	45.149	1,2
16577	C9H10N2	2-phenyl-2-imidazoline	936-49-2	551.29	48.834	2	16672	C9H10O2	2-methoxy-1-phenylethanone	4079-52-1	518.15	45.631	1,2
16578	C9H10N2	1-ethyl-1H-indazole	43120-22-5	551.29	48.834	2	16673	C9H10O2	alpha-methylbenzeneacetic acid, (±)	2328-24-7	536.15	47.368	1,2
16585	C9H10N2O3	(2-benzamido)acetohydroxamic acid	1499-54-3	408.35	35.153	2	16674	C9H10O2	3-methylbenzeneacetic acid	621-36-3	504.72	44.337	2
16586	C9H10N2O3	methylazoxymethyl benzoate	3527-05-7	408.35	35.153	2	16675	C9H10O2	4-methylbenzeneacetic acid	622-47-9	538.15	47.561	1,2
16587	C9H10N2O3	3-methylphenyl-N-methyl-N-nitrosocarbamate	58139-35-8	408.35	35.153	1,2	16676	C9H10O2	ethyl benzoate	93-89-0	486.55	44.642	1,2
16589	C9H10N2O4	1,3,5-trimethyl-2,4-dinitrobenzene	608-50-4	372.15	31.749	2	16677	C9H10O2	methyl 2-methylbenzoate	89-71-4	488.15	42.747	1,2
16590	C9H10N2O4	N-(2-hydroxyethyl)-3-nitrobenzylidenimine N-*	40343-32-6	372.15	31.749	2	16678	C9H10O2	methyl 3-methylbenzoate	99-36-5	494.15	43.322	1,2
16591	C9H10N2O4	N-(2-hydroxyethyl)-4-nitrobenzylidenimine N-*	40343-30-4	372.15	31.749	2	16679	C9H10O2	methyl 4-methylbenzoate	99-75-2	493.15	43.226	1,2
16592	C9H10N2O4	2-nitro-p-acetanisidide	119-81-3	372.15	31.749	1,2	16680	C9H10O2	benzyl acetate	140-11-4	486.65	44.583	1,2
16597	C9H10N2S	isothiocyanic acid, p-dimethylaminophenyl es*	2131-64-8	371.35	31.674	2	16681	C9H10O2	2-methylphenyl acetate	533-18-6	481.15	42.076	1,2
16598	C9H10N2S	4-thiocyano-N,N-dimethylaniline	7152-80-9	371.35	31.674	1,2	16682	C9H10O2	3-methylphenyl acetate	122-46-3	485.15	42.459	1,2
16599	C9H10N4O	1-(2-benzimidazolyl)-3-methylurea	21035-25-6	361.55	30.758	1,2	16683	C9H10O2	4-methylphenyl acetate	140-39-6	485.65	42.507	1,2
16600	C9H10N4O2S2	N1-(5-methyl-1,3,4-thiadiazol-2-yl)-sulfanil*	144-82-1	449.15	39.021	1,2	16684	C9H10O2	methyl 2-phenylacetate	101-41-7	489.65	42.891	1,2
16601	C9H10N4O3S	2-(2,2-dimethylhydrazino)-4-(5-nitro-2-furyl*	26049-69-4	401.15	34.474	1,2	16685	C9H10O2	1-phenoxy-2-propanone	621-87-4	502.65	44.139	1,2
16604	C9H10N4S	2-hydrazino-4-(p-aminophenyl)thiazole	26049-71-8	375.45	32.058	1,2	16686	C9H10O2	phenyl glycidyl ether	122-60-1	516.15	45.438	1,2
16605	C9H10O	2-allylphenol	1745-81-9	493.15	43.226	1,2	16687	C9H10O2	3-phenyloxiranemethanol	21915-53-7	504.72	44.337	2
16606	C9H10O	4-allylphenol	501-92-8	511.15	44.956	1,2	16688	C9H10O2	phenyl propanoate	637-27-4	484.15	42.363	1,2
16607	C9H10O	2-(1-propenyl)phenol	6380-21-8	493.15	43.226	1,2	16689	C9H10O2	benzyloxyacetaldehyde	60656-87-3	504.72	44.337	2
16608	C9H10O	trans-2-(1-propenyl)phenol	23619-59-2	503.65	44.235	1,2	16690	C9H10O2	4-chromanol	1481-93-2	504.72	44.337	2
16609	C9H10O	allyl phenyl ether	1746-13-0	464.85	40.517	1,2	16691	C9H10O2	2,3-dimethylbenzoic acid	603-79-2	504.72	44.337	2
16610	C9H10O	(2-methoxyvinyl)benzene	4747-15-3	484.65	42.411	1,2	16692	C9H10O2	3,4-dimethylbenzoic acid	619-04-5	504.72	44.337	2
16611	C9H10O	1-vinyl-2-methoxybenzene	612-15-7	470.15	41.024	1,2	16693	C9H10O2	4-ethylbenzoic acid	619-64-7	504.72	44.337	2
16612	C9H10O	1-vinyl-3-methoxybenzene	626-20-0	493.31	43.241	2	16694	C9H10O2	4-hydroxy-3,5-dimethylbenzaldehyde	2233-18-3	504.72	44.337	2
16613	C9H10O	1-vinyl-4-methoxybenzene	637-69-4	478.15	41.789	1,2	16695	C9H10O2	4-hydroxy-2,6-dimethylbenzaldehyde	70547-87-4	504.72	44.337	2
16614	C9H10O	benzenepropanal	104-53-0	497.15	43.610	1,2	16696	C9H10O2	4'-hydroxy-3'-methylacetophenone	876-02-8	504.72	44.337	2
16615	C9H10O	2,4-dimethylbenzaldehyde	15764-16-6	491.15	43.034	1,2	16697	C9H10O2	2'-methoxyacetophenone	579-74-8	504.72	44.337	2
16616	C9H10O	2,5-dimethylbenzaldehyde	5779-94-2	493.15	43.226	1,2	16698	C9H10O2	2-phenyl-1,3-dioxolane	936-51-6	413.25	35.616	1,2
16617	C9H10O	3,5-dimethylbenzaldehyde	5779-95-3	494.15	43.322	1,2	16699	C9H10O2	(2S,3S)-3-phenylglycidol	104196-23-8	504.72	44.337	2
16618	C9H10O	2-ethylbenzaldehyde	22927-13-5	482.15	42.172	1,2	16700	C9H10O2	(2R,3R)-3-phenylglycidol	98819-68-2	504.72	44.337	2
16619	C9H10O	alpha-methylbenzeneacetaldehyde	93-53-8	476.65	41.645	1,2	16701	C9H10O2	(±)-2-phenylpropionic acid	492-37-5	534.15	47.175	1,2
16620	C9H10O	2-methylbenzeneacetaldehyde	10166-08-2	494.15	43.322	1,2	16702	C9H10O2	(S)-(+)-2-phenylpropionic acid	7782-24-3	504.72	44.337	2
16621	C9H10O	4-methylbenzeneacetaldehyde	104-09-6	494.65	43.370	1,2	16703	C9H10O2	(R)-(-)-2-phenylpropionic acid	7782-26-5	504.72	44.337	2
16622	C9H10O	3,4-dihydro-1H-2-benzopyran	493-05-0	493.31	43.241	2	16704	C9H10O2	o-tolylacetic acid	644-36-0	504.72	44.337	2
16623	C9H10O	3,4-dihydro-2H-1-benzopyran	493-08-3	488.15	42.747	1,2	16705	C9H10O2	2-phenylethyl formate	104-62-1	468.75	40.890	1,2
16624	C9H10O	cis-3-phenyl-2-propen-1-ol	4510-34-3	530.65	46.837	1,2	16706	C9H10O2	p-pseudocumoquinone	935-92-2	366.15	31.188	1,2
16625	C9H10O	trans-3-phenyl-2-propen-1-ol	4407-36-7	530.65	46.837	1,2	16707	C9H10O2	4-vinylguaiacol	7786-61-0	437.15	37.880	1,2
16626	C9H10O	alpha-vinylbenzenemethanol	4393-06-0	493.31	43.241	2	16707.1	C9H10O2	phenyl ethyl formate	7775-38-4	477.00	44.345	1,2
16627	C9H10O	2,3-dihydro-1H-inden-1-ol	6351-10-6	493.15	43.226	1,2	16711	C9H10O3	ethyl vanillin	121-32-4	567.00	69.051	1,2
16628	C9H10O	2,3-dihydro-1H-inden-5-ol	1470-94-6	526.15	46.402	1,2	16712	C9H10O3	1-(2,4-dihydroxyphenyl)-1-propanone	5792-36-9	520.33	45.841	2
16629	C9H10O	2,3-dihydro-2-methylbenzofuran	1746-11-8	470.65	41.071	1,2	16713	C9H10O3	2,4-dimethoxybenzaldehyde	613-45-6	563.15	49.984	1,2
16630	C9H10O	2,3-dihydro-5-methylbenzofuran	76429-68-0	483.65	42.315	1,2	16714	C9H10O3	2,5-dimethoxybenzaldehyde	93-02-7	543.15	48.045	1,2
16631	C9H10O	4-methylacetophenone	122-00-9	499.15	43.802	1,2	16715	C9H10O3	3,4-dimethoxybenzaldehyde	120-14-9	554.15	49.111	1,2
16632	C9H10O	1-(2-methylphenyl)ethanone	577-16-2	487.15	42.651	1,2	16716	C9H10O3	3,5-dimethoxybenzaldehyde	7311-34-4	520.33	45.841	2
16633	C9H10O	1-(3-methylphenyl)ethanone	585-74-0	493.15	43.226	1,2	16717	C9H10O3	2-ethoxybenzoic acid	134-11-2	520.33	45.841	2
16634	C9H10O	1-phenyl-1-propanone	93-55-0	490.65	42.986	1,2	16718	C9H10O3	3-ethoxybenzoic acid	621-51-2	520.33	45.841	2
16635	C9H10O	1-phenyl-2-propanone	103-79-7	489.65	42.891	1,2	16719	C9H10O3	5-ethoxy-2-hydroxybenzaldehyde	80832-54-8	503.15	44.187	1,2
16636	C9H10O	2-methyl-2-phenyloxirane	2085-88-3	493.31	43.241	2	16720	C9H10O3	ethylene glycol monobenzoate	94-33-7	520.33	45.841	2
16637	C9H10O	cinnamyl alcohol	104-54-1	527.15	46.499	1,2	16721	C9H10O3	ethyl 2-furanacrylate	623-20-1	505.15	44.379	1,2
16638	C9H10O	3,4-dimethylbenzaldehyde	5973-71-7	499.15	43.802	1,2	16722	C9H10O3	ethyl 3-hydroxybenzoate	7781-98-8	520.33	45.841	2
16639	C9H10O	(2,3-epoxypropyl)benzene	4436-24-2	493.31	43.241	2	16723	C9H10O3	ethyl 4-hydroxybenzoate	120-47-8	570.65	50.712	1,2
16640	C9H10O	4-ethylbenzaldehyde	4748-78-1	494.15	43.322	1,2	16724	C9H10O3	ethyl salicylate	118-61-6	520.33	45.841	2
16641	C9H10O	2-indanol	4254-29-9	493.31	43.241	2	16725	C9H10O3	4-hydroxybenzenepropanoic acid	501-97-3	520.33	45.841	2
16642	C9H10O	DL-2-phenylpropionaldehyde	34713-70-7	476.65	41.645	1,2	16726	C9H10O3	alpha-hydroxybenzenepropanoic acid, (±)	828-01-3	520.33	45.841	2
16643	C9H10O	(1R,2R)-(+)-1-phenylpropylene oxide	14212-54-5	477.15	41.693	1,2	16727	C9H10O3	1-(2-hydroxy-4-methoxyphenyl)ethanone	552-41-0	520.33	45.841	2
16644	C9H10O	a-vinylbenzyl alcohol	42273-76-7	493.31	43.241	2	16728	C9H10O3	1-(4-hydroxy-3-methoxyphenyl)ethanone	498-02-2	570.15	50.663	1,2
16645	C9H10O	vinylbenzyl alcohol, isomers, stabilized	30584-69-1	493.31	43.241	2	16729	C9H10O3	alpha-(hydroxymethyl)benezeneacetic acid	529-64-6	520.33	45.841	2
16646	C9H10O	p-methylstyrene oxide	13107-39-6	493.31	43.241	2	16730	C9H10O3	alpha-hydroxy-alpha-methylbenezeneacetic acid	515-30-0	520.33	45.841	2
16649	C9H10O2	4-acetylanisole	100-06-1	531.15	46.885	1,2	16731	C9H10O3	2-methoxybenzeneacetic acid	93-25-4	520.33	45.841	2
16650	C9H10O2	3-allyl-1,2-benzenediol	1125-74-2	504.72	44.337	2	16732	C9H10O3	4-methoxybenzeneacetic acid	104-01-8	520.33	45.841	2
16651	C9H10O2	benzenepropanoic acid	501-52-0	552.95	48.994	1,2	16733	C9H10O3	2-methoxyphenyl acetate	613-70-7	520.33	45.841	2
16652	C9H10O2	2,4-dimethylbenzoic acid	611-01-8	541.15	47.852	1,2	16734	C9H10O3	methyl 2-hydroxy-3-methylbenzoate	23287-26-5	508.15	44.668	1,2
16653	C9H10O2	2,5-dimethylbenzoic acid	610-72-0	504.72	44.337	2	16735	C9H10O3	methyl 2-hydroxy-4-methylbenzoate	4670-56-8	516.15	45.438	1,2
16654	C9H10O2	2,6-dimethylbenzoic acid	632-46-2	547.65	48.481	1,2	16736	C9H10O3	methyl 2-hydroxy-5-methylbenzoate	22717-57-3	517.65	45.583	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
16737	C9H10O3	methyl alpha-hydroxyphenylacetate, (±)	4358-87-6	523.15	46.113	2	16824	C9H11Br	(2-bromo-1-methylethyl)benzene	1459-00-3	461.65	40.212	1,2
16738	C9H10O3	methyl 3-methoxybenzoate	5368-81-0	521.15	45.920	1,2	16825	C9H11Br	(1-bromopropyl)benzene, (±)	63790-14-7	492.96	43.208	2
16739	C9H10O3	methyl 4-methoxybenzoate	121-98-2	517.15	45.534	1,2	16826	C9H11Br	(2-bromopropyl)benzene	2114-39-8	492.96	43.208	2
16740	C9H10O3	methyl 2-methoxybenzoate	606-45-1	519.65	45.775	1,2	16827	C9H11Br	(3-bromopropyl)benzene	637-59-2	492.65	43.178	1,2
16741	C9H10O3	methyl phenoxyacetate	2065-23-8	518.15	45.631	1,2	16828	C9H11Br	1-bromo-2,3,5-trimethylbenzene	31053-99-3	511.15	44.956	1,2
16742	C9H10O3	2-phenoxypropanoic acid, (±)	1912-21-6	538.65	47.610	1,2	16829	C9H11Br	1-bromo-2,4,5-trimethylbenzene	5469-19-2	507.15	44.572	1,2
16743	C9H10O3	3-phenoxypropanoic acid	7170-38-9	513.15	45.149	1,2	16830	C9H11Br	2-bromo-1,3,5-trimethylbenzene	576-83-0	498.15	43.706	1,2
16744	C9H10O3	benzyl glycolate	30379-58-9	520.33	45.841	2	16831	C9H11Br	1-bromo-2-(1-methylethyl)benzene	7073-94-1	483.45	42.296	1,2
16745	C9H10O3	benzyloxyacetic acid	30379-55-6	520.33	45.841	2	16832	C9H11Br	1-bromo-4-propylbenzene	588-93-2	498.15	43.706	1,2
16746	C9H10O3	2',4'-dihydroxy-3'-methylacetophenone	10139-84-1	520.33	45.841	2	16833	C9H11Br	1-bromo-3-(1-methylethyl)benzene	5433-01-2	482.20	42.177	1,2
16747	C9H10O3	2',5'-dihydroxypropiophenone	938-46-5	520.33	45.841	2	16837	C9H11BrO	(3-bromopropoxy)benzene	588-63-6	519.65	45.775	2
16748	C9H10O3	2,6-dimethoxybenzaldehyde	3392-97-0	558.15	49.498	1,2	16838	C9H11BrO	benzyl 2-bromoethyl ether	1462-37-9	527.15	46.499	1,2
16749	C9H10O3	2,3-dimethoxybenzaldehyde	86-51-1	520.33	45.841	2	16839	C9H11BrO	4-bromo-2,6-dimethylanisole	14804-38-7	519.65	45.775	2
16750	C9H10O3	4-ethoxybenzoic acid	619-86-3	520.33	45.841	2	16840	C9H11BrO	4-n-propoxybromobenzene	39969-56-7	512.15	45.053	1,2
16751	C9H10O3	3-ethoxysalicylaldehyde	492-88-6	536.65	47.416	1,2	16841	C9H11BrO2	4-bromobenzaldehyde dimethyl acetal	24856-58-4	527.15	46.499	1,2
16752	C9H10O3	furfuryl methacrylate	3454-28-2	520.33	45.841	2	16843	C9H11Cl	1-chloro-2-isopropylbenzene	2077-13-6	464.25	40.460	1,2
16753	C9H10O3	4-hydroxy-3,5-dimethylbenzoic acid	4919-37-3	520.33	45.841	2	16844	C9H11Cl	1-chloro-4-isopropylbenzene	2621-46-7	471.45	41.148	1,2
16754	C9H10O3	2'-hydroxy-6'-methoxyacetophenone	703-23-1	520.33	45.841	2	16845	C9H11Cl	1-(chloromethyl)-2,4-dimethylbenzene	824-55-5	488.65	42.795	1,2
16755	C9H10O3	2'-hydroxy-5'-methoxyacetophenone	705-15-7	520.33	45.841	2	16846	C9H11Cl	(1-chloro-1-methylethyl)benzene	934-53-2	481.97	42.154	2
16756	C9H10O3	2-hydroxymethyl-1,4-benzodioxan	3663-82-9	520.33	45.841	2	16847	C9H11Cl	(2-chloro-1-methylethyl)benzene	824-47-5	481.97	42.154	2
16757	C9H10O3	(R)-3-hydroxy-3-phenylpropanoic acid	2768-42-5	520.33	45.841	2	16848	C9H11Cl	1-(chloromethyl)-4-ethylbenzene	1467-05-6	481.97	42.154	2
16758	C9H10O3	(S)-3-hydroxy-3-phenylpropanoic acid	36567-72-3	520.33	45.841	2	16849	C9H11Cl	(2-chloropropyl)benzene, (R)	55449-46-2	481.97	42.154	2
16759	C9H10O3	(S)-(+)-2-hydroxy-2-phenylpropionic acid	13113-71-8	520.33	45.841	2	16850	C9H11Cl	(3-chloropropyl)benzene	104-52-9	492.65	43.178	1,2
16760	C9H10O3	(R)-(-)-2-hydroxy-2-phenylpropionic acid	3966-30-1	520.33	45.841	2	16851	C9H11Cl	2-chloro-1,3,5-trimethylbenzene	1667-04-5	478.15	41.789	1,2
16761	C9H10O3	(4-hydroxyphenyl)-2-propionic acid	938-96-5	520.33	45.841	2	16852	C9H11Cl	3,4-dimethylbenzyl chloride	102-46-5	481.97	42.154	2
16762	C9H10O3	3-methoxyphenylacetic acid	1798-09-0	520.33	45.841	2	16853	C9H11Cl	2,5-dimethylbenzyl chloride	824-45-3	496.65	43.562	1,2
16763	C9H10O3	(S)-(+)-a-methoxyphenylacetic acid	26164-26-1	520.33	45.841	2	16860	C9H11ClO	(3-chloropropoxy)benzene	3384-04-1	523.15	46.113	1,2
16764	C9H10O3	(R)-(-)-a-methoxyphenylacetic acid	3966-32-3	520.33	45.841	2	16861	C9H11ClO	1-(2-chloroethyl)-4-methoxybenzene	18217-00-0	523.15	46.113	2
16765	C9H10O3	DL-a-methoxyphenylacetic acid	7021-09-2	520.33	45.841	2	16862	C9H11ClO	(3-chloro-propoxy)-benzene	3884-04-1	523.15	46.113	1,2
16766	C9H10O3	methyl 4-(hydroxymethyl)benzoate	6908-41-4	520.33	45.841	2	16871	C9H11Cl2FN2O2S2	N-(dichlorofluoromethylthio)-N',N'-dimethyl-*	1085-98-9	427.15	36.931	1,2
16767	C9H10O3	methyl 4-hydroxyphenylacetate	14199-15-6	520.33	45.841	2	16874	C9H11Cl2P	(4-isopropylphenyl)phosphonous dichloride	82906-78-3	542.15	47.948	1,2
16768	C9H10O3	(R)-(-)-methyl mandelate	20698-91-3	520.33	45.841	2	16877	C9H11F	2-fluoro-1,3,5-trimethylbenzene	392-69-8	444.65	38.592	1,2
16769	C9H10O3	(S)-(+)-methyl mandelate	21210-43-5	520.33	45.841	2	16885	C9H11I	2-ethyl-6-methyliodobenzene	175277-95-9	520.00	45.809	2
16770	C9H10O3	2-phenoxypropionic acid	940-31-8	538.15	47.561	1,2	16886	C9H11I	2,4,6-trimethyliodobenzene	4028-63-1	520.00	45.809	2
16771	C9H10O3	L(-)-3-phenyllactic acid	20312-36-1	520.33	45.841	2	16888	C9H11N	N-allylaniline	589-09-3	492.15	43.130	1,2
16772	C9H10O3	D(+)-phenyllactic acid	7326-19-4	520.33	45.841	2	16889	C9H11N	2-(1-methylvinyl)aniline	52562-19-3	499.21	43.808	2
16773	C9H10O3	2-hydroxy-2-(m-tolyl)acetic acid	---	520.33	45.841	2	16890	C9H11N	2,3-dihydro-1H-inden-5-amine	24425-40-9	521.15	45.920	1,2
16774	C9H10O3	ipomeanine	496-06-0	374.75	31.993	1,2	16891	C9H11N	1-indanamine	34698-41-4	494.15	43.322	1,2
16775	C9H10O3	isoethylvanillin	2539-53-9	451.15	39.211	1,2	16892	C9H11N	N-(phenylmethylene)ethanamine	6852-54-6	468.15	40.833	1,2
16776	C9H10O3	methyltetrahydrophthalic anhydride	26590-20-5	459.55	40.012	1,2	16893	C9H11N	1,2,3,4-tetrahydroisoquinoline	91-21-4	505.65	44.427	1,2
16777	C9H10O3S	methyl 2-phenylsulfinylacetate	14090-83-6	381.95	32.668	2	16894	C9H11N	5,6,7,8-tetrahydroisoquinoline	36556-06-6	491.15	43.034	1,2
16779	C9H10O3S	allyl benzene sulfonate	---	381.95	32.668	2	16895	C9H11N	1,2,3,4-tetrahydroquinoline	635-46-1	524.15	46.209	1,2
16780	C9H10O3S	(3aa,4b,7b,7aa)-3a-methyl-4,7-hexahydroepoxy*	127311-83-5	381.95	32.668	1,2	16896	C9H11N	5,6,7,8-tetrahydroquinoline	10500-57-9	495.15	43.418	1,2
16781	C9H10O4	3,4-dimethoxybenzoic acid	93-07-2	477.23	41.700	2	16897	C9H11N	(R)-(-)-1-aminoindan	10277-74-4	499.21	43.808	2
16782	C9H10O4	3,5-dimethoxybenzoic acid	1132-21-4	477.23	41.700	2	16898	C9H11N	(S)-(+)-1-aminoindane	61341-86-4	499.21	43.808	2
16783	C9H10O4	ethyl 2-furoylacetate	615-09-8	477.23	41.700	2	16899	C9H11N	2-methylindoline	6872-06-6	501.15	43.995	1,2
16784	C9H10O4	2-hydroxy-4,6-dimethoxybenzaldehyde	708-76-9	477.23	41.700	2	16900	C9H11N	2,3-dihydro-1H-inden-4-amine	32202-61-2	499.21	43.808	2
16785	C9H10O4	3-hydroxy-4,5-dimethoxybenzaldehyde	29865-90-5	477.23	41.700	2	16901	C9H11N	(<+->)-2,3-dihydro-1H-inden-1-amine	61949-83-5	499.21	43.808	2
16786	C9H10O4	4-hydroxy-3,5-dimethoxybenzaldehyde	134-96-3	477.23	41.700	2	16902	C9H11N	5-ethyl-2-vinylpyridine	5408-74-2	499.21	43.808	2
16787	C9H10O4	2-hydroxyethyl 2-hydroxybenzoate	87-28-5	477.23	41.700	2	16903	C9H11N	trans-2-phenylcyclopropylamine	3721-28-6	499.21	43.808	2
16788	C9H10O4	4-hydroxy-3-methoxybenezeneacetic acid	306-08-1	477.23	41.700	2	16904	C9H11NS2	ethyl phenyldithiocarbamate	13037-20-2	353.65	30.021	1,2
16789	C9H10O4	methyl 4-hydroxy-3-methoxybenzoate	3943-74-6	559.15	49.595	1,2	16905	C9H11NO	p-dimethylaminobenzaldehyde	100-10-7	588.00	53.470	1,2
16790	C9H10O4	1-(2,4,6-trihydroxyphenyl)-1-propanone	2295-58-1	477.23	41.700	2	16906	C9H11NO	1-(4-aminophenyl)-1-propanone	70-69-9	543.16	48.046	2
16791	C9H10O4	2,6-dimethoxybenzoic acid	1466-76-8	477.23	41.700	2	16907	C9H11NO	2-amino-1-phenyl-1-propanone	5265-18-9	543.16	48.046	2
16792	C9H10O4	2,3-dimethoxybenzoic acid	1521-38-6	477.23	41.700	2	16908	C9H11NO	N-benzylacetamide	588-46-5	543.16	48.046	2
16793	C9H10O4	2,5-dimethoxybenzoic acid	2785-98-0	477.23	41.700	2	16909	C9H11NO	N,N-dimethylbenzamide	611-74-5	545.15	48.239	1,2
16794	C9H10O4	2,4-dimethoxybenzoic acid	91-52-1	477.23	41.700	2	16910	C9H11NO	N-ethylbenzamide	614-17-5	543.16	48.046	2
16795	C9H10O4	ethyl 3,4-dihydroxybenzoate	3943-89-3	477.23	41.700	2	16911	C9H11NO	ethyl N-phenylformimidate	6780-49-0	487.15	42.651	1,2
16796	C9H10O4	ethyl b-oxo-3-furanpropionate	36878-91-8	477.23	41.700	2	16912	C9H11NO	4-methylacetanilide	103-89-9	580.15	51.636	1,2
16797	C9H10O4	2-(4-hydroxyphenoxy)propionic acid	67648-61-7	477.23	41.700	2	16913	C9H11NO	N-(2-methylphenyl)acetamide	120-66-1	569.15	50.566	1,2
16798	C9H10O4	4-methoxyphenoxyacetic acid	1877-75-4	477.23	41.700	2	16914	C9H11NO	N-(3-methylphenyl)acetamide	537-92-8	576.15	51.247	1,2
16799	C9H10O4	methyl isodehydracetate	41264-06-6	440.15	38.165	1,2	16915	C9H11NO	N-methyl-N-phenylacetamide	579-10-2	529.15	46.692	1,2
16800	C9H10O4	methyl 5-methoxysalicylate	2905-82-0	510.65	44.908	1,2	16916	C9H11NO	N-phenylpropanamide	620-71-3	495.35	43.438	1,2
16801	C9H10O4	methyl 4-methoxysalicylate	5446-02-6	477.23	41.700	2	16917	C9H11NO	1-phenyl-1-propanone oxime	2157-50-8	518.15	45.631	1,2
16802	C9H10O4	cis-5-norbornene-endo-2,3-dicarboxylic acid	3813-52-3	477.23	41.700	2	16918	C9H11NO	(1S,2R)-(-)-cis-1-amino-2-indanol	126456-43-7	543.16	48.046	2
16803	C9H10O4	3aa,4b,7b,7aa-hexahydro-3a-methyl-4,7-epoxyi*	127380-62-5	477.23	41.700	2	16919	C9H11NO	(1R,2S)-1-amino-2-indanol	136030-00-7	543.16	48.046	2
16804	C9H10O4	p-hydroxyphenylacetic acid	306-23-0	477.23	41.700	2	16920	C9H11NO	N-methyl-2-phenylacetamide	6830-82-6	543.16	48.046	2
16805	C9H10O4	methylenomycin A	52775-76-5	398.95	34.266	1,2	16921	C9H11NO	N-methyl-o-toluamide	2170-09-4	543.16	48.046	2
16806	C9H10O4S	methyl benzenesulfonylacetate	34097-60-4	438.15	37.975	1,2	16922	C9H11NO	propyl 4-pyridyl ketone	1701-71-9	543.16	48.046	2
16807	C9H10O4S	4-methylsulphonylphenylacetic acid	90536-66-6	438.15	37.975	2	16923	C9H11NO2	1,3-benzodioxole-5-ethanamine	1484-85-1	527.65	46.547	2
16808	C9H10O5	alpha,4-dihydroxy-3-methoxybenezeneacetic ac*	55-10-7	493.15	43.226	2	16924	C9H11NO2	2-(dimethylamino)benzoic acid	610-16-2	527.65	46.547	2
16809	C9H10O5	2-furanmethanediol diacetate	613-75-2	493.15	43.226	1,2	16925	C9H11NO2	4-(dimethylamino)benzoic acid	619-84-1	527.65	46.547	2
16810	C9H10O5	gallic acid ethyl ester	831-61-8	493.15	43.226	2	16926	C9H11NO2	2-ethoxybenzamide	938-73-8	527.65	46.547	2
16811	C9H10O5	DL-3-hydroxy-4-methoxymandelic acid	3695-24-7	493.15	43.226	2	16927	C9H11NO2	ethyl 2-aminobenzoate	87-25-2	541.15	47.852	1,2
16812	C9H10O5	syringic acid	530-57-4	493.15	43.226	2	16928	C9H11NO2	ethyl 3-aminobenzoate	582-33-2	567.15	50.372	1,2
16813	C9H10O5	2-hydroxy-2-(4-hydroxy-3-methoxy-phenyl)-ace*	2394-20-9	493.15	43.226	2	16929	C9H11NO2	ethyl 4-aminobenzoate	94-09-7	583.15	51.928	1,2
16817	C9H11AsO2	allyl phenyl arsinic acid	21905-27-1	492.15	43.130	1,2	16930	C9H11NO2	ethyl phenylcarbamate	101-99-5	510.15	44.860	2
16818	C9H11AsO5	p-(2-oxopropoxy)benzenearsonic acid	64058-54-4	416.15	35.890	1,2	16931	C9H11NO2	1-isopropyl-2-nitrobenzene	6526-72-3	527.65	46.547	2
16822	C9H11Br	1-bromo-4-isopropylbenzene	586-61-8	491.85	43.102	1,2	16932	C9H11NO2	1-isopropyl-4-nitrobenzene	1817-47-6	527.65	46.547	2
16823	C9H11Br	1-(bromomethyl)-3,5-dimethylbenzene	27129-86-8	503.15	44.187	1,2	16933	C9H11NO2	isopropyl 3-pyridinecarboxylate	553-60-6	527.65	46.547	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
16934	C9H11NO2	N-(2-methoxyphenyl)acetamide	93-26-5	577.15	51.344	1,2	17081	C9H12O	1-ethyl-2-methoxybenzene	14804-32-1	460.15	40.069	1,2
16935	C9H11NO2	N-(4-methoxyphenyl)acetamide	51-66-1	527.65	46.547	2	17082	C9H12O	1-ethyl-3-methoxybenzene	10568-38-4	470.15	41.024	1,2
16936	C9H11NO2	methyl 2-(methylamino)benzoate	85-91-6	528.15	46.595	1,2	17083	C9H12O	1-ethyl-4-methoxybenzene	1515-95-3	471.15	41.119	1,2
16937	C9H11NO2	methyl N-methyl-N-phenylcarbamate	28685-60-1	508.15	44.668	1,2	17084	C9H12O	1-methoxy-2,3-dimethylbenzene	2944-49-2	472.15	41.215	1,2
16938	C9H11NO2	(1-methyl-1-nitroethyl)benzene	3457-58-7	527.65	46.547	2	17085	C9H12O	1-methoxy-2,4-dimethylbenzene	6738-23-4	465.15	40.546	1,2
16941	C9H11NO2	1,2,4-trimethyl-5-nitrobenzene	610-91-3	538.15	47.561	1,2	17086	C9H12O	2-methoxy-1,4-dimethylbenzene	1706-11-2	467.15	40.737	1,2
16942	C9H11NO2	1,3,5-trimethyl-2-nitrobenzene	603-71-4	528.15	46.595	1,2	17087	C9H12O	4-methoxy-1,2-dimethylbenzene	4685-47-6	475.15	41.502	1,2
16943	C9H11NO2	3-amino-3-phenylpropionic acid	614-19-7	527.65	46.547	2	17088	C9H12O	phenyl isopropyl ether	2741-16-4	449.95	39.097	1,2
16944	C9H11NO2	3-dimethylaminobenzoic acid	99-64-9	527.65	46.547	2	17089	C9H12O	phenyl propyl ether	622-85-5	463.05	40.346	1,2
16945	C9H11NO2	3,5-dimethylanthranilic acid	14438-32-5	468.15	40.833	1,2	17090	C9H12O	2-phenyl-2-propanol	617-94-7	475.15	48.700	1,2
16946	C9H11NO2	ethyl 2-methylnicotinate	1721-26-2	527.65	46.547	2	17091	C9H12O	benzenepropanol	122-97-4	508.15	44.668	1,2
16947	C9H11NO2	ethyl 2-pyridylacetate	2739-98-2	527.65	46.547	2	17092	C9H12O	2,4-dimethylbenzenemethanol	16308-92-2	505.15	44.379	1,2
16948	C9H11NO2	ethyl 3-pyridylacetate	39931-77-6	527.65	46.547	2	17093	C9H12O	3,5-dimethylbenzenemethanol	27129-87-9	492.65	43.178	1,2
16949	C9H11NO2	ethyl 4-pyridylacetate	54401-85-3	527.65	46.547	2	17094	C9H12O	alpha,3-dimethylbenzenemethanol	7287-81-2	482.68	42.222	2
16950	C9H11NO2	N-methoxy-N-methylbenzamide	6919-61-5	527.65	46.547	2	17095	C9H12O	alpha,4-dimethylbenzenemethanol	536-50-5	492.15	43.130	1,2
16951	C9H11NO2	1-nitro-2-propylbenzene	7137-54-4	527.65	46.547	2	17096	C9H12O	alpha-ethylbenzenemethanol	93-54-9	492.15	43.130	1,2
16952	C9H11NO2	D-phenylalanine	673-06-3	568.15	50.469	1,2	17097	C9H12O	2-methylbenzeneethanol	19819-98-8	516.65	45.486	1,2
16953	C9H11NO2	m-acetanisidide	588-16-9	527.65	46.547	2	17098	C9H12O	4-methylbenzeneethanol	699-02-5	517.65	45.583	1,2
16954	C9H11NO2	N,N-dimethylsalicylamide	1778-08-1	527.65	46.547	2	17099	C9H12O	2-phenyl-1-propanol	1123-85-9	482.68	42.222	2
16955	C9H11NO2	methylcarbamic acid m-tolyl ester	1129-41-5	444.65	38.592	1,2	17100	C9H12O	1-phenyl-2-propanol	698-87-3	482.68	42.222	2
16956	C9H11NO2	N-methyl-4-cyclohexene-1,2-dicarboximide	2021-21-8	527.65	46.547	2	17101	C9H12O	2-propylphenol	644-35-9	492.55	45.952	1,2
16957	C9H11NO2	N-methyl-3,4,5,6-tetrahydrophthalimide	28839-49-8	527.65	46.547	2	17102	C9H12O	3-propylphenol	621-27-2	502.15	46.888	1,2
16961	C9H11NO3	3,5-dimethoxybenzamide	17213-58-0	457.15	39.783	2	17103	C9H12O	4-propylphenol	645-56-7	506.65	47.327	1,2
16962	C9H11NO3	2,3-dimethyl-p-nitroanisole	81029-03-0	457.15	39.783	2	17104	C9H12O	2-isopropylphenol	88-69-7	487.65	45.047	1,2
16963	C9H11NO3	N-(2-hydroxyethyl)salicylamide	24207-38-3	457.15	39.783	2	17105	C9H12O	3-isopropylphenol	618-45-1	501.15	46.351	1,2
16964	C9H11NO3	N-hydroxymethyl-3,4,5,6-tetrahydrophthalimide	4887-42-7	457.15	39.783	2	17106	C9H12O	4-isopropylphenol	99-89-8	502.35	46.467	1,2
16968	C9H11NO3	p-nitrophenyl propyl ether	7244-77-1	545.00	48.224	2	17107	C9H12O	2-methyl-3-ethylphenol	1123-73-5	500.15	46.614	1,2
16969	C9H11NO3	ethyl 3-hydroxycarbanilate	7159-96-8	457.15	39.783	2	17108	C9H12O	2-methyl-4-ethylphenol	2219-73-0	500.75	46.672	1,2
16970	C9H11NO3	o-nitrophenyl isopropyl ether	38753-50-3	545.00	48.224	2	17109	C9H12O	2-methyl-5-ethylphenol	1687-65-6	500.85	46.682	1,2
16971	C9H11NO3	2-phenyl-2-hydroxyethyl carbamate	94-35-9	457.15	39.783	2	17110	C9H12O	2-methyl-6-ethylphenol	1687-64-5	487.15	45.349	1,2
16973	C9H11NO4	1-(dimethoxymethyl)-3-nitrobenzene	3395-79-7	557.68	49.452	2	17111	C9H12O	3-methyl-4-ethylphenol	1123-94-0	503.15	46.906	1,2
16974	C9H11NO4	1-(dimethoxymethyl)-4-nitrobenzene	881-67-4	567.15	50.372	1,2	17112	C9H12O	3-methyl-5-ethylphenol	698-71-5	509.15	47.490	1,2
16975	C9H11NO4	levodopa	59-92-7	557.68	49.452	2	17113	C9H12O	3-methyl-6-ethylphenol	1687-61-2	497.35	46.341	1,2
16976	C9H11NO4	2-amino-4,5-dimethoxybenzoic acid	5653-40-7	557.68	49.452	2	17114	C9H12O	4-methyl-2-ethylphenol	3855-26-3	495.55	46.166	1,2
16977	C9H11NO4	3-carboxy-1,4-dimethyl-1H-pyrrole-2-aceticac*	33369-45-8	557.68	49.452	2	17115	C9H12O	4-methyl-3-ethylphenol	6161-67-7	509.15	47.490	1,2
16978	C9H11NO4	1-(dimethoxymethyl)-2-nitrobenzene	20627-73-0	548.20	48.534	1,2	17116	C9H12O	2,3,4-trimethylphenol	526-85-2	510.15	47.508	1,2
16979	C9H11NO4	forphenicinol	71522-58-2	557.68	49.452	2	17117	C9H12O	2,3,5-trimethylphenol	697-82-5	508.55	47.352	1,2
16983	C9H11NO7	oxazinomycin	32388-21-9	380.65	32.546	1,2	17118	C9H12O	2,3,6-trimethylphenol	2416-94-6	510.00	47.493	2
16988	C9H11N3O	N-nitrosonornicotine	16543-55-8	427.15	36.931	1,2	17119	C9H12O	2,4,5-trimethylphenol	496-78-6	508.55	47.352	1,2
16989	C9H11N3O	(±)-3-(1-nitroso-2-pyrrolidinyl)pyridine	84237-38-7	427.15	36.931	2	17120	C9H12O	2,4,6-trimethylphenol	527-60-6	493.95	45.933	1,2
16990	C9H11N3O2	1,3-dimethyl-3-phenyl-1-nitrosourea	72586-68-6	393.65	33.767	2	17121	C9H12O	3,4,5-trimethylphenol	527-54-8	524.95	48.949	1,2
16991	C9H11N3O2	1-methyl-1-nitroso-3-(p-tolyl)urea	23139-00-6	393.65	33.767	2	17122	C9H12O	2,6-dimethylanisole	1004-66-6	455.65	39.640	1,2
16992	C9H11N3O2	N'-nitrosonornicotine-1-N-oxide	78246-24-9	393.65	33.767	2	17123	C9H12O	3,5-dimethylanisole	874-63-5	467.15	40.737	1,2
16993	C9H11N3O2	nitrosophenylethylurea	777-79-7	393.65	33.767	2	17124	C9H12O	2,5-dimethylbenzyl alcohol	53957-33-8	506.15	44.475	1,2
16994	C9H11N3O2	N,N'-2,6-pyridinediylbisacetamide	5441-02-1	393.65	33.767	1,2	17125	C9H12O	3,4-dimethylbenzyl alcohol	6966-10-5	492.65	43.178	1,2
16995	C9H11N3O3	1-(p-methoxyphenyl)-3-methyl-3-nitrosourea	25355-59-3	393.15	33.720	1,2	17126	C9H12O	4-ethylbenzyl alcohol	768-59-2	482.68	42.222	2
16996	C9H11N3O4	cyclocytidine	31698-14-3	531.15	46.885	1,2	17127	C9H12O	3-methylphenethyl alcohol	1875-89-4	515.65	45.390	1,2
16997	C9H11N3O4S	2-((dihydro-2(3H)-thienylidene)methyl)-1-met*	141363-26-0	372.15	31.749	1,2	17128	C9H12O	(±)-1-phenyl-2-propanol	14898-87-4	482.68	42.222	2
16998	C9H11N3S	acetophenone thiosemicarbazone	2302-93-4	359.15	30.534	1,2	17129	C9H12O	(S)-(-)-2-phenyl-1-propanol	1517-68-6	368.15	31.375	1,2
16999	C9H11N5O3	6-biopterin	22150-76-1	381.35	32.612	1,2	17130	C9H12O	(R)-(+)-1-phenyl-1-propanol	1565-74-8	482.68	42.222	2
17004	C9H12	cumene	98-82-8	425.56	38.070	1,2	17131	C9H12O	(R)-(-)-1-phenyl-2-propanol	1572-95-8	368.15	31.375	1,2
17005	C9H12	m-ethyltoluene	620-14-4	434.48	37.933	1,2	17132	C9H12O	(R)-(+)-2-phenyl-1-propanol	19141-40-3	493.15	43.226	1,2
17006	C9H12	o-ethyltoluene	611-14-3	438.33	38.070	1,2	17133	C9H12O	(S)-2-phenyl-1-propanol	37778-99-7	487.15	42.651	1,2
17007	C9H12	p-ethyltoluene	622-96-8	435.16	38.167	1,2	17134	C9H12O	(S)-(-)-1-phenyl-1-propanol	613-87-6	482.68	42.222	2
17008	C9H12	1,2,3-trimethylbenzene	526-73-8	449.27	39.846	1,2	17135	C9H12O	2-acetyl-5-norbornene	5063-03-6	357.65	30.394	1,2
17009	C9H12	1,2,4-trimethylbenzene	95-63-6	442.53	39.089	1,2	17136	C9H12O	phenylethyl methyl ether	3558-60-9	482.68	42.222	2
17010	C9H12	trimethyl benzene	25551-13-7	445.00	41.192	2	17137	C9H12OS	1-methoxy-2-methyl-4-(methylthio)benzene	50390-78-8	532.15	46.982	1,2
17011	C9H12	mesitylene	108-67-8	437.89	39.311	1,2	17138	C9H12O2	cumene hydroperoxide	80-15-9	442.70	44.522	1,2
17012	C9H12	propylbenzene	103-65-1	432.39	38.363	1,2	17139	C9H12O2	1,2-dimethoxy-3-methylbenzene	4463-33-6	477.15	41.693	1,2
17013	C9H12	ethylidene norbornene	16219-75-3	433.18	37.503	2	17140	C9H12O2	1,2-dimethoxy-4-methylbenzene	494-99-5	493.15	43.226	1,2
17014	C9H12	1,4-nonadiyne	6088-94-4	438.15	37.975	1,2	17141	C9H12O2	1,3-dimethoxy-5-methylbenzene	4179-19-5	517.15	45.534	1,2
17015	C9H12	1,8-nonadiyne	2396-65-8	435.15	37.690	1,2	17142	C9H12O2	ethylene glycol monobenzyl ether	622-08-2	529.15	46.692	1,2
17016	C9H12	2,7-nonadiyne	31699-35-1	453.15	39.402	1,2	17143	C9H12O2	alpha-ethyl-3-hydroxybenzenemethanol	55789-02-1	512.40	45.077	2
17017	C9H12	bicyclo[4.3.0]nona-3,6(1)-diene	7603-37-4	451.15	39.211	1,2	17144	C9H12O2	4-ethyl-2-methoxyphenol	2785-89-9	509.65	44.812	1,2
17018	C9H12	5-vinyl-2-norbornene, endo and exo	3048-64-4	412.20	35.516	1,2	17145	C9H12O2	4-isopropyl-1,2-benzenediol	2138-43-4	544.15	48.142	1,2
17019	C9H12	cis,cis,cis-cyclononatriene	696-86-6	433.18	37.503	2	17146	C9H12O2	4-propyl-1,2-benzenediol	2525-02-2	512.40	45.077	2
17020	C9H12	3a,4,7,7a-tetrahydro-1H-indene	3048-65-5	433.18	37.503	2	17147	C9H12O2	4-propyl-1,3-benzenediol	18979-60-7	512.40	45.077	2
17028	C9H12ClO4P	heptenophos	23560-59-0	367.65	31.328	1,2	17148	C9H12O2	5-propyl-1,3-benzenediol	500-49-2	512.40	45.077	2
17029	C9H12Cl2NOS	2-cyclohexyl-4,5-dichloro-4-isothiazolin-3-o*	57063-29-3	511.15	44.956	2	17149	C9H12O2	2,4,6-trimethyl-1,3-benzenediol	608-98-0	547.65	48.481	1,2
17033	C9H12NO3PS	ethylmethylthiophos	2591-57-3	444.65	38.592	1,2	17150	C9H12O2	2-methoxy-alpha-methylbenzenemethanol	13513-82-1	398.15	34.191	1,2
17034	C9H12NO5P	ethyl phosphonic acid, methyl p-nitrophenyl *	15536-01-3	388.15	33.250	1,2	17151	C9H12O2	3-methoxy-alpha-methylbenzenemethanol	23308-82-9	512.40	45.077	2
17041	C9H12N2	2-propanone phenylhydrazone	103-02-6	474.65	41.454	2	17152	C9H12O2	4-methoxy-alpha-methylbenzenemethanol	3319-15-1	583.15	51.928	2
17042	C9H12N2	3-(2-pyrrolidinyl)pyridine, (S)	494-97-3	543.15	48.045	1,2	17153	C9H12O2	1-phenoxy-2-propanol	770-35-4	506.15	44.475	1,2
17043	C9H12N2	4-pyrrolidinopyridine	2456-81-7	474.65	41.454	2	17154	C9H12O2	2-phenoxy-1-propanol	4169-04-4	517.15	45.534	1,2
17044	C9H12N2	N,N-dimethyl-N'-phenylmethanimidamide	1783-25-1	406.15	34.945	1,2	17155	C9H12O2	2-propoxyphenol	6280-96-2	500.15	43.899	1,2
17073	C9H12N4O3Zn	zinc L-carnosine	107667-60-7	450.65	39.163	1,2	17156	C9H12O2	2-allyl-2-methyl-1,3-cyclopentanedione	26828-48-8	512.40	45.077	2
17077	C9H12O	benzyl ethyl ether	539-30-0	458.15	41.674	1,2	17157	C9H12O2	benzaldehyde dimethylacetal	1125-88-8	474.55	41.444	1,2
17078	C9H12O	1-ethoxy-2-methylbenzene	614-71-1	457.15	39.783	1,2	17158	C9H12O2	(±)-bicyclo[3.3.1]nonane-2,6-dione	16473-11-3	512.40	45.077	2
17079	C9H12O	1-ethoxy-3-methylbenzene	621-32-9	465.15	40.546	1,2	17159	C9H12O2	2,5-dimethoxytoluene	24599-58-4	492.15	43.130	1,2
17080	C9H12O	1-ethoxy-4-methylbenzene	622-60-6	461.65	40.212	1,2	17160	C9H12O2	2,4-dimethoxytoluene	38064-90-3	484.25	42.373	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
17161	C9H12O2	2,6-dimethoxytoluene	5673-07-4	512.40	45.077	2	17255	C9H13N	4-methylbenzeneethanamine	3261-62-9	487.15	42.651	1,2
17162	C9H12O2	2-ethoxyanisole	17600-72-5	485.60	42.502	1,2	17256	C9H13N	beta-methylbenzeneethanamine	582-22-9	483.15	42.268	1,2
17163	C9H12O2	4-ethoxybenzyl alcohol	6214-44-4	546.15	48.336	1,2	17257	C9H13N	N-methylbenzeneethanamine	589-08-2	479.15	41.884	1,2
17164	C9H12O2	2-ethoxybenzyl alcohol	71672-75-8	538.15	47.561	1,2	17258	C9H13N	2-butylpyridine	5058-19-5	465.15	40.546	1,2
17165	C9H12O2	2-isopropoxyphenol	4812-20-8	512.40	45.077	2	17259	C9H13N	2-tert-butylpyridine	5944-41-2	443.15	38.450	1,2
17166	C9H12O2	3-methoxyphenethyl alcohol	5020-41-7	512.40	45.077	2	17260	C9H13N	3-tert-butylpyridine	38031-78-6	467.95	40.813	1,2
17167	C9H12O2	4-methoxyphenethyl alcohol	702-23-8	608.15	54.366	1,2	17261	C9H13N	4-butylpyridine	5335-75-1	482.15	42.172	1,2
17168	C9H12O2	2-methoxyphenethyl alcohol	7417-18-7	512.40	45.077	2	17262	C9H13N	4-tert-butylpyridine	3978-81-2	469.65	40.976	1,2
17169	C9H12O2	(R)-(-)-2-methoxy-2-phenylethanol	17628-72-7	512.40	45.077	2	17263	C9H13N	2,4-diethylpyridine	626-21-1	460.65	40.117	1,2
17170	C9H12O2	2-methoxy-2-phenylethanol	2979-22-8	510.15	44.860	1,2	17264	C9H13N	2-ethyl-3,5-dimethylpyridine	1123-96-2	471.15	41.119	1,2
17171	C9H12O2	(S)-(+)-2-methoxy-2-phenylethanol	66051-01-2	512.40	45.077	2	17265	C9H13N	3-ethyl-2,6-dimethylpyridine	23580-52-1	461.15	40.164	1,2
17172	C9H12O2	5-norbornen-2-yl acetate, endo and exo	6143-29-9	512.40	45.077	2	17266	C9H13N	4-ethyl-2,6-dimethylpyridine	36917-36-9	460.65	40.117	1,2
17173	C9H12O2	3-phenoxy-1-propanol	6180-61-6	512.40	45.077	2	17267	C9H13N	2,3,4,6-tetramethylpyridine	20820-82-0	476.15	41.597	1,2
17174	C9H12O2	(R)-1-phenyl-1,3-propanediol	103548-16-9	512.40	45.077	2	17268	C9H13N	2-ethyl-6-methylaniline	24549-06-2	504.15	44.283	1,2
17175	C9H12O2	2-phenyl-1,2-propanediol	4217-66-7	512.40	45.077	2	17269	C9H13N	N-ethyl-2-methylaniline	94-68-8	489.15	46.537	1,2
17176	C9H12O2	(S)-1-phenyl-1,3-propanediol	96854-34-1	512.40	45.077	2	17270	C9H13N	N-ethyl-3-methylaniline	102-27-2	494.15	43.322	1,2
17177	C9H12O2	4-propoxyphenol	18979-50-5	512.40	45.077	2	17271	C9H13N	N-ethyl-4-methylaniline	622-57-1	490.15	46.913	1,2
17178	C9H12O2	2,6,6-trimethyl-2-cyclohexene-1,4-dione	1125-21-9	512.40	45.077	2	17272	C9H13N	N-ethyl-N-methylaniline	613-97-8	477.15	42.352	1,2
17179	C9H12O2	trimethylhydroquinone	700-13-0	568.15	50.469	1,2	17273	C9H13N	2-isopropylaniline	643-28-7	494.15	43.322	1,2
17180	C9H12O2	3-isopropylcatechol	2138-48-9	512.40	45.077	2	17274	C9H13N	4-isopropylaniline	99-88-7	498.15	43.706	1,2
17181	C9H12O2	bicyclononadiene diepoxide	2886-89-7	512.40	45.077	2	17275	C9H13N	N-isopropylaniline	768-52-5	476.15	42.029	1,2
17183	C9H12O3	butyl 2-furancarboxylate	583-33-5	506.15	44.475	1,2	17276	C9H13N	2-methyl-N,N-dimethylaniline	609-72-3	467.25	39.301	1,2
17184	C9H12O3	3,4-dimethoxybenzenemethanol	93-03-8	571.15	50.761	1,2	17277	C9H13N	3-methyl-N,N-dimethylaniline	121-72-2	485.15	45.077	1,2
17185	C9H12O3	ethyl 2,5-dimethyl-3-furancarboxylate	29113-63-1	481.65	42.124	1,2	17278	C9H13N	4-methyl-N,N-dimethylaniline	99-97-8	484.15	44.722	1,2
17186	C9H12O3	2-furfuryl butanoate	623-21-2	485.65	42.507	1,2	17279	C9H13N	2-propylaniline	1821-39-2	499.15	43.802	1,2
17187	C9H12O3	furfuryl 2-methylpropanoate	6270-55-9	500.92	43.973	2	17280	C9H13N	N-propylaniline	622-80-0	495.15	43.418	1,2
17188	C9H12O3	isobutyl 2-furancarboxylate	20279-53-2	495.15	43.418	1,2	17281	C9H13N	2,4,5-trimethylaniline	137-17-7	507.65	44.620	1,2
17189	C9H12O3	3-phenoxy-1,2-propanediol	538-43-2	500.92	43.973	2	17282	C9H13N	2,4,6-trimethylaniline	88-05-1	505.65	44.427	1,2
17190	C9H12O3	1-phenyl-1,2,3-propanetriol	63157-81-3	458.15	39.878	1,2	17283	C9H13N	3-butylpyridine	539-32-2	479.75	41.942	1,2
17191	C9H12O3	1,2,3-trimethoxybenzene	634-36-6	508.15	44.668	1,2	17284	C9H13N	dextroamphetamine	51-64-9	476.65	41.645	1,2
17192	C9H12O3	1,3,5-trimethoxybenzene	621-23-8	528.65	46.644	1,2	17285	C9H13N	(S)-(-)-N,a-dimethylbenzylamine	19131-99-8	479.94	41.960	2
17193	C9H12O3	2,4,6-trivinyl-1,3,5-trioxane	588-01-2	443.15	38.450	1,2	17286	C9H13N	(S)-(-)-a,4-dimethylbenzylamine	27298-98-2	478.15	41.789	1,2
17194	C9H12O3	2,6-bis(hydroxymethyl)-p-cresol	91-04-3	500.92	43.973	2	17287	C9H13N	(R)-(+)-a,4-dimethylbenzylamine	4187-38-6	478.15	41.789	1,2
17195	C9H12O3	2,5-dimethoxybenzyl alcohol	33524-31-1	500.92	43.973	2	17288	C9H13N	(R)-(+)-N,a-dimethylbenzylamine	5933-40-4	479.94	41.960	2
17196	C9H12O3	2,3-dimethoxybenzyl alcohol	5653-67-8	500.92	43.973	2	17289	C9H13N	(S)-(-)-b-methylphenethylamine	17596-79-1	479.94	41.960	2
17197	C9H12O3	3,5-dimethoxybenzyl alcohol	705-76-0	500.92	43.973	2	17290	C9H13N	(R)-(+)-b-methylphenethylamine	28163-64-6	470.15	41.024	1,2
17198	C9H12O3	2,4-dimethoxybenzyl alcohol	7314-44-5	500.92	43.973	2	17291	C9H13N	2-methylphenethylamine	55755-16-3	479.94	41.960	2
17199	C9H12O3	hexahydro-4-methylphthalic anhydride	19438-60-9	500.92	43.973	2	17292	C9H13N	3-methylphenethylamine	55755-17-4	479.94	41.960	2
17200	C9H12O3	[3aR-(3aa,5ab,6ab,6ba)]-3a,5a,6a,6b-tetrahyd*	145107-27-3	500.92	43.973	2	17293	C9H13N	3-phenylpropylamine	2038-57-5	494.15	43.322	1,2
17201	C9H12O3	3,3-tetramethyleneglutaric anhydride	5662-95-3	500.92	43.973	2	17294	C9H13N	4-propylaniline	2696-84-6	497.15	43.610	1,2
17202	C9H12O3	1,2,4-trimethoxybenzene	135-77-3	520.15	45.824	1,2	17295	C9H13N	2,6-diethylpyridine	935-28-4	479.94	41.960	2
17203	C9H12O3	1-(3-furyl)-4-hydroxypentanone	32954-58-8	512.15	45.053	1,2	17296	C9H13N	2,4-dimethylbenzenemethanamine	94-98-4	491.70	43.087	1,2
17204	C9H12O3	ipomeanol	34435-70-6	500.92	43.973	2	17297	C9H13N	2,3,5,6-tetramethylpyridine	3748-84-3	470.70	41.076	1,2
17205	C9H12O3S	ethyl p-toluenesulfonate	80-40-0	452.65	39.354	2	17298	C9H13NO	4-(2-aminopropyl)phenol, (±)	1518-86-1	459.35	39.993	2
17206	C9H12O3S	propyl benzenesulfonate	80-42-2	452.65	39.354	2	17299	C9H13NO	2-[benzylamino]ethanol	104-63-2	498.15	43.706	1,2
17207	C9H12O3S	2-(p-tolylsulfonyl)ethanol	22381-54-0	452.65	39.354	1,2	17300	C9H13NO	4-(dimethylamino)benzenemethanol	1703-46-4	459.35	39.993	2
17210	C9H12O5	2-(3-methoxyallylidene)malonic acid dimethyl*	41530-32-9	377.15	32.218	2	17301	C9H13NO	2-ethoxybenzenemethanamine	37806-29-4	459.35	39.993	2
17211	C9H12O5	2-acetoacetoxyethyl acrylate	21282-96-2	377.15	32.218	2	17302	C9H13NO	2-methoxybenzeneethanamine	2045-79-6	509.65	44.812	1,2
17212	C9H12O5	fumaric acid ethyl-2,3-epoxypropyl ester	25876-47-5	377.15	32.218	1,2	17303	C9H13NO	2-methoxy-N,N-dimethylaniline	700-75-4	483.15	42.268	1,2
17213	C9H12S	propyl phenyl sulfide	874-79-3	493.15	44.374	1,2	17304	C9H13NO	2-(methylphenylamino)ethanol	93-90-3	459.35	39.993	2
17214	C9H12S	isopropyl phenyl sulfide	3019-20-3	481.15	42.851	1,2	17305	C9H13NO	2-[(2-methylphenyl)amino]ethanol	136-80-1	558.65	49.547	1,2
17215	C9H12S	3-methyl-(1-thiapropyl)-benzene	34786-24-8	492.15	44.210	1,2	17306	C9H13NO	2-[(4-methylphenyl)amino]ethanol	2933-74-6	560.15	49.692	1,2
17216	C9H12S	4-methyl-(1-thiapropyl)-benzene	622-63-9	493.15	44.304	1,2	17307	C9H13NO	2-oxocyclohexanepropanenitrile	4594-78-9	459.35	39.993	2
17217	C9H12S	2-ethyl-(1-thiaethyl)-benzene	20760-06-9	501.15	45.056	1,2	17308	C9H13NO	3-amino-3-phenyl-1-propanol	14593-04-5	459.35	39.993	2
17218	C9H12S	3-ethyl-(1-thiaethyl)-benzene	---	505.76	45.490	2	17309	C9H13NO	(R)-3-amino-3-phenylpropan-1-ol	170564-98-4	459.35	39.993	2
17219	C9H12S	4-ethyl-(1-thiaethyl)-benzene	---	505.76	45.490	2	17310	C9H13NO	L(-)-2-amino-3-phenyl-1-propanol	3182-95-4	459.35	39.993	2
17220	C9H12S	2,3-dimethyl-(1-thiaethyl)-benzene	---	510.74	45.887	2	17311	C9H13NO	D(+)-2-amino-3-phenyl-1-propanol	5267-64-1	459.35	39.993	2
17221	C9H12S	2,4-dimethyl-(1-thiaethyl)-benzene	---	510.74	45.887	2	17312	C9H13NO	(S)-3-amino-3-phenylpropan-1-ol	82769-76-4	459.35	39.993	2
17222	C9H12S	2,5-dimethyl-(1-thiaethyl)-benzene	---	510.74	45.887	2	17313	C9H13NO	2-butoxypyridine	27361-16-6	473.15	41.310	1,2
17223	C9H12S	2,6-dimethyl-(1-thiaethyl)-benzene	---	510.74	45.887	2	17314	C9H13NO	2-(b-cyanoethyl)cyclohexanone	---	459.35	39.993	2
17224	C9H12S	3,4-dimethyl-(1-thiaethyl)-benzene	---	510.74	45.887	2	17315	C9H13NO	3-methoxyphenethylamine	2039-67-0	459.35	39.993	2
17225	C9H12S	3,5-dimethyl-(1-thiaethyl)-benzene	---	510.74	45.887	2	17317	C9H13NO	DL-a-(methylaminomethyl)benzyl alcohol	68579-60-2	459.35	39.993	2
17226	C9H12S	benzenepropanethiol	24734-68-7	502.13	44.089	2	17318	C9H13NO	3-acetyl-2,4,5-trimethyl-pyrrole	19005-95-9	459.35	39.993	2
17227	C9H12S	2-isopropylbenzenethiol	6262-87-9	493.15	43.226	1,2	17319	C9H13NO	m-(2-aminopropyl)phenol	1075-61-2	282.65	23.467	1,2
17228	C9H12S	[(ethylthio)methyl]benzene	6263-62-3	502.13	44.089	2	17320	C9H13NO	3-ethylamino-4-methylphenol	120-37-6	309.25	25.907	1,2
17231	C9H13AsO3	2-hydroxypropyl phenyl arsinic acid	21905-32-8	413.15	35.606	1,2	17321	C9H13NO	o-isopropoxyaniline	29026-74-2	459.35	39.993	2
17232	C9H13AsO5	4-p-propenone-oxy-phenylarsonic acid	5411-08-5	443.15	38.450	1,2	17322	C9H13NO	(-)-norephedrine	492-41-1	459.35	39.993	2
17236	C9H13BrSi	1-bromo-4-(trimethylsilyl)benzene	6999-03-7	502.65	44.139	1,2	17323	C9H13NO	DL-norephedrine	14838-15-4	459.35	39.993	2
17239	C9H13ClN6O2	nimustine	42471-28-3	371.15	31.656	1,2	17324	C9H13NO	psi-norephedrine	492-39-7	459.35	39.993	2
17241	C9H13ClOSi	(4-chlorophenoxy)trimethylsilane	17005-59-3	487.15	42.651	1,2	17325	C9H13NO2	3,3-diethyl-2,4(1H,3H)-pyridinedione	77-04-3	539.82	47.723	2
17242	C9H13ClOSi	(2-chlorophenoxy)trimethylsilane	17881-65-1	475.15	41.502	1,2	17326	C9H13NO2	3,4-dimethoxybenzenemethanamine	5763-61-1	539.82	47.723	2
17243	C9H13ClSi	(chloromethyl)dimethylphenylsilane	1833-51-8	498.15	43.706	1,2	17327	C9H13NO2	ecgonidine	484-93-5	539.82	47.723	2
17244	C9H13ClSi	(3-chlorophenyl)trimethylsilane	4405-42-9	479.65	41.932	1,2	17328	C9H13NO2	ethyl 3,5-dimethylpyrrole-2-carboxylate	2199-44-2	539.82	47.723	2
17245	C9H13ClSi	1-chloro-4-(trimethylsilyl)benzene	10557-71-8	479.15	41.884	1,2	17329	C9H13NO2	ethyl 2,4-dimethylpyrrole-3-carboxylate	2199-51-1	564.15	50.081	1,2
17246	C9H13ClSi	benzylchlorodimethylsilane	1833-31-4	485.65	42.507	2	17330	C9H13NO2	ethyl 2,5-dimethylpyrrole-3-carboxylate	2199-52-2	564.15	50.081	1,2
17250	C9H13N	amphetamine	300-62-9	476.15	41.597	1,2	17331	C9H13NO2	ethyl 4,5-dimethylpyrrole-3-carboxylate	2199-53-3	539.82	47.723	2
17251	C9H13N	benzylethylamine	14321-27-8	467.15	40.737	1,2	17332	C9H13NO2	4-hydroxy-alpha-[(methylamino)methyl]benzene*	94-07-5	539.82	47.723	2
17252	C9H13N	alpha,alpha-dimethylbenzenemethanamine	585-32-0	469.65	40.976	1,2	17333	C9H13NO2	4-[2-(methylamino)ethyl]-1,2-benzenediol	501-15-5	539.82	47.723	2
17253	C9H13N	N,N-dimethylbenzylamine	103-83-3	454.15	39.497	1,2	17334	C9H13NO2	3-amino-1-phenoxy-2-propanol hydrochloride	4287-20-1	539.82	47.723	2
17254	C9H13N	alpha-ethylbenzenemethanamine	2941-20-0	479.15	41.884	1,2	17335	C9H13NO2	(1S,2S)-(+)-2-amino-1-phenyl-1,3-propanediol	28143-91-1	539.82	47.723	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
17336	C9H13NO2	(1R,2R)-2-amino-1-phenyl-1,3-propanediol	46032-98-8	539.82	47.723	2	17468	C9H14O2	5-nonynoic acid	56630-34-3	486.73	42.611	2
17337	C9H13NO2	tert-butyl 1-pyrrolecarboxylate	5176-27-2	539.82	47.723	2	17469	C9H14O2	6-nonynoic acid	56630-31-0	486.73	42.611	2
17338	C9H13NO2	2,4-dimethoxybenzylamine	20781-20-8	539.82	47.723	2	17470	C9H14O2	8-nonynoic acid	30964-01-3	486.73	42.611	2
17339	C9H13NO2	3,5-dimethoxybenzylamine	34967-24-3	539.82	47.723	2	17471	C9H14O2	1,2,3-trimethyl-2-cyclopentene-1-carboxylic *	6894-69-5	486.73	42.611	2
17340	C9H13NO2	2,3-dimethoxybenzylamine	4393-09-3	539.82	47.723	2	17472	C9H14O2	2,2,3-trimethyl-3-cyclopentene-1-carboxylic *	6709-22-4	514.65	45.293	1,2
17341	C9H13NO2	ethinamate	126-52-3	539.82	47.723	2	17473	C9H14O2	2,3,3-trimethyl-1-cyclopentene-1-carboxylic *	5587-63-3	528.65	46.644	1,2
17342	C9H13NO2	metaraminol	54-49-9	491.15	43.034	1,2	17474	C9H14O2	2-(3-butynyloxy)tetrahydro-2H-pyran	40365-61-5	486.73	42.611	2
17343	C9H13NO2	tetramethylene glutarimide	1075-89-4	539.82	47.723	2	17475	C9H14O2	isophorone oxide	10276-21-8	486.73	42.611	2
17344	C9H13NO2	neosynephrine	59-42-7	539.82	47.723	2	17476	C9H14O2	2-norbornaneacetic acid	1007-01-8	486.73	42.611	2
17345	C9H13NO2S	ethyl cis-2-isothiocyanato-1-cyclopentanecar*	311341-94-3	481.15	42.076	2	17477	C9H14O2	5-norbornene-2-endo,3-endo-dimethanol	699-97-8	486.73	42.611	2
17346	C9H13NO2S	N-ethyl-p-toluenesulfonamide	80-39-7	481.15	42.076	1,2	17478	C9H14O2	5-norbornene-2-exo,3-exo-dimethanol	699-95-6	486.73	42.611	2
17347	C9H13NO2S	N,N-dimethyl-p-toluenesulfonamide	599-69-9	481.15	42.076	2	17479	C9H14O2	2-norbornyl acrylate	10027-06-2	486.73	42.611	2
17348	C9H13NO2S	thiocyanatoacetic acid cyclohexyl ester	5349-27-9	481.15	42.076	2	17480	C9H14O2	octahydrocoumarin	4430-31-3	486.73	42.611	2
17359	C9H13N3	1-(2-pyridyl)piperazine	34803-66-2	566.15	50.275	1,2	17482	C9H14O3	bis(2-methallyl) carbonate	64057-79-0	494.65	43.370	2
17360	C9H13N3	3,3-dimethyl-1-(m-methylphenyl)triazene	20241-03-6	566.15	50.275	2	17483	C9H14O3	2-(diethoxymethyl)furan	13529-27-6	464.65	40.498	1,2
17361	C9H13N3	1-ethyl-3-p-tolyltriazene	50707-40-9	566.15	50.275	2	17484	C9H14O3	ethyl 2-acetyl-4-pentenoate	610-89-9	481.15	42.076	1,2
17362	C9H13N3	1-(2-methylphenyl)-3,3-dimethyltriazene	20240-98-6	566.15	50.275	2	17485	C9H14O3	tetrahydrofurfuryl methacrylate	2455-24-5	538.15	47.561	1,2
17363	C9H13N3O	3,3-dimethyl-1-p-methoxyphenyltriazene	7203-92-1	418.15	36.079	2	17486	C9H14O3	ethyl 2-oxocyclohexanecarboxylate	1655-07-8	494.65	43.370	2
17364	C9H13N3O	3-(2-hydroxyethyl)-3-methyl-1-phenyltriazene	21600-45-3	418.15	36.079	2	17487	C9H14O3	ethyl 4-oxocyclohexanecarboxylate	17159-79-4	494.65	43.370	2
17365	C9H13N3O	isonicotinic acid 2-isopropylhydrazide	54-92-2	418.15	36.079	2	17488	C9H14O3	ethyl 2-oxocyclopentylacetate	20826-94-2	494.65	43.370	2
17366	C9H13N3O	1-phenethylsemicarbazide	3898-45-1	418.15	36.079	2	17489	C9H14O3	methyl 2-oxo-1-cycloheptanecarboxylate	52784-32-4	494.65	43.370	2
17367	C9H13N3O	(2-phenoxyethyl)guanidine	46231-41-8	418.15	36.079	1,2	17490	C9H14O3	methyl 3-oxo-6-octenoate; predominantly trans	110874-83-4	494.65	43.370	2
17379	C9H13N5O3	9-(3,4-dihydroxybutyl)guanine	83470-64-8	303.25	25.355	1,2	17491	C9H14O3	2,5-di(1,2-epoxyethyl)tetrahydro-2H-pyran	39079-58-8	494.65	43.370	2
17382	C9H13O4PS	dimethyl p-(methylthio)phenyl phosphate	3254-63-5	412.15	35.512	1,2	17492	C9H14O3	1,4-ipomeadiol	53011-73-7	494.65	43.370	2
17383	C9H13O4PS2	ENT 24,944	115-91-3	442.15	38.355	1,2	17493	C9H14O3SSi	trimethylsilyl benzenesulfonate	17882-06-3	428.15	37.026	1,2
17386	C9H14	cyclononyne	6573-52-0	451.15	39.211	1,2	17495	C9H14O4	diethyl 1,1-cyclopropanedicarboxylate	1559-02-0	488.15	42.747	1,2
17387	C9H14	2,3-dimethylbicyclo[2.2.1]hept-2-ene	529-16-8	413.65	35.653	1,2	17496	C9H14O4	diethyl cis-1,2-cyclopropanedicarboxylate	710-43-0	502.15	44.091	2
17388	C9H14	1-nonen-3-yne	57223-18-4	418.44	36.106	2	17497	C9H14O4	diethyl ethylidenemalonate	1462-12-0	502.15	44.091	2
17389	C9H14	1-nonen-4-yne	31508-12-0	418.44	36.106	2	17498	C9H14O4	diethyl cis-2-methyl-2-butenedioate	691-83-8	501.15	43.995	1,2
17390	C9H14	2-nonen-4-yne	90644-60-3	418.44	36.106	2	17499	C9H14O4	diethyl trans-2-methyl-2-butenedioate	2418-31-7	502.15	44.091	1,2
17391	C9H14	6,6-dimethyl-1-hepten-4-yne	31508-08-4	398.15	34.191	1,2	17500	C9H14O4	diethyl methylenesuccinate	2409-52-1	501.15	43.995	1,2
17392	C9H14	3-propyl-3-hexen-1-yne	688-52-8	409.15	35.228	1,2	17501	C9H14O4	trans-diethyl 2-pentenedioate	73178-43-5	510.15	44.860	1,2
17393	C9H14	3,3-dimethyltricyclo[2.2.1.02,6]heptane	473-02-9	411.15	35.417	1,2	17502	C9H14O4	dimethyl trans-1,2-cyclopentanedicarboxylate*	80656-12-8	502.15	44.091	2
17394	C9H14	2-propynylcyclohexane	17715-00-3	430.65	37.263	1,2	17503	C9H14O4	diethyl trans-1,2-cyclopropanedicarboxylate	3999-55-1	502.15	44.091	2
17395	C9H14	1,2,3,4-tetramethyl-1,3-cyclopentadiene	4249-10-9	415.15	35.795	1,2	17504	C9H14O4	diethyl glutaconate	2049-67-4	510.15	44.860	1,2
17395.1	C9H14	ethylnorbene	15403-89-1	416.75	34.582	1,2	17505	C9H14O4	methyl 4-acetyl-5-oxohexanoate	13984-53-7	502.15	44.091	2
17395.2	C9H14	1-methyl-4-vinylcyclohexene	17699-86-4	425.15	37.463	1,2	17506	C9H14O4	3,3-tetramethyleneglutaric acid	16713-66-9	502.15	44.091	2
17395.3	C9H14	propenyl cyclohexene	13511-13-2	431.65	38.007	1,2	17507	C9H14O4	methyl diepoxydiallylacetate	63041-05-4	502.15	44.091	2
17396	C9H14AsNO5	3-amino-4(1-(2-hydroxy)propoxy)benzenearsoni*	5423-12-1	408.15	35.134	1,2	17508	C9H14O4	methyl vinyl adipate	2969-87-1	502.15	44.091	2
17409	C9H14N2	nonanedinitrile	1675-69-0	523.15	46.113	2	17509	C9H14O5	diethyl 2-acetylmalonate	570-08-1	505.15	44.379	1,2
17410	C9H14N2	N-benzylethylenediamine	4152-09-4	523.15	46.113	1,2	17510	C9H14O5	diethyl 2-formylsuccinate	5472-38-8	514.15	45.245	2
17411	C9H14N2	2,3-diethyl-5-methylpyrazine	18138-04-0	523.15	46.113	2	17511	C9H14O5	diethyl 3-oxo-1,5-pentanedioate	105-50-0	523.15	46.113	1,2
17412	C9H14N2	pheniprazine	55-52-7	523.15	46.113	2	17512	C9H14O5	ethyl 2-acetoxy-2-methylacetoacetate	25409-39-6	514.15	45.245	2
17413	C9H14N2	2-methylphenelzine	21085-56-3	523.15	46.113	2	17513	C9H14O6	glyceryl triacetate	102-76-1	532.15	56.455	1,2
17414	C9H14N2	4-methylphenelzine	32504-14-6	523.15	46.113	2	17514	C9H14O6	(-)-dimethyl 2,3-O-isopropylidene-L-tartrate	37031-29-1	532.15	46.982	2
17415	C9H14N2O	6-butoxy-3-pyridinamine	539-23-1	323.15	27.190	2	17515	C9H14O6	(+)-dimethyl 2,3-O-isopropylidene-d-tartrate	37031-30-4	532.15	46.982	2
17416	C9H14N2O	2-sec-butyl-3-methoxypyrazine	24168-70-5	323.15	27.190	1,2	17516	C9H14O6	1,3:2,5:4,6-tri-O-methylene-D-mannitol	5434-31-1	532.15	46.982	2
17417	C9H14N2O	2-isobutyl-3-methoxypyrazine	24683-00-9	323.15	27.190	2	17517	C9H14O7	trimethyl citrate	1587-20-8	558.15	49.498	1,2
17436	C9H14O	isophorone	78-59-1	488.35	42.370	1,2	17518	C9H14O7	2,6-dimethyl-2,5-heptadien-4-one diozonide	---	558.15	49.498	2
17437	C9H14O	3,3-dimethylbicyclo[2.2.1]heptan-2-one, (1S)	6069-71-2	466.15	40.641	1,2	17518.1	C9H14O7	trilatic acid	78024-33-6	619.00	78.850	1,2
17438	C9H14O	6,6-dimethylbicyclo[3.1.1]heptan-2-one, (1R)	38651-65-9	482.15	42.172	1,2	17520	C9H14S	2-isopentylthiophene	26963-33-7	469.15	40.928	1,2
17439	C9H14O	5-methyl-2-isopropyl-2-cyclopenten-1-one	5587-79-1	462.15	40.260	1,2	17523	C9H14Si	trimethylphenylsilane	768-32-1	442.65	38.402	1,2
17440	C9H14O	3,4,4-trimethyl-2-cyclohexen-1-one	17299-41-1	490.15	42.939	1,2	17524	C9H14Si	benzyldimethylsilane	1631-70-5	442.65	38.402	2
17441	C9H14O	3,4,6-trimethyl-2-cyclohexen-1-one	7474-10-4	486.15	42.555	1,2	17534	C9H15Cl	2-chloro-2-methyl-3-octyne	20599-21-7	457.00	39.768	2
17442	C9H14O	3,6,6-trimethyl-2-cyclohexen-1-one	23438-77-9	481.15	42.076	1,2	17535	C9H15Cl	1-chloro-1-nonyne	90722-14-8	457.00	39.768	2
17443	C9H14O	3-ethyl-6-hepten-4-yn-3-ol	3142-84-5	476.20	41.602	2	17540	C9H15Cl2N3O2Zn	(trans-4)-dichloro(4,4-dimethylzinc 5((((met*	58270-08-9	518.15	45.631	1,2
17444	C9H14O	4-methyl-7-octen-5-yn-4-ol	39118-35-9	476.20	41.602	2	17546	C9H15N	N,N-diallyl-2-propen-1-amine	102-70-5	428.65	37.073	1,2
17445	C9H14O	2,6-nonadienal	26370-28-5	476.20	41.602	2	17547	C9H15N	3,4-diethyl-2-methyl-1H-pyrrole	34874-30-1	475.65	41.550	1,2
17446	C9H14O	trans,trans-2,4-nonadienal	5910-87-2	476.20	41.602	2	17548	C9H15N	3-ethyl-2,4,5-trimethylpyrrole	520-69-4	487.15	42.651	1,2
17447	C9H14O	cis-octahydro-2H-inden-2-one	5689-04-3	498.15	43.706	1,2	17549	C9H15N	1-pyrrolidino-1-cyclopentene	7148-07-4	463.82	40.419	2
17448	C9H14O	trans-octahydro-2H-inden-2-one	16484-17-6	491.15	43.034	1,2	17550	C9H15N	1,2-dihydro-2,2,4,6-tetramethylpyridine	63681-01-6	463.82	40.419	2
17449	C9H14O	phorone	504-20-1	470.65	41.071	1,2	17551	C9H15NO	9-methyl-9-azabicyclo[3.3.1]nonan-3-one	552-70-5	519.15	45.727	1,2
17450	C9H14O	2-allylcyclohexanone	94-66-6	476.20	41.602	2	17552	C9H15NO	4-ethyl-4-formylhexanenitrile	2938-69-4	519.15	45.727	2
17451	C9H14O	bicyclo[3.3.1]nonan-9-one	17931-55-4	476.20	41.602	2	17553	C9H15NO	1-morpholinocyclopentene	936-52-7	519.15	45.727	2
17452	C9H14O	trans-2,trans-6-nonadienal	17587-33-6	476.20	41.602	2	17554	C9H15NO2	3,3-diethyl-2,4-piperidinedione	77-03-2	490.82	43.002	2
17453	C9H14O	trans-2,cis-6-nonadienal	557-48-2	476.20	41.602	2	17555	C9H15NO2	N-(1,1-dimethyl-3-oxobutyl)-2-propenamide	2873-97-4	490.82	43.002	2
17454	C9H14O	2,3,4,5-tetramethyl-2-cyclopentenone; (cis+t*	54458-61-6	476.20	41.602	2	17556	C9H15NO2	ethyl 2-cyano-2-ethylbutanoate	1619-56-3	487.15	42.651	1,2
17455	C9H14O	2,4,4-trimethyl-2-cyclohexen-1-one	13395-71-6	468.05	40.823	1,2	17557	C9H15NO2	ethyl 2-cyanohexanoate	7391-39-1	504.15	44.283	1,2
17456	C9H14O	2,6-dimethyl-1,5-heptadien-4-one	5837-45-6	456.20	39.692	1,2	17558	C9H15NO2	tert-butyl 2,5-dihydro-1H-pyrrole-1-carboxyl*	73286-70-1	481.15	42.076	1,2
17457	C9H14O	2-amylfuran	3777-69-3	476.20	41.602	2	17559	C9H15NO2	ethyl 2-amino-1-cyclohexene-1-carboxylate	1128-00-3	490.82	43.002	2
17458	C9H14O	dimethyl-3-cyclohexene-1-carboxaldehyde	27939-60-2	450.15	39.116	1,2	17560	C9H15NO2	ethyl 1-methyl-1,2,3,6-tetrahydro-4-pyridine*	40175-06-2	490.82	43.002	2
17459	C9H14O	2,5-divinyltetrahydropyran	25724-33-8	476.20	41.602	2	17561	C9H15NO2	aceclidine	827-61-2	490.82	43.002	2
17460	C9H14OSi	trimethylphenoxysilane	1529-17-5	392.15	33.626	1,2	17562	C9H15NO3	5,5-dipropyl-2,4-oxazolidinedione	512-12-9	526.15	46.402	2
17461	C9H14O2	2-(butoxymethyl)furan	56920-82-2	463.15	40.355	1,2	17563	C9H15NO3	ecgonine	481-37-8	526.15	46.402	2
17462	C9H14O2	cyclohexyl acrylate	3066-71-5	456.15	39.687	1,2	17564	C9H15NO3	1-(tert-butoxycarbonyl)-2-pyrrolidinone	85909-08-6	526.15	46.402	2
17463	C9H14O2	ethyl 3-cyclohexene-1-carboxylate	15111-56-5	467.65	40.785	1,2	17565	C9H15NO3	butyl (S)-(-)-2-pyrrolidone-5-carboxylate	4931-68-4	526.15	46.402	2
17464	C9H14O2	methyl cyclohexylideneacetate	40203-74-5	486.73	42.611	2	17566	C9H15NO3	ethyl 6-isocyanatohexanoate	5100-36-7	526.15	46.402	1,2
17465	C9H14O2	methyl 2-octynoate	111-12-6	490.15	42.939	1,2	17567	C9H15NO3	ethyl 1-piperidineglyoxylate	53074-96-7	526.15	46.402	2
17466	C9H14O2	2-nonynoic acid	1846-70-4	486.73	42.611	2	17568	C9H15NO3	(S)-(+)-4-isopropyl-3-propionyl-2-oxazolidin*	77877-19-1	526.15	46.402	2
17467	C9H14O2	3-nonynoic acid	56630-33-2	486.73	42.611	2	17590	C9H16	1-butylcyclopentene	2423-01-0	429.15	37.217	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
17591	C9H16	4-isopropyl-1-methylcyclopentene	90769-70-3	415.65	33.219	1,2	17690	C9H16O	2-methyl-5-octen-4-one	17577-93-4	456.15	39.687	1,2
17592	C9H16	3-methyl-1-isopropylcyclopentene	51115-02-7	411.65	32.130	1,2	17691	C9H16O	2-methyl-7-octen-4-one	54298-97-4	456.52	39.723	2
17593	C9H16	1-nonyne	3452-09-3	423.96	37.120	1,2	17692	C9H16O	5-methyl-1-octen-3-one	116836-13-6	456.52	39.723	2
17594	C9H16	2-nonyne	19447-29-1	435.05	37.680	1,2	17693	C9H16O	7-methyl-5-octen-4-one	32064-78-1	456.52	39.723	2
17595	C9H16	3-nonyne	20184-89-8	430.25	37.245	1,2	17694	C9H16O	3-methyl-1-octyn-3-ol	23580-51-0	447.15	38.830	1,2
17596	C9H16	4-nonyne	20184-91-2	427.15	36.486	1,2	17695	C9H16O	1-nonyn-3-ol	7383-20-2	456.52	39.723	2
17597	C9H16	7-methyl-3-octyne	37050-06-9	421.10	34.582	2	17696	C9H16O	2-nonyn-1-ol	5921-73-3	456.52	39.723	2
17598	C9H16	2,6-dimethyl-3-heptyne	19549-97-4	403.75	29.856	1,2	17697	C9H16O	2,6-nonadien-1-ol	7786-44-9	456.52	39.723	2
17599	C9H16	5,5-dimethyl-3-heptyne	23097-98-5	421.10	34.582	2	17698	C9H16O	2-nonenal	2463-53-8	456.52	39.723	2
17600	C9H16	allylcyclohexane	2114-42-3	405.15	34.851	1,2	17699	C9H16O	trans-2-nonenal	18829-56-6	456.52	39.723	2
17601	C9H16	bicyclo[3.3.1]nonane	280-65-9	442.65	38.402	1,2	17700	C9H16O	1,3,5-trimethyl-2-cyclohexen-1-ol	33843-55-9	456.52	39.723	2
17602	C9H16	2-methylbicyclo[2.2.2]octane	766-53-0	432.15	37.405	1,2	17701	C9H16O	2,4,4-trimethyl-2-cyclohexen-1-ol	73741-61-4	466.15	40.641	1,2
17603	C9H16	cis-cyclononene	933-21-1	441.15	38.260	1,2	17702	C9H16O	3,5,5-trimethyl-2-cyclohexen-1-ol	470-99-5	456.52	39.723	2
17604	C9H16	trans-cyclononene	3958-38-1	421.10	36.358	2	17703	C9H16O	2,4-dimethyl-2,6-heptadien-1-ol, isomers	80192-56-9	456.52	39.723	2
17605	C9H16	1,8-nonadiene	4900-30-5	415.65	35.842	1,2	17704	C9H16O	2,6-dimethyl-5-heptenal	106-72-9	456.52	39.723	2
17606	C9H16	2,7-nonadiene	51333-70-1	424.65	36.694	1,2	17705	C9H16O	(Z)-6-nonenal	2277-19-2	456.52	39.723	2
17607	C9H16	4-methyl-3,5-octadiene	36903-95-4	422.65	36.505	1,2	17706	C9H16O	trans-3-nonen-2-one	18402-83-0	456.52	39.723	2
17608	C9H16	7-methyl-2,4-octadiene	2216-70-8	422.15	36.457	1,2	17707	C9H16O	3-nonyn-1-ol	31333-13-8	456.52	39.723	2
17609	C9H16	2,4-dimethyl-2,4-heptadiene	74421-05-9	411.15	35.417	1,2	17708	C9H16O	trans-2,cis-6-nonadienol	28069-72-9	369.65	31.515	1,2
17610	C9H16	2,6-dimethyl-1,3-heptadiene	2436-84-2	414.15	35.701	1,2	17709	C9H16O	cyclohexanepropanal-	4361-28-8	360.15	30.627	1,2
17611	C9H16	2,6-dimethyl-1,5-heptadiene	6709-39-3	416.15	35.890	1,2	17711	C9H16O2	allyl hexanoate	123-68-2	459.15	39.973	1,2
17612	C9H16	3,5-dimethyl-2,4-heptadiene	101935-28-8	413.15	35.606	1,2	17712	C9H16O2	cyclohexanepropanoic acid	701-97-3	549.65	48.674	1,2
17613	C9H16	3-ethyl-2-methyl-1,5-hexadiene	73398-15-9	418.15	36.079	1,2	17713	C9H16O2	cyclohexyl propanoate	6222-35-1	466.15	40.641	1,2
17614	C9H16	octahydroindene	496-10-6	440.15	38.165	1,2	17714	C9H16O2	dihydro-5-pentyl-2(3H)-furanone	104-61-0	467.93	40.811	2
17615	C9H16	1,2,3-trimethylcyclohexene	72312-48-2	423.15	36.552	1,2	17715	C9H16O2	ethyl cyclohexanecarboxylate	3289-28-9	469.15	40.928	1,2
17616	C9H16	1,3,5-trimethylcyclohexene	3643-64-9	414.15	35.701	1,2	17716	C9H16O2	ethyl 2-methyl-2-hexenoate	26311-33-1	467.93	40.811	2
17617	C9H16	1,4,4-trimethylcyclohexene	3419-71-4	413.15	35.606	1,2	17717	C9H16O2	ethyl 2-methyl-3-hexenoate	21994-78-5	467.93	40.811	2
17618	C9H16	1,4,5-trimethylcyclohexene	20030-32-4	418.15	36.079	1,2	17718	C9H16O2	ethyl 3-methyl-3-hexenoate	21994-77-4	467.93	40.811	2
17619	C9H16	1,5,5-trimethylcyclohexene	503-46-8	413.15	35.606	1,2	17719	C9H16O2	hexyl acrylate	2499-95-8	467.93	40.811	2
17620	C9H16	1,5,6-trimethylcyclohexene	116724-18-6	413.15	35.606	1,2	17720	C9H16O2	2-methylcyclohexaneacetic acid	6617-04-5	467.93	40.811	2
17621	C9H16	1,6,6-trimethylcyclohexene	69745-49-9	419.15	36.173	1,2	17721	C9H16O2	3-methylcyclohexaneacetic acid	67451-76-7	467.93	40.811	2
17622	C9H16	1-ethyl-4-methylcyclohexene	62088-36-2	422.15	36.457	1,2	17722	C9H16O2	methyl cyclohexylacetate	14352-61-5	474.15	41.406	1,2
17623	C9H16	1-ethylidene-2-methylcyclohexane	40514-70-3	431.15	37.310	1,2	17723	C9H16O2	2,4-nonanedione	6175-23-1	467.93	40.811	2
17624	C9H16	cis-bicyclo[4.3.0]nonane	4551-51-3	441.05	38.250	1,2	17724	C9H16O2	2-nonenoic acid	3760-11-0	525.00	46.291	2
17625	C9H16	trans-bicylco[4.3.0]nonane	3296-50-2	434.20	37.600	1,2	17725	C9H16O2	3-nonenoic acid	4124-88-3	525.00	46.291	2
17626	C9H16	trans-1,3-dimethyl-2-methylenecyclohexane	20348-74-7	390.75	33.495	1,2	17726	C9H16O2	8-nonenoic acid	31642-67-8	525.00	46.291	2
17627	C9H16	1-isopropyl-1-cyclohexene	4292-04-0	428.25	37.035	1,2	17727	C9H16O2	sec-butyl tiglate	28127-58-4	467.93	40.811	2
17628	C9H16	7-methyl-1,6-octadiene	42152-47-6	416.65	35.937	1,2	17728	C9H16O2	1,7-dioxaspiro[5.5]undecane	180-84-7	466.15	40.641	1,2
17629	C9H16	3,5,5-trimethylcyclohexene	933-12-0	406.75	35.002	1,2	17729	C9H16O2	2-ethylbutyl acrylate	3593-10-4	467.93	40.811	2
17631	C9H16ClN3O2	1-(2-chloroethyl)-3-cyclohexyl-1-nitrosourea	13010-47-4	336.75	28.449	1,2	17730	C9H16O2	2,6-dimethyl-3,5-heptanedione	18362-64-6	339.15	28.672	1,2
17632	C9H16ClN3O3	1-(2-chloroethyl)-3-(cis-4-hydroxycyclohexyl*	52049-26-0	405.15	34.851	1,2	17731	C9H16O2	nonalactone	6008-27-1	467.93	40.811	2
17633	C9H16ClN3O3	1-(2-chloroethyl)-3-(trans-4-hydroxycyclohex*	56239-24-8	388.75	33.306	1,2	17732	C9H16O2	2,8-nonanedione	30502-73-9	467.93	40.811	2
17634	C9H16ClN3O4	1-(2-chloroethyl)-3-(trans-2-hydroxycyclohex*	58494-43-2	401.15	34.474	1,2	17733	C9H16O2	1,2:8,9-diepoxynonane	24829-11-6	467.93	40.811	2
17635	C9H16ClN3O7	1-(2-chloroethyl)-3-(b-D-glucopyranosyl)-1-n*	58484-07-4	327.15	27.560	1,2	17734	C9H16O2	3,5-dimethyl-3-hydroxyhexane-4-carboxylic ac*	69928-30-9	525.00	46.291	2
17636	C9H16ClN3O7	chlorozotocin	54749-90-5	392.45	33.654	1,2	17735	C9H16O2	2-ethylbutylacrylate	3953-10-4	512.15	45.053	1,2
17639	C9H16ClN5	1,3,5-triazine-2,4-diamine, 6-chloro-N-ethyl*	7286-69-3	374.95	32.011	2	17736	C9H16O2	cis-3-hexenyl propionate	33467-74-2	475.65	41.550	1,2
17640	C9H16ClN5	triethazine	1912-26-1	374.95	32.011	1,2	17737	C9H16O2	trans-2-hexenyl propionate	53398-80-4	467.93	40.811	2
17642	C9H16Cl2N6O4	1,1'-propylenebis(3-(2-chloroethyl)-3-nitros*	60784-42-1	410.95	35.398	1,2	17738	C9H16O2	4-hydroxy-2-nonenal	29343-52-0	467.93	40.811	2
17644	C9H16FN3O2	cyclohexyl fluoroethyl nitrosourea	13908-93-5	362.15	30.814	1,2	17739	C9H16O2	2-methyl-1,4-dioxaspiro(4.5)decane	4722-68-3	467.93	40.811	2
17652	C9H16N2O2S	tert-butyl-N-(3-methyl-2-thiazolidinylidene)*	100836-63-3	435.25	37.699	1,2	17740	C9H16O2	trimethyl-2-oxepanone (mixed isomers)	64047-30-9	467.93	40.811	2
17653	C9H16N2O2S2	N-oxydiethylene thiocarbamyl-N-oxydiethylene*	13752-51-7	362.15	30.814	1,2	17741	C9H16O3	butyl 4-oxopentanoate	2052-15-5	510.65	44.908	1,2
17661	C9H16O	1-allylcyclohexanol	1123-34-8	463.15	40.355	1,2	17742	C9H16O3	2,2-dimethyl-6-oxoheptanoic acid	461-11-0	550.15	48.723	1,2
17662	C9H16O	trans-2-allylcyclohexanol	24844-28-8	456.52	39.723	2	17743	C9H16O3	4,4-dimethyl-6-oxoheptanoic acid	471-04-5	508.61	44.712	2
17663	C9H16O	1-cyclohexyl-1-propanone	1123-86-0	469.15	40.928	1,2	17744	C9H16O3	ethyl 2-acetyl-3-methylbutanoate	1522-46-9	474.15	41.406	1,2
17664	C9H16O	cyclononanone	3350-30-9	456.52	39.723	2	17745	C9H16O3	ethyl 2-acetylpentanoate	1540-28-9	497.15	43.610	1,2
17665	C9H16O	1-(1-methylcyclohexyl)ethanone	2890-62-2	459.35	39.993	1,2	17746	C9H16O3	ethyl 4-methyl-5-oxohexanoate	53068-88-5	508.61	44.712	2
17666	C9H16O	1-(3-methylcyclohexyl)ethanone	7193-78-4	470.15	41.024	1,2	17747	C9H16O3	ethyl tetrahydro-2-furanpropanoate	4525-36-4	495.15	43.418	1,2
17667	C9H16O	1-(4-methylcyclohexyl)ethanone	1879-06-7	469.15	40.928	1,2	17748	C9H16O3	isobutyl 4-oxopentanoate	3757-32-2	501.15	43.995	1,2
17668	C9H16O	cyclooctanecarboxaldehyde	6688-11-5	456.52	39.723	2	17749	C9H16O3	D-a,b-cyclohexylideneglycerol	95335-91-4	508.61	44.712	2
17669	C9H16O	1,7-dimethylbicyclo[2.2.1]heptan-2-ol, (exo,*	509-12-6	465.15	40.546	1,2	17750	C9H16O3	ethyl cis-2-hydroxy-1-cyclohexanecarboxylate	16179-44-5	508.61	44.712	2
17670	C9H16O	2-ethyl-2-methylcyclohexanone	17206-52-9	468.15	40.833	1,2	17751	C9H16O3	ethyl 4-hydroxycyclohexanecarboxylate	17159-80-7	508.61	44.712	2
17671	C9H16O	2-isopropylcyclohexanone	1004-77-9	456.52	39.723	2	17752	C9H16O3	2,3-epoxy-4-hydroxynonanal	152375-23-0	573.15	50.955	1,2
17672	C9H16O	4-isopropylcyclohexanone	5432-85-9	487.15	42.651	1,2	17753	C9H16O3	glycidyl ester of hexanoic acid	17526-74-8	467.35	40.756	1,2
17673	C9H16O	2-propylcyclohexanone	94-65-5	470.15	41.024	1,2	17754	C9H16O3	trans-4-hydroxy-2-nonenal	152322-55-9	508.61	44.712	2
17674	C9H16O	4-propylcyclohexanone	40649-36-3	486.15	42.555	1,2	17755	C9H16O4	azelaic acid	123-99-9	633.36	76.203	1,2
17675	C9H16O	2,2,3-trimethylcyclohexanone	39257-08-4	464.15	40.451	1,2	17756	C9H16O4	diethyl dimethylmalonate	1619-62-1	470.15	41.024	1,2
17676	C9H16O	2,2,4-trimethylcyclohexanone	35413-38-8	456.52	39.723	2	17757	C9H16O4	diethyl ethylmalonate	133-13-1	481.15	42.076	1,2
17677	C9H16O	2,2,5-trimethylcyclohexanone	933-36-8	456.15	39.687	1,2	17758	C9H16O4	diethyl glutarate	818-38-2	509.65	44.812	1,2
17678	C9H16O	2,2,6-trimethylcyclohexanone	2408-37-9	451.65	39.259	1,2	17759	C9H16O4	diethyl 2-methylsuccinate	4676-51-1	490.65	42.986	1,2
17679	C9H16O	2,3,6-trimethylcyclohexanone	42185-47-7	463.15	40.355	1,2	17760	C9H16O4	dimethyl 3,3-dimethylpentanedioate	19184-67-9	509.23	44.772	2
17680	C9H16O	2,4,4-trimethylcyclohexanone	2230-70-8	464.15	40.451	1,2	17761	C9H16O4	dimethyl heptanedioate	1732-08-7	509.23	44.772	2
17681	C9H16O	2,4,5-trimethylcyclohexanone	51299-55-9	466.15	40.641	1,2	17762	C9H16O4	dipropyl malonate	1117-19-7	502.15	44.091	1,2
17682	C9H16O	2,4,6-trimethylcyclohexanone	90645-54-8	459.15	39.973	1,2	17763	C9H16O4	monoethyl heptanedioate	33018-91-6	509.23	44.772	2
17683	C9H16O	3,3,5-trimethylcyclohexanone	873-94-9	462.15	40.260	1,2	17764	C9H16O4	1,5-pentanediol diacetate	6963-44-6	514.15	45.245	1,2
17684	C9H16O	3,4,4-trimethylcyclohexanone	40441-35-8	456.52	39.723	2	17765	C9H16O4	pentyl hydrogen succinate	97479-78-2	509.23	44.772	2
17685	C9H16O	4-isopropyl-2-methylcyclopentanone	90645-61-7	464.65	40.498	1,2	17766	C9H16O4	tert-butyl ethyl malonate	32864-38-3	509.23	44.772	2
17686	C9H16O	2-methyl-2-isopropylcyclopentanone	32116-65-7	456.52	39.723	2	17767	C9H16O4	(R)-2-butylsuccinic acid-1-methyl ester	850411-21-1	509.23	44.772	2
17687	C9H16O	2-methyl-5-isopropylcyclopentanone	6784-18-5	455.15	39.592	1,2	17768	C9H16O4	di(ethylene glycol) ethyl ether acrylate	7328-17-8	523.15	46.113	1,2
17688	C9H16O	4-methyl-2-isopropylcyclopentanone	69770-98-5	456.15	39.687	1,2	17769	C9H16O4	di(ethylene glycol) methyl ether methacrylate	45103-58-0	509.23	44.772	2
17689	C9H16O	1-methoxy-2-octyne	18495-23-3	456.52	39.723	2	17770	C9H16O4	diisopropyl malonate	13195-64-7	509.23	44.772	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
17771	C9H16O4	dimethyl diethylmalonate	27132-23-6	509.23	44.772	2	17879	C9H18	1,1-dimethyl-2-ethylcyclopentane	54549-80-3	411.15	34.782	1,2
17772	C9H16O4	dimethyl isobutylmalonate	39520-24-6	509.23	44.772	2	17880	C9H18	1,1-dimethyl-3-ethylcyclopentane	62016-61-9	407.15	34.427	1,2
17773	C9H16O4	(R)-2-isobutylsuccinic acid-1-methyl ester	130165-76-3	509.23	44.772	2	17881	C9H18	1,cis-2-dimethyl-1-ethylcyclopentane	62016-63-1	417.15	35.314	1,2
17774	C9H16O4	(S)-2-isobutylsuccinic acid-1-methyl ester	213270-36-1	509.23	44.772	2	17882	C9H18	1,trans-2-dimethyl-1-ethylcyclopentane	62016-62-0	417.15	35.314	1,2
17775	C9H16O4	suberic acid monomethyl ester	3946-32-5	458.65	39.926	1,2	17883	C9H18	1,cis-2-dimethyl-cis-3-ethylcyclopentane	---	425.15	35.931	1,2
17776	C9H16O4	2-butoxyethoxy acrylate	7251-90-3	509.23	44.772	2	17884	C9H18	1,cis-2-dimethyl-trans-3-ethylcyclopentane	---	418.15	35.311	1,2
17777	C9H16O4	trimethylhexanedioic acid	28472-18-6	509.23	44.772	2	17885	C9H18	1,trans-2-dimethyl-cis-3-ethylcyclopentane	---	411.15	34.691	1,2
17778	C9H16O4S2	monoisoamyl meso-2,3-dimercaptosuccinate	142609-62-9	396.15	34.003	1,2	17886	C9H18	1,trans-2-dimethyl-trans-3-ethylcyclopentane	---	418.15	35.311	1,2
17785	C9H17Br	cis-1-bromo-1-nonene	39924-58-8	478.15	43.797	1,2	17887	C9H18	1,cis-2-dimethyl-cis-4-ethylcyclopentane	62016-64-2	420.15	35.488	1,2
17786	C9H17Br	trans-1-bromo-1-nonene	53434-75-6	478.15	43.797	1,2	17888	C9H18	1,cis-2-dimethyl-trans-4-ethylcyclopentane	62016-65-3	420.15	35.488	1,2
17790	C9H17Br3	1,1,1-tribromononane	62127-66-6	570.15	56.303	1,2	17889	C9H18	1,trans-2-dimethyl-cis-4-ethylcyclopentane	62016-66-4	413.15	34.868	1,2
17791	C9H17Cl	cis-1-chloro-1-nonene	66688-72-0	474.15	42.170	1,2	17890	C9H18	1,cis-3-dimethyl-1-ethylcyclopentane	62016-68-6	409.15	34.604	1,2
17792	C9H17Cl	trans-1-chloro-1-nonene	66688-73-1	474.15	42.170	1,2	17891	C9H18	1,trans-3-dimethyl-1-ethylcyclopentane	62016-67-5	409.15	34.604	1,2
17793	C9H17Cl	(3-chloropropyl)cyclohexane	1124-62-5	487.85	42.718	1,2	17892	C9H18	1,cis-3-dimethyl-cis-2-ethylcyclopentane	19903-00-5	425.15	35.931	1,2
17795	C9H17ClN3O3PS	isazophos	67329-04-8	443.15	38.450	1,2	17893	C9H18	1,cis-3-dimethyl-trans-2-ethylcyclopentane	19902-98-8	410.15	34.602	1,2
17796	C9H17ClN3O3PS	isazofos	42509-80-8	443.15	38.450	2	17894	C9H18	1,trans-3-dimethyl-cis-2-ethylcyclopentane	19902-99-9	417.15	35.222	1,2
17797	C9H17ClO	nonanoyl chloride	764-85-2	488.45	42.775	1,2	17895	C9H18	1,cis-3-dimethyl-cis-4-ethylcyclopentane	---	418.15	35.311	1,2
17798	C9H17ClO	3,5,5-trimethylhexanoyl chloride	36727-29-4	462.15	40.260	1,2	17896	C9H18	1,cis-3-dimethyl-trans-4-ethylcyclopentane	---	410.15	34.602	1,2
17804	C9H17Cl3	1,1,1-trichlorononane	1071-84-7	517.15	46.493	1,2	17897	C9H18	1,trans-3-dimethyl-cis-4-ethylcyclopentane	---	412.00	35.497	2
17805	C9H17F	cis-1-fluoro-1-nonene	66688-74-2	408.75	36.067	2	17898	C9H18	1,trans-3-dimethyl-trans-4-ethylcyclopentane	---	418.15	35.311	1,2
17806	C9H17F	trans-1-fluoro-1-nonene	66688-75-3	408.75	36.067	2	17899	C9H18	1,1,2,2-tetramethylcyclopentane	52688-89-8	406.15	34.051	1,2
17808	C9H17F3	1,1,1-trifluorononane	55757-34-1	421.15	37.210	1,2	17900	C9H18	1,1,cis-2,cis-3-tetramethylcyclopentane	62016-70-0	411.15	34.398	1,2
17809	C9H17I	cis-1-iodo-1-nonene	27370-94-1	505.15	44.964	1,2	17901	C9H18	1,1,cis-2,trans-3-tetramethylcyclopentane	---	403.15	33.696	1,2
17810	C9H17I	trans-1-iodo-1-nonene	26143-08-8	505.15	44.964	1,2	17902	C9H18	1,1,cis-2,cis-4-tetramethylcyclopentane	62016-72-2	403.15	33.696	1,2
17812	C9H17I3	1,1,1-triiodononane	---	681.51	61.663	2	17903	C9H18	1,1,cis-2,trans-4-tetramethylcyclopentane	---	403.15	33.696	1,2
17813	C9H17N	nonanenitrile	2243-27-8	497.55	46.155	1,2	17904	C9H18	1,1,3,3-tetramethylcyclopentane	50876-33-0	391.11	32.728	1,2
17814	C9H17N	cyclohexylallylamine	6628-00-8	455.50	39.625	2	17905	C9H18	1,1,cis-3,cis-4-tetramethylcyclopentane	20309-77-7	406.15	33.959	1,2
17815	C9H17N	cis-decahydroquinoline	10343-99-4	479.15	41.884	1,2	17906	C9H18	1,1,cis-3,trans-4-tetramethylcyclopentane	---	394.75	32.959	1,2
17816	C9H17N	trans-decahydroquinoline, (±)	105728-23-2	477.15	41.693	1,2	17907	C9H18	1,2,2,cis-3-tetramethylcyclopentane	62016-73-3	411.15	34.398	1,2
17817	C9H17N	decahydroquinoline, cis and trans	2051-28-7	368.15	31.375	1,2	17908	C9H18	1,2,2,trans-3-tetramethylcyclopentane	---	411.15	34.398	1,2
17818	C9H17N	N-tert-butyl-3-methyl-2-butenaldimine	56637-64-0	455.50	39.625	2	17909	C9H18	1,cis-2,cis-3,cis-4-tetramethylcyclopentane	2532-65-2	418.15	34.924	1,2
17819	C9H17N	1,1,3,3-tetramethylbutyl isocyanide	14542-93-9	455.50	39.625	2	17910	C9H18	1,cis-2,cis-3,trans-4-tetramethylcyclopentane	2532-69-6	411.15	34.310	1,2
17820	C9H17N	trans-decahydroquinoline	767-92-0	455.50	39.625	2	17911	C9H18	1,cis-2,trans-3,cis-4-tetramethylcyclopentane	2532-68-5	404.15	33.697	1,2
17821	C9H17NO	2,2-diethyl-4-pentenamide	512-48-1	465.82	40.610	2	17912	C9H18	1,cis-2,trans-3,trans-4-tetramethylcyclopent*	2532-64-1	411.15	34.310	1,2
17822	C9H17NO	2-[(dimethylamino)methyl]cyclohexanone	15409-60-6	465.82	40.610	2	17913	C9H18	1,trans-2,cis-3,trans-4-tetramethylcyclopent*	2532-67-4	400.55	33.382	1,2
17823	C9H17NO	1-(1-methyl-2-piperidinyl)-2-propanone, (±)	18747-42-7	465.82	40.610	2	17914	C9H18	1,trans-2,trans-3,cis-4-tetramethylcyclopent*	19907-40-5	404.15	33.697	1,2
17824	C9H17NO	1,2,3,6-tetramethyl-4-piperidinone	53381-90-1	465.82	40.610	2	17915	C9H18	1-methyl-2-isopropylcyclopentane	89223-57-4	416.15	34.579	1,2
17825	C9H17NO	2,2,6,6-tetramethyl-4-piperidinone	826-36-8	478.15	41.789	1,2	17916	C9H18	propylcyclohexane	1678-92-8	429.90	36.497	1,2
17826	C9H17NO	octyl isocyanate	3158-26-7	475.15	41.502	1,2	17917	C9H18	isopropylcyclohexane	696-29-7	427.91	36.665	1,2
17827	C9H17NO	1,1,3,3-tetramethylbutyl isocyanate	1611-57-0	444.15	38.545	1,2	17918	C9H18	1-methyl-1-ethylcyclohexane	4926-90-3	425.31	36.180	1,2
17828	C9H17NO	3-(2-ethylbutoxy)propionitrile	10232-91-4	465.82	40.610	2	17919	C9H18	1-methyl-cis-2-ethylcyclohexane	4923-77-7	429.25	36.433	1,2
17831	C9H17NO2	2-(diethylamino)ethyl acrylate	2426-54-2	381.97	32.670	2	17920	C9H18	1-methyl-trans-2-ethylcyclohexane	4923-78-8	424.85	36.041	1,2
17833	C9H17NO2	tert-butyl 1-pyrrolidinecarboxylate	86953-79-9	381.97	32.670	2	17921	C9H18	1-methyl-cis-3-ethylcyclohexane	19489-10-2	421.15	35.712	1,2
17834	C9H17NO2	ethyl 1-methylpipecolinate	30727-18-5	367.15	31.281	1,2	17922	C9H18	1-methyl-trans-3-ethylcyclohexane	4926-76-5	424.15	35.979	1,2
17835	C9H17NO2	ethyl 1-methyl-3-piperidinecarboxylate	5166-67-6	381.97	32.670	2	17923	C9H18	1-methyl-cis-4-ethylcyclohexane	4926-78-7	424.15	35.979	1,2
17836	C9H17NO2	ethyl 1-piperidineacetate	23853-10-3	381.97	32.670	2	17924	C9H18	1-methyl-trans-4-ethylcyclohexane	6236-88-0	421.15	35.712	1,2
17837	C9H17NO2	4-cyanoethoxy-2-methyl-2-pentanol	10141-15-8	381.97	32.670	2	17925	C9H18	1,1,2-trimethylcyclohexane	7094-26-0	418.35	35.165	1,2
17838	C9H17NO2	2-nitro-2-nonene	4812-25-3	496.00	43.500	2	17926	C9H18	1,1,3-trimethylcyclohexane	3073-66-3	409.78	34.409	1,2
17839	C9H17NO2	3-nitro-3-nonene	6065-04-9	496.00	43.500	2	17927	C9H18	1,1,4-trimethylcyclohexane	7094-27-1	408.15	34.266	1,2
17840	C9H17NO2	5-nitro-4-nonene	6065-01-6	496.00	43.500	2	17928	C9H18	1,2,3-trimethylcyclohexane	1678-97-3	415.15	33.108	1,2
17841	C9H17NO2S	2-(2-butoxy ethoxy)ethyl thiocyanate	112-56-1	364.25	31.010	1,2	17929	C9H18	1,cis-2,cis-3-trimethylcyclohexane	1839-88-9	426.15	35.758	1,2
17842	C9H17NO4	2-nitrophenyl 2-methylpropanoate	116530-63-3	522.65	46.065	1,2	17930	C9H18	1,cis-2,trans-3-trimethylcyclohexane	7667-55-2	424.15	35.582	1,2
17843	C9H17NO4	boc-ala-ome	28875-17-4	522.65	46.065	2	17931	C9H18	1,trans-2,cis-3-trimethylcyclohexane	1678-81-5	417.15	34.966	1,2
17844	C9H17NO4	boc-d-ala-ome	91103-47-8	522.65	46.065	2	17932	C9H18	1,2,4-trimethylcyclohexane, isomers	2234-75-5	415.05	33.080	1,2
17845	C9H17NO4	g-(boc-amino)butyric acid	57294-38-9	522.65	46.065	2	17933	C9H18	1,cis-2,cis-4-trimethylcyclohexane	1678-80-4	421.15	35.318	1,2
17846	C9H17NO4	boc-a-methylalanine	30992-29-1	522.65	46.065	2	17934	C9H18	1,cis-2,trans-4-trimethylcyclohexane	7667-58-5	421.15	35.318	1,2
17847	C9H17NO4S	N-(tert-butoxycarbonyl)-L-cysteine methyl es*	55757-46-5	487.15	42.651	1,2	17935	C9H18	1,trans-2,cis-4-trimethylcyclohexane	7667-59-6	418.15	35.054	1,2
17848	C9H17NO5	pantothenic acid	79-83-4	488.15	42.747	2	17936	C9H18	1,trans-2,trans-4-trimethylcyclohexane	7667-60-9	414.37	34.722	1,2
17849	C9H17NO5	boc-L-threonine	2592-18-9	488.15	42.747	2	17937	C9H18	1,3,5,-trimethylcyclohexane	1839-63-0	411.00	31.961	1,2
17850	C9H17NO5	N-(tert-butoxycarbonyl)-D-serine methyl ester	95715-85-8	488.15	42.747	1,2	17938	C9H18	cis,cis-1,3,5-trimethylcyclohexane	1795-27-3	411.66	33.501	1,2
17859	C9H18	butylcyclopentane	2040-95-1	429.76	36.359	1,2	17939	C9H18	cis,trans-1,3,5-trimethylcyclohexane	1795-26-2	413.70	35.016	1,2
17860	C9H18	isobutylcyclopentane	3788-32-7	421.10	36.057	1,2	17940	C9H18	1-ethyl-2-methylcyclohexane	3728-54-9	425.50	36.239	1,2
17861	C9H18	sec-butylcyclopentane	4850-32-2	427.50	36.631	1,2	17941	C9H18	cyclononane	293-55-0	451.55	38.745	1,2
17862	C9H18	tert-butylcyclopentane	3875-52-3	418.00	35.119	1,2	17942	C9H18	1-nonene	124-11-8	420.02	37.025	1,2
17863	C9H18	1-methyl-1-propylcyclopentane	16631-63-3	419.15	35.893	1,2	17943	C9H18	trans-2-nonene	6434-78-2	417.65	36.032	1,2
17864	C9H18	1-methyl-cis-2-propylcyclopentane	932-43-4	425.73	36.387	1,2	17944	C9H18	trans-3-nonene	20063-92-7	420.65	36.315	1,2
17865	C9H18	1-methyl-trans-2-propylcyclopentane	932-44-5	419.52	35.830	1,2	17945	C9H18	4-nonene; (cis+trans)	2198-23-4	419.05	36.164	1,2
17866	C9H18	1-methyl-cis-3-propylcyclopentane	2443-04-1	421.15	35.976	1,2	17946	C9H18	2-methyl-1-octene	4588-18-5	417.80	36.209	1,2
17867	C9H18	1-methyl-trans-3-propylcyclopentane	2443-03-0	421.15	35.976	1,2	17947	C9H18	3-methyl-2-octene	113426-22-5	418.15	36.079	1,2
17868	C9H18	1-methyl-1-isopropylcyclopentane	61828-00-0	421.15	35.755	1,2	17948	C9H18	7-methyl-3-octene	86668-33-9	415.15	35.223	1,2
17869	C9H18	1-methyl-cis-2-isopropylcyclopentane	61868-01-7	421.15	35.659	1,2	17948.1	C9H18	7-methyl-1-octene	13151-06-9	408.15	35.622	1,2
17870	C9H18	1-methyl-trans-2-isopropylcyclopentane	61828-01-1	414.15	35.038	1,2	17949	C9H18	2-methyl-4-octene	64501-77-5	412.15	34.218	1,2
17871	C9H18	1-methyl-cis-3-isopropylcyclopentane	61828-02-2	415.15	35.126	1,2	17950	C9H18	2,3-dimethyl-2-heptene	3074-64-4	418.35	36.098	1,2
17872	C9H18	1-methyl-trans-3-isopropylcyclopentane	61828-03-3	415.15	35.126	1,2	17951	C9H18	2,6-dimethylhept-3-ene	2738-18-3	394.80	29.162	1,2
17873	C9H18	1,1-diethylcyclopentane	2721-38-2	423.65	36.297	1,2	17952	C9H18	ethylcycloheptane	13151-55-8	437.75	37.937	1,2
17874	C9H18	1,cis-2-diethylcyclopentane	932-39-8	426.71	36.474	1,2	17953	C9H18	methylcyclooctane	1502-38-1	417.43	36.011	2
17875	C9H18	1,trans-2-diethylcyclopentane	932-40-1	420.68	35.934	1,2	17955	C9H18Br2	1,1-dibromononane	62168-27-8	533.15	51.169	1,2
17876	C9H18	1,3-diethylcyclopentane	19398-75-5	423.15	36.857	1,2	17956	C9H18Br2	1,2-dibromononane	73642-91-8	545.65	48.287	2
17877	C9H18	1,cis-3-diethylcyclopentane	62016-59-5	423.15	36.155	1,2	17957	C9H18Br2	1,9-dibromononane	4549-33-1	558.15	49.498	1,2
17878	C9H18	1,trans-3-diethylcyclopentane	62016-60-8	423.15	36.155	1,2	17959	C9H18Cl2	1,1-dichlorononane	821-88-5	501.15	45.206	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
17960	C9H18Cl2	2,6-dichloro-2,6-dimethylheptane	35951-36-1	517.15	45.534	2	18068	C9H18O2	1,2-dimethylpropyl butanoate	88736-68-9	462.66	46.815	2
17961	C9H18Cl2	1,9-dichlorononane	821-99-8	533.15	47.078	1,2	18069	C9H18O2	2,2-dimethylpropyl butanoate	23361-69-5	460.31	45.741	2
17962	C9H18Cl3N2O2P	trophosphamide	22089-22-1	377.15	32.218	1,2	18070	C9H18O2	isopentyl 2-methylpropanoate	2050-01-3	441.65	34.141	1,2
17963	C9H18Cl3O4P	tris(1-chloro-2-propyl) phosphate	13674-84-5	543.15	48.045	1,2	18071	C9H18O2	butyl valerate	591-68-4	459.65	43.529	1,2
17964	C9H18F2	1,1-difluorononane	62127-42-8	436.15	38.368	1,2	18072	C9H18O2	butyl 2-methylbutanoate	15706-73-7	452.15	39.306	1,2
17965	C9H18F3NOSi	N-tert-butyldimethylsilyl-N-methyltrifluoroa*	77377-52-7	443.15	38.450	1,2	18073	C9H18O2	butyl 3-methylbutanoate	109-19-3	456.91	39.760	2
17967	C9H18I2	1,1-diiodononane	66703-05-7	591.16	53.504	2	18074	C9H18O2	sec-butyl pentanoate	116836-32-9	447.65	38.878	1,2
17974	C9H18N2	N,N'-di-tert-butylcarbodiimide	691-24-7	327.15	27.560	2	18075	C9H18O2	isobutyl 3-methylbutanoate	589-59-3	441.65	38.307	1,2
17975	C9H18N2	(S)-(+)-1-(2-pyrrolidinylmethyl)pyrrolidine	51207-66-0	327.15	27.560	2	18076	C9H18O2	propyl hexanoate	626-77-7	460.15	40.069	1,2
17976	C9H18N2	dibutylcyanamide	2050-54-6	327.15	27.560	1,2	18077	C9H18O2	isobutyl pentanoate	10588-10-0	452.15	39.306	1,2
17992	C9H18N3OP	metepa	57-39-6	364.15	31.001	1,2	18078	C9H18O2	ethyl heptanoate	106-30-9	460.15	40.069	1,2
17997	C9H18O	1-nonanal	124-19-6	468.15	44.250	1,2	18079	C9H18O2	ethyl 3-methylhexanoate	41692-47-1	450.15	39.116	1,2
17998	C9H18O	diisobutyl ketone	108-83-8	441.41	39.572	1,2	18080	C9H18O2	ethyl 4-methylhexanoate	1561-10-0	453.15	39.402	1,2
17999	C9H18O	2-nonanone	821-55-6	467.15	43.018	1,2	18081	C9H18O2	methyl octanoate	111-11-5	466.05	40.632	1,2
18000	C9H18O	di-tert-butyl ketone	815-24-7	425.15	33.245	1,2	18082	C9H18O2	3,5,5-trimethylhexanoic acid	3302-10-1	456.91	32.404	2
18001	C9H18O	3,5-dimethyl-4-heptanone	19549-84-9	435.15	36.289	1,2	18083	C9H18O2	7-methyloctanoic acid	693-19-6	456.91	32.404	2
18002	C9H18O	3-methyl-2-octanone	6137-08-2	456.62	39.732	2	18084	C9H18O2	glycidyl hexyl ether	5926-90-9	456.91	39.760	2
18003	C9H18O	3-methyl-4-octanone	20754-04-5	447.15	38.830	1,2	18085	C9H18O2	2-isobutoxy tetrahydropyran	32767-68-3	456.91	39.760	2
18004	C9H18O	4-methyl-3-octanone	6137-15-1	456.62	39.732	2	18086	C9H18O2	4-methyl-2-pentyl-dioxolane	1599-49-1	452.15	39.306	1,2
18005	C9H18O	5-methyl-2-octanone	58654-67-4	456.62	39.732	2	18087	C9H18O2	4-octanecarboxylic acid	3274-28-0	358.15	16.915	1,2
18006	C9H18O	7-methyl-3-octanone	5408-57-1	455.65	39.640	1,2	18090	C9H18O3	di-tert-butyl carbonate	34619-03-9	431.15	37.310	1,2
18007	C9H18O	7-methyl-4-octanone	20809-46-5	451.15	39.211	1,2	18091	C9H18O3	dibutyl carbonate	542-52-9	480.15	41.980	1,2
18008	C9H18O	3-nonanone	925-78-0	463.15	40.355	1,2	18092	C9H18O3	diisobutyl carbonate	539-92-4	463.15	40.355	1,2
18009	C9H18O	4-nonanone	4485-09-0	460.65	40.117	1,2	18093	C9H18O3	tert-butyl peroxypivalate	927-07-1	442.99	38.434	2
18010	C9H18O	5-nonanone	502-56-7	461.60	40.207	1,2	18094	C9H18O3	9-hydroxynonanoic acid	3788-56-5	442.99	38.434	2
18011	C9H18O	1-ethyl-2-methylcyclohexanol	102370-18-3	455.15	39.592	1,2	18095	C9H18O3	trimethylolpropane allyl ether	682-11-1	442.99	38.434	2
18012	C9H18O	1-ethyl-3-methylcyclohexanol	62067-44-1	456.62	39.732	2	18096	C9H18O3	acetic acid 3-heptanol ester	39920-56-4	442.99	38.434	2
18013	C9H18O	1-isopropylcyclohexanol	3552-01-0	449.15	39.021	1,2	18097	C9H18O3	3-(2-ethylbutoxy)propionic acid	10213-74-8	397.50	34.130	1,2
18014	C9H18O	cis-2-isopropylcyclohexanol	10488-25-2	456.62	39.732	2	18098	C9H18O3	2-hydroxy-3-ethylheptanoic acid	63834-30-0	442.99	38.434	2
18015	C9H18O	cis-4-isopropylcyclohexanol	22900-08-9	456.62	39.732	2	18099	C9H18O3	1,3,3-triethoxy-1-propene	5444-80-4	442.99	38.434	2
18016	C9H18O	trans-4-isopropylcyclohexanol	15890-36-5	456.62	39.732	2	18099.1	C9H18O3	triacetone alcohol	3682-91-5	486.00	62.714	1,2
18017	C9H18O	1-propylcyclohexanol	5445-24-9	456.62	39.732	2	18101	C9H18O4	di(propylene glycol) methyl ether acetate, i*	88917-22-0	473.15	41.310	1,2
18018	C9H18O	cis-2-propylcyclohexanol	5857-86-3	474.15	41.406	1,2	18102	C9H18O4	ethyl 3,3-diethoxypropionate	10601-80-6	494.15	43.322	2
18019	C9H18O	trans-2-propylcyclohexanol	5846-43-5	456.62	39.732	2	18103	C9H18O4	tri(ethylene glycol) methyl vinyl ether	26256-87-1	515.15	45.342	1,2
18020	C9H18O	cis-4-propylcyclohexanol	98790-22-8	456.62	39.732	2	18104	C9H18O5	bis(2-ethoxyethyl) carbonate	2049-74-3	518.65	45.679	1,2
18021	C9H18O	trans-4-propylcyclohexanol	77866-58-1	481.15	42.076	1,2	18105	C9H18O5	2-hydroxymethyl-12-crown-4	75507-26-5	460.90	40.140	2
18022	C9H18O	1,2,2-trimethylcyclohexanol	31720-69-1	456.62	39.732	2	18106	C9H18O5	acetic acid, 2-(2-(2-methoxyethoxy)ethoxy)et*	3610-27-3	403.15	34.662	1,2
18023	C9H18O	1,2,6-trimethylcyclohexanol	96244-13-2	456.62	39.732	2	18107	C9H18O5	di-tert-butyl diperoxycarbonate	3236-56-4	460.90	40.140	2
18024	C9H18O	1,3,5-trimethylcyclohexanol	90760-75-1	454.15	39.497	1,2	18111	C9H18S	thiacyclodecane	6048-83-5	512.15	44.179	1,2
18025	C9H18O	2,2,5-trimethylcyclohexanol	73210-25-0	461.15	40.164	1,2	18112	C9H18S3	2,2,4,4,6,6-hexamethyltrithiane	828-26-2	325.15	27.375	1,2
18026	C9H18O	2,2,6-trimethylcyclohexanol	10130-91-3	460.15	40.069	1,2	18115	C9H19Br	1-bromononane	693-58-3	494.55	45.653	1,2
18027	C9H18O	2,3,3-trimethylcyclohexanol	116724-17-5	470.15	41.024	1,2	18117	C9H19Cl	1-chlorononane	2473-01-0	478.37	42.826	1,2
18028	C9H18O	2,3,6-trimethylcyclohexanol	58210-03-0	468.15	40.833	1,2	18118	C9H19Cl	3-chloro-3-ethyl-2,2-dimethylpentane	86661-53-2	470.76	41.082	2
18029	C9H18O	cis-3,3,5-trimethylcyclohexanol	933-48-2	475.15	41.502	1,2	18119	C9H19Cl	3-chloro-3-ethylheptane	28320-89-0	470.76	41.082	2
18030	C9H18O	trans-3,3,5-trimethylcyclohexanol	767-54-4	462.35	40.279	1,2	18120	C9H19Cl	3-chloro-3-methyloctane	28320-88-9	470.76	41.082	2
18031	C9H18O	3-methyl-4-octen-3-ol	90676-55-4	444.15	38.545	1,2	18121	C9H19Cl	4-chloro-4-methyloctane	36903-89-6	470.76	41.082	2
18032	C9H18O	4-methyl-1-octen-4-ol	62108-06-9	451.15	39.211	1,2	18122	C9H19Cl	2-chlorononane	2216-36-6	463.15	38.208	1,2
18033	C9H18O	5-methyl-5-octen-4-ol	36903-92-1	456.62	39.732	2	18123	C9H19Cl	5-chlorononane	28123-70-8	470.76	41.082	2
18034	C9H18O	7-methyl-2-octen-4-ol	4798-64-5	456.62	39.732	2	18124	C9H19Cl	3-chloro-2,2,3-trimethylhexane	102449-95-6	470.76	41.082	2
18035	C9H18O	cis-2-methyl-3-octen-2-ol	18521-07-8	450.15	39.116	1,2	18126	C9H19Cl3Si	nonyltrichlorosilane	5283-67-0	348.85	29.574	1,2
18036	C9H18O	1-nonen-3-ol	21964-44-3	466.65	40.689	1,2	18127	C9H19F	1-fluorononane	463-18-3	438.15	39.115	1,2
18037	C9H18O	8-nonen-1-ol	13038-21-6	456.62	39.732	2	18129	C9H19I	1-iodononane	4282-42-2	518.15	53.537	1,2
18038	C9H18O	3-cyclohexyl-1-propanol	1124-63-6	493.65	43.274	1,2	18130	C9H19N	1-tert-butylpiperidine	14446-69-6	439.15	38.070	1,2
18039	C9H18O	2-cyclohexyl-1-propanol	5442-00-2	456.62	39.732	2	18131	C9H19N	3-butylpiperidine	13603-21-9	469.65	40.976	1,2
18040	C9H18O	cyclooctanemethanol	3637-63-6	456.62	39.732	2	18132	C9H19N	4-butylpiperidine	24152-39-4	467.15	40.737	1,2
18041	C9H18O	(R)-(+)-1,2-epoxynonane	130466-96-5	456.62	39.732	2	18133	C9H19N	N-butylpiperidine	4945-48-6	449.15	39.021	1,2
18042	C9H18O	cis-3-nonen-1-ol	10340-23-5	456.62	39.732	2	18134	C9H19N	2,5-diethylpiperidine	116836-21-6	463.15	40.355	1,2
18043	C9H18O	3,5,5-trimethylcyclohexanol	116-02-9	468.65	40.880	1,2	18135	C9H19N	1-isobutylpiperidine	10315-89-6	433.65	37.547	1,2
18044	C9H18O	3,5,5-trimethylhexanal	5435-64-3	456.62	39.732	2	18136	C9H19N	1-methyl-2-propylpiperidine, (S)	35305-13-6	447.15	38.830	1,2
18045	C9H18O	2,6-dimethyl-3-heptanone	19549-83-8	445.00	38.626	1,2	18137	C9H19N	2,2,4,6-tetramethylpiperidine	6292-82-6	429.15	37.121	1,2
18046	C9H18O	4-(1-methylethyl)cyclohexanol	4621-04-9	396.15	34.003	1,2	18138	C9H19N	2,2,6,6-tetramethylpiperidine	768-66-1	429.15	37.121	1,2
18047	C9H18O	2-methyl-3-octanone	923-28-4	456.00	39.673	1,2	18139	C9H19N	cyclohexylisopropylamine	1195-42-2	440.94	38.239	2
18048	C9H18O	2-methyloctanal	7786-29-0	456.62	39.732	2	18140	C9H19N	N,alpha-dimethylcyclopentaneethanamine	102-45-4	444.15	38.545	1,2
18049	C9H18O	3-methyl-1-octen-ol	24089-00-7	456.62	39.732	2	18141	C9H19N	N,6-dimethyl-5-hepten-2-amine	503-01-5	450.15	39.116	1,2
18052	C9H18O2	nonanoic acid	112-05-0	528.75	57.713	1,2	18142	C9H19N	N-tert-butyl-1,1-dimethylallylamine	40137-02-8	414.15	35.701	1,2
18053	C9H18O2	2-ethylheptanoic acid	3274-29-1	456.91	32.404	2	18143	C9H19N	3,3,5-trimethylcyclohexylamine	15901-42-5	453.15	39.402	1,2
18054	C9H18O2	3-ethyl-3-methylhexanoic acid	50902-82-4	456.91	32.404	2	18144	C9H19N	N,N-dimethyl-N-cyclohexylmethylamine	16607-80-0	446.15	38.735	1,2
18055	C9H18O2	2-ethyl-3-methylhexanoic acid	74581-94-5	504.15	44.283	1,2	18145	C9H19NO	N,N-dibutylformamide	761-65-9	481.53	42.112	2
18056	C9H18O2	3-methyloctanoic acid	6061-10-5	456.91	32.404	2	18146	C9H19NO	5-(diethylamino)-2-pentanone	105-14-6	476.15	41.597	1,2
18057	C9H18O2	2-methyloctanoic acid	3004-93-1	456.91	32.404	2	18147	C9H19NO	N,N-diethyl-2,2-dimethylpropanamide	24331-72-4	479.15	41.884	1,2
18058	C9H18O2	octyl formate	112-32-3	471.95	44.214	1,2	18148	C9H19NO	N,N-diethyl-3-methylbutanamide	533-32-4	484.15	42.363	1,2
18059	C9H18O2	heptyl acetate	112-06-1	465.55	41.482	1,2	18149	C9H19NO	N-methylconhydrine	94826-08-1	481.53	42.112	2
18060	C9H18O2	4-heptyl acetate	5921-84-6	444.15	34.838	1,2	18150	C9H19NO	nonanamide	1120-07-6	481.53	42.112	2
18061	C9H18O2	hexyl propanoate	2445-76-3	463.15	40.994	1,2	18151	C9H19NO	2,2,6,6-tetramethyl-4-piperidinol	2403-88-5	486.65	42.603	1,2
18062	C9H18O2	pentyl butanoate	540-18-1	458.15	39.941	1,2	18152	C9H19NO	1-cyclohexylamino-2-propanol	103-00-4	481.53	42.112	2
18063	C9H18O2	1-methylbutyl butanoate	60415-61-4	455.15	43.816	1,2	18155	C9H19NO2	1-nitrononane	2216-21-9	522.15	49.977	1,2
18064	C9H18O2	2-methylbutyl butanoate	51115-64-1	452.15	41.509	2	18156	C9H19NO2	butyl butylcarbamate	13105-52-7	462.65	40.307	2
18065	C9H18O2	3-methylbutyl butanoate	106-27-4	452.15	41.638	1,2	18157	C9H19NO2	ethyl 3-(diethylamino)propanoate	5515-83-3	462.65	40.307	2
18066	C9H18O2	1-ethylpropyl butanoate	---	463.10	46.793	2	18158	C9H19NO2	N,N-diisopropyl ethyl carbamate	20652-39-5	462.65	40.307	2
18067	C9H18O2	1,1-dimethylpropyl butanoate	2050-00-2	460.31	47.111	2	18159	C9H19NO2	N,N-di-n-propyl ethyl carbamate	6976-50-7	403.15	34.662	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
18160	C9H19NO2	2-ethylhexyl carbamate	4248-21-9	462.65	40.307	2	18265	C9H20O	2-ethyl-1-heptanol	817-60-7	472.00	47.716	2
18161	C9H19NO2	nonanohydroxamic acid	20190-95-8	462.65	40.307	2	18266	C9H20O	3-ethyl-1-heptanol	3525-25-5	480.15	48.574	1,2
18165	C9H19NO3Si	(2-cyanoethyl)triethoxysilane	919-31-3	497.05	43.601	1,2	18267	C9H20O	5-ethyl-1-heptanol	998-65-2	472.00	47.716	2
18170	C9H19N3O2	N,N'-dibutyl-N-nitrosourea	56654-52-5	358.15	30.441	2	18268	C9H20O	2,2-dimethyl-1-heptanol	14250-79-4	465.15	46.034	1,2
18171	C9H19N3O2	1-nitroso-1-octylurea	18207-29-9	358.15	30.441	1,2	18269	C9H20O	4,6-dimethyl-1-heptanol	820-05-3	455.00	45.481	2
18176	C9H20	nonane	111-84-2	423.97	37.149	1,2	18270	C9H20O	6,6-dimethyl-1-heptanol	65769-10-0	455.00	44.988	2
18177	C9H20	2-methyloctane	3221-61-2	416.43	36.426	1,2	18271	C9H20O	2-ethyl-2-heptanol	5340-36-3	455.00	44.988	2
18178	C9H20	3-methyloctane	2216-33-3	417.38	36.401	1,2	18272	C9H20O	3-ethyl-2-heptanol	19780-39-3	455.00	45.481	2
18179	C9H20	4-methyloctane	2216-34-4	415.59	36.186	1,2	18273	C9H20O	2,3-dimethyl-2-heptanol	66794-00-1	455.00	44.550	2
18180	C9H20	3-ethylheptane	15869-80-4	416.35	36.106	1,2	18274	C9H20O	2,4-dimethyl-2-heptanol	65822-93-7	455.00	44.550	2
18181	C9H20	4-ethylheptane	2216-32-2	414.36	36.652	1,2	18275	C9H20O	2,5-dimethyl-2-heptanol	---	455.00	44.550	2
18182	C9H20	2,2-dimethylheptane	1071-26-7	405.84	35.043	1,2	18276	C9H20O	2,6-dimethyl-2-heptanol	13254-34-7	444.15	43.443	1,2
18183	C9H20	2,3-dimethylheptane	3074-71-3	413.66	36.108	1,2	18277	C9H20O	4,6-dimethyl-2-heptanol	51079-52-8	467.15	46.292	1,2
18184	C9H20	2,4-dimethylheptane	2213-23-2	406.05	35.355	1,2	18278	C9H20O	5,6-dimethyl-2-heptanol	58795-24-7	465.15	46.086	1,2
18185	C9H20	2,5-dimethylheptane	2216-30-0	409.16	35.606	1,2	18279	C9H20O	3-ethyl-3-heptanol	19780-41-7	455.35	45.024	1,2
18186	C9H20	2,6-dimethylheptane	1072-05-5	408.36	35.384	1,2	18280	C9H20O	2,2-dimethyl-3-heptanol	19549-70-3	451.00	44.142	2
18187	C9H20	3,4-dimethylheptane	922-28-1	413.76	36.359	1,2	18281	C9H20O	2,3-dimethyl-3-heptanol	19549-71-4	447.15	43.749	1,2
18188	C9H20	3,5-dimethylheptane	926-82-9	409.16	35.648	1,2	18282	C9H20O	2,6-dimethyl-3-heptanol	19549-73-6	448.15	44.332	1,2
18189	C9H20	4,4-dimethylheptane	1068-19-5	408.36	35.355	1,2	18283	C9H20O	3,5-dimethyl-3-heptanol	19549-74-7	450.00	44.040	2
18190	C9H20	3-ethyl-2-methylhexane	16789-46-1	411.16	35.982	1,2	18284	C9H20O	3,6-dimethyl-3-heptanol	1573-28-0	446.15	44.450	1,2
18191	C9H20	4-ethyl-2-methylhexane	3074-75-7	406.96	35.648	1,2	18285	C9H20O	4-ethyl-4-heptanol	597-90-0	452.15	44.695	1,2
18192	C9H20	3-ethyl-3-methylhexane	3074-76-8	413.76	35.731	1,2	18286	C9H20O	2,2-dimethyl-4-heptanol	66793-99-5	447.15	43.749	1,2
18193	C9H20	3-ethyl-4-methylhexane	3074-77-9	413.56	36.401	1,2	18287	C9H20O	2,4-dimethyl-4-heptanol	19549-77-0	444.55	43.484	1,2
18194	C9H20	2,2,3-trimethylhexane	16747-25-4	406.75	34.769	1,2	18288	C9H20O	2,6-dimethyl-4-heptanol	108-82-7	451.00	45.659	1,2
18195	C9H20	2,2,4-trimethylhexane	16747-26-5	399.69	34.016	1,2	18289	C9H20O	3,3-dimethyl-4-heptanol	19549-78-1	449.15	43.953	1,2
18196	C9H20	2,2,5-trimethylhexane	3522-94-9	397.24	33.581	1,2	18290	C9H20O	3,5-dimethyl-4-heptanol	19549-79-2	460.15	45.569	1,2
18197	C9H20	2,3,3-trimethylhexane	16747-28-7	410.84	34.978	1,2	18291	C9H20O	2-propyl-1-hexanol	817-46-9	462.00	46.664	2
18198	C9H20	2,3,4-trimethylhexane	921-47-1	412.20	35.690	1,2	18292	C9H20O	3-propyl-1-hexanol	66793-85-9	462.00	46.664	2
18199	C9H20	2,3,5-trimethylhexane	1069-53-0	404.50	34.811	1,2	18293	C9H20O	1-methyl-2-ethyl-1-hexanol	---	462.00	46.210	2
18200	C9H20	2,4,4-trimethylhexane	16747-30-1	403.81	34.309	1,2	18294	C9H20O	1-methyl-3-ethyl-1-hexanol	---	465.15	46.538	1,2
18201	C9H20	3,3,4-trimethylhexane	16747-31-2	413.62	35.146	1,2	18295	C9H20O	3-methyl-2-ethyl-1-hexanol	66794-04-5	466.15	46.610	1,2
18202	C9H20	3,3-diethylpentane	1067-20-5	419.34	35.282	1,2	18296	C9H20O	4-methyl-2-ethyl-1-hexanol	66794-06-7	468.15	46.851	1,2
18203	C9H20	2,2-dimethyl-3-ethylpentane	16747-32-3	406.99	34.369	1,2	18297	C9H20O	5-methyl-2-ethyl-1-hexanol	66794-07-8	466.00	46.627	2
18204	C9H20	2,3-dimethyl-3-ethylpentane	16747-33-4	417.86	35.313	1,2	18298	C9H20O	3,3,5-trimethyl-1-hexanol	1484-87-3	466.00	45.674	2
18205	C9H20	2,4-dimethyl-3-ethylpentane	1068-87-7	409.87	34.733	1,2	18299	C9H20O	3,4,4-trimethyl-1-hexanol	66793-73-5	464.15	45.485	1,2
18206	C9H20	2,2,3,3-tetramethylpentane	7154-79-2	413.44	34.476	1,2	18300	C9H20O	3,5,5-trimethyl-1-hexanol	3452-97-9	466.15	45.689	1,2
18207	C9H20	2,2,3,4-tetramethylpentane	1186-53-4	406.18	34.210	1,2	18301	C9H20O	4,5,5-trimethyl-1-hexanol	66793-75-7	475.15	46.609	1,2
18208	C9H20	2,2,4,4-tetramethylpentane	1070-87-7	395.44	32.536	1,2	18302	C9H20O	2-methyl-3-ethyl-2-hexanol	66794-02-3	451.15	44.158	1,2
18209	C9H20	2,3,3,4-tetramethylpentane	16747-38-9	414.72	34.936	1,2	18303	C9H20O	2,3,4-trimethyl-2-hexanol	21102-13-6	466.00	45.230	2
18210	C9H20	3,3-dimethylheptane	4032-86-4	410.45	35.036	1,2	18304	C9H20O	2,4,4-trimethyl-2-hexanol	66793-91-7	466.00	44.744	2
18219	C9H20N2	2,2,6,6-tetramethyl-4-piperidinamine	36768-62-4	461.65	40.212	1,2	18305	C9H20O	2,4,5-trimethyl-2-hexanol	66793-93-9	466.00	45.230	2
18220	C9H20N2	5-aminomethyl-2,4,4-trimethyl-1-cyclopentyla*	67907-32-8	494.15	43.322	1,2	18306	C9H20O	2,5,5-trimethyl-2-hexanol	66793-71-3	466.00	44.744	2
18221	C9H20N2	1-(3-aminopropyl)-2-pipecoline	25560-00-3	501.15	43.995	2	18307	C9H20O	2-methyl-3-ethyl-3-hexanol	66794-03-4	457.25	44.780	1,2
18222	C9H20N2	N-cyclohexyl-1,3-propanediamine	3312-60-5	501.15	43.995	2	18308	C9H20O	2-methyl-4-ethyl-3-hexanol	33943-21-4	452.00	44.729	2
18223	C9H20N2	1-amino-2,2,6,6-tetramethylpiperidine	6130-92-3	547.65	48.481	1,2	18309	C9H20O	3-methyl-4-ethyl-3-hexanol	66794-05-6	452.00	44.244	2
18224	C9H20N2O	1,1-diisobutylurea	77464-06-3	482.15	42.172	2	18310	C9H20O	4-methyl-3-ethyl-3-hexanol	51200-80-7	452.00	44.244	2
18225	C9H20N2O	tetraethylurea	1187-03-7	482.15	42.172	1,2	18311	C9H20O	5-methyl-3-ethyl-3-hexanol	597-77-3	445.15	43.545	1,2
18226	C9H20N2O	dibutylurea	1792-17-2	482.15	42.172	2	18312	C9H20O	2,2,3-trimethyl-3-hexanol	5340-41-0	446.25	42.767	1,2
18227	C9H20N2O	N-butyl-N-nitroso amyl amine	16339-05-2	482.15	42.172	2	18313	C9H20O	2,2,4-trimethyl-3-hexanol	66793-89-3	442.15	42.819	1,2
18228	C9H20N2O	methylazoxyoctane	54405-61-7	482.15	42.172	2	18314	C9H20O	2,2,5-trimethyl-3-hexanol	3970-60-3	433.15	41.910	1,2
18229	C9H20N2O	nitroso-N-methyl-n-octylamine	34423-54-6	482.15	42.172	2	18315	C9H20O	2,3,4-trimethyl-3-hexanol	66793-90-6	439.00	42.501	2
18236	C9H20O	1-nonanol	143-08-8	486.25	45.395	1,2	18316	C9H20O	2,3,5-trimethyl-3-hexanol	65927-60-8	439.00	42.501	2
18237	C9H20O	2-nonanol	628-99-9	471.65	51.577	1,2	18317	C9H20O	2,4,4-trimethyl-3-hexanol	66793-92-8	444.15	43.021	1,2
18238	C9H20O	2-nonanol, (±)	74683-66-2	466.65	40.689	1,2	18318	C9H20O	2,5,5-trimethyl-3-hexanol	66793-72-4	442.00	42.804	2
18239	C9H20O	3-nonanol	624-51-1	467.85	47.279	1,2	18319	C9H20O	3,4,4-trimethyl-3-hexanol	66793-74-6	439.15	42.057	1,2
18240	C9H20O	3-nonanol, (±)	74742-08-8	468.15	40.833	1,2	18320	C9H20O	3,5,5-trimethyl-3-hexanol	66810-87-5	439.00	42.042	2
18241	C9H20O	4-nonanol	5932-79-6	466.15	47.100	1,2	18321	C9H20O	4-methyl-2-propyl-1-pentanol	54004-41-0	465.15	46.588	1,2
18242	C9H20O	4-nonanol, (S)	52708-03-9	465.65	40.594	1,2	18322	C9H20O	4-methyl-2-isopropyl-1-pentanol	55505-24-3	460.15	45.522	1,2
18243	C9H20O	5-nonanol	623-93-8	468.25	47.321	1,2	18323	C9H20O	2,2-dimethyl-3-ethyl-1-pentanol	66793-95-1	461.00	45.163	2
18244	C9H20O	2-methyl-1-octanol	818-81-5	473.00	47.821	2	18324	C9H20O	2,4-dimethyl-2-ethyl-1-pentanol	66793-98-4	461.15	45.178	1,2
18245	C9H20O	3-methyl-1-octanol	38514-02-2	473.00	47.821	2	18325	C9H20O	3,3-diethyl-2-pentanol	66793-94-0	461.00	45.163	2
18246	C9H20O	4-methyl-1-octanol	38514-03-3	473.00	47.821	2	18326	C9H20O	2,3-dimethyl-3-ethyl-2-pentanol	66793-97-3	461.00	44.243	2
18247	C9H20O	5-methyl-1-octanol	38514-04-4	473.00	47.821	2	18327	C9H20O	4,4-dimethyl-3-ethyl-2-pentanol	21102-09-0	461.00	44.724	2
18248	C9H20O	6-methyl-1-octanol	38514-05-5	479.15	48.469	1,2	18328	C9H20O	2,3,3,4-tetramethyl-2-pentanol	66793-86-0	453.00	43.023	2
18249	C9H20O	7-methyl-1-octanol	2430-22-0	479.15	48.469	1,2	18329	C9H20O	2,3,4,4-tetramethyl-2-pentanol	66793-87-1	453.00	43.023	2
18250	C9H20O	2-methyl-2-octanol	628-44-4	451.15	44.592	1,2	18330	C9H20O	3,3,4,4-tetramethyl-2-pentanol	66793-88-2	453.15	43.037	1,2
18251	C9H20O	3-methyl-2-octanol	27644-49-1	454.00	45.377	2	18331	C9H20O	2-methyl-3-isopropyl-3-pentanol	---	451.15	43.685	1,2
18252	C9H20O	5-methyl-2-octanol	66793-81-5	454.00	45.377	2	18332	C9H20O	2,2-dimethyl-3-ethyl-3-pentanol	66793-96-2	447.15	42.857	1,2
18253	C9H20O	7-methyl-2-octanol	66793-83-7	454.00	45.377	2	18333	C9H20O	2,4-dimethyl-3-ethyl-3-pentanol	3970-59-0	451.05	43.718	1,2
18254	C9H20O	2-methyl-3-octanol	26533-34-6	457.15	45.705	1,2	18334	C9H20O	2,2,3,4-tetramethyl-3-pentanol	62185-29-9	447.35	42.463	1,2
18255	C9H20O	3-methyl-3-octanol	5340-36-3	462.15	45.725	1,2	18335	C9H20O	2,2,4,4-tetramethyl-3-pentanol	14609-79-1	440.15	41.750	1,2
18256	C9H20O	4-methyl-3-octanol	66793-80-4	459.00	45.898	2	18336	C9H20O	ethyl heptyl ether	1969-43-3	439.15	38.070	1,2
18257	C9H20O	6-methyl-3-octanol	40225-75-0	459.00	45.898	2	18337	C9H20OSi	allyloxy-tert-butyldimethylsilane	105875-75-0	414.15	35.701	2
18258	C9H20O	7-methyl-3-octanol	66793-84-8	459.00	45.898	2	18338	C9H20OSi	(1-tert-butylvinyloxy)trimethylsilane	17510-46-2	414.15	35.701	1,2
18259	C9H20O	2-methyl-4-octanol	40575-41-5	457.15	45.705	1,2	18339	C9H20O2	1,2-nonanediol	42789-13-9	539.15	63.665	2
18260	C9H20O	3-methyl-4-octanol	26533-35-7	453.15	45.288	1,2	18340	C9H20O2	1,3-nonanediol	23433-07-0	550.15	65.010	2
18261	C9H20O	4-methyl-4-octanol	23418-37-3	454.15	44.901	1,2	18341	C9H20O2	1,4-nonanediol	2430-73-1	571.15	67.581	2
18262	C9H20O	5-methyl-4-octanol	59734-23-5	455.00	45.481	2	18342	C9H20O2	1,9-nonanediol	3937-56-2	558.15	66.557	2
18263	C9H20O	6-methyl-4-octanol	66793-82-6	455.00	45.481	2	18343	C9H20O2	2-butyl-2-ethyl-1,3-propanediol	115-84-4	535.15	47.271	1,2
18264	C9H20O	7-methyl-4-octanol	33933-77-6	455.00	45.481	2	18344	C9H20O2	dibutoxymethane	2568-90-3	452.35	39.325	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
18345	C9H20O2	1,1-diethoxypentane	3658-79-5	520.68	45.874	2	18481	C10H2O6	pyrromelitic acid dianhydride	4435-60-3	671.65	60.598	2
18346	C9H20O2	diisobutoxymethane	2568-91-4	438.65	38.022	1,2	18482	C10H3Cl5	pentachloronaphthalene	1321-64-8	621.65	55.687	1,2
18347	C9H20O2	heptyloxyethanol	7409-44-1	520.68	45.874	2	18483	C10H3F17	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptade*	21652-58-4	419.60	36.216	1,2
18348	C9H20O2	2-(1-ethylamyloxy)ethanol	10138-47-3	520.68	45.874	2	18484	C10H3F19O	2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-non*	307-37-9	465.15	40.546	1,2
18349	C9H20O2	2-ethylbutoxypropanol, mixed isomers	63716-41-6	520.68	45.874	2	18489	C10H4Cl4	tetrachloronaphthalene	1335-88-2	584.65	52.074	1,2
18350	C9H20O2Si	1-(tert-butyldimethylsilyloxy)-2-propanone	74685-00-0	474.75	41.463	2	18490	C10H4Cl8O	oxychlordane	27304-13-8	626.15	56.127	1,2
18351	C9H20O2Si	cyclohexyl(dimethoxy)methylsilane	17865-32-6	474.75	41.463	1,2	18491	C10H4F17I	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecaf*	2043-53-0	451.15	39.211	1,2
18352	C9H20O3	1,1,1-triethoxypropane	115-80-0	444.15	38.545	1,2	18498	C10H5ClN2	o-chlorobenzylidene malononitrile	2698-41-1	585.15	52.123	1,2
18353	C9H20O3	1,1,3-triethoxypropane	7789-92-6	458.15	39.878	2	18499	C10H5ClN2	a-chlorobenzylidenemalononitrile	18270-61-6	585.15	52.123	2
18354	C9H20O3	1-(2-butoxyethoxy)-2-propanol	124-16-3	502.30	44.105	1,2	18514	C10H5F15O	[2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(tri*	24564-77-0	456.15	39.687	1,2
18355	C9H20O3	di(propylene glycol) propyl ether, isomers	29911-27-1	485.15	42.459	1,2	18519	C10H6BrCl	1-bromo-4-chloronaphthalene	53220-82-9	576.15	51.247	1,2
18356	C9H20O3	3-(2-butoxyethoxy)propanol	10043-18-2	472.44	41.242	2	18522	C10H6Br2	1,3-dibromonaphthalene	52358-73-3	563.15	49.984	1,2
18357	C9H20O3Si	allyltriethoxysilane	2550-04-1	372.95	31.824	1,2	18523	C10H6Br2	1,4-dibromonaphthalene	83-53-4	583.15	51.928	1,2
18358	C9H20O3Si	1-(3-aminopropyl)-2,8,9-trioxa-5-aza-1-silab*	17869-27-1	372.95	31.824	2	18524	C10H6Br2	1,5-dibromonaphthalene	7351-74-8	599.15	53.487	1,2
18359	C9H20O4	tetraethoxymethane	78-09-1	432.65	37.453	1,2	18533	C10H6Cl2	1,2-dichloronaphthalene	2050-69-3	569.65	50.615	1,2
18360	C9H20O4	tripropylene glycol	24800-44-0	543.15	48.045	1,2	18534	C10H6Cl2	1,3-dichloronaphthalene	2198-75-6	564.15	50.081	1,2
18361	C9H20O4S	methyl octyl sulfate	3539-29-5	540.04	47.744	2	18535	C10H6Cl2	1,4-dichloronaphthalene	1825-31-6	561.15	49.789	1,2
18364	C9H20O5Si	(3-glycidyloxypropyl)trimethoxysilane	2530-83-8	393.15	33.720	1,2	18536	C10H6Cl2	1,5-dichloronaphthalene	1825-30-5	562.35	49.906	2
18365	C9H20S	nonyl mercaptan	1455-21-6	492.95	44.854	1,2	18537	C10H6Cl2	1,7-dichloronaphthalene	2050-73-9	558.65	49.547	1,2
18366	C9H20S	2-nonanethiol	13281-11-3	481.35	42.769	1,2	18538	C10H6Cl2	1,8-dichloronaphthalene	2050-74-0	562.35	49.906	2
18367	C9H20S	methyl octyl sulfide	3698-95-1	480.00	46.659	2	18539	C10H6Cl2	2,6-dichloronaphthalene	2065-70-5	558.15	49.498	1,2
18368	C9H20S	ethyl heptyl sulfide	24768-44-3	480.00	46.659	2	18542	C10H6Cl2O	2,3-dichloro-1-naphthalenol	71284-96-3	453.15	39.402	2
18369	C9H20S	propyl hexyl sulfide	24768-43-2	480.00	46.659	2	18543	C10H6Cl2O	2,4-dichloro-1-naphthalenol	2050-76-2	453.15	39.402	1,2
18370	C9H20S	butyl pentyl sulfide	24768-42-1	480.00	46.659	2	18544	C10H6Cl4O4	dimethyl tetrachloroterephthalate	1861-32-1	523.15	46.113	2
18371	C9H20S	tert-nonyl mercaptan, isomers	25360-10-5	461.15	35.854	1,2	18545	C10H6Cl4O4	ethyl 3,4,5,6-tetrachlorophthalate	602-21-1	523.15	46.113	2
18372	C9H20S2	1,9-nonanedithiol	3489-28-9	557.15	49.401	1,2	18560	C10H6F12O2	2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptyl a*	2993-85-3	470.15	41.024	1,2
18373	C9H21Al	tripropyl aluminum	102-67-0	356.15	30.254	1,2	18562	C10H6F17NO2S	sulfluramid	4151-50-2	469.15	40.928	1,2
18374	C9H21AlO3	aluminum isopropoxide	555-31-7	408.15	35.134	1,2	18564	C10H6N2	5-isoquinolinecarbonitrile	27655-41-0	515.65	45.390	2
18375	C9H21B	tripropylborane	1116-61-6	432.15	37.405	1,2	18565	C10H6N2	2-quinolinecarbonitrile	1436-43-7	515.65	45.390	2
18376	C9H21BO3	tripropyl borate	688-71-1	452.65	39.354	1,2	18566	C10H6N2	4-quinolinecarbonitrile	2973-27-5	515.65	45.390	1,2
18377	C9H21BO3	triisopropyl borate	5419-55-6	413.15	35.606	1,2	18567	C10H6N2	benzylidenemalononitrile	2700-22-3	515.65	45.390	2
18378	C9H21BrOSi	(3-bromopropoxy)-tert-butyldimethylsilane	89031-84-5	455.15	39.592	1,2	18571	C10H6N2O4	1,3-dinitronaphthalene	606-37-1	718.15	65.193	2
18383	C9H21ClSi	chlorotriisopropylsilane	13154-24-0	471.15	41.119	1,2	18572	C10H6N2O4	1,5-dinitronaphthalene	605-71-0	718.15	65.193	2
18384	C9H21ClSi	chlorotripropylsilane	995-25-5	473.60	41.353	1,2	18573	C10H6N2O4	1,8-dinitronaphthalene	602-38-0	718.15	65.193	2
18388	C9H21N	nonylamine	112-20-9	475.35	44.916	1,2	18581	C10H6N4O4S2	2,2'-dithiobis(5-nitropyridine)	2127-10-8	412.15	35.512	1,2
18389	C9H21N	methyloctylamine	2439-54-5	459.85	42.420	1,2	18598	C10H6O8	pyromellitic acid	89-05-4	722.00	108.354	1,2
18390	C9H21N	ethylheptylamine	66793-76-8	453.85	41.600	1,2	18599	C10H6O8	1,2,3,4-benzene-tetracarboxylic acid	476-73-3	722.00	65.574	2
18391	C9H21N	dimethylheptylamine	5277-11-2	445.15	38.546	1,2	18600	C10H6O8	1,2,3,5-benzene-tetracarboxylic acid	479-47-0	722.00	65.574	2
18392	C9H21N	diethylpentylamine	2162-91-6	429.15	38.712	1,2	18601	C10H7Br	1-bromonaphthalene	90-11-9	554.25	50.803	1,2
18393	C9H21N	tripropylamine	102-69-2	429.65	36.199	1,2	18602	C10H7Br	2-bromonaphthalene	580-13-2	554.65	49.159	1,2
18394	C9H21N	tert-amyl-tert-butylamine	2085-66-7	417.15	31.830	1,2	18604	C10H7BrO	1-bromo-2-naphthalenol	573-97-7	403.15	34.662	1,2
18395	C9H21N	N-methyldibutylamine	3405-45-6	432.75	37.462	1,2	18605	C10H7BrO	6-bromo-2-naphthol	15231-91-1	403.15	34.662	2
18396	C9H21NO	5-diethylamino-2-pentanol	5412-69-1	476.65	41.645	2	18606	C10H7Cl	1-chloronaphthalene	90-13-1	532.45	49.357	1,2
18397	C9H21NO2	3-diisopropylamino-1,2-propanediol	85721-30-8	519.32	45.743	2	18607	C10H7Cl	2-chloronaphthalene	91-58-7	529.15	47.223	1,2
18402	C9H21N3	1,5,9-triazacyclododecane	294-80-4	472.65	41.263	2	18608	C10H7Cl	monochloronaphthalene	25586-43-0	532.15	48.211	1,2
18403	C9H21N3	1,3,5-triethylhexahydro-1,3,5-triazine	7779-27-3	472.65	41.263	1,2	18609	C10H7ClO	6-chloro-2-naphthalenol	40604-49-7	580.65	51.685	2
18404	C9H21N3	1-(2-(dimethylamino)ethyl)-4-methylpiperazine	104-19-8	472.65	41.263	2	18610	C10H7ClO	8-chloro-2-naphthol	29921-50-4	580.65	51.685	1,2
18407	C9H21OP	tripropylphosphine oxide	1496-94-2	553.15	49.014	1,2	18611	C10H7ClO	4-chloro-1-naphthol	604-44-4	580.65	51.685	2
18409	C9H21O3P	triisopropyl phosphite	116-17-6	479.65	41.932	2	18622	C10H7F	1-fluoronaphthalene	321-38-0	488.15	42.747	1,2
18410	C9H21O3P	tripropyl phosphite	923-99-9	479.65	41.932	1,2	18623	C10H7F	2-fluoronaphthalene	323-09-1	485.15	42.459	1,2
18413	C9H21O4P	triisopropyl phosphate	513-02-0	492.15	43.130	1,2	18627	C10H7F3O2	3-(trifluoromethyl)cinnamic acid	779-89-5	497.15	43.610	2
18414	C9H21O4P	tripropyl phosphate	513-08-6	525.15	46.306	1,2	18628	C10H7F3O2	4,4,4-trifluoro-1-phenyl-1,3-butanedione	326-06-7	497.15	43.610	1,2
18418	C9H21P	triisopropylphosphine	6476-36-4	458.15	39.878	2	18630	C10H7F11O2	3,3,4,4,5,6,6,6-octafluoro-5-(trifluoromethy*	86217-01-8	460.15	40.069	1,2
18419	C9H21P	tripropylphosphine	2234-97-1	458.15	39.878	1,2	18631	C10H7I	1-iodonaphthalene	90-14-2	575.15	51.149	1,2
18423	C9H22N2	N1,N1-diethyl-1,4-pentanediamine	140-80-7	474.15	41.406	1,2	18632	C10H7I	2-iodonaphthalene	612-55-5	581.15	51.733	1,2
18424	C9H22N2	N,N,N',N'-tetraethylmethanediamine	102-53-4	438.95	38.051	1,2	18637	C10H7NO2	2-nitronaphthalene	581-89-5	587.15	52.317	1,2
18425	C9H22N2	1,9-diaminononane	646-24-2	531.65	46.933	1,2	18638	C10H7NO2	1-nitroso-2-naphthalenol	131-91-9	582.05	51.821	2
18426	C9H22N2	N,N'-diisopropyl-1,3-propanediamine	63737-71-3	487.48	42.682	2	18639	C10H7NO2	1-phenyl-1H-pyrrole-2,5-dione	941-69-5	582.05	51.821	2
18427	C9H22N2	2,2,4(2,4,4)-trimethyl-1,6-hexanediamine	25620-58-0	505.15	44.379	1,2	18640	C10H7NO2	2-quinolinecarboxylic acid	93-10-7	582.05	51.821	2
18430	C9H22OSi	triisopropylsilanol	17877-23-5	469.15	40.928	1,2	18641	C10H7NO2	7-quinolinecarboxylic acid	1078-30-4	582.05	51.821	2
18436	C9H22Si	tripropylsilane	998-29-8	445.15	38.640	1,2	18642	C10H7NO2	8-quinolinecarboxylic acid	86-59-9	582.05	51.821	2
18437	C9H22Si	triisopropylsilane	6485-79-6	445.15	38.640	2	18643	C10H7NO2	1-isoquinolinecarboxylic acid	486-73-7	582.05	51.821	2
18442	C9H23N3	N,N,N',N",N"-pentamethyldiethylenetriamine	3030-47-5	471.15	41.119	1,2	18644	C10H7NO2	1-nitronaphthalene	27254-36-0	576.95	51.325	1,2
18445	C9H24O3Si3	2,4,6-triethyl-2,4,6-trimethylcyclotrisiloxa*	15901-49-2	472.15	41.215	1,2	18645	C10H7NO2	2-nitroso-1-naphthol	132-53-6	582.05	51.821	2
18447	C9H27BO3Si3	tris(trimethylsilyl) borate	4325-85-3	458.15	39.878	1,2	18646	C10H7NO2	6-quinolinecarboxylic acid	10349-57-2	582.05	51.821	2
18450	C9H27O4PSi3	tris(trimethylsilyl) phosphate	10497-05-9	505.15	44.379	1,2	18647	C10H7NO2	3-quinolinecarboxylic acid	6480-68-8	582.05	51.821	2
18451	C9H27PSi3	tris(trimethylsilyl)phosphine	15573-38-3	516.65	45.486	1,2	18669	C10H8	naphthalene	91-20-3	491.14	46.344	1,2
18453	C9H28O3Si4	tris(trimethylsiloxy)silane	1873-89-8	458.15	39.878	1,2	18670	C10H8	azulene	275-51-4	515.16	55.480	1,2
18462	C10F8	perfluoronaphthalene	313-72-4	482.15	42.172	1,2	18677	C10H8ClF3O2	(S)-(+)-a-methoxy-a-trifluoromethylphenylace*	20445-33-4	486.65	42.603	1,2
18463	C10F12O4Pb	lead hexafluoroacetylacetonate	19648-88-5	483.15	42.268	1,2	18678	C10H8ClF3O2	(R)-(-)-a-methoxy-a-(trifluoromethyl)phenyla*	39637-99-5	486.65	42.603	1,2
18464	C10F18	perfluorodecalin	306-94-5	415.15	35.795	1,2	18679	C10H8ClN	2-chloro-4-methylquinoline	634-47-9	569.15	50.566	1,2
18465	C10F18	cis-perfluorodecalin	60433-11-6	416.15	35.890	1,2	18680	C10H8ClN	2-chloro-8-methylquinoline	4225-85-8	560.15	49.692	1,2
18466	C10F18	trans-perfluorodecalin	60433-12-7	414.15	35.701	1,2	18681	C10H8ClN	4-chloro-2-methylquinoline	4295-06-1	542.65	47.997	1,2
18467	C10F21I	perfluorodecyl iodide	423-62-1	470.60	41.067	1,2	18682	C10H8ClN	2-chloro-3-methylquinoline	57876-69-4	557.32	49.418	2
18468	C10F22	perfluorodecane	307-45-9	417.35	36.003	1,2	18683	C10H8ClN	1-(4-chlorophenyl)-1-cyclopropanecarbonitrile	64399-27-5	557.32	49.418	2
18469	C10F22	perfluoro-2,7-dimethyloctane	3021-63-4	417.15	35.984	1,2	18684	C10H8ClN	1-(4-chlorophenyl)-1H-pyrrole	5044-38-2	557.32	49.418	2
18470	C10F23N	perfluorodipropylisobutylamine	307-11-9	420.15	36.268	1,2	18685	C10H8ClN	7-chloro-2-methylquinoline	4965-33-7	557.32	49.418	2
18472	C10HF19O2	nonadecafluorodecanoic acid	335-76-2	491.15	43.034	1,2	18692	C10H8Cl8	octachlorocamphene	1319-80-8	472.45	41.243	1,2
18474	C10H2Cl6	hexachloronaphthalene	1335-87-1	643.15	57.794	1,2	18695	C10H8CuF6O4	copper(ii) trifluoroacetylacetonate	14324-82-4	533.15	47.078	1,2
18480	C10H2O6	pyromellitic dianhydride	89-32-7	671.65	60.598	1,2	18702	C10H8N2	benzylpropanedinitrile	1867-37-4	549.00	48.611	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
18703	C10H8N2	2,2'-bipyridine	366-18-7	546.65	48.384	1,2	18877	C10H9NO	6-methyl-8-quinolinol	20984-33-2	533.60	47.122	2
18704	C10H8N2	2,3'-bipyridine	581-50-0	568.65	50.518	1,2	18878	C10H9NO	1-methyl-2(1H)-quinolinone	606-43-9	598.15	53.390	1,2
18705	C10H8N2	2,4'-bipyridine	581-47-5	554.15	49.111	1,2	18879	C10H9NO	1-methyl-4(1H)-quinolinone	83-54-5	533.60	47.122	2
18706	C10H8N2	3,3'-bipyridine	581-46-4	564.65	50.129	1,2	18880	C10H9NO	6-methyl-2(1H)-quinolinone	4053-34-3	533.60	47.122	2
18707	C10H8N2	3,4'-bipyridine	4394-11-0	570.15	50.663	1,2	18881	C10H9NO	1-acetylindole	576-15-8	533.60	47.122	2
18708	C10H8N2	4,4'-bipyridine	553-26-4	578.15	51.441	1,2	18882	C10H9NO	2-hydroxy-4-methylquinoline	607-66-9	533.60	47.122	2
18709	C10H8N2	4,4'-dipyridyl hydrate	123333-55-1	577.95	51.422	1,2	18883	C10H9NO	4-hydroxy-2-methylquinoline	607-67-0	533.60	47.122	2
18710	C10H8N2	indole-3-acetonitrile	771-51-7	431.65	37.358	1,2	18884	C10H9NO	4-methoxycinnamonitrile	28446-68-6	406.65	34.992	1,2
18711	C10H8N2	o-phenylenediacetonitrile	613-73-0	549.00	48.611	2	18885	C10H9NO	4-methylbenzoylacetonitrile	7391-28-8	533.60	47.122	2
18712	C10H8N2	p-phenylenediacetonitrile	622-75-3	549.00	48.611	2	18886	C10H9NO	trans-2-phenylcyclopropyl isocyanate	63009-74-5	533.60	47.122	2
18713	C10H8N2	1,3-phenylenediacetonitrile	626-22-2	549.00	48.611	2	18887	C10H9NO	5-acetylindole	53330-94-2	636.15	57.107	1,2
18714	C10H8N2	4-phenylpyrimidine	3438-48-0	549.00	48.611	2	18888	C10H9NO	2-amino-1-naphthol	42884-33-3	495.15	43.418	1,2
18726	C10H8N2O3	3-methyl-4-nitroquinoline-1-oxide	14073-00-8	385.15	32.968	2	18889	C10H9NO	5-amino-2-naphthol	86-97-5	477.15	41.693	1,2
18727	C10H8N2O3	5-methyl-4-nitroquinoline-1-oxide	14094-43-0	385.15	32.968	2	18890	C10H9NO	N-hydroxy-1-aminonaphthalene	607-30-7	533.60	47.122	2
18728	C10H8N2O3	6-methyl-4-nitroquinoline-1-oxide	715-48-0	385.15	32.968	2	18891	C10H9NO	lepidine-1-oxide	4053-40-1	533.60	47.122	2
18729	C10H8N2O3	7-methyl-4-nitroquinoline-1-oxide	14753-13-0	385.15	32.968	2	18892	C10H9NO	2-naphthylhydroxylamine	613-47-8	533.60	47.122	2
18730	C10H8N2O3	8-methyl-4-nitroquinoline-1-oxide	14094-45-2	385.15	32.968	1,2	18893	C10H9NO	a-phenylacetoacetonitrile	4468-48-8	533.60	47.122	2
18733	C10H8N2O5	methyl 5-methyl-3-(5-nitro-2-furyl)-4-isoxaz*	15154-19-5	436.75	37.842	1,2	18895	C10H9NO2	N-ethyl-1H-isoindole-1,3(2H)-dione	5022-29-7	558.65	49.547	1,2
18736	C10H8N4	dipyrido(1,2-a:3',2'-d)imidazol-2-amine	67730-10-3	429.65	37.168	1,2	18896	C10H9NO2	alpha-ethynylbenzenemethanol carbamate	3567-38-2	590.98	52.691	2
18740	C10H8O	1-naphthol	90-15-3	561.15	49.789	1,2	18897	C10H9NO2	1H-indole-3-acetic acid	87-51-4	590.98	52.691	2
18741	C10H8O	2-naphthol	135-19-3	558.15	49.498	1,2	18898	C10H9NO2	5-methoxy-2-phenyloxazole	40527-16-0	590.98	52.691	2
18742	C10H8O	4-phenyl-3-butyn-2-one	1817-57-8	559.65	49.644	2	18899	C10H9NO2	1-phenyl-2,5-pyrrolidinedione	83-25-0	673.15	60.745	1,2
18743	C10H8O	2-phenylfuran	17113-33-6	559.65	49.644	2	18900	C10H9NO2	(R)-(+)-a-acetoxyphenylacetonitrile	119718-89-7	541.15	47.852	1,2
18744	C10H8O	1,4-epoxy-1,4-dihydronaphthalene	573-57-9	559.65	49.644	2	18901	C10H9NO2	7-amino-4-methylcoumarin	26093-31-2	590.98	52.691	2
18749	C10H8O2	1-(2-benzofuranyl)ethanone	1646-26-0	571.40	50.785	2	18902	C10H9NO2	5,7-dimethylisatin	39603-24-2	590.98	52.691	2
18750	C10H8O2	1H-indene-1-carboxylic acid	5020-21-3	571.40	50.785	2	18903	C10H9NO2	ethyl 4-cyanobenzoate	7153-22-2	590.98	52.691	2
18751	C10H8O2	3-methyl-2H-1-benzopyran-2-one	2445-82-1	565.65	50.226	1,2	18904	C10H9NO2	indoxyl acetate	608-08-2	590.98	52.691	2
18752	C10H8O2	3-methyl-4H-1-benzopyran-4-one	85-90-5	571.40	50.785	2	18905	C10H9NO2	5-methoxyindole-3-carboxaldehyde	10601-19-1	590.98	52.691	2
18753	C10H8O2	5-methyl-2H-1-benzopyran-2-one	42286-84-0	571.40	50.785	2	18906	C10H9NO2	methyl indole-4-carboxylate	39830-66-5	590.98	52.691	2
18754	C10H8O2	6-methyl-2H-1-benzopyran-2-one	92-48-8	577.15	51.344	1,2	18907	C10H9NO2	methyl indole-3-carboxylate	942-24-5	590.98	52.691	2
18755	C10H8O2	7-methyl-2H-1-benzopyran-2-one	2445-83-2	571.40	50.785	2	18908	C10H9NO2	2-(hydroxyacetyl)indole	52098-13-2	590.98	52.691	2
18756	C10H8O2	8-methyl-2H-1-benzopyran-2-one	1807-36-9	571.40	50.785	2	18909	C10H9NO2	5-(hydroxyacetyl)indole	38693-06-0	590.98	52.691	2
18757	C10H8O2	methyl 3-phenyl-2-propynoate	4891-38-7	571.40	50.785	2	18910	C10H9NO2	4-hydroxy-1-methyl-2-quinolone	1677-46-9	590.98	52.691	2
18758	C10H8O2	1,3-naphthalenediol	132-86-5	571.40	50.785	2	18914	C10H9NO3	cis-4-oxo-4-(phenylamino)-2-butenoic acid	555-59-9	486.15	42.555	2
18759	C10H8O2	1,5-naphthalenediol	83-56-7	571.40	50.785	2	18915	C10H9NO3	4-benzoyloxy-2-azetidinone	28562-58-5	486.15	42.555	2
18760	C10H8O2	1,6-naphthalenediol	575-44-0	571.40	50.785	2	18916	C10H9NO3	ethyl 4-isocyanatobenzoate	30806-83-8	486.15	42.555	2
18761	C10H8O2	1,7-naphthalenediol	575-38-2	571.40	50.785	2	18917	C10H9NO3	ethyl 3-isocyanatobenzoate	67531-68-4	486.15	42.555	1,2
18762	C10H8O2	2,6-naphthalenediol	581-43-1	571.40	50.785	2	18918	C10H9NO3	N-(2-hydroxyethyl)phthalimide	3891-07-4	486.15	42.555	2
18763	C10H8O2	2,7-naphthalenediol	582-17-2	571.40	50.785	2	18919	C10H9NO3	5-hydroxyindole-3-acetic acid	54-16-0	486.15	42.555	2
18764	C10H8O2	2-phenoxyfuran	60698-31-9	571.40	50.785	2	18920	C10H9NO3	5-methoxyindole-2-carboxylic acid	4382-54-1	486.15	42.555	2
18765	C10H8O2	2,3-dihydroxynaphthalene	92-44-4	571.40	50.785	2	18921	C10H9NO3	4-oxo-4-phenylamino-2-butenoic acid	37902-58-2	486.15	42.555	2
18766	C10H8O2	1,2-dihydroxynaphthalene	574-00-5	571.40	50.785	2	18922	C10H9NO3S	2-amino-1-naphthalenesulfonic acid	81-16-3	493.15	43.226	2
18767	C10H8O2	1,4-naphthalenediol	571-60-8	571.40	50.785	2	18923	C10H9NO3S	4-amino-1-naphthalenesulfonic acid	84-86-6	493.15	43.226	2
18768	C10H8O2	4-methylcoumarin	607-71-6	571.40	50.785	2	18924	C10H9NO3S	5-amino-1-naphthalenesulfonic acid	84-89-9	493.15	43.226	2
18769	C10H8O2	2-methyl-1,3-indandione	876-83-5	571.40	50.785	2	18925	C10H9NO3S	7-amino-1-naphthalenesulfonic acid	86-60-2	493.15	43.226	2
18802	C10H8S	1-naphthalenethiol	529-36-2	558.15	49.498	2	18926	C10H9NO3S	8-amino-1-naphthalenesulfonic acid	82-75-7	493.15	43.226	2
18803	C10H8S	2-naphthalenethiol	91-60-1	561.15	49.789	1,2	18927	C10H9NO3S	8-amino-2-naphthalenesulfonic acid	119-28-8	493.15	43.226	2
18804	C10H8S	2-phenylthiophene	825-55-8	529.15	46.692	1,2	18928	C10H9NO3S	5-amino-2-naphthalenesulfonic acid	119-79-9	493.15	43.226	2
18825	C10H9Cl2N	2-chloro-3-(3-chloro-o-tolyl)propionitrile	21342-85-8	384.15	32.874	1,2	18929	C10H9NO3S	probenazole	27605-76-1	493.15	43.226	1,2
18836	C10H9Cl9	toxaphene	8001-35-2	428.15	37.026	1,2	18930	C10H9NO4	methyl trans-3-(2-nitrophenyl)-2-propenoate	39228-29-0	556.65	49.353	2
18841	C10H9F3O	3-(trifluoromethyl)phenylacetone	21906-39-8	489.15	42.843	2	18931	C10H9NO4	methyl trans-3-(3-nitrophenyl)-2-propenoate	659-04-1	556.65	49.353	2
18842	C10H9F3O	4'-(trifluoromethyl)propiophenone	711-33-1	489.15	42.843	1,2	18932	C10H9NO4	methyl trans-3-(4-nitrophenyl)-2-propenoate	637-57-0	556.65	49.353	1,2
18849	C10H9N	2-methylquinoline	91-63-4	519.75	43.461	1,2	18942	C10H9NO6S2	4-amino-1,6-naphthalenedisulfonic acid	85-75-6	478.95	41.865	2
18850	C10H9N	3-methylquinoline	612-58-8	525.45	48.460	1,2	18943	C10H9NO6S2	4-amino-1,7-naphthalenedisulfonic acid	85-74-5	478.95	41.865	2
18851	C10H9N	4-methylquinoline	491-35-0	538.81	49.748	1,2	18945	C10H9NO6S2	2-amino-1,5-naphthalenedisulfonic acid	117-62-4	478.95	41.865	2
18852	C10H9N	5-methylquinoline	7661-55-4	533.15	49.202	1,2	18946	C10H9NO6S2	3-amino-1,5-naphthalenedisulfonic acid	131-27-1	478.95	41.865	2
18853	C10H9N	6-methylquinoline	91-62-3	538.24	49.693	1,2	18947	C10H9NO6S2	amino-S acid	117-55-5	478.95	41.865	1,2
18854	C10H9N	7-methylquinoline	612-60-2	530.88	48.983	1,2	18950	C10H9N3	N-2-pyridinyl-2-pyridinamine	1202-34-2	580.65	51.685	1,2
18855	C10H9N	8-methylquinoline	611-32-5	521.07	48.037	1,2	18952	C10H9N3O3	2,4-dihydro-5-methyl-2-(4-nitrophenyl)-3H-py*	6402-09-1	674.85	60.913	2
18856	C10H9N	1-methylisoquinoline	1721-93-3	521.15	47.227	1,2	18953	C10H9N3O3	4,6-dimethyl-2-(5-nitro-2-furyl)pyrimidine	59-35-8	674.85	60.913	1,2
18857	C10H9N	3-methylisoquinoline	1125-80-0	522.15	47.552	1,2	18958	C10H10	m-divinylbenzene	108-57-6	472.65	41.949	1,2
18858	C10H9N	4-methylisoquinoline	1196-39-0	529.15	49.920	1,2	18959	C10H10	(cis)-1,3-butadienylbenzene	31915-94-3	473.70	41.363	2
18859	C10H9N	6-methylisoquinoline	42398-73-2	538.65	53.420	1,2	18960	C10H10	(trans)-1,3-butadienylbenzene	16939-57-4	473.70	41.363	2
18860	C10H9N	8-methylisoquinoline	62882-00-2	531.15	50.628	1,2	18961	C10H10	o-divinylbenzene	91-14-5	473.70	41.363	2
18861	C10H9N	1-naphthylamine	134-32-7	573.85	51.023	1,2	18962	C10H10	p-divinylbenzene	105-06-6	473.70	41.363	2
18862	C10H9N	2-naphthylamine	91-59-8	579.35	51.558	1,2	18963	C10H10	1-methylindene	767-59-9	471.65	42.059	1,2
18863	C10H9N	1-phenyl-1H-pyrrole	635-90-5	507.15	44.572	1,2	18964	C10H10	2-methylindene	2177-47-1	458.00	40.651	1,2
18864	C10H9N	2-phenyl-1H-pyrrole	3042-22-6	545.15	48.239	1,2	18965	C10H10	3-methyl-1H-indene	767-60-2	471.15	43.236	1,2
18865	C10H9N	1-phenyl-1-cyclopropanecarbonitrile	935-44-4	534.69	47.227	2	18966	C10H10	4-methyl-1H-indene	7344-34-5	482.15	47.234	1,2
18866	C10H9NO	6-amino-2-naphthalenol	4363-04-6	485.15	42.459	2	18967	C10H10	6-methyl-1H-indene	20232-11-5	480.15	46.468	1,2
18867	C10H9NO	8-amino-2-naphthalenol	118-46-7	533.60	47.122	2	18968	C10H10	7-methyl-1H-indene	7372-92-1	482.15	47.234	1,2
18868	C10H9NO	5-amino-1-naphthol	83-55-6	533.60	47.122	2	18969	C10H10	3-butynylbenzene	16520-62-0	463.15	40.355	1,2
18869	C10H9NO	1-(1H-indol-3-yl)ethanone	703-80-0	533.60	47.122	2	18970	C10H10	1,2-dihydronaphthalene	447-53-0	479.65	41.932	1,2
18870	C10H9NO	7-methoxyisoquinoline	39989-39-4	533.60	47.122	2	18971	C10H10	1,4-dihydronaphthalene	612-17-9	484.65	42.411	1,2
18871	C10H9NO	4-methoxyquinoline	607-31-8	518.15	45.631	1,2	18972	C10H10	2-phenyl-1,3-butadiene	2288-18-8	473.70	41.363	2
18872	C10H9NO	6-methoxyquinoline	5263-87-6	579.15	51.539	1,2	18973	C10H10	divinylbenzene	1321-74-0	469.65	40.976	1,2
18873	C10H9NO	8-methoxyquinoline	938-33-0	556.15	49.304	1,2	18974	C10H10	1-phenyl-1-butyne	622-76-4	469.45	40.957	1,2
18874	C10H9NO	2-methyl-6-quinolinol	613-21-8	577.65	51.393	1,2	18975	C10H10	bullvalene	1005-51-2	473.70	41.363	2
18875	C10H9NO	2-methyl-8-quinolinol	826-81-3	540.15	47.755	1,2	18979	C10H10BrCl2O4P	methylbromfenvinphos	13104-21-7	483.75	42.325	1,2
18876	C10H9NO	6-methyl-7-quinolinol	84583-53-9	533.60	47.122	2	18986	C10H10ClNO2	4'-chloroacetoacetanilide	101-92-8	576.15	51.247	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
18987	C10H10ClNO2	o-acetoacetochloranilide	93-70-9	576.15	51.247	1,2	19131	C10H10O2	1,2-diacetylbenzene	704-00-7	515.44	45.370	2
18988	C10H10ClNO2	chlorethylbenzmethoxazone	132-89-8	576.15	51.247	2	19132	C10H10O2	5-hydroxy-1-tetralone	28315-93-7	515.44	45.370	2
18989	C10H10ClNO2	4-chloroacetoacetanilide	39082-00-3	576.15	51.247	2	19133	C10H10O2	isosafrol, cis and trans	120-58-1	525.65	46.354	1,2
18990	C10H10ClNO2	4'-chloroacetyl acetanilide	140-49-8	576.15	51.247	2	19134	C10H10O2	o-methoxycinnamaldehyde	1504-74-1	568.15	50.469	1,2
18993	C10H10Cl2	2,2-dichloro-1-methylcyclopropylbenzene	3591-42-2	349.15	29.602	1,2	19135	C10H10O2	trans-4-methoxycinnamaldehyde	24680-50-0	515.44	45.370	2
18995	C10H10Cl2N2O	4-amino-N-cyclopropyl-3,5-dichlorobenzamide	60676-83-7	524.15	46.209	1,2	19136	C10H10O2	2-methoxycinnamaldehyde; predominantly trans	60125-24-8	515.44	45.370	2
18996	C10H10Cl2N2O	2-((3,4-dichlorophenoxy)methyl)-2-imidazolin*	23712-05-2	524.15	46.209	2	19137	C10H10O2	4-methoxy-1-indanone	13336-31-7	515.44	45.370	2
19012	C10H10F3NO	N,N-dimethyl-3-(trifluoromethyl)benzamide	90238-10-1	496.15	43.514	1,2	19138	C10H10O2	6-methoxy-1-indanone	13623-25-1	515.44	45.370	2
19015	C10H10Fe	ferrocene	102-54-5	522.15	46.016	1,2	19139	C10H10O2	5-methoxy-1-indanone	5111-70-6	515.44	45.370	2
19018	C10H10Mg	bis(cyclopentadienyl)magnesium	1284-72-6	563.15	49.984	1,2	19140	C10H10O2	a-methylcinnamic acid	1199-77-5	515.44	45.370	2
19021	C10H10NO	N-methyl-quinoline 5,6-oxide	142044-37-9	523.15	46.113	2	19141	C10H10O2	g-phenyl-g-butyrolactone	1008-76-0	579.15	51.539	1,2
19022	C10H10N2	2,6-dimethylquinoxaline	60814-29-1	541.15	47.852	1,2	19142	C10H10O2	1-phenyl-1-cyclopropanecarboxylic acid	6120-95-2	515.44	45.370	2
19023	C10H10N2	1-methyl-3-phenyl-1H-pyrazole	3463-26-1	553.65	49.062	1,2	19143	C10H10O2	trans-2-phenylcyclopropane-1-carboxylic acid	939-90-2	515.44	45.370	2
19024	C10H10N2	3-methyl-1-phenyl-1H-pyrazole	1128-54-7	528.15	46.595	1,2	19144	C10H10O2	phenyl methacrylate	2177-70-0	515.44	45.370	2
19025	C10H10N2	3-(1-methyl-1H-pyrrol-2-yl)pyridine	487-19-4	554.15	49.111	1,2	19145	C10H10O2	2-(p-tolyl)-3-hydroxyacroleine	---	515.44	45.370	2
19026	C10H10N2	2-methyl-3-quinolinamine	21352-22-7	551.15	48.820	1,2	19146	C10H10O2	trans-styrylacetic acid	1914-58-5	515.44	45.370	2
19027	C10H10N2	2-methyl-4-quinolinamine	6628-04-2	606.15	54.171	1,2	19147	C10H10O2	2-(4-tolyl)malondialdehyde	27956-35-0	515.44	45.370	2
19028	C10H10N2	2-methyl-7-quinolinamine	64334-96-9	577.15	51.344	1,2	19148	C10H10O2	1-aza-3,5-dimethyl-4,6-dioxabicyclo[3.3.0]oc*	[illegible]	515.44	45.370	2
19029	C10H10N2	4-methyl-2-quinolinamine	27063-27-0	593.15	52.902	1,2	19149	C10H10O2	1,4-diacetylbenzene	1009-61-6	515.44	45.370	2
19030	C10H10N2	6-methyl-8-quinolinamine	68420-93-9	565.32	50.194	2	19150	C10H10O2	1-(4-cyanophenyl)-piperazine hydrochloride	116290-72-3	515.44	45.370	2
19031	C10H10N2	1,2-naphthalenediamine	938-25-0	565.32	50.194	2	19151	C10H10O2	6,7-dimethoxy-1,3-dimethyl-3,4-dihydroisoqui*	107416-41-1	515.44	45.370	2
19032	C10H10N2	1,4-naphthalenediamine	2243-61-0	565.32	50.194	2	19152	C10H10O2	dittmer	---	515.44	45.370	2
19033	C10H10N2	1,5-naphthalenediamine	2243-62-1	565.32	50.194	2	19153	C10H10O2	ethyl 2-amino-4-phenyl-5-thiazolecarboxylate	64399-23-1	515.44	45.370	2
19034	C10H10N2	1,8-naphthalenediamine	479-27-6	565.32	50.194	2	19154	C10H10O2	5-methoxy-1,3,4-triphenyl-4,5-dihydro-1H-1,2*	154643-41-1	515.44	45.370	2
19035	C10H10N2	2,3-naphthalenediamine	771-97-1	565.32	50.194	2	19155	C10H10O2	methyl 5-bromonicotinoylacetate	205985-97-3	515.44	45.370	2
19036	C10H10N2	1-naphthylhydrazine	2243-55-2	565.32	50.194	2	19156	C10H10O2	methyl 4-chlorobenzoylacetate	53101-00-1	515.44	45.370	2
19037	C10H10N2	6-amino-2-methylquinoline	65079-19-8	565.32	50.194	2	19157	C10H10O2	methyl 2-chlorobenzoylacetate	205985-98-4	515.44	45.370	2
19038	C10H10N2	1-(2-aminophenyl)pyrrole	6025-60-1	565.32	50.194	2	19158	C10H10O2	methyl 3-trifluoromethylbenzoylacetate	93618-66-7	515.44	45.370	2
19039	C10H10N2	1-benzylimidazole	4238-71-5	583.15	51.928	1,2	19159	C10H10O2	methyl 2-trifluoromethylbenzoylacetate	212755-77-6	515.44	45.370	2
19040	C10H10N2	2,3-dimethylquinoxaline	2379-55-7	565.32	50.194	2	19160	C10H10O2	(S)-(+)-N(alpha)-benzyl-N(beta)-boc-(L)-hydr*	188777-48-2	515.44	45.370	2
19041	C10H10N2	3-(p-tolyl)pyrazole	59843-75-3	565.32	50.194	2	19161	C10H10O2	(-)-3-oxo-6-b-t.-butyldimethylsilyloxymethyl*	---	515.44	45.370	2
19042	C10H10N2	3-(pyrrol-1-ylmethyl)pyridine	80866-95-1	565.32	50.194	2	19162	C10H10O2	indan-2-carboxylic acid	25177-85-9	515.44	45.370	2
19043	C10H10N2	5-methyl-1-phenyl-1H-pyrazole	6831-91-0	565.32	50.194	2	19163	C10H10O2	2-(2-pyrazinyl)malondialdehyde	13481-00-0	515.44	45.370	2
19044	C10H10N2	1-methyl-5-phenylpyrazole	3463-27-2	565.32	50.194	2	19164	C10H10O2	5,11,17,23-tetrakis-chloromethyl-25,26,27,28*	[illegible]	515.44	45.370	2
19066	C10H10N2O2S2	3-methyl-5-(p-tolylsulfonyl)-1,2,4-thiadiazo*	20064-41-9	336.85	28.459	1,2	19165	C10H10O2	4-hydroxy-1-tetralone	21032-12-2	515.44	45.370	2
19086	C10H10O	2,3-dihydro-2-methyl-1H-inden-1-one	17496-14-9	509.15	44.764	1,2	19166	C10H10O2	tris(2-(perfluorohexyl)ethyl)tin hydride	---	515.44	45.370	2
19087	C10H10O	2,3-dihydro-4-methyl-1H-inden-1-one	24644-78-8	501.43	44.022	2	19167	C10H10O2	tryptone	---	515.44	45.370	2
19088	C10H10O	3,4-dihydro-2(1H)-naphthalenone	530-93-8	510.15	44.860	1,2	19168	C10H10O2	2-hydroxy-3-(2-propenyl)benzaldehyde	24019-66-7	515.44	45.370	2
19089	C10H10O	2,5-dimethylbenzofuran	29040-46-8	493.15	43.226	1,2	19169	C10H10O2	2-(2-propenyloxy)benzaldehyde	28752-82-1	403.15	34.662	1,2
19090	C10H10O	2,6-dimethylbenzofuran	24410-51-3	490.65	42.986	1,2	19170	C10H10O2	4-(2-propenyloxy)benzaldehyde	40663-68-1	423.15	36.552	1,2
19091	C10H10O	2,7-dimethylbenzofuran	59020-74-5	489.15	42.843	1,2	19171	C10H10O2	1'-hydroxy-2',3'-dehydroestragole	19115-30-1	515.44	45.370	2
19092	C10H10O	3,5-dimethylbenzofuran	10410-35-2	493.65	43.274	1,2	19172	C10H10O2	1'-oxoestragole	7448-86-4	433.15	37.500	1,2
19093	C10H10O	3,6-dimethylbenzofuran	24410-50-2	495.15	43.418	1,2	19174	C10H10O2S2	difurfuryl disulfide	4437-20-1	553.15	49.014	2
19094	C10H10O	4,6-dimethylbenzofuran	116668-34-9	492.15	43.130	1,2	19175	C10H10O2S2	bis(2-methyl-3-furyl)disulphide	28588-75-2	553.15	49.014	1,2
19095	C10H10O	4,7-dimethylbenzofuran	28715-26-6	489.15	42.843	1,2	19176	C10H10O3	2-(acetyloxy)-1-phenylethanone	2243-35-8	543.15	48.045	1,2
19096	C10H10O	5,6-dimethylbenzofuran	24410-52-4	494.15	43.322	1,2	19177	C10H10O3	difurfuryl ether	4437-22-3	498.78	43.766	2
19097	C10H10O	5,7-dimethylbenzofuran	64965-91-9	495.15	43.418	1,2	19178	C10H10O3	ethyl 2-oxo-2-phenylacetate	1603-79-8	529.65	46.740	1,2
19098	C10H10O	6,7-dimethylbenzofuran	35355-36-3	491.15	43.034	1,2	19179	C10H10O3	3-(4-hydroxy-3-methoxyphenyl)-2-propenal	458-36-6	498.78	43.766	2
19099	C10H10O	alpha-ethynyl-alpha-methylbenzenemethanol	127-66-2	490.65	42.986	1,2	19180	C10H10O3	methyl 4-acetylbenzoate	3609-53-8	498.78	43.766	2
19100	C10H10O	2-methyl-3-phenyl-2-propenal	101-39-3	521.15	45.920	1,2	19181	C10H10O3	methyl benzoylacetate	614-27-7	538.15	47.561	2
19101	C10H10O	3-(4-methylphenyl)-2-propenal	1504-75-2	501.43	44.022	2	19182	C10H10O3	4-acetoxyacetophenone	13031-43-1	498.78	43.766	2
19102	C10H10O	3-phenyl-2-butenal	1196-67-4	501.43	44.022	2	19183	C10H10O3	2-acetoxyacetophenone	7250-94-4	498.78	43.766	2
19103	C10H10O	1-phenyl-2-buten-1-one	495-41-0	501.43	44.022	2	19184	C10H10O3	1,4-benzodioxan-6-yl methyl ketone	2879-20-1	498.78	43.766	2
19104	C10H10O	trans-4-phenyl-3-buten-2-one	1896-62-4	534.15	47.175	1,2	19185	C10H10O3	3-benzoylpropionic acid	2051-95-8	498.78	43.766	2
19105	C10H10O	1-tetralone	529-34-0	501.43	44.022	2	19186	C10H10O3	endo-bicyclo[2.2.2]oct-5-ene-2,3-dicarboxyli*	24327-08-0	498.78	43.766	2
19106	C10H10O	benzalacetone	122-57-6	534.15	47.175	1,2	19187	C10H10O3	o-methoxycinnamic acid, predominantly trans	6099-03-2	498.78	43.766	2
19107	C10H10O	cyclopropyl phenyl ketone	3481-02-5	501.43	44.022	2	19188	C10H10O3	m-methoxycinnamic acid, predominantly trans	6099-04-3	498.78	43.766	2
19108	C10H10O	2,3-dimethylbenzofuran	3782-00-1	501.43	44.022	2	19189	C10H10O3	p-methoxycinnamic acid, predominantly trans	830-09-1	498.78	43.766	2
19109	C10H10O	1,4-epoxy-1,2,3,4-tetrahydronaphthalene	35185-96-7	501.43	44.022	2	19190	C10H10O3	2-(4-methoxyphenyl)malondialdehyde	53868-40-9	498.78	43.766	2
19110	C10H10O	6-methyl-1-indanone	24623-20-9	501.43	44.022	2	19191	C10H10O3	3,4-methylenedioxyphenylacetophenone	4676-39-5	498.78	43.766	2
19111	C10H10O	3-methyl-1-indanone	6072-57-7	501.43	44.022	2	19192	C10H10O3	methyl-5-norbornene-2,3-dicarboxylic anhydri*	25134-21-8	498.78	43.766	2
19112	C10H10O	bicyclo(4.2.0)octa-1,3,5-trien-7-yl methyl k*	1075-30-5	501.43	44.022	2	19193	C10H10O3	1,3-benzodioxole-5-(2-propen-1-ol)	5208-87-7	498.78	43.766	2
19113	C10H10OS	osmocene	1273-81-0	571.05	50.751	1,2	19194	C10H10O3	cis-2-methoxycinnamic acid	14737-91-8	384.15	32.874	1,2
19114	C10H10O2	allyl benzoate	583-04-0	515.44	45.370	2	19195	C10H10O4	dimethyl phthalate	131-11-3	556.85	54.997	1,2
19115	C10H10O2	benzyl acrylate	2495-35-4	501.15	43.995	1,2	19196	C10H10O4	dimethyl terephthalate	120-61-6	561.15	52.830	1,2
19116	C10H10O2	cinnamyl formate	104-65-4	525.15	46.306	1,2	19197	C10H10O4	1,2-benzenediol diacetate	635-67-6	531.75	46.943	2
19117	C10H10O2	1,3-diacetylbenzene	6781-42-6	515.44	45.370	2	19198	C10H10O4	1,4-benzenediol diacetate	1205-91-0	531.75	46.943	2
19118	C10H10O2	6-methyl-4-chromanone	39513-75-2	515.44	45.370	2	19199	C10H10O4	6,7-dimethoxy-1(3H)-isobenzofuranone	569-31-3	531.75	46.943	2
19119	C10H10O2	methyl cinnamate	1754-62-7	535.05	47.262	1,2	19201	C10H10O4	dimethyl isophthalate	1459-93-4	555.15	49.207	1,2
19120	C10H10O2	o-methylcinnamic acid	2373-76-4	515.44	45.370	2	19202	C10H10O4	ethyl 1,3-benzodioxole-5-carboxylate	6951-08-2	558.65	49.547	1,2
19121	C10H10O2	m-methylcinnamic acid	3029-79-6	515.44	45.370	2	19203	C10H10O4	methyl 2-(acetyloxy)benzoate	580-02-9	531.75	46.943	2
19122	C10H10O2	p-methylcinnamic acid	1866-39-3	515.44	45.370	2	19204	C10H10O4	methyl 1,3-benzodioxole-5-acetate	326-59-0	551.15	48.820	1,2
19123	C10H10O2	alpha-methyl-beta-oxobenzenepropanal	16837-43-7	515.44	45.370	2	19205	C10H10O4	phenylbutanedioic acid, (±)	10424-29-0	531.75	46.943	2
19124	C10H10O2	cis-2-methyl-3-phenyl-2-propenoic acid	15250-29-0	561.15	49.789	1,2	19206	C10H10O4	benzylmalonic acid	616-75-1	531.75	46.943	2
19125	C10H10O2	1-phenyl-1,3-butanedione	93-91-4	534.65	47.223	1,2	19208	C10H10O4	ferulic acid	1135-24-6	531.75	46.943	2
19126	C10H10O2	4-phenyl-3-butenoic acid	2243-53-0	575.15	51.149	1,2	19209	C10H10O4	3-hydroxy-4-methoxycinnamic acid, predominan*	537-73-5	531.75	46.943	2
19127	C10H10O2	cis-3-phenyl-2-butenoic acid	704-79-0	515.44	45.370	2	19210	C10H10O4	methyl 5-acetylsalicylate	16475-90-4	531.75	46.943	2
19128	C10H10O2	trans-5-(1-propenyl)-1,3-benzodioxole	4043-71-4	526.15	46.402	1,2	19211	C10H10O4	methyl caffeate	3843-74-1	531.75	46.943	2
19129	C10H10O2	safrole	94-59-7	507.65	44.620	1,2	19212	C10H10O4	1,3-phenylenediacetic acid	19806-17-8	531.75	46.943	2
19130	C10H10O2	4-acetoxystyrene	2628-16-2	533.15	47.078	1,2	19213	C10H10O4	1.4-phenylenediacetic acid	7325-46-4	531.75	46.943	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
19214	C10H10O4	1,2-phenylenediacetic acid	7500-53-0	531.75	46.943	2	19336	C10H11NO3	2,4,6-trimethoxybenzonitrile	2571-54-2	504.40	44.307	2
19215	C10H10O4	(S)-(+)-phenylsuccinic acid	4036-30-0	531.75	46.943	2	19337	C10H11NO3	2,3,4-trimethoxybenzonitrile	43020-38-8	504.40	44.307	2
19216	C10H10O4	(R)-(-)-phenylsuccinic acid	46292-93-7	531.75	46.943	2	19345	C10H11N3	3-methyl-1-phenyl-1H-pyrazol-4-amine	103095-51-8	587.65	52.366	1,2
19217	C10H10O4	DL-phenylsuccinic acid	635-51-8	531.75	46.943	2	19346	C10H11N3	3-methyl-1-phenyl-1H-pyrazol-5-amine	1131-18-6	606.15	54.171	1,2
19218	C10H10O4	piperonyl acetate	326-61-4	531.75	46.943	2	19347	C10H11N3	6-amino-2,3-dimethylquinoxaline	7576-88-7	596.90	53.268	2
19219	C10H10O4	resorcinol diacetate	108-58-7	551.15	48.820	1,2	19348	C10H11N3	5-methyl-6-methylaminoquinoxaline	161696-98-6	596.90	53.268	2
19220	C10H10O4	trans-ferulic acid	537-98-4	531.75	46.943	2	19358	C10H12	1,3-dicyclopentadiene	77-73-6	443.00	37.314	1,2
19221	C10H10O4	1'-hydroxysafrole-2',3'-oxide	59901-91-6	388.15	33.250	1,2	19359	C10H12	1,2,3,4-tetrahydronaphthalene	119-64-2	480.77	42.351	1,2
19222	C10H10O4	monoethyl phthalate	2306-33-4	531.75	46.943	2	19360	C10H12	cis-(1-butenyl)benzene	1560-09-4	462.15	40.563	1,2
19226	C10H10Ru	bis(cyclopentadienyl)ruthenium	1287-13-4	549.05	48.616	1,2	19361	C10H12	trans-(1-butenyl)benzene	1005-64-7	471.83	41.453	1,2
19234	C10H11BrO2	2-(4-bromomethyl)phenylpropionic acid	111128-12-2	421.15	36.363	2	19362	C10H12	cis-(1-methyl-1-propenyl)benzene	767-99-7	447.15	38.882	1,2
19235	C10H11BrO2	ethyl-alpha-bromophenyl acetate	2882-19-1	421.15	36.363	1,2	19363	C10H12	trans-(1-methyl-1-propenyl)benzene	768-00-3	467.85	40.770	1,2
19247	C10H11ClO	1-(3-chloroallyl)-4-methoxybenzene	54644-23-4	526.65	46.451	2	19364	C10H12	(2-methyl-1-propenyl)benzene	768-49-0	461.06	40.151	1,2
19248	C10H11ClO	4-chloro-1-phenyl-1-butanone	939-52-6	526.65	46.451	2	19365	C10H12	cis-1-methyl-2-(1-propenyl)benzene	2077-33-0	465.57	40.815	2
19249	C10H11ClO	alpha-ethylbenzeneacetyl chloride	36854-57-6	526.65	46.451	2	19366	C10H12	cis-1-methyl-3-(1-propenyl)benzene	2077-31-8	465.57	40.815	2
19250	C10H11ClO	4'-chlorobutyrophenone	4981-63-9	526.65	46.451	1,2	19367	C10H12	cis-1-methyl-4-(1-propenyl)benzene	2077-29-4	469.15	41.144	1,2
19251	C10H11ClO	1-(4-chlorophenyl)-1-cyclopropanemethanol	80866-81-5	526.65	46.451	2	19368	C10H12	trans-1-methyl-4-(1-propenyl)benzene	2077-30-7	474.15	41.603	1,2
19252	C10H11ClO	4-propylbenzoyl chloride	52710-27-7	526.65	46.451	2	19369	C10H12	1-methyl-2-(1-methylethenyl)benzene	7399-49-7	445.35	39.159	1,2
19253	C10H11ClO	isopropyl-4-chlorophenyl ketone	18713-58-1	526.65	46.451	2	19370	C10H12	1-methyl-3-(1-methylethenyl)benzene	1124-20-5	458.15	40.338	1,2
19260	C10H11ClO3	benzoyloxyethylchloromethylether, balancemai*	---	571.15	50.761	2	19371	C10H12	1-methyl-4-(1-methylethenyl)benzene	1195-32-0	459.15	40.430	1,2
19261	C10H11ClO3	2-(4-chlorophenoxy)-2-methylpropionic acid	882-09-7	571.15	50.761	2	19372	C10H12	o-ethylstyrene	7564-63-8	460.44	40.443	1,2
19262	C10H11ClO3	3,4-dimethoxyphenylacetyl chloride	10313-60-7	571.15	50.761	2	19373	C10H12	m-ethylstyrene	7525-62-4	463.20	40.697	1,2
19263	C10H11ClO3	(2,5-dimethoxyphenyl)acetyl chloride	52711-92-9	571.15	50.761	2	19374	C10H12	p-ethylstyrene	3454-07-7	465.45	40.904	1,2
19264	C10H11ClO3	mecoprop	93-65-2	571.15	50.761	1,2	19375	C10H12	1-ethenyl-2,4-dimethylbenzene	2234-20-0	475.26	41.744	1,2
19265	C10H11ClO3	2-chloroethyl phenoxyacetate	946-88-3	571.15	50.761	2	19376	C10H12	1-ethenyl-3,5-dimethylbenzene	5379-20-4	465.57	40.853	2
19266	C10H11ClO3	2-(4-chloro-2-methylphenoxy)propanoic acid	16484-77-8	571.15	50.761	2	19377	C10H12	2-ethenyl-1,3-dimethylbenzene	2039-90-9	465.57	40.853	2
19267	C10H11ClO3	3-chloro-1,2-propanediol 1-benzoate	3477-94-9	571.15	50.761	2	19378	C10H12	2-ethenyl-1,4-dimethylbenzene	2039-89-6	466.18	40.909	1,2
19268	C10H11ClO3	rankotex	7085-19-0	571.15	50.761	2	19379	C10H12	4-ethenyl-1,2-dimethylbenzene	27831-13-6	465.57	40.853	2
19281	C10H11N	5,8-dihydro-1-naphthalenamine	32666-56-1	538.72	47.616	2	19380	C10H12	2,3-dimethylstyrene	40243-75-2	465.57	40.853	2
19282	C10H11N	1,3-dimethyl-1H-indole	875-30-9	531.65	46.933	1,2	19381	C10H12	3,4-dimethylstyrene	---	465.57	40.853	2
19283	C10H11N	2,5-dimethyl-1H-indole	1196-79-8	538.72	47.616	2	19382	C10H12	2,6-dimethylstyrene	2039-90-9	465.57	40.853	2
19284	C10H11N	alpha-ethylbenzeneacetonitrile	769-68-6	514.15	45.245	1,2	19383	C10H12	3,5-dimethylstyrene	80648-26-6	465.57	40.853	2
19285	C10H11N	1-ethyl-1H-indole	10604-59-8	525.65	46.354	1,2	19384	C10H12	2-butenylbenzene	1560-06-1	449.15	36.287	1,2
19286	C10H11N	3-ethyl-1H-indole	1484-19-1	552.15	48.917	1,2	19385	C10H12	3-butenylbenzene	768-56-9	450.15	36.565	1,2
19287	C10H11N	2,3-dimethylindole	91-55-4	558.15	49.498	1,2	19386	C10H12	1-methyl-2-allylbenzene	1587-04-8	455.65	38.149	1,2
19288	C10H11N	2,5-dimethylphenylacetonitrile	16213-85-7	538.72	47.616	2	19387	C10H12	(1-methylenepropyl)benzene	2039-93-2	455.15	39.659	1,2
19289	C10H11N	7-ethylindole	22867-74-9	503.15	44.187	1,2	19388	C10H12	dicyclopentadiene	1755-01-7	443.15	38.450	2
19290	C10H11N	4-phenylbutyronitrile	2046-18-6	538.72	47.616	2	19389	C10H12	2,3-dihydro-1-methyl-1H-indene	767-58-8	463.75	40.412	1,2
19291	C10H11N	2,4,6-trimethylbenzonitrile	2571-52-0	538.72	47.616	2	19390	C10H12	2,3-dihydro-2-methyl-1H-indene	824-63-5	468.15	40.833	1,2
19292	C10H11N	1,5-dimethyl-1H-indole	27816-53-1	535.20	47.276	1,2	19391	C10H12	2,3-dihydro-4-methyl-1H-indene	824-22-6	478.45	41.817	1,2
19293	C10H11N	3,5-dimethyl-1H-indole	3189-12-6	550.70	48.776	1,2	19392	C10H12	2,3-dihydro-5-methyl-1H-indene	874-35-1	475.15	41.502	1,2
19294	C10H11N	2,6-dimethyl-1H-indole	5649-36-5	546.20	48.340	1,2	19393	C10H12	(1-methylcyclopropyl)benzene	2214-14-4	464.03	40.439	2
19295	C10H11N	p-isopropylbenzonitrile	13816-33-6	570.15	50.663	1,2	19394	C10H12	cyclobutylbenzene	4392-30-7	464.03	40.439	2
19296	C10H11NO	1,3-dihydro-1,3-dimethyl-2H-indol-2-one	24438-17-3	546.15	48.336	1,2	19395	C10H12	1-ethyl-1,3,5,7-cyclooctatetraene	13402-35-2	464.03	40.439	2
19297	C10H11NO	1,3-dihydro-3,3-dimethyl-2H-indol-2-one	19155-24-9	573.15	50.955	1,2	19396	C10H12	benzylcyclopropane	1667-00-1	520.55	45.862	1,2
19298	C10H11NO	1,3-dihydro-4,7-dimethyl-2H-indol-2-one	59022-71-8	516.40	45.462	2	19397	C10H12	trans-1-butenylbenzene	824-90-8	463.05	40.440	1,2
19299	C10H11NO	1H-indole-3-ethanol	526-55-6	516.40	45.462	2	19398	C10H12	a,2-dimethylstyrene	26444-18-8	450.45	36.956	1,2
19300	C10H11NO	4-phenoxybutanenitrile	2243-43-8	561.15	49.789	1,2	19400	C10H12BrCl2O3PS	bromophos-ethyl	4824-78-6	395.65	33.956	1,2
19301	C10H11NO	2-ethyl-6-methylphenyl isocyanate	75746-71-3	516.40	45.462	2	19422	C10H12Cl3O2PS	trichloronate	327-98-0	381.15	32.593	1,2
19302	C10H11NO	4-isopropylphenyl isocyanate	31027-31-3	516.40	45.462	2	19430	C10H12N2	4,5-dihydro-2-benzyl-1H-imidazole	59-98-3	577.65	51.393	2
19303	C10H11NO	2-isopropylphenyl isocyanate	56309-56-9	516.40	45.462	2	19431	C10H12N2	1-ethyl-2-methyl-1H-benzimidazole	5805-76-5	569.15	50.566	1,2
19304	C10H11NO	5-methoxy-2-methylindole	1076-74-0	516.40	45.462	2	19432	C10H12N2	1,2,3,6-tetrahydro-2,3'-bipyridine, (S)	581-49-7	577.65	51.393	2
19305	C10H11NO	1-phenyl-2-pyrrolidinone	4641-57-0	516.40	45.462	2	19433	C10H12N2	tryptamine	61-54-1	577.65	51.393	2
19306	C10H11NO	2-propylphenyl isocyanate	190774-57-3	516.40	45.462	2	19434	C10H12N2	3-(benzylamino)propionitrile	706-03-6	577.65	51.393	2
19307	C10H11NO	2,5,6-trimethylbenzoxazole	19219-98-8	516.40	45.462	2	19435	C10H12N2	3-(methylphenylamino)propionitrile	94-34-8	586.15	52.220	1,2
19308	C10H11NO	2,4,6-trimethylbenzonitrile, N-oxide	2904-57-6	516.40	45.462	2	19436	C10H12N2	3,4,5,6-tetrahydro-2,3'-bipyridine	3471-05-4	577.65	51.393	2
19309	C10H11NO	5-acetylindoline	16078-34-5	516.40	45.462	2	19442	C10H12N2OS	2-amino-5-phenylthiomethyl-2-oxazoline	41136-03-2	317.39	26.658	1,2
19310	C10H11NO	bicyclo(4.2.0)octa-1,3,5-trien-7-yl methyl k*	3264-31-1	385.15	32.968	1,2	19445	C10H12N2O3	5,5-diallyl-2,4,6(1H,3H,5H)-pyrimidinetrione	52-43-7	449.65	39.068	2
19311	C10H11NO	phenylpyrrolidone	1198-97-6	516.40	45.462	2	19447	C10H12N2O3	N-(4-aminobenzoyl)-b-alanine	7377-08-4	449.65	39.068	2
19312	C10H11NO	N-vinylacetanilide	4091-14-9	516.40	45.462	2	19448	C10H12N2O3	3,4-dimethylphenyl-N-methyl-N-nitrosocarbama*	58139-33-6	449.65	39.068	2
19313	C10H11NO2	acetoacetanilide	102-01-2	498.15	43.706	2	19449	C10H12N2O3	methylnitrosocarbamic acid 3,5-xylyl ester	58139-34-7	419.15	36.173	1,2
19314	C10H11NO2	N-acetyl-N-phenylacetamide	1563-87-7	498.15	43.706	2	19450	C10H12N2O3	N-nitrosocarbanilic acid isopropyl ester	101418-02-4	449.65	39.068	2
19315	C10H11NO2	difurfurylamine	18240-50-1	498.15	43.706	2	19451	C10H12N2O3	N-nitroso-N-methyl-N-a-acetoxybenzylamine	53198-46-2	480.15	41.980	1,2
19317	C10H11NO2	(R)-4-benzyl-2-oxazolidinone	102029-44-7	498.15	43.706	2	19452	C10H12N2O3	N-nitrosophenacetin	---	449.65	39.068	2
19318	C10H11NO2	(S)-4-benzyl-2-oxazolidinone	90719-32-7	498.15	43.706	2	19453	C10H12N2O3	3,4-xylyl-N-methylcarbamate, nitrosated	---	449.65	39.068	2
19319	C10H11NO2	homoveratronitrile	93-17-4	498.15	43.706	2	19469	C10H12N4O2	1-allyltheobromine	2530-99-6	307.15	25.714	1,2
19320	C10H11NO2	(4S,5R)-(-)-4-methyl-5-phenyl-2-oxazolidinone	16251-45-9	498.15	43.706	2	19479	C10H12N4O6	2,2'-((7-nitro-4-benzofurazazanyl)imino)bise*	58131-55-8	321.65	27.051	1,2
19321	C10H11NO2	(4R,5S)-(+)-4-methyl-5-phenyl-2-oxazolidinone	77943-39-6	498.15	43.706	2	19480	C10H12N5O6P	CAMP	60-92-4	329.27	27.756	1,2
19322	C10H11NO2	3'-(N-acetylamino)acetophenone	7463-31-2	498.15	43.706	2	19484	C10H12O	anethole	104-46-1	508.45	47.730	1,2
19323	C10H11NO2	L-1,2,3,4-tetrahydroisoquinoline-3-carboxyli*	74163-81-8	498.15	43.706	2	19485	C10H12O	alpha-allylbenzenemethanol	936-58-3	501.65	44.043	1,2
19324	C10H11NO2	2-allyloxybenzamide	14520-53-7	498.15	43.706	1,2	19486	C10H12O	3,4-dihydro-2-methyl-2H-1-benzopyran	13030-26-7	497.65	43.658	1,2
19326	C10H11NO3	N-benzoyl-DL-alanine	1205-02-3	504.40	44.307	2	19487	C10H12O	3,4-dihydro-3-methyl-2H-1-benzopyran	70401-56-8	502.76	44.150	2
19327	C10H11NO3	ethyl oxo(phenylamino)acetate	1457-85-8	553.15	49.014	1,2	19488	C10H12O	3,4-dihydro-6-methyl-2H-1-benzopyran	3722-74-5	507.15	44.572	1,2
19328	C10H11NO3	4-oxo-4-(phenylamino)butanoic acid	102-14-7	504.40	44.307	2	19489	C10H12O	3,4-dihydro-7-methyl-2H-1-benzopyran	3722-73-4	502.76	44.150	2
19330	C10H11NO3	methyl 2-acetamidobenzoate	2719-08-6	504.40	44.307	2	19490	C10H12O	gamma-methylenebenzenepropanol	3174-83-2	502.76	44.150	2
19331	C10H11NO3	N-methylhippuric acid	2568-34-5	504.40	44.307	2	19491	C10H12O	3-phenyl-2-buten-1-ol	1504-54-7	502.76	44.150	2
19332	C10H11NO3	3-methylhippuric acid	27115-49-7	504.40	44.307	2	19492	C10H12O	alpha-vinyl-alpha-methylbenzenemethanol	6051-52-1	502.76	44.150	2
19333	C10H11NO3	4-methylhippuric acid	27115-50-0	504.40	44.307	2	19493	C10H12O	allyl 3-methylphenyl ether	1758-10-7	485.65	42.507	1,2
19334	C10H11NO3	2-methylhippuric acid	42013-20-7	504.40	44.307	2	19494	C10H12O	allyl 4-methylphenyl ether	23431-48-3	487.65	42.699	1,2
19335	C10H11NO3	3,4,5-trimethoxybenzonitrile	1885-35-4	455.65	39.640	1,2	19495	C10H12O	allyl o-tolyl ether	936-72-1	479.65	41.932	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
19496	C10H12O	(2-ethoxyvinyl)benzene	17655-74-2	497.65	43.658	1,2	19576	C10H12O2	beta-methylbenzenepropanoic acid, (±)	772-17-8	504.61	44.327	2
19497	C10H12O	1-methoxy-2-(1-propenyl)benzene	10577-44-3	495.15	43.418	1,2	19577	C10H12O2	2-methyl-5-isopropyl-2,5-cyclohexadiene-1,4-*	490-91-5	505.15	44.379	1,2
19498	C10H12O	trans-1-methoxy-4-(1-propenyl)benzene	4180-23-8	507.15	44.572	1,2	19578	C10H12O2	methyl 3-phenylpropanoate	103-25-3	511.65	45.005	1,2
19499	C10H12O	1-methoxy-4-(2-propenyl)benzene	140-67-0	488.65	42.795	1,2	19579	C10H12O2	phenyl butanoate	4346-18-3	498.15	43.706	1,2
19500	C10H12O	1-(2,4-dimethylphenyl)ethanone	89-74-7	501.15	43.995	1,2	19580	C10H12O2	2-phenyl-1,3-dioxane	772-01-0	526.15	46.402	1,2
19501	C10H12O	1-(2,5-dimethylphenyl)ethanone	2142-73-6	505.65	44.427	1,2	19581	C10H12O2	4-phenyl-1,3-dioxane	772-00-9	520.15	45.824	1,2
19502	C10H12O	1-(3,4-dimethylphenyl)ethanone	3637-01-2	519.65	45.775	1,2	19582	C10H12O2	2-phenylethyl acetate	103-45-7	505.75	44.437	1,2
19503	C10H12O	1-(2-methylphenyl)-1-propanone	2040-14-4	492.65	43.178	1,2	19583	C10H12O2	5-propyl-1,3-benzodioxole	94-58-6	501.15	43.995	1,2
19504	C10H12O	1-(3-methylphenyl)-1-propanone	51772-30-6	508.15	44.668	1,2	19584	C10H12O2	2-propylbenzoic acid	2438-03-1	546.15	48.336	1,2
19505	C10H12O	1-(4-methylphenyl)-1-propanone	5337-93-9	509.15	44.764	1,2	19585	C10H12O2	2,3,5,6-tetramethyl-2,5-cyclohexadiene-1,4-d*	527-17-3	504.61	44.327	2
19506	C10H12O	2-methyl-1-phenyl-1-propanone	611-70-1	493.15	43.226	1,2	19586	C10H12O2	thujic acid	499-89-8	504.61	44.327	2
19507	C10H12O	1-phenyl-1-butanone	495-40-9	501.65	44.043	1,2	19587	C10H12O2	(S)-(+)-2,3,7,7a-tetrahydro-7a-methyl-1H-ind*	17553-86-5	504.61	44.327	2
19508	C10H12O	1-phenyl-2-butanone	1007-32-5	501.15	43.995	1,2	19588	C10H12O2	2-benzyl-1,3-dioxolane	101-49-5	504.61	44.327	2
19509	C10H12O	4-phenyl-2-butanone	2550-26-7	506.65	44.523	1,2	19589	C10H12O2	benzyl (R)-(-)-glycidyl ether	14618-80-5	504.61	44.327	2
19510	C10H12O	4-isopropylbenzaldehyde	122-03-2	508.65	44.716	1,2	19590	C10H12O2	benzyl (S)-(+)-glycidyl ether	16495-13-9	504.61	44.327	2
19511	C10H12O	2-methylbenzenepropanal	19564-40-0	502.76	44.150	2	19591	C10H12O2	1,5-dihydroxy-1,2,3,4-tetrahydronaphthalene	40771-26-4	504.61	44.327	2
19512	C10H12O	4-methylbenzenepropanal	5406-12-2	496.15	43.514	1,2	19592	C10H12O2	2,5-dimethyl-4-methoxybenzaldehyde	6745-75-1	421.15	36.363	1,2
19513	C10H12O	2,4,6-trimethylbenzaldehyde	487-68-3	511.65	45.005	1,2	19593	C10H12O2	4'-ethoxyacetophenone	1676-63-7	541.65	47.900	1,2
19514	C10H12O	2-methyl-6-allylphenol	3354-58-3	505.15	44.379	1,2	19594	C10H12O2	glycidyl 2-methylphenyl ether	2210-79-9	407.65	35.087	1,2
19515	C10H12O	4-methyl-2-allylphenol	6628-06-4	510.15	44.860	1,2	19595	C10H12O2	2'-hydroxy-4',5'-dimethylacetophenone	36436-65-4	504.61	44.327	2
19516	C10H12O	4-methyl-2-(1-propenyl)phenol	53889-94-4	502.76	44.150	2	19596	C10H12O2	2-hydroxy-2-methylpropiophenone	7473-98-5	504.61	44.327	2
19517	C10H12O	1,2,3,4-tetrahydro-1-naphthalenol	529-33-9	528.15	46.595	1,2	19597	C10H12O2	4-(4-hydroxyphenyl)-2-butanone	5471-51-2	504.61	44.327	2
19518	C10H12O	5,6,7,8-tetrahydro-1-naphthalenol	529-35-1	539.15	47.658	1,2	19598	C10H12O2	4-isopropoxybenzaldehyde	18962-05-5	504.61	44.327	2
19519	C10H12O	5,6,7,8-tetrahydro-2-naphthalenol	1125-78-6	548.65	48.578	1,2	19599	C10H12O2	1-methoxy-2-indanol	56175-44-1	420.15	36.268	1,2
19520	C10H12O	1,2,3,4-tetrahydro-2-naphthol	530-91-6	502.76	44.150	2	19600	C10H12O2	2-methoxyphenylacetone	5211-62-1	504.61	44.327	2
19521	C10H12O	allyl benzyl ether	14593-43-2	477.65	41.741	1,2	19601	C10H12O2	4'-methoxypropiophenone	121-97-1	547.15	48.432	1,2
19522	C10H12O	a-cyclopropylbenzyl alcohol	1007-03-0	502.76	44.150	2	19602	C10H12O2	a-methylbenzyl acetate	93-92-5	504.61	44.327	2
19523	C10H12O	5,6-dimethyl-4,7-dihydroisobenzofuran	---	502.76	44.150	2	19603	C10H12O2	methyl 3,5-dimethylbenzoate	25081-39-4	512.65	45.101	1,2
19524	C10H12O	4-ethoxystyrene	5459-40-5	502.76	44.150	2	19604	C10H12O2	(S)-(+)-2-phenylbutyric acid	4286-15-1	504.61	44.327	2
19525	C10H12O	4'-ethylacetophenone	937-30-4	512.05	45.043	1,2	19605	C10H12O2	(±)-3-phenylbutyric acid	4593-90-2	504.61	44.327	2
19526	C10H12O	5-methoxyindan	5111-69-3	502.76	44.150	2	19606	C10H12O2	(R)-(-)-2-phenylbutyric acid	938-79-4	504.61	44.327	2
19527	C10H12O	3-methylphenylacetone	18826-61-4	502.76	44.150	2	19607	C10H12O2	(R)-(+)-4-phenyl-1,3-dioxane	107796-29-2	523.65	46.161	1,2
19528	C10H12O	4-methylphenylacetone	2096-86-8	502.76	44.150	2	19608	C10H12O2	(S)-(-)-4-phenyl-1,3-dioxane	107796-30-5	523.65	46.161	1,2
19529	C10H12O	2-methylphenylacetone	51052-00-7	502.76	44.150	2	19609	C10H12O2	4-propoxybenzaldehyde	5736-85-6	402.15	34.568	1,2
19530	C10H12O	trans-2-methyl-3-phenyl-2-propen-1-ol	1504-55-8	502.76	44.150	2	19610	C10H12O2	4-propylbenzoic acid	2438-05-3	504.61	44.327	2
19531	C10H12O	2-methyl-2-propenyl phenyl ether	5820-22-4	448.65	38.973	1,2	19611	C10H12O2	2-(p-tolyl)propionic acid	938-94-3	504.61	44.327	2
19532	C10H12O	3-phenylbutyraldehyde	16251-77-7	502.76	44.150	2	19612	C10H12O2	1,2,3,4-tetrahydronaphthalene hydroperoxide	26447-24-5	504.61	44.327	2
19533	C10H12O	p-propylbenzaldehyde	28785-06-0	509.65	44.812	1,2	19613	C10H12O2	b-thujaplicin	499-44-5	504.61	44.327	2
19534	C10H12O	(R)-(-)-1,2,3,4-tetrahydro-1-naphthol	23357-45-1	502.76	44.150	2	19614	C10H12O2	2,4,6-trimethylbenzoic acid	480-63-7	504.61	44.327	2
19535	C10H12O	4-(epoxyethyl)-1,2-xylene	1855-36-3	502.76	44.150	2	19615	C10H12O2	3-bicyclo[2.2.1]hept-5-en-2-yl-2-propenoic a*	15222-64-7	413.15	35.606	1,2
19536	C10H12O	hydroxydihydrocyclopentadiene	63139-69-5	502.76	44.150	2	19616	C10H12O2	2,4-dimethylphenylacetic acid	6331-04-0	504.61	44.327	2
19537	C10H12O	cis-p-propenylanisole	25679-28-1	502.76	44.150	2	19617	C10H12O2	4-ethenyl-1,2-dimethoxybenzene	6380-23-0	504.61	44.327	2
19538	C10H12O	2-(p-tolyl)propionic aldehyde	99-72-9	502.76	44.150	2	19618	C10H12O2	3-(1-methylethyl)benzoic acid	5651-47-8	504.61	44.327	2
19539	C10H12O2	4-allyl-2-methoxyphenol	97-53-0	526.35	46.422	1,2	19619	C10H12O2	2,3,4-trimethylbenzoic acid	1076-47-7	504.61	44.327	2
19540	C10H12O2	benzenebutanoic acid	1821-12-1	563.15	49.984	1,2	19620	C10H12O2	3,4,5-trimethylbenzoic acid	1076-88-6	504.61	44.327	2
19541	C10H12O2	benzyl propanoate	122-63-4	494.15	43.322	1,2	19621	C10H12O2	2,3,5-trimethylbenzoic acid	2437-66-3	504.61	44.327	2
19542	C10H12O2	2,4-dimethylphenyl acetate	877-53-2	499.15	43.802	1,2	19622	C10H12O2	2,3,6-trimethylbenzoic acid	2529-36-4	504.61	44.327	2
19543	C10H12O2	2,5-dimethylphenyl acetate	877-48-5	510.15	44.860	1,2	19623	C10H12O2	2,4,5-trimethylbenzoic acid	528-90-5	504.61	44.327	2
19544	C10H12O2	3,4-dimethylphenyl acetate	22618-23-1	508.15	44.668	1,2	19624	C10H12O2	bicyclopentadiene dioxide	81-21-0	504.61	44.327	2
19545	C10H12O2	3,5-dimethylphenyl acetate	877-82-7	510.15	44.860	1,2	19625	C10H12O2	glycidyl p-tolyl ether	2186-24-5	504.61	44.327	2
19546	C10H12O2	2-ethoxy-1-phenylethanone	14869-39-7	516.65	45.486	1,2	19626	C10H12O2	hydrocinnamyl formate	104-64-3	504.61	44.327	2
19547	C10H12O2	alpha-ethylbenzeneacetic acid	90-27-7	544.15	48.142	1,2	19627	C10H12O2	1'-hydroxyestragole	51410-44-7	504.61	44.327	2
19548	C10H12O2	ethyl 2-methylbenzoate	87-24-1	500.15	43.899	1,2	19628	C10H12O2	4-methoxy-3-methylacetophenone	10024-90-5	504.61	44.327	2
19549	C10H12O2	ethyl 3-methylbenzoate	120-33-2	507.15	44.572	1,2	19629	C10H12O2	methyl phenylcarbinyl acetate	93-92-5	390.15	33.438	1,2
19550	C10H12O2	ethyl 4-methylbenzoate	94-08-6	505.15	44.379	1,2	19630	C10H12O2	4-methyl-2-phenyl-m-dioxolane	2568-25-4	504.61	44.327	2
19551	C10H12O2	isopropyl benzoate	939-48-0	489.15	42.843	1,2	19631	C10H12O2	g-thujaplicin	672-76-4	504.61	44.327	2
19552	C10H12O2	methyl 2,4-dimethylbenzoate	23617-71-2	505.65	44.427	1,2	19632	C10H12O2	p-xylyl acetate	2216-45-7	504.61	44.327	2
19553	C10H12O2	propyl benzoate	2315-68-6	484.15	42.363	1,2	19633	C10H12O3	3,4-dimethoxybenzeneacetaldehyde	5703-21-9	522.10	46.012	2
19554	C10H12O2	ethyl phenylacetate	101-97-3	500.15	43.899	1,2	19634	C10H12O3	1-(3,4-dimethoxyphenyl)ethanone	1131-62-0	560.15	49.692	1,2
19555	C10H12O2	1-(2-hydroxy-3-methylphenyl)-1-propanone	3338-15-6	504.61	44.327	2	19635	C10H12O3	4-ethoxy-3-methoxybenzaldehyde	120-25-2	522.10	46.012	2
19556	C10H12O2	1-(2-hydroxy-4-methylphenyl)-1-propanone	2886-52-4	504.61	44.327	2	19636	C10H12O3	ethyl alpha-hydroxybenzeneacetate, (±)	4358-88-7	527.15	46.499	1,2
19557	C10H12O2	1-(2-hydroxy-5-methylphenyl)-1-propanone	938-45-4	504.61	44.327	2	19637	C10H12O3	ethyl alpha-hydroxyphenylacetate, (R)	10606-72-1	522.10	46.012	2
19558	C10H12O2	1-(2-hydroxyphenyl)-1-butanone	2887-61-8	504.61	44.327	2	19638	C10H12O3	ethyl 2-methoxybenzoate	7335-26-4	534.15	47.175	1,2
19559	C10H12O2	2-hydroxy-1-phenyl-1-butanone	16183-46-3	504.61	44.327	2	19639	C10H12O3	ethyl 3-methoxybenzoate	10259-22-0	533.65	47.127	1,2
19560	C10H12O2	4-hydroxy-1-phenyl-1-butanone	39755-03-8	504.61	44.327	2	19640	C10H12O3	ethyl 4-methoxybenzoate	94-30-4	542.65	47.997	1,2
19561	C10H12O2	isoeugenol	97-54-1	539.15	47.658	1,2	19641	C10H12O3	ethyl phenoxyacetate	2555-49-9	520.15	45.824	1,2
19562	C10H12O2	2-isopropylbenzoic acid	2438-04-2	504.61	44.327	2	19642	C10H12O3	4-(3-hydroxy-1-propenyl)-2-methoxyphenol	458-35-5	522.10	46.012	2
19563	C10H12O2	4-isopropylbenzoic acid	536-66-3	504.61	44.327	2	19643	C10H12O3	isopropyl 2-hydroxybenzoate	607-85-2	511.15	44.956	1,2
19564	C10H12O2	2-methoxy-5-allylphenol	501-19-9	526.65	46.451	1,2	19644	C10H12O3	4-methoxybenzyl acetate	104-21-2	543.15	48.045	1,2
19565	C10H12O2	2-methoxy-6-allylphenol	579-60-2	523.65	46.161	1,2	19645	C10H12O3	2-phenoxybutanoic acid, (R)	19128-84-8	531.15	46.885	1,2
19566	C10H12O2	1-(3-methoxyphenyl)-1-propanone	37951-49-8	532.15	46.982	1,2	19646	C10H12O3	2-phenyl-1,3-dioxolane-4-methanol	1708-39-0	522.10	46.012	2
19567	C10H12O2	1-(3-methoxyphenyl)-2-propanone	3027-13-2	532.15	46.982	1,2	19647	C10H12O3	propyl 3-(2-furyl)acrylate	623-22-3	522.10	46.012	2
19568	C10H12O2	1-(4-methoxyphenyl)-2-propanone	122-84-9	541.15	47.852	1,2	19648	C10H12O3	propyl 2-hydroxybenzoate	607-90-9	512.15	45.053	1,2
19569	C10H12O2	1-(methoxyphenyl)-2-propanone	31116-84-4	541.15	47.852	1,2	19649	C10H12O3	propyl 4-hydroxybenzoate	94-13-3	522.10	46.012	2
19570	C10H12O2	2-methoxy-1-phenyl-1-propanone	6493-83-0	504.61	44.327	2	19650	C10H12O3	benzyl (S)-(-)-lactate	56777-24-3	522.10	46.012	2
19571	C10H12O2	3-methoxy-1-phenyl-1-propanone	55563-72-9	504.61	44.327	2	19651	C10H12O3	2',4'-dihydroxy-3'-methylpropiophenone	63876-46-0	522.10	46.012	2
19572	C10H12O2	2-methoxy-6-(1-propenyl)phenol	1076-55-7	540.65	47.803	1,2	19652	C10H12O3	2',5'-dimethoxyacetophenone	1201-38-3	429.65	37.168	1,2
19573	C10H12O2	cis-2-methoxy-4-(1-propenyl)phenol	5912-86-7	504.61	44.327	2	19653	C10H12O3	2',6'-dimethoxyacetophenone	2040-04-2	408.65	35.181	1,2
19574	C10H12O2	trans-2-methoxy-4-(1-propenyl)phenol	5932-68-3	504.61	44.327	2	19654	C10H12O3	3',5'-dimethoxyacetophenone	39151-19-4	563.65	50.032	1,2
19575	C10H12O2	alpha-methylbenzenepropanoic acid	1009-67-2	545.15	48.239	1,2	19655	C10H12O3	2',4'-dimethoxyacetophenone	829-20-9	560.70	49.746	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
19656	C10H12O3	3,5-dimethyl-p-anisic acid	21553-46-8	522.10	46.012	2	19766	C10H13N	1,2,3,4-tetrahydro-2-naphthylamine	2954-50-9	579.65	51.587	1,2
19657	C10H12O3	2,3-epoxypropyl-4'-methoxyphenyl ether	2211-94-1	522.10	46.012	2	19767	C10H13NO	1-[3-(dimethylamino)phenyl]ethanone	18992-80-8	488.89	42.818	2
19658	C10H12O3	4-ethoxyphenylacetic acid	4919-33-9	522.10	46.012	2	19768	C10H13NO	N-(2,4-dimethylphenyl)acetamide	2050-43-3	488.89	42.818	2
19659	C10H12O3	ethyl (S)-(+)-mandelate	13704-09-1	522.10	46.012	2	19769	C10H13NO	alpha-ethylbenezeneacetamide	90-26-6	488.89	42.818	2
19660	C10H12O3	ethyl mandelate	774-40-3	527.15	46.499	1,2	19770	C10H13NO	N-ethyl-N-phenylacetamide	529-65-7	533.15	47.078	1,2
19661	C10H12O3	ethyl 4-methoxycarbonylbenzoylacetate	79322-76-2	522.10	46.012	2	19771	C10H13NO	N-methyl-N-(2-methylphenyl)acetamide	573-26-2	533.15	47.078	1,2
19662	C10H12O3	ethyl 5-methylsalicylate	34265-58-2	524.15	46.209	1,2	19772	C10H13NO	N-phenylbutanamide	1129-50-6	488.89	42.818	2
19663	C10H12O3	4-hydroxy-3-methoxyphenylacetone	2503-46-0	522.10	46.012	2	19773	C10H13NO	1,2,3,4-tetrahydro-6-methoxyquinoline	120-15-0	557.15	49.401	1,2
19664	C10H12O3	4-isopropoxybenzoic acid	13205-46-4	522.10	46.012	2	19774	C10H13NO	N,N,4-trimethylbenzamide	14062-78-3	488.89	42.818	2
19665	C10H12O3	3-(2-methoxyphenyl)propionic acid	6342-77-4	522.10	46.012	2	19775	C10H13NO	(S)-(-)-N-acetyl-1-methylbenzylamine	19144-86-6	488.89	42.818	2
19666	C10H12O3	methyl 4-ethoxybenzoate	23676-08-6	522.10	46.012	2	19776	C10H13NO	(R)-(+)-N-acetyl-1-methylbenzylamine	36283-44-0	488.89	42.818	2
19667	C10H12O3	methyl 3-(4-hydroxyphenyl)propionate	5597-50-2	522.10	46.012	2	19777	C10H13NO	N-acetyl-2-phenylethylamine	877-95-2	488.89	42.818	2
19668	C10H12O3	methyl 4-methoxyphenylacetate	23786-14-3	537.25	47.474	1,2	19778	C10H13NO	2',6'-dimethylacetanilide	2198-53-0	488.89	42.818	2
19669	C10H12O3	2-phenoxybutyric acid	13794-14-4	531.15	46.885	1,2	19779	C10H13NO	1-methoxybicyclo[2.2.2]oct-5-ene-2-carbonitr*	38258-92-3	488.89	42.818	2
19670	C10H12O3	4-propoxybenzoic acid	5438-19-7	522.10	46.012	2	19780	C10H13NO	4-phenylmorpholine	92-53-5	537.10	47.460	1,2
19671	C10H12O3	2-phenoxyethyl acetate	6192-44-5	522.10	46.012	2	19781	C10H13NO	(S)-1,2,3,4-tetrahydroisoquinolylmethan-3-ol	---	488.89	42.818	2
19672	C10H12O3	anisyl acetate	104-21-2	522.10	46.012	2	19782	C10H13NO	benzamide, N,N,3-trimethyl-	6935-65-5	488.89	42.818	2
19673	C10H12O3	2',3'-epoxyeugenol	53940-49-1	522.10	46.012	2	19783	C10H13NO	3',4'-acetoxylidide	2198-54-1	488.89	42.818	2
19674	C10H12O3	1'-hydroxy-estragole-2',3'-oxide	730771-71-0	522.10	46.012	2	19784	C10H13NO	4'-aminobutyrophenone	1688-71-7	488.89	42.818	2
19675	C10H12O4	diallyl maleate	999-21-3	520.00	54.209	1,2	19785	C10H13NO	7-ethylidenecyclopent(b)oxireno(c)pyridine h*	38704-36-8	488.89	42.818	2
19676	C10H12O4	cantharidin	56-25-7	557.71	49.456	2	19786	C10H13NO	methyl 1,4,5,6-tetrahydro-2-methylcyclopenta*	22056-53-7	396.15	34.003	1,2
19677	C10H12O4	diallyl fumarate	2807-54-7	557.71	49.456	2	19787	C10H13NO	a-phenyl-1-aziridineethanol	17918-11-5	488.89	42.818	2
19678	C10H12O4	ethyl 2,4-dihydroxy-6-methylbenzoate	2524-37-0	557.71	49.456	2	19788	C10H13NO	4-valerylpyridine	1701-73-1	376.65	32.171	1,2
19679	C10H12O4	ethyl 4-hydroxy-3-methoxybenzoate	617-05-0	565.15	50.178	1,2	19790	C10H13NO2	benzenepropanol carbamate	673-31-4	504.48	44.315	2
19680	C10H12O4	methyl 3,4-dimethoxybenzoate	2150-38-1	556.15	49.304	1,2	19791	C10H13NO2	1-tert-butyl-3-nitrobenzene	23132-52-7	527.15	46.499	1,2
19681	C10H12O4	3',5'-dimethoxy-4'-hydroxyacetophenone	2478-38-8	557.71	49.456	2	19792	C10H13NO2	5-butyl-2-pyridinecarboxylic acid	536-69-6	504.48	44.315	2
19682	C10H12O4	(2,5-dimethoxyphenyl)acetic acid	1758-25-4	557.71	49.456	2	19793	C10H13NO2	N-(2-ethoxyphenyl)acetamide	581-08-8	504.48	44.315	2
19683	C10H12O4	(3,5-dimethoxyphenyl)acetic acid	4670-10-4	557.71	49.456	2	19794	C10H13NO2	N-(4-ethoxyphenyl)acetamide	62-44-2	504.48	44.315	2
19684	C10H12O4	(3,4-dimethoxyphenyl)acetic acid	93-40-3	557.71	49.456	2	19795	C10H13NO2	ethyl N-benzylcarbamate	2621-78-5	503.15	44.187	1,2
19685	C10H12O4	ethyl isodehydracetate	3385-34-0	565.65	50.226	1,2	19796	C10H13NO2	ethyl 2-(methylamino)benzoate	35472-56-1	539.15	47.658	1,2
19686	C10H12O4	methyl 3,5-dimethoxybenzoate	2150-37-0	571.15	50.761	1,2	19797	C10H13NO2	ethyl N-phenylglycinate	2216-92-4	546.65	48.384	1,2
19687	C10H12O4	methyl 2,4-dimethoxybenzoate	2150-41-6	568.15	50.469	1,2	19798	C10H13NO2	N-(4-hydroxyphenyl)butanamide	101-91-7	504.48	44.315	2
19688	C10H12O4	2',4',5'-trihydroxybutyrophenone	1421-63-2	557.71	49.456	2	19799	C10H13NO2	isopropyl phenylcarbamate	122-42-9	504.48	44.315	2
19689	C10H12O4	2,3,4-trimethoxybenzaldehyde	2103-57-3	557.71	49.456	2	19800	C10H13NO2	1-methyl-4-isopropyl-2-nitrobenzene	943-15-7	504.48	44.315	2
19690	C10H12O4	2,4,5-trimethoxybenzaldehyde	4460-86-0	557.71	49.456	2	19801	C10H13NO2	propyl 4-aminobenzoate	94-12-2	504.48	44.315	2
19691	C10H12O4	2,4,6-trimethoxybenzaldehyde	830-79-5	557.71	49.456	2	19802	C10H13NO2	(-)-2-amino-4-phenylbutyric acid	82795-51-5	504.48	44.315	2
19692	C10H12O4	3,4,5-trimethoxybenzaldehyde	86-81-7	557.71	49.456	2	19803	C10H13NO2	(+)-2-amino-4-phenylbutyric acid	943-73-7	504.48	44.315	2
19695	C10H12O5	diethyl 3,4-furandicarboxylate	30614-77-8	573.15	50.955	2	19804	C10H13NO2	3-amino-3-(p-tolyl)propionic acid	68208-18-4	504.48	44.315	2
19696	C10H12O5	propyl 3,4,5-trihydroxybenzoate	121-79-9	573.15	50.955	2	19805	C10H13NO2	butyl nicotinate	6938-06-3	504.48	44.315	2
19697	C10H12O5	2,4,5-trimethoxybenzoic acid	490-64-2	573.15	50.955	1,2	19806	C10H13NO2	3'-ethoxyacetanilide	591-33-3	504.48	44.315	2
19698	C10H12O5	3,4,5-trimethoxybenzoic acid	118-41-2	573.15	50.955	2	19807	C10H13NO2	N-methyl-N-phenylurethane	2621-79-6	516.65	45.486	1,2
19699	C10H12O5	methyl 4,5-dimethoxy-3-hydroxybenzoate	83011-43-2	573.15	50.955	2	19808	C10H13NO2	3,4-xylyl methylcarbamate	2425-10-7	504.48	44.315	2
19700	C10H12O5	methyl 3,5-dimethoxy-4-hydroxybenzoate	884-35-5	573.15	50.955	2	19809	C10H13NO2	1-butyl-4-nitrobenzene	20651-75-6	504.48	44.315	2
19701	C10H12O5	2,3,4-trimethoxybenzoic acid	573-11-5	573.15	50.955	2	19810	C10H13NO2	1-butyl-3-nitrobenzene	20651-76-7	504.48	44.315	2
19707	C10H13Br	1-bromo-4-tert-butylbenzene	3972-65-4	504.65	44.331	1,2	19811	C10H13NO2	N,N-dimethyl 4-methoxybenzamide	7291-00-1	504.48	44.315	2
19708	C10H13Br	2-bromo-1-methyl-4-isopropylbenzene	2437-76-5	507.45	44.600	1,2	19812	C10H13NO2	propyl N-phenylcarbamate	5532-90-1	504.48	44.315	2
19709	C10H13Br	1-bromo-4-butylbenzene	41492-05-1	516.95	45.515	1,2	19813	C10H13NO2	1-tert-butyl-4-nitrobenzene	1886-57-3	504.48	44.315	2
19710	C10H13Br	1-bromo-2,3,5,6-tetramethylbenzene	1646-53-3	509.68	44.815	2	19814	C10H13NO2	1-tert-butyl-2-nitrobenzene	3282-56-2	504.48	44.315	2
19715	C10H13BrO2	1-(4'-bromophenoxy)-1-ethoxyethane	39255-20-4	404.15	34.756	1,2	19815	C10H13NO2	carbamic acid a-methylphenethyl ester	709-90-0	504.48	44.315	2
19716	C10H13BrO2	1-(4-bromophenoxy)-1-ethoxyethane	90875-14-2	404.15	34.756	2	19816	C10H13NO2	3,5-dimethylphenyl-N-methylcarbamate	2655-14-3	394.15	33.814	1,2
19718	C10H13Cl	1-chloro-4-tert-butylbenzene	3972-56-3	486.15	42.555	1,2	19817	C10H13NO2	3'-hydroxybutyranilide	21556-79-6	504.48	44.315	2
19719	C10H13Cl	(2-chloro-1,1-dimethylethyl)benzene	515-40-2	496.15	43.514	1,2	19818	C10H13NO2	methylenedioxyamphetamine	4764-17-4	504.48	44.315	2
19720	C10H13Cl	2-chloro-1-methyl-4-isopropylbenzene	4395-79-3	489.65	42.891	1,2	19819	C10H13NO2	2-N-propoxybenzamide	59643-84-4	504.48	44.315	2
19721	C10H13Cl	2-chloro-4-methyl-1-isopropylbenzene	4395-80-6	489.15	42.843	1,2	19823	C10H13NO3	methyl 3-methoxy-2-(methylamino)benzoate	483-64-7	544.15	48.142	1,2
19722	C10H13Cl	a-2-chloroisodurene	1585-16-6	490.28	42.951	2	19824	C10H13NO3	1-(2-methylpropoxy)-2-nitrobenzene	56245-02-4	550.65	48.771	1,2
19723	C10H13Cl	1-chloro-4-phenylbutane	4830-93-7	490.28	42.951	2	19826	C10H13NO3	3-amino-3-(p-methoxyphenyl)propionic acid	5678-45-5	513.98	45.229	2
19724	C10H13ClN2	chlordimeform	6164-98-3	575.15	51.149	2	19828	C10H13NO3	N-z-ethanolamine	77987-49-6	513.98	45.229	2
19725	C10H13ClN2	1-(4-chlorophenyl)piperazine	38212-33-8	575.15	51.149	2	19831	C10H13NO3	L-tyrosine methyl ester	1080-06-4	513.98	45.229	2
19726	C10H13ClN2	1-(m-chlorophenyl)piperazine	6640-24-0	575.15	51.149	2	19832	C10H13NO3	butyl 4-nitrophenyl ether	7244-78-2	447.15	38.830	1,2
19727	C10H13ClN2	1-(4-chlorophenyl)piperazine dihydrochloride	38869-46-4	575.15	51.149	2	19833	C10H13NO3	N-hydroxy-p-acetophenetidide	19315-64-1	513.98	45.229	2
19728	C10H13ClN2	N'-methyl-N'-b-chloroethylbenzaldehyde hydra*	62037-49-4	575.15	51.149	1,2	19834	C10H13NO3	4-(2-morpholinyl)pyrocatechol	100370-71-6	513.98	45.229	2
19733	C10H13ClN2O3S	chloropropamide	94-20-2	575.15	51.149	2	19836	C10H13NO4	1,2,3-propanetriol 1-(4-aminobenzoate)	136-44-7	422.55	36.495	2
19734	C10H13ClN2O3S	chlorisopropamide	2281-78-9	575.15	51.149	1,2	19839	C10H13NO4	2-(N,N-bis(2-hydroxyethyl)amino)-1,4-benzoqu*	2158-76-1	422.55	36.495	2
19737	C10H13ClO	4-chloro-alpha,alpha-dimethylbenzeneethanol	5468-97-3	539.90	47.731	2	19840	C10H13NO4	L-dopa methyl ester	7101-51-1	372.95	31.824	1,2
19738	C10H13ClO	4-chloro-5-methyl-2-isopropylphenol	89-68-9	531.65	46.933	1,2	19841	C10H13NO4	N-(2-oxo-3,5,7-cycloheptatrien-1-yl)aminooxo*	77791-69-6	422.55	36.495	2
19739	C10H13ClO	4-phenoxybutyl chloride	2651-46-9	539.90	47.731	2	19842	C10H13NO4	3,4,5-trimethoxybenzamide	3086-62-2	472.15	41.215	1,2
19740	C10H13ClO	5-chlorocarvacrol	5665-94-1	548.15	48.529	1,2	19843	C10H13NO4S	4'-(2-hydroxyethylsulfonyl)acetanilide	27375-52-6	374.15	31.937	1,2
19745	C10H13Cl2N	N,N-bis(2-chloroethyl)aniline	553-27-5	437.15	37.880	1,2	19851	C10H13N3O3	nitrol	24458-48-8	340.15	28.765	1,2
19749	C10H13FN2O4	3'-deoxy-3'-fluorothymidine	25526-93-6	483.15	42.268	2	19852	C10H13N3O5S	4-((5-nitrofurfurylidene)amino)-3-methylthio*	23256-30-6	403.75	34.719	1,2
19753	C10H13I	2-iodo-1-methyl-4-isopropylbenzene	56739-95-8	540.00	47.740	2	19854	C10H13N5O2	2',3'-dideoxyadenosine	4097-22-7	387.15	33.156	1,2
19754	C10H13I	2-iodo-4-methyl-1-isopropylbenzene	4395-81-7	540.00	47.740	2	19855	C10H13N5O3	deoxyadenosine	958-09-8	359.65	30.581	1,2
19755	C10H13I	1-tert-butyl-4-iodobenzene	35779-04-5	540.00	47.740	2	19858	C10H13N5O4	9b-D-arabino furanosyl adenine	5536-17-4	532.15	46.982	1,2
19756	C10H13I	1-(4'-iodophenyl)butane	20651-57-4	540.00	47.740	2	19859	C10H13N5O4	3'-azido-3'-deoxythymidine	30516-87-1	353.15	29.974	1,2
19757	C10H13I	2,3,5,6-tetramethyliodobenzene	2100-25-6	540.00	47.740	2	19860	C10H13N5O4	2'-deoxyguanosine	961-07-9	377.65	32.265	1,2
19760	C10H13N	2-(3-pentenyl)pyridine	2057-43-4	489.15	42.843	1,2	19861	C10H13N5O4S	6-thioguanosine	85-31-4	371.15	31.656	1,2
19761	C10H13N	1-phenylpyrrolidine	4096-21-3	535.03	47.259	2	19863	C10H13N5O5	guanosine	118-00-3	598.65	53.439	2
19762	C10H13N	1,2,3,4-tetrahydro-1-methylquinoline	491-34-9	519.15	45.727	1,2	19864	C10H13N5O5	6-N-hydroxyadenosine	3414-62-8	598.65	53.439	1,2
19763	C10H13N	5,6,7,8-tetrahydro-1-naphthalenamine	2217-41-6	552.15	48.917	1,2	19865	C10H14	butylbenzene	104-51-8	456.46	40.372	1,2
19764	C10H13N	2,3-cycloheptenopyridine	7197-96-8	535.03	47.259	2	19866	C10H14	isobutylbenzene	538-93-2	445.94	38.730	1,2
19765	C10H13N	1,2,3,4-tetrahydro-1-naphthylamine	2217-40-5	535.03	47.259	2	19867	C10H14	sec-butylbenzene	135-98-8	446.48	39.116	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
19868	C10H14	tert-butylbenzene	98-06-6	442.30	38.442	1,2	19990	C10H14O	2-tert-butylphenol	88-18-6	497.23	45.334	1,2
19869	C10H14	cymene	25155-15-1	449.50	37.887	1,2	19991	C10H14O	3-tert-butylphenol	585-34-2	513.15	46.853	1,2
19870	C10H14	m-cymene	535-77-3	448.23	39.099	1,2	19992	C10H14O	4-tert-butylphenol	98-54-4	512.88	46.827	1,2
19871	C10H14	o-cymene	527-84-4	451.33	39.377	1,2	19993	C10H14O	2-methyl-3-propylphenol	66142-78-7	515.00	48.350	2
19872	C10H14	p-cymene	99-87-6	450.28	39.747	1,2	19994	C10H14O	2-methyl-4-propylphenol	18441-56-0	515.15	48.365	1,2
19873	C10H14	1-methyl-2-propylbenzene	1074-17-5	458.08	40.517	1,2	19995	C10H14O	2-methyl-5-propylphenol	499-75-2	515.00	48.350	2
19874	C10H14	1-methyl-3-propylbenzene	1074-43-7	455.13	40.248	1,2	19996	C10H14O	2-methyl-6-propylphenol	---	515.00	48.350	2
19875	C10H14	1-methyl-4-propylbenzene	1074-55-1	453.53	39.708	1,2	19997	C10H14O	3-methyl-2-propylphenol	3228-01-1	535.00	50.313	2
19876	C10H14	(S)-(1-methylpropyl)benzene	5787-28-0	457.10	40.345	2	19998	C10H14O	3-methyl-4-propylphenol	30388-40-0	535.00	50.313	2
19877	C10H14	diethylbenzene	25340-17-4	455.05	39.660	1,2	19999	C10H14O	3-methyl-5-propylphenol	36186-96-6	531.15	49.935	1,2
19878	C10H14	o-diethylbenzene	135-01-3	456.61	40.245	1,2	20000	C10H14O	4-methyl-2-propylphenol	4074-46-8	547.87	51.577	2
19879	C10H14	m-diethylbenzene	141-93-5	454.29	40.333	1,2	20001	C10H14O	4-methyl-3-propylphenol	---	547.87	51.577	2
19880	C10H14	p-diethylbenzene	105-05-5	456.94	40.584	1,2	20002	C10H14O	5-methyl-2-propylphenol	89-83-8	547.87	51.577	2
19881	C10H14	3-ethyl-o-xylene	933-98-2	467.11	41.636	1,2	20003	C10H14O	2-methyl-3-isopropylphenol	4371-48-6	547.43	51.047	2
19882	C10H14	4-ethyl-o-xylene	934-80-5	462.93	41.702	1,2	20004	C10H14O	2-methyl-4-isopropylphenol	1740-97-2	547.00	51.082	2
19883	C10H14	2-ethyl-m-xylene	2870-04-4	463.19	41.795	1,2	20005	C10H14O	2-methyl-5-isopropylphenol	499-75-2	510.15	47.422	1,2
19884	C10H14	4-ethyl-m-xylene	874-41-9	461.59	40.952	1,2	20006	C10H14O	2-methyl-6-isopropylphenol	3228-04-4	498.65	50.064	1,2
19885	C10H14	5-ethyl-m-xylene	934-74-7	456.93	40.727	1,2	20007	C10H14O	3-methyl-2-isopropylphenol	3228-01-1	501.15	46.548	1,2
19886	C10H14	2-ethyl-p-xylene	1758-88-9	459.98	40.796	1,2	20008	C10H14O	3-methyl-4-isopropylphenol	3228-02-2	510.00	47.407	2
19887	C10H14	1,2,3,4-tetramethylbenzene	488-23-3	478.25	45.020	1,2	20009	C10H14O	3-methyl-5-isopropylphenol	3228-03-3	514.15	47.810	1,2
19888	C10H14	1,2,3,5-tetramethylbenzene	527-53-7	471.15	42.609	1,2	20010	C10H14O	4-methyl-2-isopropylphenol	4427-56-9	501.15	46.548	1,2
19889	C10H14	1,2,4,5-tetramethylbenzene	95-93-2	469.99	42.476	1,2	20011	C10H14O	5-methyl-2-isopropylphenol	89-83-8	505.65	46.985	1,2
19890	C10H14	3,6-dimethyl-2,6-octadien-4-yne	3725-07-3	443.15	38.450	1,2	20012	C10H14O	2,3-diethylphenol	---	505.00	47.370	2
19891	C10H14	2,7-dimethyl-3,5-octadiyne	14813-68-4	457.10	39.778	2	20013	C10H14O	2,4-diethylphenol	936-89-0	501.15	46.993	1,2
19892	C10H14	1,2,3,4,4a,8a-hexahydronaphthalene	62690-62-4	470.15	41.024	1,2	20014	C10H14O	2,5-diethylphenol	876-20-0	500.00	46.881	2
19893	C10H14	1,9-decadiyne	1720-38-3	457.10	39.778	2	20015	C10H14O	2,6-diethylphenol	1006-59-3	491.15	46.014	1,2
19894	C10H14	4,6-decadiyne	16387-71-6	457.10	39.778	2	20016	C10H14O	3,4-diethylphenol	875-85-4	547.87	51.577	2
19895	C10H14AsCl2NO3	N,N-bis(2-chloroethyl)-p-arsanilic acid	5185-71-7	384.15	32.874	1,2	20017	C10H14O	3,5-diethylphenol	1197-34-8	521.15	48.954	1,2
19896	C10H14AsNO	p-arsenoso-N,N-diethylaniline	4164-06-1	461.65	40.212	1,2	20018	C10H14O	2,3-dimethyl-4-ethylphenol	---	510.00	47.782	2
19897	C10H14AsNO3	p-arsenoso-N,N-bis(2-hydroxyethyl)aniline	5185-80-8	471.65	41.167	1,2	20019	C10H14O	2,3-dimethyl-5-ethylphenol	---	510.00	47.782	2
19898	C10H14BeO4	beryllium acetylacetonate	10210-64-7	543.15	48.045	1,2	20020	C10H14O	2,3-dimethyl-6-ethylphenol	---	510.00	47.782	2
19899	C10H14BrN	4-bromo-N,N-diethylaniline	2052-06-4	543.15	48.045	1,2	20021	C10H14O	2,4-dimethyl-3-ethylphenol	62126-74-3	515.00	48.271	2
19901	C10H14ClN	4-chloro-N,N-diethylaniline	2873-89-4	525.15	46.306	1,2	20022	C10H14O	2,4-dimethyl-5-ethylphenol	18441-55-9	515.15	48.286	1,2
19902	C10H14ClN	3-chloro-2,6-diethylaniline	67330-62-5	525.15	46.306	2	20023	C10H14O	2,4-dimethyl-6-ethylphenol	2219-79-6	500.15	46.819	1,2
19903	C10H14ClN	N-ethyl-N-(2-chloroethyl)aniline	92-49-9	525.15	46.306	1,2	20024	C10H14O	2,5-dimethyl-3-ethylphenol	---	500.00	46.804	2
19904	C10H14ClN	1,2,3,4-tetrahydro-1-naphthylamine hydrochlo*	49800-23-9	525.15	46.306	2	20025	C10H14O	2,5-dimethyl-4-ethylphenol	32018-76-1	500.00	46.804	2
19905	C10H14ClN	p-chloro-N-methylamphetamine	1199-85-5	525.15	46.306	2	20026	C10H14O	2,5-dimethyl-6-ethylphenol	---	500.00	46.804	2
19906	C10H14ClN	chlorphentermine	461-78-9	525.15	46.306	2	20027	C10H14O	2,6-dimethyl-3-ethylphenol	---	500.00	46.804	2
19909	C10H14Cl2N2	N,N-bis(2-chloroethyl)-p-phenylenediamine	2067-58-5	478.90	41.861	1,2	20028	C10H14O	2,6-dimethyl-4-ethylphenol	10570-69-1	501.15	46.916	1,2
19910	C10H14Cl2N2O2S	N4,N4-bis(2-chloroethyl)sulfanilamide	2045-41-2	368.15	31.375	1,2	20029	C10H14O	3,4-dimethyl-2-ethylphenol	---	515.00	48.271	2
19911	C10H14Cl2O2	cyclopropanecarboxylic acid, 3-(2,2-dichloro*	59609-49-3	392.15	33.626	1,2	20030	C10H14O	3,4-dimethyl-5-ethylphenol	62126-75-4	515.15	48.286	1,2
19912	C10H14Cl2O4Sn	tin(iv) bis(acetylacetonate) dichloride	16919-46-3	475.15	41.502	1,2	20031	C10H14O	3,4-dimethyl-6-ethylphenol	2219-78-5	515.00	48.271	2
19914	C10H14Cl2Si	dichloromethyl(4-methylphenethyl)silane	63126-87-4	377.15	32.218	2	20032	C10H14O	3,5-dimethyl-2-ethylphenol	62126-76-5	535.00	50.231	2
19915	C10H14Cl2Si	methyl(2-phenylpropyl)dichlorosilane	13617-28-2	377.15	32.218	1,2	20033	C10H14O	3,5-dimethyl-4-ethylphenol	62126-77-6	532.15	49.951	1,2
19918	C10H14CrO4	bis(2,4-pentanedionato)chromium	---	443.15	38.450	1,2	20034	C10H14O	2,3,4,5-tetramethylphenol	488-70-0	533.15	49.968	1,2
19921	C10H14HgN2O8	mercury(ii) edta complex	12558-92-8	454.15	39.497	1,2	20035	C10H14O	2,3,4,6-tetramethylphenol	3238-38-8	523.15	48.990	1,2
19922	C10H14I2N2O2S	N4,N4-bis(2-iodoethyl)sulfanilamide	1669-83-6	473.15	41.310	1,2	20036	C10H14O	2,3,5,6-tetramethylphenol	527-35-5	521.15	48.794	1,2
19924	C10H14NO3	1-butyl-3-(2-furoyl)urea	64441-42-5	378.65	32.358	1,2	20037	C10H14O	2-butylphenol	3180-09-4	508.15	46.296	1,2
19925	C10H14NO4P	diethylphosphinic acid p-nitrophenyl ester	7531-39-7	399.15	34.285	1,2	20038	C10H14O	butyl phenyl ether	1126-79-0	483.15	42.268	1,2
19927	C10H14NO5PS	parathion	56-38-2	648.15	58.285	1,2	20039	C10H14O	(1,1-dimethylethoxy)benzene	6669-13-2	458.65	39.926	1,2
19928	C10H14NO5PS	O,O-diethyl-S-(4-nitrophenyl)thiophosphate	3270-86-8	648.15	58.285	2	20040	C10H14O	1-ethoxy-4-ethylbenzene	1585-06-4	483.15	42.268	1,2
19929	C10H14NO5PS	O,S-diethyl-O-(4-nitrophenyl)thiophosphate	597-88-6	648.15	58.285	2	20041	C10H14O	1-methoxy-4-propylbenzene	104-45-0	484.65	42.411	1,2
19930	C10H14NO5PS	phosphorothioic acid, O-isopropyl O-methyl O*	13955-12-9	648.15	58.285	2	20042	C10H14O	1-methyl-3-(1-methylethoxy)benzene	19177-04-9	468.15	40.833	1,2
19931	C10H14NO6P	paraoxon-ethyl	311-45-5	442.65	38.402	1,2	20043	C10H14O	(1-methylpropoxy)benzene	10574-17-1	467.65	40.785	1,2
19932	C10H14N2	butanal phenylhydrazone	940-54-5	547.45	48.461	2	20044	C10H14O	(2-methylpropoxy)benzene	1126-75-6	470.65	41.071	1,2
19933	C10H14N2	L-nicotine	54-11-5	520.15	45.824	1,2	20045	C10H14O	1-methyl-4-propoxybenzene	5349-18-8	483.55	42.306	1,2
19934	C10H14N2	1-phenylpiperazine	92-54-6	559.65	49.644	1,2	20046	C10H14O	carvone, (±)	22327-39-5	504.15	44.283	1,2
19935	C10H14N2	3-(2-piperidinyl)pyridine, (S)	494-52-0	549.15	48.626	1,2	20047	C10H14O	(S)-carvone	2244-16-8	504.15	44.283	1,2
19936	C10H14N2	4-(4-piperidinyl)pyridine	581-45-3	565.15	50.178	1,2	20048	C10H14O	2-cyclopentylidenecyclopentanone	825-25-2	503.64	44.234	2
19937	C10H14N2	anabasine	40774-73-0	543.15	48.045	1,2	20049	C10H14O	2-ethylbenzeneethanol	22545-12-6	522.85	46.084	1,2
19938	C10H14N2	N-ethyl-N-(2-cyanoethyl)aniline	148-87-8	547.45	48.461	2	20050	C10H14O	4-ethylbenzeneethanol	22545-13-7	523.15	46.113	1,2
19939	C10H14N2	metanicotine	538-79-4	547.45	48.461	2	20051	C10H14O	beta-ethylbenzeneethanol	2035-94-1	503.64	44.234	2
19941	C10H14N2O	N,N-diethyl-4-nitrosoaniline	120-22-9	553.15	49.014	2	20052	C10H14O	alpha-ethyl-alpha-methylbenzenemethanol, (R)	1006-06-0	484.15	42.363	1,2
19942	C10H14N2O	N,N-diethyl-3-pyridinecarboxamide	59-26-7	553.15	49.014	2	20053	C10H14O	4-isopropylbenzenemethanol	536-60-7	522.15	46.016	1,2
19943	C10H14N2O	N,N-diethyl-4-pyridinecarboxamide	530-40-5	553.15	49.014	2	20054	C10H14O	alpha-isopropylbenzenemethanol	611-69-8	496.15	43.514	1,2
19944	C10H14N2O	4-morpholinoaniline	2524-67-6	553.15	49.014	2	20055	C10H14O	alpha-methylbenzenepropanol	2344-70-9	512.15	45.053	1,2
19945	C10H14N2O2	N,N-diethyl-4-nitroaniline	2216-15-1	562.20	49.891	2	20056	C10H14O	gamma-methylbenzenepropanol	2722-36-3	503.64	44.234	2
19946	C10H14N2O2	(S)-2-amino-3-(benzylamino)propanoic acid	119830-32-9	562.20	49.891	2	20057	C10H14O	1-phenyl-2-methyl-2-propanol	100-86-7	488.15	42.747	1,2
19947	C10H14N2O2	a-(4-pyridyl 1-oxide)-N-tert-butyl-nitrone	66893-81-0	562.20	49.891	2	20058	C10H14O	alpha-propylbenzenemethanol, (R)	22144-60-1	505.15	44.379	1,2
19948	C10H14N2O2	N,N-diethyl-3-nitroaniline	2216-16-2	562.20	49.891	1,2	20059	C10H14O	4-methyl-1-isopropylbicyclo[3.1.0]hex-3-en-2*	24545-81-1	493.15	43.226	1,2
19949	C10H14N2O2	3-amino-4-ethoxyacetanilide	17026-81-2	562.20	49.891	2	20060	C10H14O	3-methyl-6-(1-methylethylidene)-2-cyclohexen*	491-09-8	503.64	44.234	2
19950	C10H14N2O2	N-nitrosoephedrine	17608-59-2	562.20	49.891	2	20061	C10H14O	2,7,7-trimethylbicyclo[3.1.1]hept-2-en-6-one	473-06-3	503.64	44.234	2
19982	C10H14O	3-butylphenol	4074-43-5	520.15	48.936	1,2	20062	C10H14O	2,6,6-trimethyl-2,4-cycloheptadien-1-one	503-93-5	483.15	42.268	1,2
19983	C10H14O	4-butylphenol	1638-22-8	521.15	49.034	1,2	20063	C10H14O	3-(4-methyl-3-pentenyl)furan	539-52-6	458.65	39.926	1,2
19984	C10H14O	2-isobutylphenol	4167-75-3	510.00	47.485	2	20064	C10H14O	4,5,6,7-tetrahydro-3,6-dimethylbenzofuran	494-90-6	503.64	44.234	2
19985	C10H14O	3-isobutylphenol	30749-25-8	510.00	47.485	2	20065	C10H14O	4-(1-methylvinyl)-1-cyclohexene-1-carboxalde*	2111-75-3	503.64	44.234	2
19986	C10H14O	4-isobutylphenol	4167-74-2	510.15	47.499	1,2	20066	C10H14O	4-(1-methylvinyl)-1-cyclohexene-1-carboxalde*	5503-12-8	511.15	44.956	1,2
19987	C10H14O	2-sec-butylphenol	89-72-5	501.15	46.624	1,2	20067	C10H14O	trans-pinocarvone, (-)	19890-00-7	503.64	44.234	2
19988	C10H14O	3-sec-butylphenol	3522-86-9	510.00	47.485	2	20068	C10H14O	safranal	116-26-7	503.64	44.234	2
19989	C10H14O	4-sec-butylphenol	99-71-8	515.25	47.995	1,2	20069	C10H14O	d-verbenone	18309-32-5	500.65	43.947	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
20071	C10H14O	butylphenol	28805-86-9	512.65	45.101	1,2	20151	C10H14O3S	propyl 4-toluenesulfonate	599-91-7	524.15	46.209	2
20072	C10H14O	(R)-(-)-carvone	6485-40-1	502.20	44.096	1,2	20152	C10H14O4	dimethyl 1-cyclohexene-1,4-dicarboxylate	22646-79-3	490.03	42.927	2
20073	C10H14O	carvone	99-49-0	503.20	44.192	1,2	20153	C10H14O4	ethylene glycol dimethacrylate	97-90-5	533.15	47.078	1,2
20074	C10H14O	2-cyclopenten-1-yl ether	15131-55-2	503.64	44.234	2	20154	C10H14O4	3-(2-methoxyphenoxy)-1,2-propanediol	93-14-1	490.03	42.927	2
20075	C10H14O	2,5-dimethylphenethylalcohol	6972-51-6	503.64	44.234	2	20155	C10H14O4	3,4,5-trimethoxybenzenemethanol	3840-31-1	490.03	42.927	2
20076	C10H14O	a-ethylphenethyl alcohol	701-70-2	398.65	34.238	1,2	20156	C10H14O4	1,4-butanediol diacrylate	1070-70-8	490.03	42.927	2
20077	C10H14O	4-isopropylanisole	4132-48-3	483.15	42.268	1,2	20157	C10H14O4	1,3-butanediol diacrylate	19485-03-1	490.03	42.927	2
20078	C10H14O	(R)-(+)-2-methyl-1-phenylpropanol	14898-86-3	503.64	44.234	2	20158	C10H14O4	(-)-camphanic acid	13429-83-9	490.03	42.927	2
20079	C10H14O	(1R)-(-)-myrtenal	564-94-3	493.65	43.274	1,2	20159	C10H14O4	diallyl succinate	925-16-6	378.15	32.311	1,2
20080	C10H14O	8-oxotricyclo(5.2.1.02,6)decane	13380-94-4	503.64	44.234	2	20160	C10H14O4	3,4-diisopropoxy-3-cyclobutene-1,2-dione	61699-62-5	490.03	42.927	2
20081	C10H14O	(S)-(-)-perillaldehyde	18031-40-8	377.65	32.265	1,2	20161	C10H14O4	dimethyl cis-1,2,3,6-tetrahydrophthalate	4841-84-3	490.03	42.927	2
20082	C10H14O	2-phenyl-2-butanol	1565-75-9	503.64	44.234	2	20162	C10H14O4	hydroquinone bis(2-hydroxyethyl) ether	104-38-1	465.65	40.594	1,2
20083	C10H14O	(S)-(-)-1-phenyl-1-butanol	22135-49-5	503.64	44.234	2	20163	C10H14O4	O,O'-bis(2-hydroxyethoxy)benzene	10234-40-9	490.03	42.927	2
20084	C10H14O	4-phenylbutanol	3360-41-6	503.64	44.234	2	20164	C10H14O4	2,3,4-trimethoxybenzyl alcohol	71989-96-3	490.03	42.927	2
20085	C10H14O	2,3,5-trimethylanisole	20469-61-8	487.65	42.699	1,2	20165	C10H14O4	adipic acid divinyl ester	4074-90-2	490.03	42.927	2
20086	C10H14O	2,4,6-trimethylbenzyl alcohol	4170-90-5	413.15	35.606	1,2	20166	C10H14O4	dimethyl tetrahydrophthalate	4336-19-0	583.15	51.928	1,2
20087	C10H14O	(1S)-(-)-verbenone	1196-01-6	500.65	43.947	1,2	20167	C10H14O4Mn	manganese acetylacetonate	14024-58-9	403.45	34.690	1,2
20088	C10H14O	carquejol	23734-06-7	503.64	44.234	2	20172	C10H14O5	3,4-di-o-acetyl-6-deoxy-l-glucal	34819-86-8	454.15	39.497	2
20089	C10H14O2	p-tert-butylcatechol	98-29-3	558.00	61.147	1,2	20173	C10H14O5	di(ethylene glycol) diacrylate	4074-88-8	454.15	39.497	1,2
20090	C10H14O2	2-butoxyphenol	39075-90-6	505.65	44.427	1,2	20174	C10H14O5	2-(methacryloyloxy)ethyl acetoacetate	21282-97-3	454.15	39.497	2
20091	C10H14O2	cyclohexyl 2-furyl ether	99172-57-3	514.35	45.264	2	20175	C10H14O5Ti	bis(acetylacetonato) titanium oxide	14024-64-7	432.65	37.453	1,2
20092	C10H14O2	1,2-diethoxybenzene	2050-46-6	492.15	43.130	1,2	20178	C10H14S	4-tert-butylthiophenol	2396-68-1	511.15	44.956	1,2
20093	C10H14O2	1,3-diethoxybenzene	2049-73-2	508.15	44.668	1,2	20179	C10H14S	2,4,6-trimethylbenzyl mercaptan	21411-42-7	511.15	44.956	2
20094	C10H14O2	1,4-diethoxybenzene	122-95-2	519.15	45.727	1,2	20181	C10H14S3	2,3-dimercaptopropyl-p-tolysulfide	27292-46-2	378.65	32.358	1,2
20095	C10H14O2	7,7-dimethyltricyclo[2.2.1.02,6]heptane-1-ca*	512-60-7	536.15	47.368	1,2	20187	C10H15BrO	1-(bromomethyl)-7,7-dimethylbicyclo[2.2.1]he*	64161-50-8	538.15	47.561	2
20096	C10H14O2	(2-ethoxyethoxy)benzene	19594-02-6	503.15	44.187	1,2	20188	C10H15BrO	3-bromo-1,7,7-trimethylbicyclo[2.2.1]heptan-*	10293-06-8	547.15	48.432	2
20097	C10H14O2	alpha-ethyl-4-methoxybenzenemethanol	5349-60-0	514.35	45.264	2	20189	C10H15BrO	3-bromo-d-camphor	76-29-9	547.15	48.432	1,2
20098	C10H14O2	4-isobutyl-1,3-benzenediol	18979-62-9	514.35	45.264	2	20195	C10H15N	N,N-dietyhlaniline	91-66-7	489.42	45.405	1,2
20099	C10H14O2	2-methyl-5-isopropyl-1,4-benzenediol	2217-60-9	563.15	49.984	1,2	20196	C10H15N	2,6-diethylaniline	579-66-8	508.65	58.933	1,2
20100	C10H14O2	3-methyl-6-isopropyl-1,2-benzenediol	490-06-2	540.15	47.755	1,2	20197	C10H15N	2-sec-butylaniline	55751-54-7	502.03	44.079	2
20101	C10H14O2	2,3,5,6-tetramethyl-1,4-benzenediol	527-18-4	514.35	45.264	2	20198	C10H15N	2-tert-butylaniline	6310-21-0	507.15	44.572	1,2
20102	C10H14O2	4-methoxybenzenepropanol	5406-18-8	514.35	45.264	2	20199	C10H15N	4-butylaniline	104-13-2	534.15	47.175	1,2
20103	C10H14O2	nepetalactone	490-10-8	514.35	45.264	2	20200	C10H15N	4-sec-butylaniline	30273-11-1	511.15	44.956	1,2
20104	C10H14O2	1-phenylbutane-1,3-diol	65469-88-7	514.35	45.264	2	20201	C10H15N	4-tert-butylaniline	769-92-6	514.15	45.245	1,2
20105	C10H14O2	2-phenyl-1,2-butanediol	90925-48-7	514.35	45.264	2	20202	C10H15N	N-sec-butylaniline	6068-69-5	498.15	43.706	1,2
20106	C10H14O2	3-phenyl-1,3-butanediol	7133-68-8	514.35	45.264	2	20203	C10H15N	N-tert-butylaniline	937-33-7	488.15	42.747	1,2
20107	C10H14O2	3-(phenylmethoxy)-1-propanol	4799-68-2	514.35	45.264	2	20204	C10H15N	N-butylaniline	1126-78-9	516.65	45.486	1,2
20108	C10H14O2	1,7,7-trimethylbicyclo[2.2.1]heptane-2,3-dio*	10334-26-6	514.35	45.264	2	20205	C10H15N	4-isobutylaniline	30090-17-6	510.15	44.860	1,2
20109	C10H14O2	4-n-butoxyphenol	122-94-1	514.35	45.264	2	20206	C10H15N	N-isobutylaniline	588-47-6	505.15	44.379	1,2
20110	C10H14O2	tert-butylhydroquinone	1948-33-0	557.15	49.401	1,2	20207	C10H15N	4-methyl-N-isopropylaniline	10436-75-6	493.15	43.226	1,2
20111	C10H14O2	DL-camphoroquinone	10373-78-1	514.35	45.264	2	20208	C10H15N	2-methyl-5-isopropylaniline	2051-53-8	514.15	45.245	1,2
20112	C10H14O2	(1S)-(+)-camphorquinone	2767-84-2	396.15	34.003	1,2	20209	C10H15N	4-methyl-N-propylaniline	54837-90-0	508.15	44.668	1,2
20113	C10H14O2	(1,1-dimethoxyethyl)benzene	4316-35-2	514.35	45.264	2	20210	C10H15N	2,3,4,5-tetramethylaniline	2217-45-0	532.65	47.030	1,2
20114	C10H14O2	cis-1,5-dimethylbicyclo[3.3.0]octane-3,7-dio*	21170-10-5	514.35	45.264	2	20211	C10H15N	2,3,4,6-tetramethylaniline	488-71-1	528.15	46.595	1,2
20115	C10H14O2	2-methoxy-4-propylphenol	2785-87-7	514.35	45.264	2	20212	C10H15N	N,N,2,6-tetramethylaniline	769-06-2	469.15	40.629	1,2
20116	C10H14O2	3-noradamantanecarboxylic acid	16200-53-6	514.35	45.264	2	20213	C10H15N	benzylisopropylamine	102-97-6	473.15	41.310	1,2
20117	C10H14O2	L(-)-perillic acid	7694-45-3	514.35	45.264	2	20214	C10H15N	alpha,alpha-dimethylbenzeneethanamine	122-09-8	478.15	41.789	1,2
20118	C10H14O2	phenylacetaldehyde dimethyl acetal	101-48-4	493.15	43.226	1,2	20215	C10H15N	N,beta-dimethylbenzeneethanamine	93-88-9	480.65	42.028	1,2
20119	C10H14O2	1,7,7-trimethylbicyclo[2.2.1]heptane-2,3-dio*	465-29-2	514.35	45.264	2	20216	C10H15N	(4-isopropylbenzyl)amine	4395-73-7	500.15	43.899	1,2
20120	C10H14O2	ethyl o-methoxybenzyl ether	64988-06-3	514.35	45.264	2	20217	C10H15N	methamphetamine	537-46-2	485.15	42.459	1,2
20121	C10H14O2	4-ethyiveratrole	5888-51-7	514.35	45.264	2	20218	C10H15N	alpha-methylbenzenepropanamine	22374-89-6	496.15	43.514	1,2
20122	C10H14O2	1-ethynylcyclohexanol acetate	5240-32-4	514.35	45.264	2	20219	C10H15N	alpha-propylbenzenemethanamine	2941-19-7	494.15	43.322	1,2
20123	C10H14O2	2-methyl-1-phenyl-2-propyl hydroperoxide	1944-83-8	514.35	45.264	2	20220	C10H15N	2-(1-ethylpropyl)pyridine	7399-50-0	468.55	40.871	1,2
20124	C10H14O2	perilla ketone	553-84-4	514.35	45.264	2	20221	C10H15N	4-(1-ethylpropyl)pyridine	35182-51-5	490.15	42.939	1,2
20125	C10H14O2	vitacampher	20231-45-2	514.35	45.264	2	20222	C10H15N	3,7-dimethyl-2,6-octadienenitrile, isomers	5146-66-7	502.03	44.079	2
20126	C10H14O3	butyl 2-furanacetate	4915-23-5	516.15	45.438	2	20223	C10H15N	N,N-dimethylphenethylamine	1126-71-2	480.40	42.004	1,2
20127	C10H14O3	2,5-dimethoxybenzeneethanol	7417-19-8	516.15	45.438	2	20224	C10H15N	(S)-(-)-N,N-dimethyl-1-phenylethylamine	17279-31-1	502.03	44.079	2
20128	C10H14O3	2-furanylmethyl pentanoate	36701-01-6	501.15	43.995	1,2	20225	C10H15N	(R)-(+)-N,N-dimethyl-1-phenylethylamine	19342-01-9	502.03	44.079	2
20129	C10H14O3	4-hydroxy-3-methoxybenzenepropanol	2305-13-7	516.15	45.438	2	20226	C10H15N	2-isopropyl-6-methylaniline	5266-85-3	511.15	44.956	1,2
20130	C10H14O3	3-(2-methylphenoxy)-1,2-propanediol	59-47-2	516.15	45.438	2	20227	C10H15N	(S)-(+)-1-methyl-3-phenylpropylamine	4187-57-9	502.03	44.079	2
20131	C10H14O3	pentyl 2-furancarboxylate	4996-48-9	516.15	45.438	2	20228	C10H15N	(R)-(-)-1-methyl-3-phenylpropylamine	937-52-0	502.03	44.079	2
20132	C10H14O3	1,8,8-trimethyl-3-oxabicyclo[3.2.1]octane-2,*	595-30-2	543.15	48.045	1,2	20229	C10H15N	4-phenylbutylamine	13214-66-9	502.03	44.079	2
20133	C10H14O3	p-anisaldehyde dimethyl acetal	2186-92-7	516.15	45.438	2	20230	C10H15N	3,5,N,N-tetramethylaniline	4913-13-7	500.15	43.899	1,2
20134	C10H14O3	(R)-(+)-1-benzylglycerol	56552-80-8	516.15	45.438	2	20231	C10H15N	aniline, p-isopropyl-N-methyl-,	6950-79-4	502.03	44.079	2
20135	C10H14O3	2-benzyloxy-1,3-propanediol	14690-00-7	516.15	45.438	2	20232	C10H15N	desoxyn	7632-10-2	574.65	51.101	1,2
20136	C10H14O3	(S)-3-benzyloxy-1,2-propanediol	17325-85-8	534.15	47.175	1,2	20233	C10H15N	N,N-dimethyl-a-methylbenzylamine	2449-49-2	502.03	44.079	2
20137	C10H14O3	2-(3,4-dimethoxyphenyl)ethanol	7417-21-2	516.15	45.438	2	20234	C10H15N	N-ethyl(a-methylbenzyl)amine	10137-87-8	502.03	44.079	2
20138	C10H14O3	4-ethoxy-3-methoxybenzyl alcohol	61813-58-9	459.15	39.973	1,2	20235	C10H15N	geranyl nitrile	5585-39-7	502.03	44.079	2
20139	C10H14O3	ethyl 2-methyl-4-oxo-2-cyclohexenecarboxylate	487-51-4	543.15	48.045	1,2	20236	C10H15NO	alpha-(1-aminopropyl)benzenemethanol	5897-76-7	515.82	45.406	2
20140	C10H14O3	ethyl 6-methyl-2-oxo-3-cyclohexene-1-carboxy*	3419-32-7	516.15	45.438	2	20237	C10H15NO	3-(diethylamino)phenol	91-68-9	549.15	48.626	1,2
20141	C10H14O3	(+)-hexahydro-3a-hydroxy-7a-methyl-1H-inden-*	33879-04-8	516.15	45.438	2	20238	C10H15NO	4-[2-(dimethylamino)ethyl]phenol	539-15-1	515.82	45.406	2
20142	C10H14O3	4-pentenoic anhydride	63521-92-6	516.15	45.438	2	20239	C10H15NO	ephedrine, (±)	90-81-3	515.82	45.406	2
20143	C10H14O3	phenoxyacetaldehyde dimethyl acetal	67874-68-4	516.15	45.438	2	20240	C10H15NO	d-ephedrine	321-98-2	498.15	43.706	1,2
20144	C10H14O3	phenyl carbitol	104-68-7	516.15	45.438	2	20241	C10H15NO	L-ephedrine	299-42-3	498.15	43.706	1,2
20145	C10H14O3	3,4,5-trimethoxytoluene	6443-69-2	516.15	45.438	2	20242	C10H15NO	4-[2-(methylamino)propyl]phenol	370-14-9	515.82	45.406	2
20146	C10H14O3	trimethyl orthobenzoate	707-07-3	516.15	45.438	2	20243	C10H15NO	2-[2-(1-methylethoxy)ethyl]pyridine	70715-19-4	515.82	45.406	2
20147	C10H14O3	bis(2,3-epoxycyclopentyl) ether	2386-90-5	516.15	45.438	2	20244	C10H15NO	cis-3-acetyl-2,2-dimethylcyclobutane acetoni*	28353-00-6	515.82	45.406	2
20148	C10H14O3	3-cyclohexyl-4-hydroxy-2(5H)furanone	78128-81-1	516.15	45.438	2	20245	C10H15NO	(1S,3S)-3-acetyl-2,2-dimethylcyclobutaneacet*	39863-94-0	515.82	45.406	2
20149	C10H14O3	ethyl-3-oxatricyclo-(3.2.1.02,4)octane-6-car*	97-81-4	516.15	45.438	2	20246	C10H15NO	2-amino-4-tert-butylphenol	1199-46-8	515.82	45.406	2
20150	C10H14O3S	sec-butyl benzenesulfonate	103275-78-1	524.15	46.209	2	20247	C10H15NO	N-benzyl-N-methylethanolamine	101-98-4	515.82	45.406	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
20248	C10H15NO	4-butoxyaniline	4344-55-2	515.82	45.406	2	20362	C10H16	dimethyloctatriene	29714-87-2	439.95	38.146	2
20249	C10H15NO	(1R,3S)-2,2-dimethyl-3-(2-oxopropyl)-cyclopr*	110847-02-4	515.82	45.406	2	20363	C10H16	2,6-dimethyl-2,4,6-octatriene, isomers	673-84-7	439.95	38.146	2
20250	C10H15NO	2-(N-ethylanilino)ethanol	92-50-2	545.15	48.239	1,2	20364	C10H16	1,2,3,4,5-pentamethylcyclopentadiene	4045-44-7	331.15	27.930	1,2
20251	C10H15NO	(S)-(-)-N-(2-hydroxyethyl)-a-phenylethylamine	66849-29-4	515.82	45.406	2	20365	C10H16	(-)-a-pinene	1330-16-1	429.35	33.861	1,2
20252	C10H15NO	(R)-(+)-N-(2-hydroxyethyl)-a-phenylethylamine	80548-31-8	515.82	45.406	2	20366	C10H16	(1S)-(-)-b-pinene	18172-67-3	439.15	36.722	1,2
20253	C10H15NO	3-methoxy-N,N-dimethylbenzylamine	15184-99-3	515.82	45.406	2	20367	C10H16	(±)-a-pinene	2437-95-8	428.75	33.697	1,2
20254	C10H15NO	DL-3-(1-methyl-1-ethenyl)-6-oxoheptanenitrile	---	515.82	45.406	2	20368	C10H16	(+)-a-pinene	7785-70-8	428.65	33.669	1,2
20255	C10H15NO	1-perillaldehyde-a-antioxime	30950-27-7	515.82	45.406	2	20369	C10H16	tricyclo[5.2.1.0-{2,6}-]decane	6004-38-2	466.15	40.641	1,2
20256	C10H15NO	anatoxin I	64285-06-9	515.82	45.406	2	20370	C10H16	1,5-dimethyl-1,5-cyclooctadiene	3760-14-3	439.95	38.146	2
20257	C10H15NO	4-(butylamino)phenol	103-62-8	515.82	45.406	2	20371	C10H16	4-methylene-1-(1-methylethyl)bicyclo[3.1.0]h*	3387-41-5	436.85	37.851	1,2
20258	C10H15NO	compound 48/80	4091-50-3	515.82	45.406	2	20372	C10H16	tricyclo[5.2.1.02,6]decane	2825-82-3	455.15	39.592	1,2
20259	C10H15NO	4-dimethylamino-3,5-xylenol	6120-10-1	475.15	41.502	1,2	20386	C10H16INO	N-(iodoacetyl)-3-azabicyclo(3.2.2)nonane	18312-12-4	523.65	46.161	1,2
20260	C10H15NO	N,N-dimethyl-b-hydroxyphenethylamine	66634-53-5	515.82	45.406	2	20388	C10H16NO4P	D-ephedrine phosphate (ester)	7234-08-4	601.15	53.683	2
20261	C10H15NO	4-ethyl-3,5-dimethylpyrrol-2-yl methyl ketone	1500-91-0	529.15	46.692	1,2	20389	C10H16NO4P	L-ephedrine phosphate (ester)	7234-07-3	601.15	53.683	2
20262	C10H15NO	N-hydroxyethyl-a-methylbenzylamine	1331-41-5	515.82	45.406	2	20390	C10H16NO4P	DL-ephedrine phosphate (ester)	7234-09-5	601.15	53.683	1,2
20263	C10H15NO	2-phenylethylaminoethanol	2842-37-7	515.82	45.406	2	20392	C10H16N2	decanedinitrile	1871-96-1	519.35	45.746	2
20264	C10H15NO	L-(+)-pseudoephedrine	90-82-4	515.82	45.406	2	20393	C10H16N2	N,N-diethyl-1,3-benzenediamine	26513-20-2	550.15	48.723	1,2
20265	C10H15NO2	3,4-diethoxyaniline	39052-12-5	506.65	44.523	2	20394	C10H16N2	N,N-diethyl-1,4-benzenediamine	93-05-0	534.15	47.175	1,2
20266	C10H15NO2	3,4-dimethoxybenzeneethanamine	120-20-7	506.65	44.523	2	20395	C10H16N2	N,N,N',N'-tetramethyl-1,2-benzenediamine	704-01-8	488.65	42.795	1,2
20267	C10H15NO2	N-phenyl-N,N-diethanolamine	120-07-0	506.65	44.523	2	20396	C10H16N2	N,N,N',N'-tetramethyl-1,4-benzenediamine	100-22-1	533.15	47.078	1,2
20268	C10H15NO2	(R)-(+)-2-amino-3-benzyloxy-1-propanol	58577-87-0	580.15	51.636	1,2	20397	C10H16N2	N,N-diethyl-p-phenylenediamine hydrochloride	2198-58-5	490.65	42.986	1,2
20269	C10H15NO2	3-amino-3-(p-methoxyphenyl)-1-propanol	68208-24-2	506.65	44.523	2	20398	C10H16N2	2,3,5,6-tetramethyl-p-phenylenediamine	3102-87-2	519.35	45.746	2
20270	C10H15NO2	(3R-cis)-(-)-2,3-dihydro-3-isopropyl-7a-meth*	---	506.65	44.523	2	20399	C10H16N2	p-amino-N,a-dimethylphenethylamine	4302-87-8	519.35	45.746	2
20271	C10H15NO2	2,5-diethoxyaniline	94-85-9	506.65	44.523	2	20416	C10H16N4O3	dimetilan	644-64-4	478.15	41.789	1,2
20272	C10H15NO2	(3S-cis)-(+)-2,3-dihydro-3-isopropyl-7a-meth*	116910-11-3	506.65	44.523	2	20423	C10H16O	camphor	76-22-2	480.57	41.637	1,2
20273	C10H15NO2	2,5-dimethoxyphenethylamine	3600-86-0	433.15	37.500	1,2	20424	C10H16O	camphor, (±)	21368-68-3	489.51	42.877	2
20274	C10H15NO2	a-((ethylamino)methyl)-m-hydroxybenzyl alcoh*	709-55-7	506.65	44.523	2	20425	C10H16O	camphor, (+)	464-49-3	480.55	42.019	1,2
20275	C10H15NO2	p-hydroxyephedrine	365-26-4	506.65	44.523	2	20426	C10H16O	[1,1'-bicyclopentyl]-2-one	4884-24-6	505.65	44.427	1,2
20276	C10H15NO2	1-(2-propynyl)cyclohexyl carbamate	358-52-1	506.65	44.523	2	20427	C10H16O	3-methyl-6-isopropyl-2-cyclohexen-1-one, (±)	6091-52-7	505.65	44.427	1,2
20277	C10H15NO2S	N-butylbenzenesulfonamide	3622-84-2	587.15	52.317	1,2	20428	C10H16O	6-methyl-3-isopropyl-2-cyclohexen-1-one, (±)	23733-68-8	508.65	44.716	1,2
20278	C10H15NO2S	ethyl cis-2-isothiocyanato-1-cyclohexanecarb*	---	587.15	52.317	2	20429	C10H16O	2,6,6-trimethylbicyclo[3.1.1]heptan-3-one, [*	14575-93-0	485.15	42.459	1,2
20279	C10H15NO2S	N,N-diethylbenzenesulfonamide	1709-50-8	587.15	52.317	2	20430	C10H16O	4,6,6-trimethylbicyclo[3.1.1]heptan-2-one, [*	515-90-2	495.15	43.418	1,2
20299	C10H15N5	b-phenethylbiguanide	114-86-3	388.15	33.250	1,2	20431	C10H16O	4,7,7-trimethylbicyclo[2.2.1]heptan-2-one, (*	10292-98-5	486.15	42.555	1,2
20301	C10H15N5O10P2	adenosine diphosphate	58-64-0	469.15	40.928	1,2	20432	C10H16O	2-butylidenecyclohexanone	7153-14-2	489.51	42.877	2
20315	C10H16	camphene	79-92-5	433.65	36.318	1,2	20433	C10H16O	5-methyl-2-(1-methylethylidene)cyclohexanone	15932-80-6	489.51	42.877	2
20316	C10H16	D-limonene	5989-27-5	449.65	39.141	1,2	20434	C10H16O	5-methyl-2-(1-methylvinyl)cyclohexanone	529-00-0	489.51	42.877	2
20317	C10H16	limonene	138-86-3	451.15	38.282	1,2	20435	C10H16O	trans-2-methyl-5-(1-methylvinyl)cyclohexanon*	619-02-3	494.65	43.370	1,2
20318	C10H16	L-limonene	5989-54-8	451.15	38.282	1,2	20436	C10H16O	trans-5-methyl-2-(1-methylvinyl)cyclohexanone	29606-79-9	489.51	42.877	2
20319	C10H16	alpha-phellandrene	99-83-2	448.15	39.908	1,2	20437	C10H16O	carvenone, (S)	10395-45-6	506.15	44.475	1,2
20320	C10H16	beta-phellandrene	555-10-2	447.15	39.502	1,2	20438	C10H16O	cis-3,7-dimethyl-2,6-octadienal	106-26-3	489.51	42.877	2
20321	C10H16	alpha-pinene	80-56-8	429.29	35.744	1,2	20439	C10H16O	trans-3,7-dimethyl-2,6-octadienal	141-27-5	502.15	44.091	1,2
20322	C10H16	alpha-pinene, (-)	7785-26-4	428.15	33.533	1,2	20440	C10H16O	DL-fenchone	18492-37-0	466.65	40.689	1,2
20323	C10H16	beta-pinene	127-91-3	439.19	37.828	1,2	20441	C10H16O	4-isopropyl-1-cyclohexene-1-carboxaldehyde	21391-98-0	496.15	43.514	1,2
20324	C10H16	beta-pinene, (1R)	19902-08-0	437.75	36.293	1,2	20442	C10H16O	2,6,6-trimethyl-1-cyclohexene-1-carboxaldehy*	432-25-7	489.51	42.877	2
20325	C10H16	alpha-terpinene	99-86-5	450.35	39.567	1,2	20443	C10H16O	4-methylene-1-isopropylbicyclo[3.1.0]hexan-3*	59905-55-4	481.15	42.076	1,2
20326	C10H16	gamma-terpinene	99-85-4	456.15	40.301	1,2	20444	C10H16O	4-methylene-1-isopropylbicyclo[3.1.0]hexan-3*	471-16-9	481.15	42.076	1,2
20327	C10H16	terpinolene	586-62-9	458.15	44.494	1,2	20445	C10H16O	4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-ol,*	1820-09-3	489.51	42.877	2
20328	C10H16	4-carene, (1S,3R,6R)-(-)	5208-49-1	442.15	38.355	1,2	20446	C10H16O	4,6,6-trimethylbicyclo[3.1.1]hept-3-en-2-ol,*	1845-30-3	489.51	42.877	2
20329	C10H16	3-carene, (+)	498-15-7	444.15	38.545	1,2	20447	C10H16O	2-methyl-5-(1-methylvinyl)-2-cyclohexen-1-ol	99-48-9	501.15	43.995	1,2
20330	C10H16	cyclodecyne	3022-41-1	477.15	41.693	1,2	20448	C10H16O	4-(1-methylvinyl)-1-cyclohexene-1-methanol	536-59-4	517.15	45.534	1,2
20331	C10H16	1-decen-3-yne	33622-26-3	439.95	38.146	2	20449	C10H16O	cis-octahydro-1(2H)-naphthalenone	32166-40-8	489.51	42.877	2
20332	C10H16	1-decen-4-yne	24948-66-1	439.95	38.146	2	20450	C10H16O	octahydro-2(1H)-naphthalenone	4832-17-1	489.51	42.877	2
20333	C10H16	2-decen-4-yne	116668-40-7	439.95	38.146	2	20451	C10H16O	trans-octahydro-1(2H)-naphthalenone	21370-71-8	489.51	42.877	2
20334	C10H16	2,2-dimethyl-5-methylenebicyclo[2.2.1]heptane	497-32-5	425.15	36.741	1,2	20452	C10H16O	pulegone	89-82-7	497.15	43.610	1,2
20335	C10H16	7,7-dimethyl-2-methylenebicyclo[2.2.1]heptan*	2623-54-3	428.15	37.026	1,2	20453	C10H16O	4,7,7-trimethyl-6-oxabicyclo[3.2.1]oct-3-ene*	60761-04-8	456.65	39.735	1,2
20336	C10H16	3,7-dimethyl-1,3,6-octatriene	13877-91-3	450.15	39.116	2	20455	C10H16O	1-adamantanol	768-95-6	489.51	42.877	2
20337	C10H16	3,7-dimethyl-1,3,7-octatriene	502-99-8	450.15	39.116	2	20456	C10H16O	(1S)-(-)-camphor	464-48-2	477.15	41.693	1,2
20338	C10H16	cis,trans-2,6-dimethyl-2,4,6-octatriene	7216-56-0	439.95	38.146	2	20457	C10H16O	citral	5392-40-5	501.20	43.999	1,2
20339	C10H16	trans,trans-2,6-dimethyl-2,4,6-octatriene	3016-19-1	461.15	40.164	1,2	20458	C10H16O	trans,trans-2,4-decadienal	25152-84-5	489.51	42.877	2
20340	C10H16	cis, cis-2,6-dimethyl-2,4,6-octatriene	17202-20-9	439.95	38.146	2	20459	C10H16O	1-decalone, cis and trans	4832-16-0	489.51	42.877	2
20341	C10H16	dipentene	7705-14-8	451.15	39.211	1,2	20460	C10H16O	5-isoprenyl-2-methyl-cyclohexan-1-one	5524-05-0	360.65	30.674	1,2
20342	C10H16	4-methylene-1-isopropylbicyclo[3.1.0]hexane,*	15826-80-9	437.15	37.880	1,2	20461	C10H16O	(+)-dihydrocarvone	7764-50-3	489.51	42.877	2
20343	C10H16	2-methyl-5-isopropylbicyclo[3.1.0]hex-2-ene	2867-05-2	424.15	36.647	1,2	20462	C10H16O	D-fenchone	4695-62-9	466.55	40.680	1,2
20344	C10H16	3-methylene-6-isopropylcyclohexene, (+)	6153-16-8	444.65	38.592	1,2	20463	C10H16O	(1R)-(-)-fenchone	7787-20-4	466.15	40.641	1,2
20345	C10H16	4-methylene-1-isopropylcyclohexene	99-84-3	446.65	38.783	1,2	20464	C10H16O	(+)-limonene oxide	1195-92-2	489.51	42.877	2
20346	C10H16	1-methyl-3-(1-methylvinyl)cyclohexene	38738-60-2	448.15	38.925	1,2	20465	C10H16O	(-)-limonene oxide	---	489.51	42.877	2
20347	C10H16	1-methyl-5-(1-methylvinyl)cyclohexene	13898-73-2	448.15	38.925	1,2	20466	C10H16O	p-menth-1-en-3-one	89-81-6	506.15	44.475	1,2
20348	C10H16	5-methyl-1-(1-methylvinyl)cyclohexene, (±)	105065-24-5	457.15	39.783	1,2	20467	C10H16O	(1R)-(-)-myrtenol	19894-97-4	494.65	43.370	1,2
20349	C10H16	2-methyl-5-isopropyl-1,3-cyclohexadiene, (±)	13811-01-3	448.65	39.845	1,2	20468	C10H16O	(-)-myrtenol	515-00-4	494.65	43.370	1,2
20350	C10H16	beta-myrcene	123-35-3	440.15	38.165	1,2	20469	C10H16O	(R)-(+)-perillyl alcohol	57717-97-2	489.51	42.877	2
20351	C10H16	4(10)-thujene, (+)	2514-91-2	437.15	37.880	1,2	20470	C10H16O	a-pinene oxide	1686-14-2	489.51	42.877	2
20352	C10H16	tricyclene	508-32-7	425.65	36.789	1,2	20471	C10H16O	(-)-a-pinene oxide	19894-99-6	489.51	42.877	2
20354	C10H16	1,7,7-trimethylbicyclo[2.2.1]hept-2-ene	464-17-5	419.15	36.173	1,2	20472	C10H16O	(+)-b-pinene oxide	6931-54-0	489.51	42.877	2
20355	C10H16	1,3,3-trimethyltricyclo[2.2.1.02,6]heptane	488-97-1	418.15	36.079	1,2	20473	C10H16O	(S)-(-)-pulegone	3391-90-0	496.65	43.562	1,2
20356	C10H16	(+)-camphene	5794-03-6	432.65	35.921	1,2	20474	C10H16O	thujone	546-80-5	476.15	41.597	1,2
20357	C10H16	(-)-camphene	5794-04-7	439.95	38.266	2	20475	C10H16O	(1S)-6,6-dimethylbicyclo[3.1.1]hept-2-ene-2-*	6712-78-3	489.51	42.877	2
20358	C10H16	3-carene	13466-78-9	444.30	38.559	1,2	20476	C10H16O	(S)-3-methyl-6-(1-methylethyl)-2-cyclohexen-*	6091-50-5	489.51	42.877	2
20359	C10H16	(+)-2-carene	4497-92-1	440.65	38.212	1,2	20477	C10H16O	2-pentyl-2-cyclopenten-1-one	25564-22-1	489.51	42.877	2
20360	C10H16	2-carene	554-61-0	440.65	38.212	1,2	20478	C10H16O	1,3,3-trimethyl-2-norbornanone	1195-79-5	597.65	53.341	1,2
20361	C10H16	1,5,9-decatriene	13393-64-1	439.95	38.146	2	20479	C10H16OSi	benzyloxytrimethylsilane	14642-79-6	366.15	31.188	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
20480	C10H16OSi	ethoxydimethyl phenylsilane	1825-58-7	366.15	31.188	1,2	20595	C10H18	3-decyne	2384-85-2	452.45	39.509	1,2
20481	C10H16O2	9-decynoic acid	1642-49-5	503.75	44.245	2	20596	C10H18	4-decyne	2384-86-3	443.65	36.811	2
20482	C10H16O2	ascaridole	512-85-6	503.75	44.245	2	20597	C10H18	5-decyne	1942-46-7	450.15	39.116	1,2
20483	C10H16O2	1,2-cyclodecanedione	96-01-5	503.75	44.245	2	20598	C10H18	2,2-dimethyl-3-octyne	19482-57-6	443.65	36.811	2
20484	C10H16O2	3-cyclohexyl-2-butenoic acid	25229-42-9	503.75	44.245	2	20599	C10H18	8-methyl-4-nonyne	70732-43-3	443.65	36.811	2
20485	C10H16O2	cyclohexyl methacrylate	101-43-9	483.15	42.268	1,2	20600	C10H18	5-ethyl-5-methyl-3-heptyne	61228-10-2	443.65	36.811	2
20486	C10H16O2	trans,trans-2,4-decadienoic acid	30361-33-2	503.75	44.245	2	20601	C10H18	cis-decahydronaphthalene	493-01-6	468.97	39.801	1,2
20487	C10H16O2	3,3-dimethyl-delta1,alpha-cyclohexaneacetic *	6790-47-2	503.75	44.245	2	20602	C10H18	trans-decahydronaphthalene	493-02-7	460.46	38.620	1,2
20488	C10H16O2	cis-2,2-dimethyl-3-(2-methyl-1-propenyl)cycl*	26771-11-9	503.75	44.245	2	20603	C10H18	1-pentylcyclopentene	4291-98-9	452.15	39.555	1,2
20489	C10H16O2	3,7-dimethyl-2,4-octadienoic acid	101715-60-0	503.75	44.245	2	20604	C10H18	1,5-dimethyl-4-isopropylcyclopentene	6912-05-6	436.15	34.694	1,2
20490	C10H16O2	3-hydroxycamphor	10373-81-6	503.75	44.245	2	20605	C10H18	1,1'-bicyclopentyl	1636-39-1	443.65	38.497	2
20491	C10H16O2	2-hydroxy-3-methyl-6-isopropyl-2-cyclohexen-*	490-03-9	503.75	44.245	2	20606	C10H18	cis-cyclodecene	935-31-9	468.15	40.833	1,2
20492	C10H16O2	methyl 2,2,3-trimethyl-1-cyclopentene-1-carb*	1460-88-4	476.65	41.645	1,2	20607	C10H18	trans-cyclodecene	2198-20-1	471.15	41.119	1,2
20493	C10H16O2	(1R)-chrysanthemolactone	14087-70-8	503.75	44.245	2	20608	C10H18	1,3-decadiene	2051-25-4	442.15	38.355	1,2
20494	C10H16O2	(1S)-chrysanthemolactone	14087-71-9	503.75	44.245	2	20609	C10H18	1,9-decadiene	1647-16-1	440.15	38.165	1,2
20495	C10H16O2	geranic acid	459-80-3	522.65	46.065	1,2	20610	C10H18	2,6-dimethyl-2,5-octadiene	116668-48-5	443.65	38.497	2
20496	C10H16O2	(S)-(+)-5-(1-hydroxy-1-methylethyl)-2-methyl*	60593-11-5	503.75	44.245	2	20611	C10H18	2,7-dimethyl-2,6-octadiene	16736-42-8	439.15	38.070	1,2
20497	C10H16O2	(1S,2S,5S)-(-)-2-hydroxy-3-pinanone	1845-25-6	518.15	45.631	1,2	20612	C10H18	3,6-dimethyl-2,6-octadiene	116668-49-6	427.15	36.931	1,2
20498	C10H16O2	(1R,2R,5R)-(+)-2-hydroxy-3-pinanone	24047-72-1	518.15	45.631	1,2	20613	C10H18	3,7-dimethyl-2,4-octadiene	56523-26-3	438.65	38.022	1,2
20499	C10H16O2	3-isobutoxy-2-cyclohexen-1-one	23074-59-1	503.75	44.245	2	20614	C10H18	4,5-dimethyl-2,6-octadiene	18476-57-8	426.65	36.884	1,2
20500	C10H16O2	methyl 2-nonynoate	111-80-8	503.75	44.245	2	20615	C10H18	cis-2,6-dimethyl-2,6-octadiene	2492-22-0	441.15	38.260	1,2
20501	C10H16O2	ethyl 2-octynate	10519-20-7	503.75	44.245	2	20616	C10H18	p-menth-3-ene, (S)-(-)	22564-83-6	440.15	38.165	1,2
20502	C10H16O2	chrysanthemic acid	10453-89-1	503.75	44.245	2	20617	C10H18	4-methyl-1-isopropylbicyclo[3.1.0]hexane	471-12-5	430.15	37.215	1,2
20503	C10H16O2	2,4-hexadienyl butyrate	16930-93-1	503.75	44.245	2	20618	C10H18	1,3,3-trimethylbicyclo[2.2.1]heptane, (+)	116435-30-4	424.15	36.647	1,2
20504	C10H16O2	2,4-hexadienyl isobutyrate	16491-24-0	503.75	44.245	2	20619	C10H18	1,7,7-trimethylbicyclo[2.2.1]heptane	464-15-3	434.15	37.595	1,2
20505	C10H16O2	limonene dioxide	96-08-2	503.75	44.245	2	20620	C10H18	2,2,3-trimethylbicyclo[2.2.1]heptane	473-19-8	439.15	38.070	1,2
20506	C10H16O2	endo-2-norbornanecarboxylic acid ethyl ester	61242-71-5	503.75	44.245	2	20621	C10H18	2,6,6-trimethylbicyclo[3.1.1]heptane, (1alph*	112456-46-9	437.65	37.927	1,2
20507	C10H16O3	dihydro-5,5-dimethyl-4-(3-oxobutyl)-2(3H)-fu*	4436-81-1	390.15	33.438	2	20622	C10H18	2,6,6-trimethylbicyclo[3.1.1]heptane, [1R-(1*	4795-86-2	442.15	38.355	1,2
20508	C10H16O3	pinonic acid	61826-55-9	390.15	33.438	2	20623	C10H18	3,7,7-trimethylbicyclo[4.1.0]heptane, [1S-(1*	2778-68-9	442.15	38.355	1,2
20509	C10H16O3	cyclohexyl 3-oxobutanoate	6947-02-0	390.15	33.438	2	20624	C10H18	3,7,7-trimethylbicyclo[4.1.0]heptane, [1S-(1*	6069-97-2	442.15	38.355	1,2
20510	C10H16O3	1,2,4,5,9,10-triepoxydecane	52338-90-6	390.15	33.438	1,2	20625	C10H18	1-methyl-4-isopropylcyclohexene	5502-88-5	447.65	38.878	1,2
20511	C10H16O4	camphoric acid, trans-(±)-	560-08-7	491.15	43.034	2	20626	C10H18	1-methyl-4-isopropylcyclohexene, (R)	1195-31-9	446.15	38.735	1,2
20512	C10H16O4	diethyl 2-allylmalonate	2049-80-1	495.65	43.466	1,2	20627	C10H18	4-methyl-1-isopropylcyclohexene, (R)	619-52-3	440.65	38.212	1,2
20513	C10H16O4	diethyl 1,1-cyclobutanedicarboxylate	3779-29-1	497.15	43.610	1,2	20628	C10H18	trans-3-methyl-6-isopropylcyclohexene, (3R)	5113-93-9	440.15	38.165	1,2
20514	C10H16O4	diethyl isopropylidenemalonate	6802-75-1	449.65	39.068	1,2	20629	C10H18	1-methyl-3-(1-methylethylidene)cyclohexane	13828-34-7	447.15	38.830	1,2
20515	C10H16O4	diisopropyl fumarate	7283-70-7	553.15	49.014	1,2	20630	C10H18	1-methyl-4-(1-methylethylidene)cyclohexane	1124-27-2	446.15	38.735	1,2
20516	C10H16O4	dimethyl cis-1,3-cyclohexanedicarboxylate	6998-82-9	536.15	47.368	1,2	20631	C10H18	1-methyl-3-(1-methylvinyl)cyclohexane	16605-36-0	443.15	38.450	1,2
20517	C10H16O4	dimethyl cis-1,4-cyclohexanedicarboxylate	3399-21-1	491.15	43.034	2	20632	C10H18	pinane	473-55-2	442.15	38.355	1,2
20518	C10H16O4	dimethyl trans-1,3-cyclohexanedicarboxylate	10021-92-8	491.15	43.034	2	20633	C10H18	thujane, (1S,4R,5S)-(+)	7712-66-5	430.15	37.215	1,2
20519	C10H16O4	dimethyl 2,2-dimethyl-1,3-cyclobutanedicarbo*	91057-79-3	502.15	44.091	1,2	20634	C10H18	1,4,4-trimethyl-1-cycloheptene	4755-36-6	440.15	38.165	1,2
20520	C10H16O4	dipropyl fumarate	14595-35-8	491.15	43.034	2	20635	C10H18	1-tert-butyl-1-cyclohexene	3419-66-7	440.65	38.212	1,2
20521	C10H16O4	dipropyl maleate	2432-63-5	491.15	43.034	2	20636	C10H18	decahydronaphthalene; (cis+trans)	91-17-8	446.40	33.896	1,2
20522	C10H16O4	cis-1,2,2-trimethyl-1,3-cyclopentanedicarbox*	124-83-4	491.15	43.034	2	20637	C10H18	3,7-dimethyl-1,6-octadiene	2436-90-0	429.60	37.163	1,2
20523	C10H16O4	1,1-cyclohexanediacetic acid	4355-11-7	491.15	43.034	2	20638	C10H18	4-methyl-1-(1-methylethyl)cyclohexene	500-00-5	440.00	38.150	1,2
20524	C10H16O4	1,4-cyclohexanedione bis(ethylene ketal)	183-97-1	491.15	43.034	2	20639	C10H18	spiro(4-5)decane	176-63-6	458.00	39.864	1,2
20525	C10H16O4	dimethyl trans-1,4-cyclohexanedicarboxylate	3399-22-2	491.15	43.034	2	20640	C10H18	o-1-menthene	11028-39-0	443.65	38.497	2
20526	C10H16O4	dimethyl cyclohexane-1,4-dicarboxylate; (cis*	94-60-0	404.15	34.756	1,2	20644	C10H18ClHgNO2	chloro(2-(3-methoxypropionamido)cyclohexyl)m*	73926-89-3	349.45	29.630	1,2
20527	C10H16O4	ethyl 4-acetyl-5-oxohexanoate	2832-10-2	491.15	43.034	2	20649	C10H18Cl2N6O4	1,1'-tetramethylenebis(3-(2-chloroethyl)-3-n*	60784-43-2	349.15	29.602	1,2
20528	C10H16O4	ethyl (S)-(+)-3-(2,2-dimethyl-1,3-dioxolan-4*	64520-58-7	491.15	43.034	2	20657	C10H18N2O4	diethyl 1,4-piperazinedicarboxylate	5470-28-0	588.15	52.415	1,2
20529	C10H16O4	3,3,6,6-tetramethoxy-1,4-cyclohexadiene	15791-03-4	491.15	43.034	2	20658	C10H18N2O4	ethyl N-butyl-N-nitrososuccinamate	---	572.15	50.858	1,2
20530	C10H16O4	2-butenedioic acid (Z)-, bis(1-methylethyl) *	10099-70-4	491.15	43.034	2	20659	C10H18N2O5	Na-boc-L-glutamine	13726-85-7	575.15	51.149	2
20534	C10H16O5	diethyl 2-acetylsuccinate	1115-30-6	528.15	46.595	1,2	20660	C10H18N2O5	Na-boc-D-glutamine	61348-28-5	575.15	51.149	2
20535	C10H16O5	diethyl (ethoxymethylene)malonate	87-13-8	553.15	49.014	2	20661	C10H18N2O5	N-(2-methoxycarbonylethyl)-N-(1-acetoxybutyl*	79448-03-6	575.15	51.149	1,2
20536	C10H16O6	triethyl methanetricarboxylate	6279-86-3	526.15	46.402	1,2	20662	C10H18N2O5	N-nitrosobis(2-acetoxypropyl)amine	60414-81-5	575.15	51.149	2
20537	C10H16O6	2,3-bis(2,3-epoxypropoxy)-1,4-dioxane	10043-09-1	526.15	46.402	2	20670	C10H18O	[1,1'-bicyclopentyl]-2-ol	4884-25-7	508.65	44.716	1,2
20538	C10H16O6	di(2-methoxyethyl) maleate	10232-93-6	526.15	46.402	2	20671	C10H18O	6,6-dimethylbicyclo[3.1.1]heptane-2-methanol*	51152-12-6	480.98	42.060	2
20540	C10H16S	3-hexylthiophene	1693-86-3	502.15	44.091	2	20672	C10H18O	4-methyl-1-isopropylbicyclo[3.1.0]hexan-3-ol	513-23-5	482.15	42.172	1,2
20541	C10H16S	(1R)-(-)-thiocamphor	53402-10-1	502.15	44.091	1,2	20673	C10H18O	1,3,3-trimethylbicyclo[2.2.1]heptan-2-ol, (1*	512-13-0	480.98	42.060	2
20544	C10H16Si	trimethylbenzylsilane	770-09-2	463.65	40.403	1,2	20674	C10H18O	1,3,3-trimethylbicyclo[2.2.1]heptan-2-ol, en*	36386-49-9	472.65	41.263	1,2
20545	C10H16Si	trimethyl(4-methylphenyl)silane	3728-43-6	465.15	40.546	1,2	20676	C10H18O	4,6,6-trimethylbicyclo[3.1.1]heptan-2-ol, [1*	515-88-8	491.15	43.034	1,2
20546	C10H16Si	dimethylphenethylsilane	17873-13-1	464.40	40.474	2	20678	C10H18O	2-butylcyclohexanone	1126-18-7	481.15	42.076	1,2
20547	C10H16Si	2,7-dimethyl-5-silaspiro[4.4]nona-2,7-diene	54767-28-1	464.40	40.474	2	20679	C10H18O	4-isobutylcyclohexanone	42061-72-3	491.15	43.034	1,2
20551	C10H17Cl	bornyl chloride	464-41-5	480.65	42.028	1,2	20680	C10H18O	cis-5-methyl-2-isopropylcyclohexanone, (2R)	1196-31-2	477.15	41.693	1,2
20552	C10H17Cl	2-chlorodecahydronaphthalene	5597-81-9	480.40	42.004	2	20681	C10H18O	trans-2-methyl-5-isopropylcyclohexanone, (2S)	13163-73-0	493.15	43.226	1,2
20553	C10H17Cl	2-chlorobornane	6120-13-4	480.15	41.980	1,2	20682	C10H18O	trans-5-methyl-2-isopropylcyclohexanone, (2S)	14073-97-3	480.15	41.980	1,2
20554	C10H17Cl	geranyl chloride	5389-87-7	480.40	42.004	2	20683	C10H18O	cyclodecanone	1502-06-3	480.98	42.060	2
20560	C10H17NO	camphor, (-), oxime	36065-15-3	525.15	46.306	2	20684	C10H18O	1-cyclohexyl-1-butanone	1462-27-7	480.98	42.060	2
20561	C10H17NO	1-cyclohexyl-2-pyrrolidone	6837-24-7	497.65	43.658	2	20685	C10H18O	2,2,6-trimethylcycloheptanone	1686-41-5	464.15	40.451	1,2
20562	C10H17NO	1-morpholinocyclohexene	670-80-4	392.65	33.673	1,2	20686	C10H18O	2,6,6-trimethylcycloheptanone	4436-59-3	481.65	42.124	1,2
20563	C10H17NO	8-allyl-(±)-1a-H,5a-H-northropan-3a-ol	22235-85-4	575.15	51.149	1,2	20687	C10H18O	decahydro-2-naphthalenol	825-51-4	480.98	42.060	2
20564	C10H17NO	1-(4-ethoxy-2-butynyl)pyrrolidine	3921-98-0	497.65	43.658	2	20688	C10H18O	2-decenal	3913-71-1	503.15	44.187	1,2
20570	C10H17NO3	boc-L-prolinal	69610-41-9	484.15	42.363	1,2	20689	C10H18O	3-decenal	58474-80-9	480.98	42.060	2
20571	C10H17NO3	N-(tert-butoxycarbonyl)-D-prolinal	73365-02-3	501.15	43.995	1,2	20690	C10H18O	3,7-dimethyl-6-octenal	106-23-0	480.98	42.060	2
20572	C10H17NO3	N-(tert-butoxycarbonyl)-4-piperidone	79099-07-3	492.65	43.178	2	20691	C10H18O	3-decen-2-one	10519-33-2	480.98	42.060	2
20577	C10H17NO5	N,N-bis(acetoxyethyl)acetamide	5338-18-1	345.55	29.267	1,2	20692	C10H18O	3-ethyl-4-methyl-3-hepten-2-one	54244-90-5	463.15	40.355	1,2
20578	C10H17NO5S	diethylammonium-2,5-dihydroxybenzene sulfona*	2624-44-4	332.75	28.078	1,2	20693	C10H18O	3-ethyl-4-methyl-4-hepten-2-one	53252-08-7	480.98	42.060	2
20591	C10H17N7O4	saxitoxin hydrate	35523-89-8	356.15	30.254	1,2	20694	C10H18O	4-ethyl-6-methyl-5-hepten-2-one	104035-66-7	480.98	42.060	2
20592	C10H17N7OS	mononitrosocimetidine	77893-24-4	342.65	28.997	1,2	20695	C10H18O	5-ethyl-4-methyl-4-hepten-3-one	22319-28-4	480.98	42.060	2
20593	C10H18	1-decyne	764-93-2	447.16	39.652	1,2	20696	C10H18O	5-ethyl-4-methyl-5-hepten-3-one	74764-56-0	480.98	42.060	2
20594	C10H18	2-decyne	2384-70-5	457.75	39.994	1,2	20697	C10H18O	6-methyl-5-nonen-4-one	7036-98-8	468.15	40.833	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
20698	C10H18O	6-methyl-6-nonen-4-one	53252-20-3	480.98	42.060	2	20780	C10H18O2	2,2,5,5-tetramethyl-3,4-hexanedione	4388-88-9	442.15	38.355	1,2
20699	C10H18O	2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopro*	5617-92-5	480.98	42.060	2	20781	C10H18O2	allyl heptylate	142-19-8	483.15	42.268	1,2
20700	C10H18O	3-methyl-6-isopropyl-2-cyclohexen-1-ol	491-04-3	480.98	42.060	2	20782	C10H18O2	(R)-(+)-citronellic acid	18951-85-4	486.24	42.564	2
20701	C10H18O	4-methyl-1-isopropyl-3-cyclohexen-1-ol	562-74-3	482.15	42.172	1,2	20783	C10H18O2	citronellic acid	502-47-6	486.24	42.564	2
20702	C10H18O	6-methyl-3-isopropyl-2-cyclohexen-1-ol	586-27-6	493.15	43.226	1,2	20784	C10H18O2	cyclohexanebutyric acid	4441-63-8	486.24	42.564	2
20703	C10H18O	2,4,4-trimethyl-1-cyclohexene-1-methanol	103985-40-6	480.98	42.060	2	20785	C10H18O2	1,4-cyclohexanedimethanol vinyl ether	114651-37-5	535.15	47.271	1,2
20704	C10H18O	2,6,6-trimethyl-1-cyclohexene-1-methanol	472-20-8	480.98	42.060	2	20786	C10H18O2	g-decalactone	706-14-9	486.24	42.564	2
20705	C10H18O	2,6,6-trimethyl-2-cyclohexene-1-methanol	6627-74-3	488.15	42.747	1,2	20787	C10H18O2	(±)-5-decanolide	705-86-2	486.24	42.564	2
20706	C10H18O	cis-3,7-dimethyl-2,6-octadien-1-ol	106-25-2	498.15	43.706	1,2	20788	C10H18O2	trans-2-decenoic acid	334-49-6	540.00	47.740	2
20707	C10H18O	eucalyptol	470-82-6	449.55	39.059	1,2	20789	C10H18O2	(R,R)-(+)-1,2,9,10-diepoxydecane	144741-95-7	486.24	42.564	2
20708	C10H18O	trans-geraniol	106-24-1	503.15	44.187	1,2	20790	C10H18O2	3,6-dimethyl-4-octyn-3,6-diol	78-66-0	486.24	42.564	2
20709	C10H18O	linalol	22564-99-4	471.15	41.119	1,2	20791	C10H18O2	1,6-hexanediol divinyl ether	19763-13-4	478.15	41.789	1,2
20710	C10H18O	1-methyl-4-isopropyl-7-oxabicyclo[2.2.1]hept*	470-67-7	446.65	38.783	1,2	20792	C10H18O2	trans-p-menth-6-ene-2,8-diol	32226-54-3	543.65	48.094	1,2
20711	C10H18O	1-methyl-4-(1-methylvinyl)cyclohexanol	138-87-4	483.15	42.268	1,2	20793	C10H18O2	(1S,2S,3R,5S)-(+)-2,3-pinanediol	18680-27-8	486.24	42.564	2
20712	C10H18O	2-methyl-5-(1-methylvinyl)cyclohexanol, [1S-*	22567-21-1	498.15	43.706	1,2	20794	C10H18O2	(1R,2R,3S,5R)-(-)-pinanediol	22422-34-0	486.24	42.564	2
20713	C10H18O	5-methyl-2-(1-methylvinyl)cyclohexanol, [1R-*	89-79-2	480.98	42.060	2	20795	C10H18O2	vinyl 2-ethylhexanoate	94-04-2	454.25	39.506	1,2
20714	C10H18O	alpha-terpineol	10482-56-1	493.15	43.226	1,2	20796	C10H18O2	cyclohexaneethanol, acetate	21722-83-8	486.24	42.564	2
20715	C10H18O	borneol	507-70-0	485.80	42.521	1,2	20797	C10H18O2	7-butyl-2-oxepanone	5579-78-2	486.24	42.564	2
20716	C10H18O	2-tert-butylcyclohexanone	1728-46-7	480.98	42.060	2	20798	C10H18O2	1,2,9,10-diepoxydecane	24854-67-9	486.24	42.564	2
20717	C10H18O	4-tert-butylcyclohexanone	98-53-3	480.98	42.060	2	20799	C10H18O2	diepoxydihydromyrcene	63869-17-0	486.24	42.564	2
20718	C10H18O	chrysanthemyl alcohol	18383-59-0	480.98	42.060	2	20800	C10H18O2	heptyl acrylate	2499-58-3	486.24	42.564	2
20719	C10H18O	(R)-(+)-citronellal	2385-77-5	480.60	42.023	1,2	20801	C10H18O2	3-hexenyl isobutyrate	57859-47-9	486.24	42.564	2
20720	C10H18O	(S)-(-)-citronellal	5949-05-3	358.15	30.441	1,2	20802	C10H18O2	cis-3-hexenyl isobutyrate	41519-23-7	486.24	42.564	2
20721	C10H18O	2,4-decadien-1-ol	14507-02-9	480.98	42.060	2	20803	C10H18O2	hexyl-2-butenoate	19089-92-0	486.24	42.564	2
20722	C10H18O	cis-decahydro-1-naphthol	529-32-8	511.15	44.956	1,2	20804	C10H18O2	linalool oxide	60047-17-8	486.24	42.564	2
20723	C10H18O	cis-4-decenal	21662-09-9	480.98	42.060	2	20805	C10H18O2	methyl nonylenate	111-79-5	486.24	42.564	2
20724	C10H18O	3-decyn-1-ol	51721-39-2	480.98	42.060	2	20806	C10H18O2	1-octen-3-ol acetate	2442-10-6	486.24	42.564	2
20725	C10H18O	dihydrocarveol	619-01-2	497.65	43.658	1,2	20808	C10H18O3	ethyl 2-acetylhexanoate	1540-29-0	494.65	43.370	1,2
20726	C10H18O	[(1S)-endo]-(-)-borneol	464-45-9	484.85	42.430	1,2	20809	C10H18O3	ethyl 2,2-diethylacetoacetate	1619-57-4	489.15	42.843	1,2
20727	C10H18O	(1R)-endo-(+)-fenchyl alcohol	2217-02-9	474.15	41.406	1,2	20810	C10H18O3	alpha-ethyl-1-hydroxycyclohexaneacetic acid	512-16-3	462.94	40.335	2
20728	C10H18O	(R)-(+)-1,2-epoxy-9-decene	137310-67-9	480.98	42.060	2	20811	C10H18O3	1,3,3,4,6,6-hexamethyl-2,5,7-trioxabicyclo[2*	7045-89-8	439.15	38.070	1,2
20729	C10H18O	1,2-epoxy-9-decene	85721-25-1	485.15	42.459	1,2	20812	C10H18O3	3-methylbutanoic anhydride	1468-39-9	488.15	42.747	1,2
20730	C10H18O	grandisol	26532-22-9	480.98	42.060	2	20813	C10H18O3	pentanoic anhydride	2082-59-9	500.15	43.899	1,2
20732	C10H18O	(1R,2R,3R,5S)-(-)-isopinocampheol	25465-65-0	492.15	43.130	1,2	20814	C10H18O3	2-butoxyethyl methacrylate	13532-94-0	363.15	30.908	1,2
20733	C10H18O	(1S,2S,3S,5R)-(+)-isopinocampheol	27779-29-9	492.15	43.130	1,2	20815	C10H18O3	(S)-(+)-2-methylbutyric anhydride	84131-91-9	462.94	40.335	2
20734	C10H18O	(+)-isopulegol	104870-56-6	480.98	42.060	2	20816	C10H18O3	pivalic anhydride	1538-75-6	466.15	40.641	1,2
20735	C10H18O	(±)-linalool	78-70-6	470.15	41.024	1,2	20817	C10H18O3	2-(tetrahydrofurfuryloxy)tetrahydropyran	710-14-5	462.94	40.335	2
20736	C10H18O	p-menthan-3-one	10458-14-7	480.95	42.057	1,2	20818	C10H18O3	3-hydroxy-2,2,5,5-tetramethyltetrahydro-3-fu*	24282-51-7	462.94	40.335	2
20737	C10H18O	p-menth-1-ene-9-ol	13835-75-1	480.98	42.060	2	20820	C10H18O4	sebacic acid	111-20-6	642.09	76.829	1,2
20738	C10H18O	(+)-p-menth-1-en-9-ol, isomers	18479-68-0	480.98	42.060	2	20821	C10H18O4	1,4-butanediol diglycidyl ether	2425-79-8	539.15	47.658	1,2
20739	C10H18O	menthone	89-80-5	483.15	42.268	1,2	20822	C10H18O4	dibutyl oxalate	2050-60-4	514.15	45.245	1,2
20740	C10H18O	2-(4-methyl-cyclohex-3-enyl)-propan-2-ol	2438-12-2	493.15	43.226	1,2	20823	C10H18O4	diethyl adipate	141-28-6	518.15	45.631	1,2
20741	C10H18O	(1S,2S,5S)-(-)-myrtanol	53369-17-8	480.98	42.060	2	20824	C10H18O4	diethyl isopropylmalonate	759-36-4	488.15	42.747	1,2
20742	C10H18O	(-)-terpinen-4-ol	20126-76-5	480.98	42.060	2	20825	C10H18O4	diethyl 2-propylmalonate	2163-48-6	494.15	43.322	1,2
20743	C10H18O	(+)-terpinen-4-ol	2438-10-0	480.98	42.060	2	20826	C10H18O4	diisobutyl oxalate	2050-61-5	502.15	44.091	1,2
20744	C10H18O	a-terpineol	98-55-5	492.15	43.130	1,2	20827	C10H18O4	dimethyl octanedioate	1732-09-8	541.15	47.852	1,2
20745	C10H18O	2,2,6,6-tetramethylcyclohexanone	1195-93-3	480.98	42.060	2	20828	C10H18O4	dipropyl succinate	925-15-5	523.95	46.190	1,2
20746	C10H18O	3,3,5,5-tetramethylcyclohexanone	14376-79-5	474.65	41.454	1,2	20829	C10H18O4	ethylene glycol dibutanoate	105-72-6	513.15	45.149	1,2
20747	C10H18O	4-ethyl-1-octyn-3-ol	5877-42-9	480.98	42.060	2	20830	C10H18O4	3-methylnonanedioic acid	76078-85-8	537.22	47.471	2
20748	C10H18O	1,3,3-trimethylbicyclo[2.2.1]heptan-2-ol	1632-73-1	480.98	42.060	2	20831	C10H18O4	mono-methyl azelate	2104-19-0	537.22	47.471	2
20749	C10H18O	cyclopentyl ether	10137-73-2	480.98	42.060	2	20832	C10H18O4	3-tert-butyl adipic acid	10347-88-3	537.22	47.471	2
20750	C10H18O	2,6-dimethyl-5,7-octadien-2-ol	5986-38-9	480.98	42.060	2	20833	C10H18O4	tri(ethylene glycol) divinyl ether	765-12-8	537.22	47.471	2
20751	C10H18O	(E)-3-ethyl-2,2-dimethylcyclobutyl methyl ke*	67465-27-4	480.98	42.060	2	20834	C10H18O4	di-2-methylbutyryl peroxide	1607-30-3	633.15	56.813	1,2
20752	C10H18O	(Z)-3-ethyl-2,2-dimethylcyclobutyl methyl ke*	4951-97-7	480.98	42.060	2	20835	C10H18O4	ethylene glycol bis(2,3-epoxy-2-methylpropyl*	3775-85-7	537.22	47.471	2
20753	C10H18O	isodihydrolavandulyl aldehyde	35158-25-9	480.98	42.060	2	20836	C10H18O4	hexylene glycol diacetate	1637-24-7	537.22	47.471	2
20754	C10H18O	isomenthone	491-07-6	480.98	42.060	2	20838	C10H18O5	di-tert-butyl dicarbonate	24424-99-5	509.90	44.836	2
20755	C10H18O	isotrimethyltetrahydro benzyl alcohol	72812-40-9	480.98	42.060	2	20839	C10H18O5	diisopropyl (R)-(+)-malate	83540-97-0	510.15	44.860	1,2
20756	C10H18O	p-linalool	126-91-0	480.98	42.060	2	20840	C10H18O5	diisopropyl (S)-(-)-malate	83541-68-8	509.65	44.812	1,2
20757	C10H18O	p-menthan-3-one racemic	1074-95-9	480.98	42.060	2	20841	C10H18O5	diethylene glycol diglycidyl ether	4206-61-5	509.90	44.836	2
20758	C10H18O	p-menth-8-en-3-ol	7786-67-6	480.98	42.060	2	20842	C10H18O6	diisopropyl tartrate, (±)	58167-01-4	548.15	48.529	1,2
20759	C10H18O	2-methyl-6-methylene-7-octen-2-ol	543-39-5	480.98	42.060	2	20843	C10H18O6	dipropyl tartrate, (+)	2217-14-3	576.15	51.247	1,2
20760	C10H18O	2-(1-methylpropyl)cyclohexanone	14765-30-1	480.98	42.060	2	20844	C10H18O6	triethylene glycol diacetate	111-21-7	559.15	49.595	1,2
20761	C10H18O	cis-2-pinanol	4948-28-1	480.98	42.060	2	20845	C10H18O6	(-)-diisopropyl D-tartrate	62961-64-2	548.15	48.529	1,2
20762	C10H18O	rose oxide levo	16409-43-1	480.98	42.060	2	20846	C10H18O6	(+)-diisopropyl l-tartrate	2217-15-4	548.15	48.529	1,2
20763	C10H18O	terpineol	8006-39-1	480.98	42.060	2	20847	C10H18O6	butyl peroxydicarbonate	16215-49-9	555.95	49.285	2
20764	C10H18O	3,3,5-trimethylcyclohexanecarboxaldehyde	1845-38-1	480.98	42.060	2	20848	C10H18O6	sec-butyl peroxydicarbonate	19910-65-7	555.95	49.285	2
20765	C10H18OS	8-mercaptomenthone, isomers	38462-22-5	544.15	48.142	1,2	20849	C10H18O6	di-tert-butyl diperoxyoxalate	14666-77-4	555.95	49.285	2
20767	C10H18O2	cyclohexyl butanoate	1551-44-6	486.15	42.555	1,2	20852	C10H18Si	methyltriallylsilane	1112-91-0	368.15	31.375	1,2
20768	C10H18O2	cyclohexyl 2-methylpropanoate	1129-47-1	477.15	41.693	1,2	20856	C10H19Br	cis-1-bromo-1-decene	66291-72-3	498.15	46.012	1,2
20769	C10H18O2	2-decenoic acid	3913-85-7	540.00	47.740	2	20857	C10H19Br	trans-1-bromo-1-decene	66291-73-4	498.15	46.012	1,2
20770	C10H18O2	3-decenoic acid	15469-77-9	540.00	47.740	2	20858	C10H19Br	1-bromo-2-decene	14304-30-4	498.15	43.706	2
20771	C10H18O2	4-decenoic acid	26303-90-2	540.00	47.740	2	20859	C10H19Br	2-bromo-1-decene	3017-67-2	498.15	43.706	2
20772	C10H18O2	9-decenoic acid	14436-32-9	540.00	47.740	2	20860	C10H19Br	1-bromo-4-methyl-1-isopropylcyclohexane	116836-10-3	498.15	43.706	2
20773	C10H18O2	ethyl cycloheptanecarboxylate	32777-26-7	486.24	42.564	2	20861	C10H19Br	(R)-(-)-citronellyl bromide	10340-84-8	498.15	43.706	2
20774	C10H18O2	propyl cyclohexanecarboxylate	6739-34-0	488.65	42.795	1,2	20862	C10H19Br	(S)-(+)-citronellyl bromide	143615-81-0	498.15	43.706	2
20775	C10H18O2	ethyl cyclohexylacetate	5452-75-5	484.15	42.363	1,2	20867	C10H19Br3	1,1,1-tribromodecane	62127-67-7	585.15	58.214	1,2
20776	C10H18O2	hexyl methacrylate	142-09-6	435.15	37.690	1,2	20868	C10H19Cl	cis-1-chloro-1-decene	66291-47-2	496.15	44.505	1,2
20777	C10H18O2	2-hydroxycyclodecanone	96-00-4	486.24	42.564	2	20869	C10H19Cl	trans-1-chloro-1-decene	66291-48-3	496.15	44.505	1,2
20778	C10H18O2	2-methyl-5-isopropylcyclopentanecarboxylic a*	528-23-4	486.24	42.564	2	20870	C10H19Cl	(1R)-(-)-menthyl chloride	16052-42-9	496.15	43.514	2
20779	C10H18O2	1,2,2,3-tetramethylcyclopentanecarboxylic ac*	464-88-0	527.15	46.499	1,2	20871	C10H19ClNO5P	phosphamidon	13171-21-6	435.15	37.690	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
20872	C10H19ClNO5P	trans-phosphamidon	297-99-4	435.15	37.690	2	20969	C10H20I2	1,10-diiododecane	16355-92-3	614.04	54.942	2
20873	C10H19ClO	decanoyl chloride	112-13-0	368.15	31.375	1,2	20972	C10H20NO5PS2	mecarbam	2595-54-2	417.15	35.984	1,2
20876	C10H19Cl3	1,1,1-trichlorodecane	62108-56-9	535.15	48.489	1,2	20973	C10H20N2	2,3'-bipiperidine	2467-09-6	542.65	47.997	1,2
20877	C10H19F	cis-1-fluoro-1-decene	66291-49-4	431.63	38.431	2	20974	C10H20N2	1-cyclohexylpiperazine	17766-28-8	542.65	47.997	2
20878	C10H19F	trans-1-fluoro-1-decene	66291-50-7	431.63	38.431	2	20975	C10H20N2	4-piperidinopiperidine	4897-50-1	542.65	47.997	2
20879	C10H19FO2	10-fluorodecanoic acid	334-59-8	380.15	32.499	2	20976	C10H20N2O	N,N-diethylnipecotamide	3367-95-1	392.65	33.673	1,2
20880	C10H19FO2	ethyl-8-fluoro octanoate	332-97-8	380.15	32.499	2	20977	C10H20N2O	1,2,2,5,5-pentamethyl-4-ethyl-3-imidazoline-*	75491-38-2	373.15	31.843	1,2
20881	C10H19FO2	fluoroacetic acid (2-ethylhexyl) ester	331-87-3	380.15	32.499	1,2	20978	C10H20N2O	1-((1,1-dimethylethyl)azo)cyclohexanol	54043-65-1	382.90	32.757	2
20882	C10H19F3	1,1,1-trifluorodecane	26288-16-4	442.15	39.260	1,2	20979	C10H20N2O2	1,2-bis(N-morpholino)ethane	1723-94-0	558.15	49.498	1,2
20883	C10H19I	cis-1-iodo-1-decene	66291-51-8	523.15	46.942	1,2	20980	C10H20N2O2	1-boc-homopiperazine	112275-50-0	558.15	49.498	2
20884	C10H19I	trans-1-iodo-1-decene	66291-52-9	523.15	46.942	1,2	20981	C10H20N2O2	N,N'-hexamethylenebisacetamide	3073-59-4	558.15	49.498	2
20885	C10H19I3	1,1,1-triiododecane	---	704.39	64.230	2	20982	C10H20N2O3	N-butyl-N-(1-acetoxybutyl)nitrosamine	56986-35-7	395.15	33.908	2
20886	C10H19N	decanenitrile	1975-78-6	516.15	48.258	1,2	20983	C10H20N2O3	4-(butylnitrosamino)butyl acetate	52731-39-2	395.15	33.908	1,2
20887	C10H19N	bornylamine	32511-34-5	488.05	42.737	2	20992	C10H20O	decanal	112-31-2	488.15	46.728	1,2
20888	C10H19N	alpha-camphylamine	54131-44-1	468.15	40.833	1,2	20993	C10H20O	2-decanone	693-54-9	483.35	44.867	1,2
20889	C10H19N	decahydro-1-naphthalenamine	7250-95-5	500.75	43.956	1,2	20994	C10H20O	3-decanone	928-80-3	476.15	41.597	1,2
20890	C10H19N	cis-myrtanylamine, (-)	73522-42-6	488.05	42.737	2	20995	C10H20O	4-decanone	624-16-8	479.65	41.932	1,2
20891	C10H19N	neobornylamine	2223-67-8	488.05	42.737	2	20996	C10H20O	2-methyl-5-nonanone	22287-02-1	476.65	41.645	1,2
20892	C10H19N	geranylamine	6246-48-6	488.05	42.737	2	20997	C10H20O	2-tert-butylcyclohexanol	13491-79-7	480.78	42.040	2
20893	C10H19N	(1S,2S,3S,5R)-(+)-isopinocampheylamine	13293-47-5	488.05	42.737	2	20998	C10H20O	trans-2-butylcyclohexanol	35242-05-8	480.78	42.040	2
20894	C10H19N	(1R,2R,3R,5S)-(-)-isopinocampheylamine	69460-11-3	488.05	42.737	2	20999	C10H20O	citronellol, (±)	26489-01-0	497.15	43.610	1,2
20895	C10H19N	(-)-cis-myrtanylamine	38235-68-6	488.05	42.737	2	21000	C10H20O	cyclodecanol	1502-05-2	480.78	42.040	2
20896	C10H19N	1,3,3-trimethyl-6-azabicyclo[3.2.1]octane	53460-46-1	467.15	40.737	1,2	21001	C10H20O	cyclohexanebutanol	4441-57-0	480.78	42.040	2
20897	C10H19NO	trans-octahydro-2H-quinolizine-1-methanol, (*	486-70-4	543.15	48.045	1,2	21002	C10H20O	alpha-methylcyclohexanepropanol	10528-67-3	480.78	42.040	2
20898	C10H19NO2	N-tert-butylaminoethyl methacrylate	3775-90-4	490.15	42.939	2	21003	C10H20O	2,6,6-trimethylcycloheptanol	33515-82-1	489.15	42.843	1,2
20899	C10H19NO2	ethyl 1-piperidinepropanoate	19653-33-9	490.15	42.939	1,2	21004	C10H20O	9-decen-1-ol	13019-22-2	509.15	44.764	1,2
20900	C10H19NO2	2-(diethylamino)ethyl methacrylate	105-16-8	490.15	42.939	2	21005	C10H20O	3,7-dimethyl-6-octen-3-ol	18479-51-1	480.78	42.040	2
20909	C10H19N2O4PS	phosphorothioic acid S-(((1-cyano-1-methyl-e*	3734-95-0	428.15	37.026	1,2	21006	C10H20O	3,7-dimethyl-7-octen-1-ol, (S)	6812-78-8	480.78	42.040	2
20911	C10H19O5P	ethyl 2-(diethoxyphosphinyl)but-2-enoate	20345-62-4	408.15	35.134	2	21007	C10H20O	2-ethylhexyl vinyl ether	103-44-6	480.78	42.040	2
20912	C10H19O5P	triethyl 4-phosphonocrotonate, isomers	10236-14-3	408.15	35.134	1,2	21008	C10H20O	octyl vinyl ether	929-62-4	459.15	39.973	1,2
20913	C10H19O6P	2-carboethoxy-1-methylvinyl-diethylphosphate	5675-57-0	403.65	34.709	1,2	21009	C10H20O	m-menthan-6-ol	1490-05-7	480.78	42.040	2
20922	C10H20	pentylcyclopentane	3741-00-2	453.76	38.953	1,2	21010	C10H20O	menthol, (±)	15356-70-4	489.15	42.843	1,2
20923	C10H20	butylcyclohexane	1678-93-9	454.13	38.744	1,2	21011	C10H20O	1-methyl-4-isopropylcyclohexanol	21129-27-1	481.65	42.124	1,2
20924	C10H20	tert-butylcyclohexane	3178-22-1	444.65	34.268	1,2	21012	C10H20O	2-methyl-5-isopropylcyclohexanol, [1R-(1alph*	5563-78-0	490.65	42.986	1,2
20925	C10H20	sec-butylcyclohexane	7058-01-7	452.45	36.489	1,2	21013	C10H20O	2-methyl-1-propylcyclohexanol	24580-48-1	480.78	42.040	2
20926	C10H20	isobutylcyclohexane	1678-98-4	444.45	34.213	1,2	21014	C10H20O	3-methyl-1-propylcyclohexanol	24580-52-7	472.15	41.215	1,2
20927	C10H20	1-methyl-1-propylcyclohexane	4258-93-9	445.15	34.404	1,2	21015	C10H20O	4-tert-butylcyclohexanol; (cis+trans)	98-52-2	480.78	42.040	2
20928	C10H20	1-methyl-2-propylcyclohexane	4291-79-6	449.15	35.525	1,2	21016	C10H20O	(±)-b-citronellol	106-22-9	496.40	43.538	1,2
20929	C10H20	1-methyl-3-propylcyclohexane	4291-80-9	437.65	32.436	1,2	21017	C10H20O	(R)-(+)-b-citronellol	1117-61-9	480.78	42.040	2
20930	C10H20	1-methyl-4-propylcyclohexane	4291-81-0	448.65	35.382	1,2	21018	C10H20O	(-)-b-citronellol	7540-51-4	498.65	43.754	1,2
20931	C10H20	1-methyl-2-isopropylcyclohexane	16580-23-7	444.15	34.132	1,2	21019	C10H20O	5-decanone	820-29-1	477.05	41.683	1,2
20932	C10H20	1-methyl-3-isopropylcyclohexane	16580-24-8	439.65	32.945	1,2	21020	C10H20O	trans-5-decen-1-ol	56578-18-8	480.78	42.040	2
20933	C10H20	1-methyl-4-isopropylcyclohexane	99-82-1	443.85	34.051	1,2	21021	C10H20O	cis-4-decen-1-ol	57074-37-0	480.78	42.040	2
20934	C10H20	cis-1-methyl-4-isopropylcyclohexane	6069-98-3	445.15	34.404	1,2	21022	C10H20O	dihydromyrcenol	18479-58-8	480.78	42.040	2
20935	C10H20	trans-1-methyl-4-isopropylcyclohexane	1678-82-6	443.75	34.024	1,2	21023	C10H20O	1,2-epoxydecane	2404-44-6	480.78	42.040	2
20936	C10H20	1,1,3,4-tetramethylcyclohexane	24612-75-7	433.15	31.330	1,2	21024	C10H20O	(R)-(+)-1,2-epoxydecane	67210-36-0	480.78	42.040	2
20937	C10H20	trans-1,1,3,5-tetramethylcyclohexane	50876-31-8	429.55	30.482	1,2	21025	C10H20O	isodecanal	1321-89-7	470.15	41.024	1,2
20938	C10H20	cis-1,1,3,5-tetramethylcyclohexane	50876-32-9	425.65	29.602	1,2	21026	C10H20O	(1S,2R,5R)-(+)-isomenthol	23283-97-8	491.65	43.082	1,2
20939	C10H20	diethylcyclohexane; (mixed isomers)	1331-43-7	447.15	34.958	1,2	21027	C10H20O	(1S,2R,5S)-(+)-menthol	15356-60-2	480.78	42.040	2
20940	C10H20	1,1,2-trimethylcycloheptane	35099-89-9	439.96	38.146	2	21028	C10H20O	(1R,2S,5R)-(-)-menthol	2216-51-5	487.40	42.675	1,2
20941	C10H20	1,1,4-trimethylcycloheptane	2158-55-6	437.15	37.880	1,2	21029	C10H20O	menthol	89-78-1	487.45	42.680	1,2
20942	C10H20	cyclodecane	293-96-9	475.15	40.704	1,2	21030	C10H20O	(1S,2S,5R)-(+)-neomenthol	2216-52-6	480.78	42.040	2
20943	C10H20	1-decene	872-05-9	443.75	39.358	1,2	21031	C10H20O	trans-4-(1,1-dimethylethyl)cyclohexanol	21862-63-5	480.78	42.040	2
20944	C10H20	4-decene	19689-18-0	443.75	38.507	1,2	21032	C10H20O	cis-4-(1,1-dimethylethyl)cyclohexanol	937-05-3	480.78	42.040	2
20945	C10H20	cis-5-decene	7433-78-5	444.15	38.545	1,2	21033	C10H20O	[1R-(1a,2a,5b)]-5-methyl-2-(1-methylethyl)cy*	20747-49-3	480.78	42.040	2
20946	C10H20	trans-5-decene	7433-56-9	444.15	38.545	1,2	21034	C10H20O	2-methyl-3-nonanone	5445-31-8	473.00	41.296	1,2
20947	C10H20	2-methyl-1-nonene	2980-71-4	441.55	38.616	1,2	21035	C10H20O	2,6-dimethyl-1-octen-8-ol	141-25-3	480.78	42.040	2
20947.1	C10H20	cis-2-decene	20348-51-0	447.00	39.970	1,2	21036	C10H20O	2-isopropyl-5-methyl-2-hexen-1-ol	40853-53-0	480.78	42.040	2
20947.2	C10H20	trans-2-decene	20063-97-2	446.00	40.027	1,2	21037	C10H20O	p-menthan-8-ol	498-81-7	480.78	42.040	2
20947.3	C10H20	8-methyl-1-nonene	26741-24-2	443.65	39.214	1,2	21038	C10H20O	tetrahydroneral	5988-91-0	403.15	24.278	1,2
20947.4	C10H20	1,1-diethylcyclohexane	78-01-3	449.82	39.800	1,2	21039	C10H20OSi	1-triethylsiloxy-1,3-butadiene; (cis+trans)	79746-17-1	395.65	33.956	1,2
20947.5	C10H20	1,2,3,4-tetramethylcyclohexane	3726-45-2	449.20	39.637	1,2	21040	C10H20O2	decanoic acid	334-48-5	543.15	75.126	1,2
20948	C10H20	2-methyl-3-nonene	53966-53-3	434.15	37.595	1,2	21041	C10H20O2	2,2-dimethyloctanoic acid	29662-90-6	473.73	34.047	2
20949	C10H20	5-methyl-4-nonene	15918-07-7	439.96	38.146	2	21042	C10H20O2	3-methylnonanoic acid	35205-79-9	473.73	34.047	2
20950	C10H20	3,7-dimethyl-1-octene	4984-01-4	427.15	33.826	1,2	21043	C10H20O2	nonyl formate	5451-92-3	485.72	43.031	2
20951	C10H20	2,6-dimethyl-2-octene	4057-42-5	436.15	37.785	1,2	21044	C10H20O2	2-ethylhexyl acetate	103-09-3	471.75	43.611	1,2
20952	C10H20	4-propyl-3-heptene	4485-13-6	433.65	37.547	1,2	21045	C10H20O2	octyl acetate	112-14-1	484.45	43.135	1,2
20953	C10H20	2,4,6-trimethyl-3-heptene, isomer	123434-07-1	439.96	38.146	2	21046	C10H20O2	6-methyl-2-heptyl acetate	67952-57-2	460.15	40.069	1,2
20954	C10H20	2,2,5,5-tetramethylhex-3-ene	22808-06-6	397.45	26.173	1,2	21047	C10H20O2	6-methyl-3-heptyl acetate	32764-34-4	457.65	39.830	1,2
20955	C10H20	cis-1,2-di-tert-butylethene	692-47-7	439.96	38.146	2	21048	C10H20O2	2-methylheptyl acetate, (±)	74112-36-0	468.15	40.833	1,2
20956	C10H20	(E)-2,2,5,5-tetramethylhex-3-ene	692-48-8	398.35	26.367	1,2	21049	C10H20O2	heptyl propanoate	2216-81-1	483.15	42.775	1,2
20958	C10H20Br2	1,1-dibromodecane	59104-80-2	550.15	53.211	1,2	21050	C10H20O2	hexyl butanoate	2639-63-6	479.15	41.870	1,2
20959	C10H20Br2	1,10-dibromodecane	4101-68-2	550.15	48.723	2	21051	C10H20O2	1-methylpentyl butanoate, (S)	116723-96-7	473.73	41.366	2
20960	C10H20Br2	5,6-dibromodecane	77928-86-0	550.15	48.723	2	21052	C10H20O2	isopentyl isovalerate	659-70-1	467.15	43.154	1,2
20962	C10H20Cl2	1,1-dichlorodecane	3162-62-7	520.15	47.296	1,2	21053	C10H20O2	1,1-dimethylpropyl 3-methylbutanoate	542-37-0	446.65	31.310	1,2
20963	C10H20Cl2	1,10-dichlorodecane	2162-98-3	520.15	45.824	2	21054	C10H20O2	isopentyl pentanoate	2050-09-1	473.73	41.366	2
20964	C10H20CdN2S4	bis(diethyldithiocarbamato)cadmium	14239-68-0	367.45	31.309	1,2	21055	C10H20O2	pentyl pentanoate	2173-56-0	476.85	41.664	1,2
20966	C10H20F2	1,1-difluorodecane	62127-43-9	456.15	40.311	1,2	21056	C10H20O2	butyl hexanoate	626-82-4	481.15	42.076	1,2
20967	C10H20HgN2S4	bis(diethyldithiocarbamato)mercury	14239-51-1	361.90	30.791	1,2	21057	C10H20O2	isobutyl 4-methylpentanoate	25415-70-7	445.15	36.362	1,2
20968	C10H20I2	1,1-diiododecane	66291-57-4	614.04	56.023	2	21058	C10H20O2	propyl heptanoate	7778-87-2	481.15	42.076	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
21059	C10H20O2	ethyl 2-ethylhexanoate	2983-37-1	473.73	41.366	2	21159	C10H22	3-ethyl-5-methylheptane	52896-90-9	431.36	37.698	1,2
21060	C10H20O2	ethyl octanoate	106-32-1	481.65	42.124	1,2	21160	C10H22	3-ethyl-4-methylheptane	52896-91-0	436.16	37.740	1,2
21061	C10H20O2	7-hydroxy-3,7-dimethyloctanal	107-75-5	473.73	41.366	2	21161	C10H22	4-ethyl-4-methylheptane	17302-04-4	433.96	37.321	1,2
21062	C10H20O2	4-hydroxy-2,2,5,5-tetramethyl-3-hexanone	815-66-7	473.73	41.366	2	21162	C10H22	2,2,3-trimethylheptane	52896-92-1	430.76	37.112	1,2
21063	C10H20O2	methyl nonanoate	1731-84-6	486.65	42.603	1,2	21163	C10H22	2,2,4-trimethylheptane	14720-74-2	421.46	36.401	1,2
21064	C10H20O2	(R)-(+)-glycidyl heptyl ether	121906-44-3	473.73	41.366	2	21164	C10H22	2,2,5-trimethylheptane	20291-95-6	423.96	36.652	1,2
21065	C10H20O2	2-hexenal diethyl acetal; predominantly trans	54306-00-2	473.73	41.366	2	21165	C10H22	2,2,6-trimethylheptane	1190-83-6	422.09	36.736	1,2
21066	C10H20O2	8-methylnonanoic acid	5963-14-4	473.73	34.047	2	21166	C10H22	2,3,3-trimethylheptane	52896-93-2	433.36	37.196	1,2
21067	C10H20O2	neodecanoic acid	26896-20-8	528.15	46.595	1,2	21167	C10H22	2,3,4-trimethylheptane	52896-95-4	433.06	37.321	1,2
21068	C10H20O2	tert-decanoic acid	52627-73-3	473.73	34.047	2	21168	C10H22	2,3,5-trimethylheptane	20278-85-7	433.86	37.154	1,2
21069	C10H20O2	ethyl cis-3-hexenyl acetal	28069-74-1	473.73	41.366	2	21169	C10H22	2,3,6-trimethylheptane	4032-93-3	429.16	37.321	1,2
21070	C10H20O2	trans-2-hexenal diethyl acetal	67746-30-9	473.73	41.366	2	21170	C10H22	2,4,4-trimethylheptane	4032-92-2	424.16	36.359	1,2
21071	C10H20O2	n-hexyl isobutyrate	2349-07-7	473.73	41.366	2	21171	C10H22	2,4,5-trimethylheptane	20278-84-6	429.66	37.112	1,2
21072	C10H20O2	2-hexyl-4-methyl-1,3-dioxolane	4351-10-4	419.65	36.221	1,2	21172	C10H22	2,4,6-trimethylheptane	2613-61-8	420.76	36.903	1,2
21073	C10H20O2	isobutyl hexanoate	105-79-3	427.05	31.065	1,2	21173	C10H22	2,5,5-trimethylheptane	1189-99-7	425.96	36.777	1,2
21074	C10H20O2	2-(4-isobutylphenyl)butyric acid	55837-18-8	473.73	34.047	2	21174	C10H22	3,3,4-trimethylheptane	20278-87-9	435.06	37.196	1,2
21075	C10H20O2	1-isopropyl-4-methylcyclohane hydroperoxide	52061-60-6	473.73	41.366	2	21175	C10H22	3,3,5-trimethylheptane	7154-80-5	428.85	36.652	1,2
21076	C10H20O2	p-menthane-8-hydroperoxide	80-47-7	473.73	41.366	2	21176	C10H22	3,4,4-trimethylheptane	20278-88-0	434.26	37.070	1,2
21077	C10H20O2	4-nonanecarboxylic acid	31080-39-4	473.73	34.047	2	21177	C10H22	3,4,5-trimethylheptane	20278-89-1	435.66	37.447	1,2
21080	C10H20O2SSn	2,2-dibutyl-1,3,2-oxathiastannolane-5-oxide	78-20-6	392.15	33.626	1,2	21178	C10H22	3-isopropyl-2-methylhexane	62016-13-1	439.86	36.610	1,2
21081	C10H20O3	1,1,3-triethoxy-2-butene	69190-65-4	465.65	40.594	1,2	21179	C10H22	3,3-diethylhexane	17302-02-2	439.46	37.614	1,2
21082	C10H20O3	heptanal-1,2-glyceryl acetal	1708-35-6	465.65	40.594	2	21180	C10H22	3,4-diethylhexane	19398-77-7	437.06	37.656	1,2
21083	C10H20O4	diethylene glycol monobutyl ether acetate	124-17-4	518.15	45.631	1,2	21181	C10H22	3-ethyl-2,2-dimethylhexane	20291-91-2	429.26	36.694	1,2
21084	C10H20O4	1,1,2,2-tetramethoxycyclohexane	163125-34-6	518.15	45.631	2	21182	C10H22	4-ethyl-2,2-dimethylhexane	52896-99-8	420.16	36.233	1,2
21086	C10H20O5	lead ionophore v	33100-27-5	274.95	22.765	1,2	21183	C10H22	3-ethyl-2,3-dimethylhexane	52897-00-4	436.86	37.196	1,2
21087	C10H20O5Si	3-(trimethoxysilyl)propyl methacrylate	2530-85-0	463.15	40.355	1,2	21184	C10H22	4-ethyl-2,3-dimethylhexane	52897-01-5	434.06	37.238	1,2
21088	C10H20S	thiacycloundecane	408-32-2	527.15	45.464	1,2	21185	C10H22	3-ethyl-2,4-dimethylhexane	7220-26-0	433.26	37.154	1,2
21090	C10H21Br	1-bromodecane	112-29-8	513.75	47.814	1,2	21186	C10H22	4-ethyl-2,4-dimethylhexane	52897-03-7	434.26	37.070	1,2
21091	C10H21Br	2-bromodecane	39563-53-6	513.75	45.207	2	21187	C10H22	3-ethyl-2,5-dimethylhexane	52897-04-8	427.26	36.819	1,2
21093	C10H21Cl	1-chlorodecane	1002-69-3	499.02	45.048	1,2	21188	C10H22	4-ethyl-3,3-dimethylhexane	52897-05-9	436.06	37.112	1,2
21094	C10H21Cl	decyl chloride (mixed isomers)	28519-06-4	499.02	43.790	2	21189	C10H22	3-ethyl-3,4-dimethylhexane	52897-06-0	435.26	36.987	1,2
21097	C10H21F	1-fluorodecane	334-56-5	459.35	41.296	1,2	21190	C10H22	2,2,3,3-tetramethylhexane	13475-81-5	433.48	36.359	1,2
21100	C10H21I	1-iododecane	2050-77-3	536.85	55.840	1,2	21191	C10H22	2,2,3,4-tetramethylhexane	52897-08-2	431.96	36.401	1,2
21102	C10H21N	cyclohexyldiethylamine	91-65-6	465.15	40.546	1,2	21192	C10H22	2,2,3,5-tetramethylhexane	52897-09-3	421.56	36.233	1,2
21103	C10H21N	N,alpha-dimethylcyclohexaneethanamine	101-40-6	478.15	41.789	1,2	21193	C10H22	2,2,4,4-tetramethylhexane	51750-65-3	426.96	35.062	1,2
21104	C10H21N	1,2,2,6,6-pentamethylpiperidine	79-55-0	420.15	36.268	1,2	21194	C10H22	2,2,4,5-tetramethylhexane	16747-42-5	421.04	35.815	1,2
21105	C10H21N	1-pentylpiperidine	10324-58-0	471.35	41.138	1,2	21195	C10H22	2,2,5,5-tetramethylhexane	1071-81-4	410.63	35.271	1,2
21106	C10H21N	N-tert-butylcyclohexylamine	51609-06-4	446.15	38.735	1,2	21196	C10H22	2,3,3,4-tetramethylhexane	52897-10-6	437.75	36.987	1,2
21107	C10H21NO	3-(aminomethyl)-3,5,5-trimethylcyclohexanol	15647-11-7	538.15	47.561	1,2	21197	C10H22	2,3,3,5-tetramethylhexane	52897-11-7	426.26	36.275	1,2
21108	C10H21NO	decanamide	2319-29-1	524.65	46.258	2	21198	C10H22	2,3,4,4-tetramethylhexane	52897-12-8	434.76	36.652	1,2
21109	C10H21NO	N,N-dibutylacetamide	1563-90-2	524.65	46.258	2	21199	C10H22	2,3,4,5-tetramethylhexane	52897-15-1	429.36	36.861	1,2
21110	C10H21NO	2-isopropyl-N,2,3-trimethylbutyramide	51115-67-4	524.65	46.258	2	21200	C10H22	3,3,4,4-tetramethylhexane	5171-84-6	443.16	35.020	1,2
21111	C10H21NO	N,N-diisopropylisobutyramide	6282-98-0	524.65	46.258	2	21201	C10H22	2,4-dimethyl-3-isopropylpentane	13475-79-1	430.20	36.359	1,2
21112	C10H21NO	1,2,2,6,6-pentamethylpiperidin-4-ol	2403-89-6	511.15	44.956	1,2	21202	C10H22	3,3-diethyl-2-methylpentane	52897-16-2	442.86	37.530	1,2
21113	C10H21NO	N,N-dimethyloctanamide	1118-92-9	524.65	46.258	2	21203	C10H22	3-ethyl-2,2,3-trimethylpentane	52897-17-3	442.66	36.484	1,2
21116	C10H21NSSn	tripropyltin isothiocyanate	31709-32-7	481.15	42.076	1,2	21204	C10H22	3-ethyl-2,2,4-trimethylpentane	52897-18-4	428.46	36.150	1,2
21117	C10H21NO2	1-nitrodecane	4609-87-4	539.15	51.990	1,2	21205	C10H22	3-ethyl-2,3,4-trimethylpentane	52897-19-5	442.60	37.028	1,2
21118	C10H21NO2	decyl nitrite	1653-57-2	470.15	41.024	2	21206	C10H22	2,2,3,3,4-pentamethylpentane	16747-44-7	439.21	36.359	1,2
21119	C10H21NO2	7-aminoheptanoic acid, isopropyl ester	7790-12-7	470.15	41.024	2	21207	C10H22	2,2,3,4,4-pentamethylpentane	16747-45-8	432.45	35.313	1,2
21120	C10H21NO2	N,N-di(2-hydroxyethyl)cyclohexylamine	4500-29-2	401.15	34.474	1,2	21213	C10H22N2	4-amino-1,2,2,6,6-pentamethylpiperidine	---	489.65	42.891	1,2
21121	C10H21NO2S	1-butylsulfonimidocyclohexamethylene	64910-63-0	461.15	40.164	1,2	21214	C10H22N2	5-amino-1,3,3-trimethylcyclohexanemethylamine	2855-13-2	520.15	45.824	1,2
21122	C10H21NO3	decyl nitrate	2050-78-4	500.00	43.884	2	21215	C10H22N2	cis-1,8-diamino-p-menthane	54166-24-4	506.15	44.475	1,2
21123	C10H21NO3	N-(tert-butoxycarbonyl)-L-valinol	79069-14-0	481.15	42.076	1,2	21216	C10H22N2	1,8-diamino-p-menthane	80-52-4	505.32	44.395	2
21127	C10H21NO4Si	triethoxy(3-isocyanatopropyl)silane	24801-88-5	556.15	49.304	1,2	21217	C10H22N2O	1-amino-3-aminomethyl-3,5,5-trimethyl cycloh*	25724-35-0	389.15	33.344	2
21133	C10H22	decane	124-18-5	447.30	40.017	1,2	21218	C10H22N2O	di-n-amylnitrosamine	13256-06-9	389.15	33.344	2
21134	C10H22	2-methylnonane	871-83-0	440.15	38.138	1,2	21219	C10H22N2O	nitroso-N-methyl-n-nonylamine	75881-19-5	389.15	33.344	1,2
21135	C10H22	3-methylnonane	5911-04-6	440.95	38.106	1,2	21224	C10H22O	1-decanol	112-30-1	503.35	46.517	1,2
21136	C10H22	4-methylnonane	17301-94-9	438.85	38.505	1,2	21225	C10H22O	isodecanol	25339-17-7	493.00	53.278	1,2
21137	C10H22	5-methylnonane	15869-85-9	438.30	37.984	1,2	21226	C10H22O	2-decanol	1120-06-5	490.15	45.164	1,2
21138	C10H22	3-ethyloctane	5881-17-4	439.66	39.244	1,2	21227	C10H22O	2-decanol, (±)	74742-10-2	484.15	42.363	1,2
21139	C10H22	4-ethyloctane	15869-86-0	436.80	38.907	1,2	21228	C10H22O	3-decanol	1565-81-7	483.00	49.145	2
21140	C10H22	2,2-dimethyloctane	15869-87-1	430.05	37.152	1,2	21229	C10H22O	4-decanol	2051-31-2	483.15	49.160	1,2
21141	C10H22	2,3-dimethyloctane	7146-60-3	437.47	38.200	1,2	21230	C10H22O	5-decanol	5205-34-5	474.15	48.208	1,2
21142	C10H22	2,4-dimethyloctane	4032-94-4	429.06	37.823	1,2	21231	C10H22O	2-methyl-1-nonanol	40589-14-8	495.15	50.432	1,2
21143	C10H22	2,5-dimethyloctane	15869-89-3	431.66	37.823	1,2	21232	C10H22O	4-methyl-1-nonanol	1489-47-0	489.15	49.299	1,2
21144	C10H22	2,6-dimethyloctane	2051-30-1	433.54	38.200	1,2	21233	C10H22O	5-methyl-1-nonanol	2768-16-3	487.00	49.568	2
21145	C10H22	2,7-dimethyloctane	1072-16-8	433.03	38.242	1,2	21234	C10H22O	7-methyl-1-nonanol	33234-93-4	487.00	49.568	2
21146	C10H22	3,3-dimethyloctane	4110-44-5	434.36	37.614	1,2	21235	C10H22O	3-methyl-1-nonanol	22663-64-5	487.00	49.568	2
21147	C10H22	3,4-dimethyloctane	15869-92-8	436.56	38.033	1,2	21236	C10H22O	2-methyl-2-nonanol	10297-57-1	487.00	48.577	2
21148	C10H22	3,5-dimethyloctane	15869-93-9	432.56	37.740	1,2	21237	C10H22O	3-methyl-2-nonanol	60671-32-1	487.00	49.099	2
21149	C10H22	3,6-dimethyloctane	15869-94-0	433.96	38.074	1,2	21238	C10H22O	5-methyl-2-nonanol	66731-95-1	487.00	49.099	2
21150	C10H22	4,4-dimethyloctane	15869-95-1	430.66	37.238	1,2	21239	C10H22O	6-methyl-2-nonanol	66256-60-8	487.00	49.099	2
21151	C10H22	4,5-dimethyloctane	15869-96-2	435.29	37.865	1,2	21240	C10H22O	7-methyl-2-nonanol	66256-61-9	487.00	49.099	2
21152	C10H22	4-propylheptane	3178-29-8	430.66	38.116	1,2	21241	C10H22O	8-methyl-2-nonanol	14779-92-1	487.00	49.099	2
21153	C10H22	4-isopropylheptane	52896-87-4	432.06	37.447	1,2	21242	C10H22O	2-methyl-3-nonanol	26533-33-5	481.55	48.527	1,2
21154	C10H22	3-ethyl-2-methylheptane	14676-29-0	434.36	37.740	1,2	21243	C10H22O	3-methyl-3-nonanol	21078-72-8	482.00	48.058	2
21155	C10H22	4-ethyl-2-methylheptane	52896-88-5	429.36	37.363	1,2	21244	C10H22O	5-methyl-3-nonanol	66719-43-5	482.00	48.574	2
21156	C10H22	5-ethyl-2-methylheptane	13475-78-0	432.86	37.740	1,2	21245	C10H22O	2-methyl-4-nonanol	26533-31-3	482.00	48.574	2
21157	C10H22	3-ethyl-3-methylheptane	17302-01-1	436.96	37.530	1,2	21246	C10H22O	4-methyl-4-nonanol	23418-38-4	482.00	48.058	2
21158	C10H22	4-ethyl-3-methylheptane	52896-89-6	435.36	37.656	1,2	21247	C10H22O	5-methyl-4-nonanol	66719-44-6	482.00	48.574	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
21248	C10H22O	7-methyl-4-nonanol	26981-98-6	482.00	48.574	2	21328	C10H22O	2,2,4-trimethyl-3-ethyl-3-pentanol	66256-41-5	464.15	44.413	1,2
21249	C10H22O	2-methyl-5-nonanol	29843-62-7	482.00	48.574	2	21329	C10H22O	2,2,3,4,4-pentamethyl-3-pentanol	5857-69-2	467.55	43.857	1,2
21250	C10H22O	3-methyl-5-nonanol	66779-42-4	482.00	48.574	2	21330	C10H22O	2,3-dimethyl-2-tert-butyl-1-butanol	81931-81-9	466.00	44.598	2
21251	C10H22O	5-methyl-5-nonanol	33933-78-7	475.15	48.853	1,2	21331	C10H22O	3,7-dimethyl-3-octanol, (±)	57706-88-4	469.65	40.976	1,2
21252	C10H22O	2-ethyl-1-octanol	20592-10-3	482.00	49.039	2	21332	C10H22O	3,7-dimethyl-1-octanol, (±)	59204-02-3	485.65	42.507	1,2
21253	C10H22O	3-ethyl-1-octanol	66719-36-6	482.00	49.039	2	21333	C10H22O	3-ethyl-6-methyl-3-heptanol	66719-40-2	472.78	41.275	2
21254	C10H22O	2,2-dimethyl-1-octanol	2370-14-1	481.15	47.970	1,2	21334	C10H22O	8-methyl-1-nonanol	55505-26-5	472.78	41.275	2
21255	C10H22O	2,6-dimethyl-1-octanol	62417-08-7	483.00	48.679	2	21335	C10H22O	di-pentyl ether	693-65-2	459.90	41.670	1,2
21256	C10H22O	3,7-dimethyl-1-octanol	106-21-8	485.15	48.905	1,2	21336	C10H22O	diisopentyl ether	544-01-4	445.65	38.688	1,2
21257	C10H22O	4,5-dimethyl-1-octanol	66719-32-2	485.00	48.889	2	21337	C10H22O	ethyl octyl ether	929-61-3	459.45	40.002	1,2
21258	C10H22O	4,6-dimethyl-1-octanol	66719-33-3	485.00	48.889	2	21338	C10H22O	(S)-(+)-2-decanol	33758-16-6	484.15	42.363	1,2
21259	C10H22O	4,7-dimethyl-1-octanol	66719-34-4	485.00	48.889	2	21339	C10H22O	(R)-3,7-dimethyl-1-octanol	1117-60-8	485.70	42.512	1,2
21260	C10H22O	7,7-dimethyl-1-octanol	66719-35-5	485.00	48.370	2	21340	C10H22O	s-3,7-dimethyl-1-octanol	68680-98-8	485.00	42.830	2
21261	C10H22O	2,4-dimethyl-2-octanol	18675-20-2	485.00	47.908	2	21341	C10H22O	decyl alcohol (mixed isomers)	85566-12-7	472.78	41.275	2
21262	C10H22O	2,6-dimethyt-2-octanol	18479-57-7	485.00	47.908	2	21347	C10H22O2	1,2-decanediol	1119-86-4	553.15	65.387	2
21263	C10H22O	2,7-dimethyl-2-octanol	42007-73-8	485.00	47.908	2	21348	C10H22O2	1,4-decanediol	37810-94-9	585.15	69.306	2
21264	C10H22O	3,7-dimethyl-2-octanol	15340-96-2	485.00	48.423	2	21349	C10H22O2	1,10-decanediol	112-47-0	572.15	68.242	2
21265	C10H22O	3-ethyl-3-octanol	2051-32-3	472.15	47.035	1,2	21350	C10H22O2	2,9-decanediol	14021-92-2	503.47	44.217	2
21266	C10H22O	6-ethyl-3-octanol	19781-27-2	472.00	47.525	2	21351	C10H22O2	3,7-dimethyl-1,7-octanediol	107-74-4	538.15	47.561	1,2
21267	C10H22O	2,2-dimethyl-3-octanol	19841-72-6	467.00	46.057	2	21352	C10H22O2	3,4-diethyl-3,4-hexanediol	6931-71-1	503.15	44.187	1,2
21268	C10H22O	2,3-dimethyl-3-octanol	19781-10-3	462.25	45.569	1,2	21353	C10H22O2	1,1-diisobutoxyethane	5669-09-0	444.45	38.573	1,2
21269	C10H22O	2,7-dimethyl-3-octanol	66719-55-9	467.15	46.568	1,2	21354	C10H22O2	di-tert-pentyl peroxide	10508-09-5	503.47	44.217	2
21270	C10H22O	3,5-dimethyl-3-octanol	56065-42-0	466.00	45.954	2	21355	C10H22O2	ethylene glycol dibutyl ether	112-48-1	476.45	41.626	1,2
21271	C10H22O	3,6-dimethyl-3-octanol	151-19-9	465.15	45.867	1,2	21356	C10H22O2	ethylene glycol diisobutyl ether	54922-86-0	444.45	38.573	1,2
21272	C10H22O	3,7-dimethyl-3-octanol	78-69-3	469.15	46.278	1,2	21357	C10H22O2	(S)-1,2-decanediol	84276-14-2	503.47	44.217	2
21273	C10H22O	3-ethyl-4-octanol	63126-48-7	466.00	46.896	2	21358	C10H22O2	(R)-1,2-decanediol	87827-60-9	503.47	44.217	2
21274	C10H22O	4-ethyl-4-octanol	38395-42-5	466.00	46.397	2	21359	C10H22O2	2-(2-ethylhexyloxy)ethanol	1559-35-9	502.15	44.091	1,2
21275	C10H22O	2,2-dimethyl-4-octanol	66719-52-6	463.15	45.661	1,2	21360	C10H22O2	2-(octyloxy)ethanol	10020-43-6	503.47	44.217	2
21276	C10H22O	2,4-dimethyl-4-octanol	33933-79-8	464.00	45.748	2	21361	C10H22O2	6-methyl-5,7-dioxaundecane	871-22-7	415.43	35.821	1,2
21277	C10H22O	2,5-dimethyl-4-octanol	66719-53-7	464.00	46.241	2	21362	C10H22O2	1,3-decanediol	6071-27-8	503.47	76.110	2
21278	C10H22O	2,6-dimethyl-4-octanol	66719-54-8	468.15	45.750	1,2	21363	C10H22O2	ethyl hexyl acetal	54484-73-0	503.47	44.217	2
21279	C10H22O	2,7-dimethyl-4-octanol	19781-11-4	475.15	44.900	1,2	21367	C10H22O3	triisopropoxymethane	4447-60-3	440.15	38.165	1,2
21280	C10H22O	3,4-dimethyl-4-octanol	66719-30-0	464.00	45.748	2	21368	C10H22O3	tripropoxymethane	621-76-1	467.15	40.737	1,2
21281	C10H22O	3,6-dimethyl-4-octanol	66719-31-1	464.00	46.241	2	21369	C10H22O3	di(ethylene glycol) hexyl ether	112-59-4	532.30	46.996	1,2
21282	C10H22O	4,6-dimethyl-4-octanol	56065-43-1	464.00	45.748	2	21370	C10H22O3	di(propylene glycol) tert-butyl ether, isome*	132739-31-2	494.15	43.322	1,2
21283	C10H22O	4,7-dimethyl-4-octanol	19781-13-6	465.15	45.867	1,2	21371	C10H22O3	di(propylene glycol) butyl ether, isomers	35884-42-5	500.15	43.899	1,2
21284	C10H22O	2-propyl-1-heptanol	10042-59-8	491.05	49.997	1,2	21372	C10H22O3	diethylene glycol-mono-2-methylpentyl ether	10143-56-3	486.78	42.615	2
21285	C10H22O	3-isopropyl-1-heptanol	38514-15-7	488.35	49.240	1,2	21373	C10H22O3	dipropylene glycol butyl ether	29911-28-2	486.78	42.615	2
21286	C10H22O	2,4,6-trimethyl-2-heptanol	66256-47-1	466.00	45.514	2	21374	C10H22O3	hexoxyacetaldehyde dimethylacetal	17597-95-4	486.78	42.615	2
21287	C10H22O	2,5,6-trimethyl-2-heptanol	66256-48-2	466.15	45.529	1,2	21375	C10H22O3S	dipentyl sulfite	2051-05-0	524.65	46.258	2
21288	C10H22O	4,6,6-trimethyl-2-heptanol	51079-79-9	466.00	45.514	2	21376	C10H22O4	2-[2-(2-butoxyethoxy)ethoxy]ethanol	143-22-6	551.15	48.820	1,2
21289	C10H22O	2-methyl-3-ethyl-3-heptanol	66719-37-7	466.15	45.969	1,2	21377	C10H22O4	propasol solvent tm	20324-33-8	519.25	45.737	1,2
21290	C10H22O	4-methyl-5-ethyl-3-heptanol	66731-94-0	466.00	46.449	2	21378	C10H22O4	(2-(2-methoxy methyl ethoxy)methyl ethoxy)pr*	25498-49-1	535.20	47.276	2
21291	C10H22O	5-methyl-3-ethyl-3-heptanol	---	466.00	45.954	2	21379	C10H22O4S	dipentyl sulfate	5867-98-1	551.31	48.835	2
21292	C10H22O	2,2,3-trimethyl-3-heptanol	29772-40-5	459.15	44.339	1,2	21380	C10H22O5	tetraethylene glycol dimethyl ether	143-24-8	548.95	57.850	1,2
21293	C10H22O	2,2,6-trimethyl-3-heptanol	66256-43-7	463.00	45.208	2	21385	C10H22S	decyl mercaptan	143-10-2	512.35	47.259	1,2
21294	C10H22O	2,3,6-trimethyl-3-heptanol	58046-40-5	463.00	45.208	2	21386	C10H22S	2-decanethiol	13402-60-3	501.45	44.783	1,2
21295	C10H22O	3,5,5-trimethyl-3-heptanol	66256-50-6	468.75	45.306	1,2	21387	C10H22S	dipentyl sulfide	872-10-6	500.00	49.559	2
21296	C10H22O	4-propyl-4-heptanol	2198-72-3	467.15	46.517	1,2	21388	C10H22S	methyl nonyl sulfide	59973-07-8	500.00	49.559	2
21297	C10H22O	4-isopropyl-4-heptanol	51200-82-9	463.15	45.661	1,2	21389	C10H22S	ethyl octyl sulfide	3698-94-0	500.00	49.559	2
21298	C10H22O	2,2,4-trimethyl-4-heptanol	57233-31-5	454.15	43.835	1,2	21390	C10H22S	propyl heptyl sulfide	24768-46-5	500.00	49.559	2
21299	C10H22O	2,2,5-trimethyl-4-heptanol	66256-42-6	455.00	44.394	2	21391	C10H22S	butyl hexyl sulfide	16967-04-7	500.00	49.559	2
21300	C10H22O	2,2,6-trimethyl-4-heptanol	66256-44-8	455.00	44.394	2	21392	C10H22S	bis(2-methylbutyl) sulfide	96034-00-3	438.15	26.773	1,2
21301	C10H22O	2,4,5-trimethyl-4-heptanol	66256-46-0	455.00	44.394	2	21393	C10H22S	diisopentyl sulfide	544-02-5	489.20	39.269	1,2
21302	C10H22O	2,4,6-trimethyl-4-heptanol	60836-07-9	455.15	44.410	1,2	21394	C10H22S2	dipentyl disulfide	112-51-6	537.06	51.045	1,2
21303	C10H22O	3,3,6-trimethyl-4-heptanol	---	455.00	44.394	2	21395	C10H22S2	diisopentyl disulfide	2051-04-9	520.15	45.824	1,2
21304	C10H22O	4-methyl-2-propyl-1-hexanol	66256-62-0	481.15	48.485	1,2	21397	C10H23BO2	butyldiisopropoxyborane	86595-32-6	419.15	36.173	1,2
21305	C10H22O	4-methyl-2-isopropyl-1-hexanol	66719-41-3	474.15	47.243	1,2	21398	C10H23ClOSi	tert-butyl(4-chlorobutoxy)dimethylsilane	89031-83-4	474.15	41.406	1,2
21306	C10H22O	5-methyl-2-isopropyl-1-hexanol	2051-33-4	486.15	48.543	1,2	21399	C10H23ClSi	chloro(dimethyl)octylsilane	18162-84-0	496.60	43.558	1,2
21307	C10H22O	5,5-dimethyl-2-ethyl-1-hexanol	---	486.00	48.011	2	21400	C10H23N	decylamine	2016-57-1	493.65	46.841	1,2
21308	C10H22O	2,3,4,4-tetramethyl-2-hexanol	66256-66-4	463.15	44.313	1,2	21401	C10H23N	methylnonylamine	39093-27-1	480.15	44.615	1,2
21309	C10H22O	3,3,5,5-tetramethyl-2-hexanol	66256-69-7	463.00	44.298	2	21402	C10H23N	dimethyloctylamine	7378-99-6	464.15	40.099	1,2
21310	C10H22O	2-methyl-3-isopropyl-3-hexanol	51200-81-8	465.15	45.381	1,2	21403	C10H23N	diethylhexylamine	44979-90-0	452.15	41.150	1,2
21311	C10H22O	2,2-dimethyl-4-ethyl-3-hexanol	66719-47-9	460.15	44.918	1,2	21404	C10H23N	ethyloctylamine	4088-36-2	475.15	43.952	1,2
21312	C10H22O	2,4-dimethyl-4-ethyl-3-hexanol	66719-48-0	460.00	44.903	2	21405	C10H23N	dipentylamine	2050-92-2	476.15	44.169	1,2
21313	C10H22O	5,5-dimethyl-3-ethyl-3-hexanol	5340-62-5	460.00	44.424	2	21406	C10H23N	diisopentylamine	544-00-3	461.15	40.164	1,2
21314	C10H22O	2,2,3,4-tetramethyl-3-hexanol	66256-63-1	465.15	44.513	1,2	21407	C10H23N	N,N-diisopropylisobutylamine	44976-81-0	445.00	39.710	2
21315	C10H22O	2,2,3,5-tetramethyl-3-hexanol	66256-64-2	513.48	49.349	2	21408	C10H23NO	N,N-diisobutylethanolamine	4535-66-4	487.15	42.651	1,2
21316	C10H22O	2,2,4,4-tetramethyl-3-hexanol	66256-65-3	463.15	44.313	1,2	21409	C10H23NO	2-dibutylaminoethanol	102-81-8	487.15	42.651	2
21317	C10H22O	2,2,5,5-tetramethyl-3-hexanol	55073-86-4	443.15	42.319	1,2	21410	C10H23NO2	2,2-diethoxy-N,N-diethylethanamine	3616-57-7	467.65	40.785	1,2
21318	C10H22O	2,3,4,4-tetramethyl-3-hexanol	66256-67-5	474.15	45.412	1,2	21413	C10H23O2PS2	O-ethyl-S,S-di-sec-butylphosphorodithioate	95465-99-9	440.15	38.165	1,2
21319	C10H22O	2,3,5,5-tetramethyl-3-hexanol	5396-09-8	475.00	45.497	2	21416	C10H24NO3PS	amitron	78-53-5	383.15	32.780	1,2
21320	C10H22O	2,4,4,5-tetramethyl-3-hexanol	66256-68-6	475.00	45.986	2	21418	C10H24N2	N,N,N',N'-tetraethyl-1,2-ethanediamine	150-77-6	465.15	40.546	1,2
21321	C10H22O	3,4,4,5-tetramethyl-3-hexanol	66256-39-1	475.15	45.512	1,2	21419	C10H24N2	N,N,N',N'-tetramethyl-1,6-hexanediamine	111-18-2	482.65	42.220	1,2
21322	C10H22O	3,4,5,5-tetramethyl-3-hexanol	66256-40-4	468.15	44.813	1,2	21420	C10H24N2	N,N'-di-tert-butylethylenediamine	4062-60-6	470.15	41.024	1,2
21323	C10H22O	4-methyl-2-isobutyl-1-pentanol	22417-45-4	477.15	47.555	1,2	21421	C10H24N2	1,10-diaminodecane	646-25-3	485.03	42.447	2
21324	C10H22O	4,4-dimethyl-3-isopropyl-1-pentanol	66719-51-5	456.00	44.496	2	21422	C10H24N2	N,N'-dimethyl-1,8-octanediamine	33563-54-1	522.15	46.016	1,2
21325	C10H22O	3,4-dimethyl-3-isopropyl-2-pentanol	66719-50-4	456.00	44.025	2	21423	C10H24N2	N-butyl-1,6-hexanediamine	38615-43-9	485.03	42.447	2
21326	C10H22O	2,4-dimethyl-3-propyl-3-pentanol	---	457.15	44.613	1,2	21424	C10H24N2O2	(R,R)-(-)-2,3-dimethoxy-1,4-bis(dimethylamin*	26549-22-4	336.15	28.394	1,2
21327	C10H22O	2,4-dimethyl-3-isopropyl-3-pentanol	51200-83-0	467.65	45.199	1,2	21425	C10H24N2O2	4,9-dioxa-1,12-dodecanediamine	7300-34-7	571.15	50.761	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
21426	C10H24N2O2	bis(2-dimethylaminoethoxy)ethane	3065-46-1	453.65	39.449	2	21632	C11H10N2O2S	N-(2-benzothiazolyl)-acetoacetamide	4692-94-8	354.15	30.068	1,2
21427	C10H24N2O2	tibutol	74-55-5	453.65	39.449	2	21639	C11H10N4	2-amino-6-methyldipyrido(1,2-a:3',2'-d)imida*	67730-11-4	337.85	28.551	1,2
21431	C10H24N2O8S2	lycurim	4148-16-7	610.65	54.611	1,2	21640	C11H10N4	2-amino-3-methylimidazo(4,5-f)quinoline	76180-96-6	344.65	29.183	1,2
21438	C10H24O3Si	methyl-tripropoxysilane	5581-66-8	463.65	40.403	2	21642	C11H10N4O4	2-formylquinoxaline-1,4-dioxide carbomethoxy*	6804-07-5	337.65	28.533	1,2
21439	C10H24O3Si	triethoxy(isobutyl)silane	17980-47-1	463.65	40.403	1,2	21644	C11H10N4S	isoquinaldehyde thiosemicarbazone	2365-26-6	344.95	29.211	1,2
21440	C10H24O4P2S5	phosphorodithioic acid, O,O-diethyl ester, S*	3772-51-8	458.55	39.916	1,2	21645	C11H10N6O5	2,4-diacetamido-6-(5-nitro-2-furyl)-S-triazi*	51325-35-0	335.15	28.301	1,2
21443	C10H24P2	1,2-bis(diethylphosphino)ethane	6411-21-8	397.15	34.097	1,2	21646	C11H10O	1-methoxynaphthalene	2216-69-5	542.15	47.948	1,2
21444	C10H24S2Sn	bis(butylthio)dimethyltin	1000-40-4	459.65	40.021	1,2	21647	C11H10O	2-methoxynaphthalene	93-04-9	547.15	48.432	1,2
21452	C10H27N4P	tert-butylimino-tris(dimethylamino)phosphora*	81675-81-2	448.15	38.925	1,2	21648	C11H10O	1-methyl-2-naphthalenol	1076-26-2	543.45	48.074	2
21460	C10H30N6OP2	1,1,3,3,3-pentakis(dimethylamino)-1l5,3l5-di*	91241-12-2	621.15	55.638	1,2	21649	C11H10O	4-methyl-1-naphthalenol	10240-08-1	543.45	48.074	2
21461	C10H30O3Si4	decamethyltetrasiloxane	141-62-8	467.15	40.737	1,2	21650	C11H10O	1-naphthalenemethanol	4780-79-4	577.15	51.344	1,2
21462	C10H30O3Si4	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl*	17928-28-8	467.15	40.737	2	21651	C11H10O	2-naphthalenemethanol	1592-38-7	543.45	48.074	2
21463	C10H30O5Si5	decamethylcyclopentasiloxane	541-02-6	483.15	42.268	1,2	21652	C11H10O	3-phenyl-2-cyclopenten-1-one	3810-26-2	507.35	44.591	1,2
21466	C11F20	perfluoro(methyldecalin), isomers	51294-16-7	421.65	36.410	1,2	21653	C11H10O	5-phenyl-2,4-pentadienal	13466-40-5	543.45	48.074	2
21467	C11F20	perfluoro-1-methyldecalin	306-92-3	432.50	37.438	1,2	21654	C11H10O2	3,4-dihydro-1-naphthalenecarboxylic acid	3333-23-1	579.15	51.539	1,2
21470	C11H3F19O2	methyl nonadecafluorodecanoate	307-79-9	466.15	40.641	1,2	21655	C11H10O2	3-ethyl-2H-1-benzopyran-2-one	66898-39-3	572.15	50.858	1,2
21484	C11H7ClO	2-naphthalenecarbonyl chloride	2243-83-6	578.15	51.441	1,2	21656	C11H10O2	ethyl 3-phenylpropynoate	2216-94-6	538.15	47.561	1,2
21485	C11H7ClO	1-naphthoyl chloride	879-18-5	570.75	50.722	1,2	21657	C11H10O2	furfuryl phenyl ether	4437-23-4	504.15	44.283	2
21496	C11H7N	1-naphthalenecarbonitrile	86-53-3	572.15	50.858	1,2	21658	C11H10O2	4-methoxy-1-naphthol	84-85-5	504.15	44.283	2
21497	C11H7N	2-naphthalenecarbonitrile	613-46-7	579.65	51.587	1,2	21659	C11H10O2	1,4,4-alpha,8-alpha-tetrahydro-endo-1,4-meth*	1200-89-1	504.15	44.283	2
21498	C11H7NO	1-isocyanatonaphthalene	86-84-0	542.15	47.948	1,2	21661	C11H10O2	1-(2H-1-benzopyran-3-yl)ethanone	51593-70-5	504.15	44.283	2
21499	C11H7NO	2-naphthyl isocyanate	2243-54-1	542.15	47.948	2	21662	C11H10O2	2-methyl-1,4-naphthalenediol	481-85-6	504.15	44.283	2
21500	C11H7NO	1,8-naphtholactam	130-00-7	542.15	47.948	2	21663	C11H10O2	propylidene phthalide	17369-59-4	327.15	27.560	1,2
21506	C11H8ClNO2S	2-(p-chlorophenyl)-4-thiazole acetic acid	17969-20-9	418.15	36.079	1,2	21664	C11H10O3	dihydro-3-phenyl-2H-pyran-2,6(3H)-dione	2959-96-8	403.85	34.728	2
21507	C11H8Cl2Hg2N2O2S	4,5-bis(chloromercuri)-2-thiazolecarbamic ac*	64050-46-0	403.15	34.662	1,2	21665	C11H10O3	dihydro-4-phenyl-2H-pyran-2,6(3H)-dione	4160-80-9	403.85	34.728	2
21519	C11H8N2O	5-cyano-3-indolylmethyl ketone	17380-19-7	365.15	31.094	1,2	21666	C11H10O3	ethyl 2-benzofurancarboxylate	3199-61-9	549.15	48.626	1,2
21523	C11H8N2O5	2-(2-furyl)-3-(5-nitro-2-furyl)acrylamide	3688-53-7	430.35	37.234	2	21667	C11H10O3	7-ethoxycoumarin	31005-02-4	403.85	34.728	2
21524	C11H8N2O5	trans-2-(2-furyl)-3-(5-nitro-2-furyl)acrylam*	18819-45-9	430.35	37.234	1,2	21669	C11H10O3	1-(6-methoxy-2-benzofuranyl)ethanone	52814-92-3	403.85	34.728	2
21525	C11H8O	1-naphthalenecarboxaldehyde	66-77-3	565.15	50.178	1,2	21670	C11H10O3	1-(7-methoxy-2-benzofuranyl)ethanone	43071-52-9	331.15	27.930	1,2
21526	C11H8O	2-naphthalenecarboxaldehyde	66-99-9	565.15	50.178	2	21671	C11H10O3	5-methoxy-2-benzofuranyl methyl ketone	21587-39-3	331.25	27.939	1,2
21527	C11H8OS	phenyl-2-thienylmethanone	135-00-2	573.15	50.955	1,2	21672	C11H10O3	3,4-methylenedioxybenzyl acetone	3160-37-0	403.85	34.728	2
21528	C11H8OS	phenyl-3-thienylmethanone	6453-99-2	573.15	50.955	2	21673	C11H10O4	5,7-dimethoxy-2H-1-benzopyran-2-one	487-06-9	473.15	41.310	2
21529	C11H8O2	2-furanylphenylmethanone	2689-59-0	558.15	49.498	1,2	21674	C11H10O4	2-acetoxycinnamic acid	5562-18-3	473.15	41.310	2
21530	C11H8O2	2-hydroxy-1-naphthalenecarboxaldehyde	708-06-5	558.15	49.498	2	21675	C11H10O4	6,7-dimethylesculetin	120-08-1	473.15	41.310	2
21531	C11H8O2	2-methyl-1,4-naphthalenedione	58-27-5	558.15	49.498	2	21676	C11H10S	2-methyl-5-phenylthiophene	5069-26-1	544.15	48.142	1,2
21532	C11H8O2	1-naphthalenecarboxylic acid	86-55-5	558.15	49.498	2	21679	C11H11BrO2	ethyl 2-bromo-3-phenylacrylate	57296-00-1	568.15	50.469	1,2
21533	C11H8O2	2-naphthalenecarboxylic acid	93-09-4	558.15	49.498	2	21680	C11H11BrO2	ethyl cis-3-bromo-3-phenylacrylate	1504-70-7	568.15	50.469	2
21534	C11H8O2	3-furyl phenyl ketone	6453-98-1	558.15	49.498	2	21681	C11H11BrO2	ethyl trans-4-bromocinnamate	24393-53-1	568.15	50.469	2
21541	C11H8O3	2-furyl p-hydroxyphenyl ketone	4682-94-4	341.65	28.904	2	21689	C11H11Cl2NO2	(±)-4-(dichloroacetyl)-3,4-dihydro-3-methyl-*	98730-04-2	513.15	45.149	1,2
21543	C11H8O3	2-methoxy-1,4-naphthalenedione	2348-82-5	341.65	28.904	1,2	21700	C11H11Hg2NO3	guaimercol	---	460.95	40.145	1,2
21546	C11H9Br	1-(bromomethyl)naphthalene	3163-27-7	569.15	50.566	2	21702	C11H11N	3-ethylquinoline	1873-54-7	539.15	50.074	1,2
21547	C11H9Br	2-(bromomethyl)naphthalene	939-26-4	569.15	50.566	2	21703	C11H11N	6-ethylquinoline	19655-60-8	536.00	49.768	2
21548	C11H9Br	1-bromo-2-methylnaphthalene	2586-62-1	569.15	50.566	1,2	21704	C11H11N	8-ethylquinoline	19655-56-2	529.15	49.104	1,2
21549	C11H9Br	1-bromo-4-methylnaphthalene	6627-78-7	569.15	50.566	2	21705	C11H11N	2,3-dimethylquinoline	1721-89-7	536.15	50.207	1,2
21551	C11H9Cl	1-(chloromethyl)naphthalene	86-52-2	564.65	50.129	1,2	21706	C11H11N	2,4-dimethylquinoline	1198-37-4	540.36	50.110	1,2
21552	C11H9Cl	1-chloro-2-methylnaphthalene	5859-45-0	564.65	50.129	2	21707	C11H11N	2,6-dimethylquinoline	877-43-0	538.56	49.935	1,2
21553	C11H9Cl	2-(chloromethyl)naphthalene	2506-41-4	564.65	50.129	2	21708	C11H11N	2,7-dimethylquinoline	93-37-8	537.65	50.087	1,2
21554	C11H9ClNO3	7-chloro-2-methyl-3,3a-dihydro-2H,9H-isoxazo*	29053-27-8	404.95	34.832	1,2	21709	C11H11N	2,8-dimethylquinoline	1463-17-8	523.15	48.443	1,2
21559	C11H9F11O2	3,3,4,4,5,6,6,6-octafluoro-5-(trifluoromethy*	65195-44-0	472.15	41.215	1,2	21710	C11H11N	3,4-dimethylquinoline	2436-92-2	564.15	46.773	1,2
21561	C11H9I3N2O4	diatrizoic acid	117-96-4	395.65	33.956	1,2	21711	C11H11N	3,6-dimethylquinoline	20668-26-2	543.15	50.380	1,2
21562	C11H9I3N2O4	iothalamic acid	2276-90-6	395.65	33.956	2	21712	C11H11N	3,7-dimethylquinoline	20668-28-4	544.15	50.477	1,2
21563	C11H9N	2-phenylpyridine	1008-89-5	544.15	48.142	1,2	21713	C11H11N	3,8-dimethylquinoline	20668-29-5	534.15	49.508	1,2
21564	C11H9N	3-phenylpyridine	1008-88-4	545.15	48.239	1,2	21714	C11H11N	4,5-dimethylquinoline	59129-74-7	538.00	49.881	2
21565	C11H9N	4-phenylpyridine	939-23-1	554.15	49.111	1,2	21715	C11H11N	4,6-dimethylquinoline	826-77-7	545.15	50.574	1,2
21566	C11H9N	2-vinylquinoline, stabilized	772-03-2	547.82	48.497	2	21716	C11H11N	4,8-dimethylquinoline	13362-80-6	546.00	50.656	2
21567	C11H9NO	1-naphthalenecarboxamide	2243-81-4	578.15	51.441	2	21717	C11H11N	5,6-dimethylquinoline	20668-30-8	546.00	50.656	2
21568	C11H9NO	phenyl-1H-pyrrol-2-ylmethanone	7697-46-3	578.15	51.441	1,2	21718	C11H11N	5,7-dimethylquinoline	20150-89-4	547.15	50.768	1,2
21569	C11H9NO	4-phenylpyridine-N-oxide	1131-61-9	578.15	51.441	2	21719	C11H11N	6,7-dimethylquinoline	20668-33-1	547.00	50.753	2
21572	C11H9NO2	1-methyl-4-nitronaphthalene	880-93-3	396.65	34.050	2	21720	C11H11N	2,5-dimethylquinoline	26190-82-9	537.65	51.727	1,2
21573	C11H9NO2	2-methyl-1-nitronaphthalene	881-03-8	396.65	34.050	2	21721	C11H11N	5,8-dimethylquinoline	2623-50-9	539.15	52.300	1,2
21577	C11H9NO2	methyl 3-isoquinolinecarboxylate	27104-73-0	396.65	34.050	2	21722	C11H11N	6,8-dimethylquinoline	2436-93-3	541.65	53.275	1,2
21578	C11H9NO2	2-methyl-N-phenylmaleimide	3120-04-5	396.65	34.050	2	21723	C11H11N	2-ethylquinoline	1613-34-9	518.65	45.210	1,2
21579	C11H9NO2	3-hydroxy-2-naphthamide	3665-51-8	396.65	34.050	2	21724	C11H11N	1-benzyl-1H-pyrrole	2051-97-0	520.15	45.824	1,2
21580	C11H9NO2	8-hydroxy-5-quinolyl methyl ketone	2598-31-4	396.65	34.050	1,2	21725	C11H11N	4-methyl-1-naphthalenamine	4523-45-9	537.36	47.485	2
21583	C11H9NO3	3-hydroxy-2-methyl-4-quinolinecarboxylic acid	117-57-7	523.15	46.113	2	21726	C11H11N	N-methyl-2-naphthalenamine	2216-67-3	590.15	52.610	1,2
21584	C11H9NO3	indole-3-pyruvic acid	392-12-1	523.15	46.113	2	21727	C11H11N	methyl-1-naphthylamine	2216-68-4	567.65	50.421	1,2
21585	C11H9NO3	1-methoxy-4-nitronaphthalene	4900-63-4	523.15	46.113	2	21728	C11H11N	2-naphthalenemethanamine	2018-90-8	537.36	47.485	2
21586	C11H9NO3	methyl 4-(cyanoacetyl)benzoate	69316-08-1	523.15	46.113	2	21729	C11H11N	1-(4-methylphenyl)-1-cyclopropanecarbonitrile	71172-78-6	537.36	47.485	2
21587	C11H9NO3	methyl 3-formylindole-6-carboxylate	133831-28-4	523.15	46.113	2	21730	C11H11N	1-(4-methylphenyl)-1H-pyrrole	827-60-1	537.36	47.485	2
21588	C11H9NO3	N-(2,3-epoxypropyl)-phthalimide	5455-98-1	523.15	46.113	2	21731	C11H11N	1-naphthylmethylamine	118-31-0	564.65	50.129	1,2
21589	C11H9NO3	5-methyl-3-phenylisoxazole-4-carboxylic acid	1136-45-4	523.15	46.113	1,2	21732	C11H11N	1-phenylcyclobutanecarbonitrile	14377-68-5	366.65	31.235	1,2
21595	C11H9N3	amino-a-carboline	26148-68-5	363.15	30.908	1,2	21733	C11H11N	4,7-dimethylquinoline	40941-54-6	556.20	49.309	1,2
21596	C11H9N3	3-aminonorharman	73834-77-2	375.85	32.096	1,2	21734	C11H11N	4-ethylquinoline	19020-26-9	545.70	48.292	1,2
21597	C11H9N3	aminoperimidine	28832-64-6	444.65	38.592	1,2	21735	C11H11N	3-methyl-2-naphthylamine	10546-24-4	537.36	47.485	2
21598	C11H9N3	3-amino-5H-pyrido(4,3-b)indole	69901-70-8	394.55	33.852	2	21736	C11H11NO	2,4-dimethyl-6-quinolinol	64165-34-0	633.15	56.813	2
21599	C11H9N3	4-phenylazopyridine	2569-58-6	394.55	33.852	2	21737	C11H11NO	2,4-dimethyl-8-quinolinol	115310-98-0	554.15	49.111	1,2
21601	C11H10	1-methylnaphthalene	90-12-0	517.83	45.821	1,2	21738	C11H11NO	2,8-dimethyl-4-quinolinol	15644-80-1	593.65	52.951	2
21602	C11H10	2-methylnaphthalene	91-57-6	514.20	46.278	1,2	21739	C11H11NO	1-(1H-indol-3-yl)-2-propanone	1201-26-9	593.65	52.951	2
21603	C11H10	methylnaphthalene	1321-94-4	515.15	45.906	1,2	21740	C11H11NO	6-methoxyquinaldine	1078-28-0	593.65	52.951	2
21617	C11H10I3NO3	2-(3-acetamido-2,4,6-triiodophenyl)propionic*	23217-81-4	470.15	41.024	1,2	21741	C11H11NO	4-amino-2-methyl-1-naphthol	83-70-5	593.65	52.951	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
21742	C11H11NO	indol-1-yl ethyl ketone	73747-53-2	593.65	52.951	2	21892	C11H12O3	1-(4-methoxyphenyl)-1-cyclopropanecarboxylic*	16728-01-1	507.15	44.572	2
21743	C11H11NO	1-methoxy-2-naphthylamine	3178-03-8	593.65	52.951	2	21893	C11H12O3	3-(4-methylbenzoyl)propionic acid	4619-20-9	507.15	44.572	2
21744	C11H11NO	2-quinolineethanol	1011-50-3	593.65	52.951	2	21894	C11H12O3	methyl 4-methoxycinnamate	832-01-9	507.15	44.572	2
21745	C11H11NO2	1-methyl-3-phenyl-2,5-pyrrolidinedione	86-34-0	607.15	54.269	2	21895	C11H12O3	2-methyl-3-(3,4-methylenedioxyphenyl)propanal	1205-17-0	507.15	44.572	2
21746	C11H11NO2	1-benzyl-2,5-pyrrolidinedione	2142-06-5	666.15	60.056	1,2	21896	C11H12O3	eugenol formate	10031-96-6	507.15	44.572	2
21747	C11H11NO2	ethyl 2-cyano-2-phenylacetate	4553-07-5	548.15	48.529	2	21897	C11H12O3	methyl-3-methoxy-4-hydroxy styryl ketone	1080-12-2	507.15	44.572	2
21748	C11H11NO2	3,4-dimethoxycinnamonitrile, cis and trans	6443-72-7	607.15	54.269	2	21899	C11H12O4	dimethyl phenylmalonate	37434-59-6	493.15	43.226	2
21749	C11H11NO2	ethyl indole-2-carboxylate	3770-50-1	607.15	54.269	2	21900	C11H12O4	benzylidene diacetate	581-55-5	493.15	43.226	1,2
21750	C11H11NO2	3-indolepropionic acid	830-96-6	607.15	54.269	2	21901	C11H12O4	benzyl methyl malonate	52267-39-7	493.15	43.226	2
21751	C11H11NO2	2-(hydroxyacetyl)-1-methylindole	52098-14-3	607.15	54.269	2	21902	C11H12O4	2,5-dimethoxycinnamic acid	10538-51-9	493.15	43.226	2
21752	C11H11NO2	2-(hydroxyacetyl)-3-methylindole	52098-15-4	607.15	54.269	2	21903	C11H12O4	3,4-dimethoxycinnamic acid	2316-26-9	493.15	43.226	2
21753	C11H11NO2	3-(hydroxyacetyl)-1-methylindole	23518-13-0	607.15	54.269	2	21904	C11H12O4	3,5-dimethoxycinnamic acid	16909-11-8	493.15	43.226	2
21754	C11H11NO2	3-(2-hydroxyacetyl)-2-methylindole	27463-04-3	607.15	54.269	2	21905	C11H12O4	3-(4-methoxybenzoyl)propionic acid	3153-44-4	493.15	43.226	2
21755	C11H11NO2	N-isopropylphthalimide	304-17-6	607.15	54.269	2	21906	C11H12O4	3-phenylglutaric acid	4165-96-2	493.15	43.226	2
21757	C11H11NO3	5-methoxyindole-3-acetic acid	3471-31-6	517.15	45.534	2	21907	C11H12O4	ethyl vanillin acetate	72207-94-4	493.15	43.226	2
21758	C11H11NO3	methyl (S)-(-)-2-isocyanato-3-phenylpropiona*	40203-94-9	517.15	45.534	1,2	21908	C11H12O5	3,5-dimethoxy-4-hydroxycinnamic acid, predom*	530-59-6	555.15	49.207	2
21759	C11H11NO3	methylcarbamic acid o-(2-propynyloxy)phenyl *	3279-46-7	517.15	45.534	2	21909	C11H12O5	methoxyethyl phthalate	16501-01-2	555.15	49.207	1,2
21760	C11H11NO3	3-propargloxyphenyl-N-methyl-carbamate	3692-90-8	517.15	45.534	2	21919	C11H13ClO	4-butylbenzoyl chloride	28788-62-7	539.15	47.658	2
21767	C11H11NO5	ethyl 4-nitrobenzoylacetate	838-57-3	404.65	34.804	2	21920	C11H13ClO	4-tert-butylbenzoyl chloride	1710-98-1	539.15	47.658	1,2
21768	C11H11NO5	1,3-benzodioxol-4-yl acetylmethylcarbamate	40373-39-5	404.65	34.804	2	21921	C11H13ClO	4-chloro-2-cyclopentylphenol	13347-42-7	539.15	47.658	2
21769	C11H11NO5	(2R,3R)-(+)-(2,3-epoxy butyl ester)-4-nitrob*	141782-32-3	404.65	34.804	2	21922	C11H13ClO	4-chloro-4'-methylbutyrophenone	38425-26-2	539.15	47.658	2
21770	C11H11NO5	(2S,3S)-(-)-(2,3-epoxy butyl ester)-4-nitrob*	106268-97-7	404.65	34.804	1,2	21923	C11H13ClO	p-chlorovalerophenone	25017-08-7	539.15	47.658	2
21771	C11H11NO5	(2R)-(-)-(2,3-epoxy-2-methyl propyl ester)-4*	106268-96-6	404.65	34.804	2	21944	C11H13N	4-(3-cyclohexen-1-yl)pyridine	70644-46-1	499.15	43.802	1,2
21772	C11H11NO5	(2S)-(+)-(2,3-epoxy-2-methyl propyl ester)-4*	118200-96-7	404.65	34.804	2	21945	C11H13N	3-ethyl-2-methyl-1H-indole	35246-18-5	565.15	50.178	1,2
21779	C11H11N3O3	3-benzyl-4-carbamoylmethylsydnone	14504-15-5	513.15	45.149	1,2	21946	C11H13N	1,2,3-trimethyl-1H-indole	1971-46-6	556.15	49.304	1,2
21787	C11H12	1,2-dihydro-3-methylnaphthalene	2717-44-4	492.63	43.176	2	21947	C11H13N	2,3,5-trimethyl-1H-indole	21296-92-4	570.15	50.663	1,2
21788	C11H12	1,2-dihydro-4-methylnaphthalene	4373-13-1	492.63	43.176	2	21948	C11H13N	3-methyl-2-phenylbutyronitrile	5558-29-2	519.15	45.727	1,2
21789	C11H12	2,3-dimethylindene	4773-82-4	498.15	43.706	1,2	21949	C11H13N	alpha-propylbenzeneacetonitrile	5558-78-1	528.15	46.595	1,2
21790	C11H12	2-ethyl-1H-indene	17059-50-6	492.63	43.176	2	21950	C11H13N	N-methyl-N-2-propynylbenzenemethanamine	555-57-7	533.83	47.144	2
21791	C11H12	1-phenyl-1-pentyne	4250-81-1	487.10	42.646	1,2	21951	C11H13N	1-benzyl-3-pyrroline	6913-92-4	533.83	47.144	2
21791.1	C11H12	p-isopropylenylstyrene	16262-48-9	515.00	0.046	1,2	21952	C11H13N	4-butylbenzonitrile	20651-73-4	533.83	47.144	2
21794	C11H12ClNO2	acetoacet-4-chloro-2-methylanilide	20139-55-3	447.15	38.830	1,2	21953	C11H13N	4-tert-butylbenzonitrile	4210-32-6	531.15	46.885	1,2
21816	C11H12N2	3,5-dimethyl-1-phenyl-1H-pyrazole	1131-16-4	545.15	48.239	1,2	21954	C11H13N	2,4,6-trimethylbenzylcyanide	34688-71-6	533.83	47.144	2
21817	C11H12N2	2-methyl-1,4-naphthalenediamine	83-68-1	545.15	48.239	2	21955	C11H13N	2,3,7-trimethylindole	27505-78-8	533.83	47.144	2
21818	C11H12N2	1-benzyl-2-methylimidazole	13750-62-4	545.15	48.239	2	21956	C11H13N	2,3,3-trimethylindolenine	1640-39-7	501.60	44.038	1,2
21819	C11H12N2O	1,2-dihydro-1,5-dimethyl-2-phenyl-3H-pyrazol*	60-80-0	592.15	52.805	1,2	21957	C11H13N	2-propyl-1H-indole	13228-41-6	533.83	47.144	2
21820	C11H12N2O	vasicine	6159-55-3	592.15	52.805	2	21958	C11H13NO	1-ethyl-1,3-dihydro-3-methyl-2H-indol-2-one	84258-49-1	556.15	49.304	1,2
21821	C11H12N2O	2,2-dimethyl-4-phenyl-2H-imidazole-1-oxide	23557-86-	592.15	52.805	2	21959	C11H13NO	3-methyl-4-phenyl-3-butenamide	7236-47-7	521.82	45.984	2
21822	C11H12N2O	1-(p-tolyl)-3-methylpyrazolone-5	86-92-0	592.15	52.805	2	21960	C11H13NO	(S)-(-)-4-benzyl-2-methyl-2-oxazoline	75866-72-7	494.15	43.322	1,2
21851	C11H12O	cyclobutylphenylmethanone	5407-98-7	533.15	47.078	1,2	21961	C11H13NO	1-benzyl-2-pyrrolidinone	5291-77-0	521.82	45.984	2
21852	C11H12O	6,7,8,9-tetrahydro-5H-benzocyclohepten-5-one	826-73-3	535.65	47.320	2	21962	C11H13NO	1-benzyl-3-pyrrolidinone	775-16-6	521.82	45.984	2
21853	C11H12O	2,3-dihydro-3,3-dimethyl-1H-inden-1-one	26465-81-6	535.65	47.320	2	21963	C11H13NO	4-butoxybenzonitrile	5203-14-5	515.15	45.342	1,2
21854	C11H12O	3,4-dihydro-2-methyl-1(2H)-naphthalenone	1590-08-5	535.65	47.320	2	21964	C11H13NO	4-butylphenyl isocyanate	69342-47-8	521.82	45.984	2
21855	C11H12O	3,4-dihydro-4-methyl-1(2H)-naphthalenone	19832-98-5	535.65	47.320	2	21965	C11H13NO	2,6-diethylphenyl isocyanate	20458-99-5	521.82	45.984	2
21856	C11H12O	2-(phenylmethylene)butanal	28467-92-7	516.15	45.438	1,2	21966	C11H13NO	4-dimethylaminocinnamaldehyde	6203-18-5	521.82	45.984	2
21857	C11H12O	1-phenyl-1-penten-3-one	3152-68-9	535.65	47.320	2	21967	C11H13NO	4,4-dimethyl-2-phenyl-2-oxazoline	19312-06-2	521.82	45.984	2
21858	C11H12O	2-ethyl-1-indanone	22351-56-0	535.65	47.320	2	21968	C11H13NO	2-isopropyl-6-methylphenyl isocyanate	102561-43-3	521.82	45.984	2
21859	C11H12O	1-methyl-2-tetralone	4024-14-0	534.15	47.175	1,2	21969	C11H13NO	1-(4-methylphenyl)-2-pyrrolidinone	3063-79-4	521.82	45.984	2
21860	C11H12O	2,2-dimethyl-2H-1-benzopyran	2513-25-9	535.65	47.320	2	21970	C11H13NO	O-methyl-1-acetylbenzocyclobutene oxime	6813-91-8	521.82	45.984	2
21861	C11H12O	3-methyl-4-phenyl-3-buten-2-one	1901-26-4	559.15	49.595	1,2	21971	C11H13NO2	hydrohydrastinine	494-55-3	576.15	51.247	1,2
21862	C11H12O2	3,4-dihydro-6-methoxy-1(2H)-naphthalenone	1078-19-9	533.71	47.132	2	21972	C11H13NO2	o-acetoacetotoluidide	93-68-5	576.15	51.247	2
21863	C11H12O2	ethyl trans-cinnamate	4192-77-2	544.65	48.190	1,2	21973	C11H13NO2	2-aminotetralin-2-carboxylic acid	74444-77-2	576.15	51.247	2
21864	C11H12O2	1-phenyl-1,4-pentanedione	583-05-1	533.71	47.132	2	21974	C11H13NO2	4-butoxyphenyl isocyanate	28439-86-3	576.15	51.247	2
21865	C11H12O2	trans-3-phenyl-2-propen-1-ol acetate	21040-45-9	538.15	47.561	1,2	21975	C11H13NO2	4-(dimethylamino)cinnamic acid	1552-96-1	576.15	51.247	2
21866	C11H12O2	5,6,7,8-tetrahydro-2-naphthalenecarboxylic a*	1131-63-1	533.71	47.132	2	21976	C11H13NO2	1-methyl-7-hydroxy-6-methoxy-3,4-dihydroisoq*	4602-70-4	576.15	51.247	2
21867	C11H12O2	1,2,3,4-tetrahydro-2-naphthalenecarboxylic a*	53440-12-3	533.71	47.132	2	21978	C11H13NO2	(2S,3R)-3-phenylpyrrolidine-2-carboxylic acid	18758-48-	576.15	51.247	2
21868	C11H12O2	benzyl methacrylate	2495-37-6	504.15	44.283	1,2	21979	C11H13NO2	(S)-phenyl superquat	168297-84-5	576.15	51.247	2
21869	C11H12O2	cinnamyl acetate	103-54-8	536.70	47.421	1,2	21980	C11H13NO2	(R)-phenyl superquat	170918-42-0	576.15	51.247	2
21870	C11H12O2	cyclopropyl 4-methoxyphenyl ketone	7152-03-6	533.71	47.132	2	21981	C11H13NO2	1,2,3,4-tetrahydroisoquinoline-1-acetic acid	105400-81-5	576.15	51.247	2
21871	C11H12O2	4,7-dihydro-2-phenyl-1,3-dioxepin	2568-24-3	533.71	47.132	2	21982	C11H13NO2	5-methoxytryptophol	712-09-4	576.15	51.247	2
21872	C11H12O2	3,6-dihydroxybenzonorbornane	16144-91-5	533.71	47.132	2	22025	C11H14	1-methyl-[1,2,3,4-tetrahydronaphthalene]	1559-81-5	493.74	43.625	1,2
21873	C11H12O2	ethyl cinnamate	103-36-6	544.90	48.214	1,2	22026	C11H14	2-methyl-[1,2,3,4-tetrahydronaphthalene]	3877-19-8	493.15	43.570	1,2
21874	C11H12O2	6-methoxy-2-tetralone	2472-22-2	533.71	47.132	2	22027	C11H14	1,2,3,4-tetrahydro-5-methylnaphthalene	2809-64-5	507.15	44.572	1,2
21875	C11H12O2	7-methoxy-2-tetralone	4133-34-0	533.71	47.132	2	22028	C11H14	1,2,3,4-tetrahydro-6-methylnaphthalene	1680-51-9	502.15	47.017	1,2
21876	C11H12O2	1-(4-methylphenyl)-1-cyclopropanecarboxylic *	83846-66-6	533.71	47.132	2	22029	C11H14	cyclopentylbenzene	700-88-9	492.15	43.130	1,2
21877	C11H12O2	4-(4-methoxyphenyl)-3-buten-2-one	943-88-4	533.71	47.132	2	22030	C11H14	2,3-dihydro-1,2-dimethyl-1H-indene	17057-82-8	479.15	41.884	1,2
21878	C11H12O2	5-methoxy-1-tetralone	33892-75-0	533.71	47.132	2	22031	C11H14	2,3-dihydro-4,7-dimethyl-1H-indene	6682-71-9	496.15	43.514	1,2
21879	C11H12O2	3,4-dihydroxy-3-methyl-4-phenyl-1-butyne	2033-94-5	533.71	47.132	2	22032	C11H14	2,3-dihydro-5,6-dimethyl-1H-indene	1075-22-5	483.57	42.308	2
21880	C11H12O2	2-propenyl phenylacetate	1797-74-6	533.71	47.132	2	22033	C11H14	1-ethyl-2,3-dihydro-1H-indene	4830-99-3	485.15	42.459	1,2
21881	C11H12O2	tolualdehyde glyceryl acetal	73987-51-6	533.71	47.132	2	22034	C11H14	1,1-dimethylindan	4912-92-9	464.15	40.451	1,2
21882	C11H12O3	tetrahydro-2-furanol benzoate	3333-44-6	575.15	51.149	1,2	22035	C11H14	(1-ethylallyl)benzene	19947-22-9	464.65	40.498	1,2
21883	C11H12O3	methyl 3-(2-methoxyphenyl)-2-propenoate	15854-58-7	577.15	51.344	1,2	22036	C11H14	(1-ethyl-1-propenyl)benzene	4701-36-4	470.15	41.024	1,2
21884	C11H12O3	myristicin	607-91-0	549.65	48.674	1,2	22037	C11H14	4-isopropylstyrene	2055-40-5	477.25	41.703	1,2
21885	C11H12O3	2-phenoxyethyl acrylate	48145-04-6	507.15	44.572	2	22038	C11H14	(1-methyl-1-butenyl)benzene	53172-84-2	475.15	41.502	1,2
21886	C11H12O3	ethyl benzoylacetate	94-02-0	540.15	47.755	2	22039	C11H14	1-pentenylbenzene	826-18-6	490.15	42.939	1,2
21887	C11H12O3	allyl phenoxyacetate	7493-74-5	389.65	33.391	1,2	22040	C11H14	3-pentenylbenzene	1745-16-0	474.15	41.406	1,2
21888	C11H12O3	benzyl acetoacetate	5396-89-4	549.15	48.626	1,2	22041	C11H14	4-pentenylbenzene	1075-74-7	474.15	41.406	1,2
21889	C11H12O3	5,6-dimethoxy-1-indanone	2107-69-9	507.15	44.572	2	22042	C11H14	2-vinyl-1,3,5-trimethylbenzene	769-25-5	482.15	42.172	1,2
21890	C11H12O3	ethyl 4-hydroxycinnamate	17041-46-2	507.15	44.572	2	22043	C11H14	propyl-1,3,5,7-cyclooctatetraene	13402-36-3	483.57	42.308	2
21891	C11H12O3	ethyl 3-phenylglycidate	121-39-1	369.15	31.468	1,2	22044	C11H14	2,3-dihydro-4,6-dimethyl-1H-indene	1685-82-1	483.57	42.308	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
22050	C11H14ClNO3S	N-tosyl-L-alanine chloromethyl ketone	31982-00-0	379.20	32.410	1,2	22138	C11H14O2	3-tert-butyl-2-hydroxybenzaldehyde	24623-65-2	480.16	41.981	2
22052	C11H14ClN3O3S	glycolpyramide	631-27-6	434.65	37.642	1,2	22139	C11H14O2	5-tert-butyl-2-hydroxybenzaldehyde	2725-53-3	480.16	41.981	2
22053	C11H14ClN5	cycloguanyl	516-21-2	390.15	33.438	1,2	22140	C11H14O2	ethyl p-tolylacetate	14062-19-2	480.16	41.981	2
22054	C11H14Cl2	2,4-bis(chloromethyl)-1,3,5-trimethylbenzene	1585-17-7	570.00	50.649	2	22141	C11H14O2	ethyl m-tolylacetate	40061-55-0	510.65	44.908	1,2
22056	C11H14F3N	a,N-dimethyl-m-trifluoromethylphenethylamine	61471-62-3	404.15	34.756	1,2	22142	C11H14O2	ethyl o-tolylacetate	40291-39-2	480.16	41.981	2
22058	C11H14N2	DL-a-methyltryptamine	299-26-3	398.75	34.247	2	22143	C11H14O2	p-hydroxyvalerophenone	2589-71-1	455.65	39.640	1,2
22059	C11H14N2	N-methyltryptamine	61-49-4	398.75	34.247	2	22144	C11H14O2	4'-methoxybutyrophenone	4160-51-4	480.16	41.981	2
22060	C11H14N2	cis-2-amino-5-methyl-4-phenyl-1-pyrroline	50901-84-3	398.75	34.247	2	22145	C11H14O2	4-(4-methoxyphenyl)-2-butanone	104-20-1	480.16	41.981	2
22061	C11H14N2	trans-2-amino-5-methyl-4-phenyl-1-pyrroline	50901-87-6	400.35	34.398	1,2	22146	C11H14O2	9-methyl-d-5(10)-octaline-1,6-dione	20007-72-1	480.16	41.981	2
22062	C11H14N2	2-tert-butylbenzimidazole	24425-13-6	397.15	34.097	1,2	22147	C11H14O2	4-(4-methylphenyl)butyric acid	4521-22-6	480.16	41.981	2
22063	C11H14N2O	5-methoxy-1H-indole-3-ethanamine	608-07-1	510.15	44.860	2	22148	C11H14O2	3-methyl-N-phenylmaleimide	93-16-3	539.40	47.682	1,2
22064	C11H14N2O	cytisine	485-35-8	510.15	44.860	2	22149	C11H14O2	1-phenylethyl propionate	120-45-6	479.15	41.884	1,2
22065	C11H14N2O	4,4-dimethyl-1-phenyl-3-pyrazolidone	2654-58-2	510.15	44.860	2	22150	C11H14O2	3-phenyl-1-propanol acetate	122-72-5	512.75	45.111	1,2
22066	C11H14N2O	3-[(2-hydroxyethyl)phenylamino]propionitrile	92-64-8	588.15	52.415	1,2	22151	C11H14O2	2,4,6-trimethylphenylacetic acid	4408-60-0	480.16	41.981	2
22067	C11H14N2O	6-methoxytryptamine	3610-36-4	510.15	44.860	2	22152	C11H14O2	4-phenylbutanoic acid methyl ester	2046-17-5	405.15	34.851	1,2
22068	C11H14N2O	cyanoethyl-p-phenetidine	23609-20-3	510.15	44.860	2	22153	C11H14O2	4-tert-butylbenzoic acid	1077-58-3	480.16	41.981	2
22069	C11H14N2O	1-(indolyl-3)-2-methylaminoethanol-1 racemate	35412-68-1	510.15	44.860	2	22154	C11H14O2	3-tert-butylbenzoic acid	7498-54-6	480.16	41.981	2
22070	C11H14N2O	4-phenylnitrosopiperidine	6652-04-6	432.15	37.405	1,2	22155	C11H14O2	2-acetoxy-1-phenylpropane	2114-33-2	480.16	41.981	2
22071	C11H14N2O2	4-hydroxymethyl-4-methyl-1-phenyl-3-pyrazoli*	13047-13-7	410.05	35.313	2	22156	C11H14O2	bicyclo(2.2.1)hept-5-ene-2-methylol acrylate	95-39-6	405.15	34.851	1,2
22072	C11H14N2O2	p-amidinobenzoic acid propyl ester	---	410.05	35.313	2	22157	C11H14O2	2,4-dimethylbenzyl acetate	62346-96-7	394.75	33.871	1,2
22073	C11H14N2O2	L-pheneturide	6192-36-5	430.15	37.215	1,2	22158	C11H14O2	isosafroeugenol	94-86-0	390.15	33.438	1,2
22074	C11H14N2O2	phenylethylacetylurea	90-49-3	389.95	33.419	1,2	22159	C11H14O2	2-methyl-3-(p-methoxyphenyl)propanal	5462-06-6	383.65	32.827	1,2
22077	C11H14N2O3	5-allyl-5-(1-methylpropenyl)barbituric acid	66941-81-9	356.20	30.259	2	22160	C11H14O2	9-oxo-8-oxatricyclo(5.3.1.02,6)undecane	55764-18-6	478.15	41.789	1,2
22078	C11H14N2O3	methylnitrosocarbamic acid o-isopropylphenyl*	58139-32-5	356.20	30.259	1,2	22161	C11H14O2	3-phenyl-2-propenal dimethyl acetal	4364-06-1	396.45	34.031	1,2
22079	C11H14N2O3	nitrosotrimethylphenyl-N-methylcarbamate	62178-60-3	356.20	30.259	2	22162	C11H14O2	2-phenylpropyl acetate	10402-52-5	391.15	33.532	1,2
22080	C11H14N2O3S	methylnitrosocarbamic acid a-(ethylthio)-o-t*	100836-62-2	385.15	32.968	1,2	22163	C11H14O2	p-tolyl isobutyrate	103-93-5	472.25	41.224	1,2
22083	C11H14N2O5	N-(o-veratroyl)glycinohydroxamic acid	97805-00-0	394.15	33.814	1,2	22164	C11H14O3	butyl 2-hydroxybenzoate	2052-14-4	544.15	48.142	1,2
22084	C11H14N2O5	5-vinyl-deoxyuridine	55520-67-7	394.15	33.814	2	22165	C11H14O3	butyl 4-hydroxybenzoate	94-26-8	491.51	43.069	2
22085	C11H14N2O7S	2,4-dinitro-6-tert-butylphenyl methanesulfon*	29110-68-7	367.35	31.300	1,2	22166	C11H14O3	tert-butyl peroxybenzoate	614-45-9	491.51	43.069	2
22086	C11H14N2S	N-tert-butyl-2-benzothiazolesulfenamide	95-31-8	403.55	34.700	1,2	22167	C11H14O3	3,4-diethoxybenzaldehyde	2029-94-9	552.15	48.917	1,2
22087	C11H14N3O2P	N-(bis(1-aziridinyl)phosphinyl)benzamide	4110-66-1	399.15	34.285	1,2	22168	C11H14O3	ethyl 2-ethoxybenzoate	6290-24-0	524.15	46.209	1,2
22088	C11H14N4O2	1-butyl theobromine	63906-57-0	385.15	32.968	1,2	22169	C11H14O3	ethyl 4-ethoxybenzoate	23676-09-7	548.15	48.529	1,2
22089	C11H14N4O2	mepirizol	18694-40-1	370.65	31.609	1,2	22170	C11H14O3	ethyl (4-methoxyphenyl)acetate	14062-18-1	491.51	43.069	2
22090	C11H14N4O4	3-((1-(2-hydroxyethyl)-5-nitro-1H-imidazol-2*	123794-12-7	437.15	37.880	1,2	22171	C11H14O3	ethyl 2-phenoxypropanoate	42412-84-0	516.65	45.486	1,2
22091	C11H14N4O4	2-(7'-theophyllinemethyl)-1,3-dioxolane	69975-86-6	463.15	40.355	1,2	22172	C11H14O3	ethyl 3-phenoxypropanoate	22409-91-2	491.51	43.069	2
22092	C11H14N4O4	tubercidin	69-33-0	390.65	33.485	1,2	22173	C11H14O3	4-(4-hydroxy-3-methoxyphenyl)-2-butanone	122-48-5	491.51	43.069	2
22094	C11H14O	2,2-dimethyl-1-phenyl-1-propanone	938-16-9	493.15	43.226	1,2	22174	C11H14O3	2-hydroxy-3-methyl-6-isopropylbenzoic acid	4389-53-1	491.51	43.069	2
22095	C11H14O	1-(4-isopropylphenyl)ethanone	645-13-6	527.15	46.499	1,2	22175	C11H14O3	2-hydroxy-6-methyl-3-isopropylbenzoic acid	548-51-6	491.51	43.069	2
22096	C11H14O	1-(4-methylphenyl)-1-butanone	4160-52-5	524.65	46.258	1,2	22176	C11H14O3	isobutyl 2-hydroxybenzoate	87-19-4	534.15	47.175	1,2
22097	C11H14O	3-methyl-1-phenyl-1-butanone	582-62-7	509.65	44.812	1,2	22177	C11H14O3	4-allyl-2,6-dimethoxyphenol	6627-88-9	491.51	43.069	2
22098	C11H14O	1-phenyl-1-pentanone	1009-14-9	518.15	45.631	1,2	22178	C11H14O3	4-benzyloxybutyric acid	10385-30-5	491.51	43.069	2
22099	C11H14O	1-(2,4,5-trimethylphenyl)ethanone	2040-07-5	519.65	45.775	1,2	22179	C11H14O3	4-butoxybenzoic acid	1498-96-0	491.51	43.069	2
22100	C11H14O	1-(2,4,6-trimethylphenyl)ethanone	1667-01-2	514.15	45.245	1,2	22180	C11H14O3	tert-butyl phenyl carbonate	6627-89-0	491.51	43.069	2
22101	C11H14O	1-(3,4,5-trimethylphenyl)ethanone	2047-21-4	498.05	43.697	2	22181	C11H14O3	(3,4-dimethoxyphenyl)acetone	776-99-8	491.51	43.069	2
22102	C11H14O	(3-ethoxy-1-propenyl)benzene	1476-07-9	504.15	44.283	1,2	22182	C11H14O3	(2,4-dimethoxyphenyl)acetone	831-29-8	491.51	43.069	2
22103	C11H14O	1-ethoxy-2-(1-propenyl)benzene	67191-37-1	504.15	44.283	1,2	22183	C11H14O3	ethyl (2-methylphenoxy)acetate	93917-68-1	392.65	33.673	1,2
22104	C11H14O	1-phenylcyclopentanol	10487-96-4	498.05	43.697	2	22184	C11H14O3	3-hydroxy-2,2-dimethyl-3-phenylpropionic acid	ethyl-3-ph	491.51	43.069	2
22105	C11H14O	2,3,5,6-tetramethylbenzaldehyde	17432-37-0	498.05	43.697	2	22185	C11H14O3	ethyleneglycol monophenyl ether propionate	23495-12-7	351.35	29.807	1,2
22106	C11H14O	4-butylbenzaldehyde	1200-14-2	498.05	43.697	2	22186	C11H14O3	1'-hydroxymethyleugenol	31706-95-3	491.51	43.069	2
22107	C11H14O	4-tert-butylbenzaldehyde	939-97-9	498.05	43.697	2	22187	C11H14O3	phenylacetaldehyde glyceryl acetal	5694-72-4	491.51	43.069	2
22108	C11H14O	4-cyclopentylphenol	1518-83-8	498.05	43.697	2	22188	C11H14O3	b-phenylethyl ester hydracrylic acid	10138-63-3	460.15	40.069	1,2
22109	C11H14O	2-cyclopentylphenol	1518-84-9	498.05	43.697	2	22189	C11H14O3	propioveratrone	1835-04-7	491.51	43.069	2
22110	C11H14O	6-methoxy-1,2,3,4-tetrahydronaphthalene	1730-48-9	365.65	31.141	1,2	22190	C11H14O4	ethyl 3,4-dimethoxybenzoate	3943-77-9	568.65	50.518	1,2
22111	C11H14O	3,4-dihydro-2,2-dimethyl-2H-1-benzopyran	1198-96-5	498.05	43.697	2	22191	C11H14O4	1-(2,3,4-trimethoxyphenyl)ethanone	13909-73-4	569.15	50.566	1,2
22112	C11H14O	4-isopropyl phenylacetaldehyde	4395-92-0	498.05	43.697	2	22192	C11H14O4	(-)-2,3-O-benzylidene-L-threitol	35572-34-0	520.32	45.840	2
22113	C11H14O2	butyl benzoate	136-60-7	523.15	49.266	1,2	22193	C11H14O4	(+)-2,3-O-benzylidene-D-threitol	58383-35-0	520.32	45.840	2
22114	C11H14O2	isobutyl benzoate	120-50-3	515.15	45.342	1,2	22194	C11H14O4	3,4-diethoxybenzoic acid	5409-31-4	520.32	45.840	2
22115	C11H14O2	methyl 4-isopropylbenzoate	20185-55-1	480.16	41.981	2	22195	C11H14O4	3-(3,4-dimethoxyphenyl)propionic acid	2107-70-2	520.32	45.840	2
22116	C11H14O2	benzenepentanoic acid	2270-20-4	480.16	41.981	2	22196	C11H14O4	dimethyl carbate	5826-73-3	423.15	36.552	1,2
22117	C11H14O2	benzyl butanoate	103-37-7	512.15	45.053	1,2	22197	C11H14O4	ethyl homovanillate	60563-13-5	520.32	45.840	2
22118	C11H14O2	benzyl 2-methylpropanoate	103-28-6	501.15	43.995	1,2	22198	C11H14O4	methyl 4-formylbenzoate dimethyl acetal	42228-16-0	520.32	45.840	2
22119	C11H14O2	benzoic acid, p-tert-butyl-	98-73-7	480.16	41.981	2	22199	C11H14O4	3',4',5'-trimethoxyacetophenone	1136-86-3	520.32	45.840	2
22120	C11H14O2	1,2-dimethoxy-4-allylbenzene	93-15-2	527.85	46.566	1,2	22202	C11H14O5	methyl 3,4,5-trimethoxybenzoate	1916-07-0	547.65	48.481	1,2
22121	C11H14O2	cis-1,2-dimethoxy-4-(1-propenyl)benzene	6380-24-1	543.65	48.094	1,2	22203	C11H14O5	3,4,5-trimethoxyphenylacetic acid	951-82-6	547.65	48.481	2
22122	C11H14O2	beta,beta-dimethylbenzenepropanoic acid	1010-48-6	480.16	41.981	2	22204	C11H14O5	genipin	6902-77-8	547.65	48.481	2
22123	C11H14O2	3-ethoxy-1-phenyl-1-propanone	34008-71-4	480.16	41.981	2	22208	C11H15Br	4-tert-butylbenzyl bromide	18880-00-7	529.00	46.677	2
22124	C11H14O2	ethyl 3-phenylpropanoate	2021-28-5	520.35	45.843	1,2	22216	C11H15Cl	4-tert-butylbenzyl chloride	19692-45-6	500.00	43.884	2
22125	C11H14O2	1-(2-hydroxy-5-methylphenyl)-2-methyl-1-prop*	64207-03-0	524.15	46.209	1,2	22219	C11H15ClN2O2	p-chlorophenoxyacetic acid 2-isopropylhydraz*	3544-35-2	553.15	49.014	1,2
22126	C11H14O2	1-(4-hydroxy-3-methylphenyl)-2-methyl-1-prop*	73206-57-2	480.16	41.981	2	22224	C11H15Cl2NO	3,4-dichloro-a-((isopropylamino)methyl)benzy*	59-61-0	395.55	33.946	1,2
22127	C11H14O2	alpha-isopropylbenzeneacetic acid	3508-94-9	480.16	41.981	2	22230	C11H15N	1-benzylpyrrolidine	29897-82-3	510.15	44.860	1,2
22128	C11H14O2	gamma-methylbenzenebutanoic acid	16433-43-5	480.16	41.981	2	22231	C11H15N	1-phenylpiperidine	4096-20-2	531.15	46.885	1,2
22129	C11H14O2	methyl 2-phenylbutanoate	2294-71-5	501.15	43.995	1,2	22232	C11H15N	3-phenylpiperidine	3973-62-4	530.15	46.788	1,2
22130	C11H14O2	4-methyl-4-phenyl-1,3-dioxane	1200-73-3	529.15	46.692	1,2	22233	C11H15N	4-phenylpiperidine	771-99-3	530.15	46.788	1,2
22131	C11H14O2	2-phenylethyl propanoate	122-70-3	480.16	41.981	2	22234	C11H15N	1-adamantanecarbonitrile	23074-42-2	516.75	45.496	2
22132	C11H14O2	phenyl pentanoate	20115-23-5	480.16	41.981	2	22235	C11H15N	N-benzylidene-tert-butylamine	6852-58-0	482.15	42.172	1,2
22133	C11H14O2	alpha-propylbenzeneacetic acid, (±)	7782-21-0	553.15	49.014	1,2	22236	C11H15N	N-benzylpyrrolidine	29897-82-3	516.75	45.496	2
22134	C11H14O2	2,4,5-trimethylphenyl acetate	69305-42-6	518.65	45.679	1,2	22237	C11H15N	N-(4-vinylbenzyl)-N,N-dimethylamine, stabili*	2245-52-5	516.75	45.496	2
22135	C11H14O2	cis-4-benzyloxy-2-buten-1-ol	81028-03-7	480.16	41.981	2	22238	C11H15NO	1-(4-aminophenyl)-1-pentanone	38237-74-0	537.32	47.481	2
22136	C11H14O2	4-butoxybenzaldehyde	5736-88-9	480.16	41.981	2	22239	C11H15NO	4-benzylmorpholine	10316-00-4	533.65	47.127	1,2
22137	C11H14O2	4-butylbenzoic acid	20651-71-2	480.16	41.981	2	22240	C11H15NO	4-(diethylamino)benzaldehyde	120-21-8	537.32	47.481	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
22241	C11H15NO	N-isopropyl-N-phenylacetamide	5461-51-8	537.15	47.465	1,2	22343	C11H16	1-methyl-2,4-diethylbenzene	1758-85-6	478.15	42.422	1,2
22242	C11H15NO	3-methyl-2-phenylbutanamide	5470-47-3	537.32	47.481	2	22344	C11H16	1-methyl-2,5-diethylbenzene	13632-94-5	480.25	42.617	1,2
22243	C11H15NO	3-methyl-2-phenylmorpholine	134-49-6	537.32	47.481	2	22345	C11H16	1-methyl-2,6-diethyl benzene	13632-95-6	481.95	42.775	1,2
22244	C11H15NO	4-(4-methylphenyl)morpholine	3077-16-5	537.32	47.481	2	22346	C11H16	1-methyl-3,4-diethylbenzene	13732-80-4	476.75	42.292	1,2
22245	C11H15NO	N-phenyl-N-propylacetamide	2437-98-1	541.15	47.852	1,2	22347	C11H16	1-methyl-3,5-diethylbenzene	2050-24-0	473.85	42.023	1,2
22246	C11H15NO	1-adamantyl isocyanate	4411-25-0	537.32	47.481	2	22348	C11H16	1,2,3-trimethyl-4-ethylbenzene	61827-86-9	493.55	43.788	1,2
22247	C11H15NO	(S)-(-)-1-benzyl-3-pyrrolidinol	101385-90-4	537.32	47.481	2	22349	C11H16	1,2,3-trimethyl-5-ethylbenzene	31366-00-4	488.95	43.361	1,2
22248	C11H15NO	(R)-(+)-1-benzyl-3-pyrrolidinol	101930-07-8	537.32	47.481	2	22350	C11H16	1,2,4-trimethyl-3-ethylbenzene	61827-87-0	489.75	43.436	1,2
22249	C11H15NO	1-benzyl-3-pyrrolidinol	775-15-5	537.32	47.481	2	22351	C11H16	1,2,4-trimethyl-5-ethylbenzene	17851-27-3	486.15	43.101	1,2
22250	C11H15NO	N-tert-butyl-a-phenylnitrone	3376-24-7	537.32	47.481	2	22352	C11H16	1,2,4-trimethyl-6-ethylbenzene	---	486.15	43.101	1,2
22251	C11H15NO	2-(dimethylamino)-1-phenyl-1-propanone	15351-09-4	537.32	47.481	2	22353	C11H16	1,3,5-trimethyl-2-ethylbenzene	3982-67-0	485.55	43.046	1,2
22252	C11H15NO	benzoic acid N,N-diethylamide	1696-17-9	537.32	47.481	2	22354	C11H16	pentamethylbenzene	700-12-9	504.95	44.781	1,2
22253	C11H15NO	2-tert-butyl-3-phenyl oxazirane	---	537.32	47.481	2	22355	C11H16	1-ethyl-2,3,5-trimethylbenzene	18262-85-6	486.15	42.555	1,2
22254	C11H15NO	4-hexanoylpyridine	23389-74-4	537.32	47.481	2	22356	C11H16	sec-pentylbenzene	29316-05-0	473.15	41.595	1,2
22255	C11H15NO	2,4,6-trimethylacetanilide	5096-21-9	537.32	47.481	2	22357	C11H16	5-propyl-1,5-octadien-3-yne	70732-44-4	475.28	41.515	2
22256	C11H15NO2	butyl 4-aminobenzoate	94-25-7	489.15	42.843	2	22358	C11H16	1,10-undecadiyne	4117-15-1	475.28	41.515	2
22257	C11H15NO2	ethyl N-benzylglycinate	6436-90-4	489.15	42.843	2	22363	C11H16ClO3P	diethyl 4-chlorobenzylphosphonate	39225-17-7	435.15	37.690	1,2
22258	C11H15NO2	isobutyl 4-aminobenzoate	94-14-4	489.15	42.843	2	22383	C11H16N2O3	butalbital	77-26-9	430.30	37.230	2
22259	C11H15NO2	isobutyl N-phenylcarbamate	2291-80-7	489.15	42.843	1,2	22384	C11H16N2O3	enallylpropymal	1861-21-8	430.30	37.230	2
22260	C11H15NO2	L-phenylalanine, ethyl ester	3081-24-1	489.15	42.843	2	22385	C11H16N2O3	5-allyl-5-sec-butylbarbituric acid	115-44-6	430.30	37.230	2
22263	C11H15NO2	3-benzylaminobutyric acid	14676-01-8	489.15	42.843	2	22386	C11H16N2O3	5-(1-butenyl)-5-isopropylbarbituric acid	67050-04-8	432.15	37.405	1,2
22264	C11H15NO2	(3R,4R)-(-)-1-benzyl-3,4-pyrrolidindiol	163439-82-5	489.15	42.843	2	22388	C11H16N2O3	5-ethyl-5-(1-methyl-2-butenyl)barbituric acid	17013-35-3	430.30	37.230	2
22265	C11H15NO2	(3S,4S)-(+)-1-benzyl-3,4-pyrrolidindiol	90365-74-5	489.15	42.843	2	22389	C11H16N2O3	5-ethyl-1-methyl-5-(1-methylpropenyl)barbitu*	66968-89-6	430.30	37.230	2
22266	C11H15NO2	4-(diethylamino)benzoic acid	5429-28-7	489.15	42.843	2	22390	C11H16N2O3	a-(isopropylaminomethyl)-4-nitrobenzyl alcoh*	5054-57-9	428.45	37.054	1,2
22267	C11H15NO2	4-(diethylamino)salicylaldehyde	17754-90-4	489.15	42.843	2	22391	C11H16N2O3	5-methyl-5-(1-methyl-1-pentenyl)barbituric a*	66843-04-7	430.30	37.230	2
22268	C11H15NO2	2-(dimethylamino)ethyl benzoate	2208-05-1	489.15	42.843	2	22395	C11H16N4O4	pentostatin	53910-25-1	464.65	40.498	1,2
22269	C11H15NO2	ethyl 4-(dimethylamino)benzoate	10287-53-3	489.15	42.843	2	22397	C11H16N4O4	razoxane	21416-67-1	364.65	31.048	1,2
22270	C11H15NO2	methylcarbamic acid-o-cumenyl ester	2631-40-5	489.15	42.843	2	22399	C11H16O	p-tert-amylphenol	80-46-6	535.15	52.507	1,2
22271	C11H15NO2	carbamic acid, ethylphenyl-, ethyl ester	1013-75-8	489.15	42.843	2	22400	C11H16O	2-butyl-4-methylphenol	6891-45-8	501.15	41.286	1,2
22272	C11H15NO2	2-N-butoxybenzamide	60444-92-0	489.15	42.843	2	22401	C11H16O	2-tert-butyl-4-methylphenol	2409-55-4	510.15	44.037	1,2
22273	C11H15NO2	m-cumenol methylcarbamate	64-00-6	489.15	42.843	2	22402	C11H16O	2-tert-butyl-5-methylphenol	88-60-8	486.71	37.361	2
22274	C11H15NO2	N,N-diethylsalicylamide	19311-91-2	489.15	42.843	2	22403	C11H16O	2-tert-butyl-6-methylphenol	2219-82-1	503.15	41.876	1,2
22275	C11H15NO2	N-methylpropham	3295-92-9	489.15	42.843	2	22404	C11H16O	4-tert-butyl-2-methylphenol	98-27-1	510.15	44.037	1,2
22276	C11H15NO2	trimethylphenyl methylcarbamate	12407-86-2	489.15	42.843	2	22405	C11H16O	4-isopentylphenol	1805-61-4	528.15	46.595	1,2
22277	C11H15NO2	3,4,5-trimethylphenyl methylcarbamate	2686-99-9	489.15	42.843	2	22406	C11H16O	5-methyl-2-sec-butylphenol	29472-95-5	519.15	47.063	1,2
22293	C11H15NO5	methyl 3,4,5-trimethoxyanthranilate	5035-82-5	546.15	48.336	2	22407	C11H16O	pentamethylphenol	2819-86-5	540.15	47.755	1,2
22294	C11H15NO5	guaiacol glyceryl ether carbamate	532-03-6	546.15	48.336	1,2	22408	C11H16O	4-pentylphenol	14938-35-3	523.65	48.694	1,2
22298	C11H15N3O2	1(4-carbethoxyphenyl)-3,3-dimethyltriazene	21600-51-1	419.15	36.173	1,2	22409	C11H16O	benzenepentanol	10521-91-2	486.71	42.608	2
22299	C11H15N3O4	2-((2,2-dimethyl-1,3-dioxan-5-ylidene)methyl*	139157-69-0	348.15	29.509	1,2	22410	C11H16O	4-tert-butylbenzenemethanol	877-65-6	509.15	44.764	1,2
22300	C11H15N3O4	pyridinol carbamate	1882-26-4	429.55	37.158	1,2	22411	C11H16O	alpha-tert-butylbenzenemethanol	3835-64-1	486.71	42.608	2
22303	C11H15O4P	diethyl benzoylphosphonate	3277-27-8	459.15	39.973	1,2	22412	C11H16O	alpha,alpha-diethylbenzenemethanol	1565-71-5	496.65	43.562	1,2
22304	C11H16	pentylbenzene	538-68-1	478.61	42.265	1,2	22413	C11H16O	alpha,alpha-dimethylbenzenepropanol	103-05-9	486.71	42.608	2
22305	C11H16	2-phenylpentane	2719-52-0	463.15	40.778	1,2	22414	C11H16O	beta,beta-dimethylbenzenepropanol	13351-61-6	486.71	42.608	2
22306	C11H16	3-phenylpentane	1196-58-3	464.15	40.870	1,2	22415	C11H16O	alpha-ethylbenzenepropanol, (S)	71747-37-0	486.71	42.608	2
22307	C11H16	1-phenyl-2-methylbutane	3968-85-2	470.15	41.424	1,2	22416	C11H16O	alpha-ethyl-alpha-methylbenzeneethanol, (±)	116783-12-1	508.15	44.668	1,2
22308	C11H16	1-phenyl-3-methylbutane	2049-94-7	472.05	41.599	1,2	22417	C11H16O	alpha-isobutylbenzenemethanol	1565-86-2	509.15	44.764	1,2
22309	C11H16	2-phenyl-2-methylbutane	2049-95-8	465.53	40.225	1,2	22418	C11H16O	beta-isopropylbenzeneethanol	90499-41-5	486.71	42.608	2
22310	C11H16	2-phenyl-3-methylbutane	4481-30-5	461.15	40.227	1,2	22419	C11H16O	alpha-methylbenzenebutanol	2344-71-0	486.71	42.608	2
22311	C11H16	1-phenyl-2,2-dimethylpropane	1007-26-7	459.15	39.647	1,2	22420	C11H16O	beta-methylbenzenebutanol, (±)	116783-11-0	486.71	42.608	2
22312	C11H16	1-methyl-2-butylbenzene	1595-11-5	481.15	42.765	1,2	22421	C11H16O	alpha-methyl-alpha-propylbenzenemethanol	4383-18-0	489.15	42.843	1,2
22313	C11H16	1-methyl-3-butylbenzene	1595-04-6	478.15	42.486	1,2	22422	C11H16O	1-phenyl-1-pentanol	583-03-9	486.71	42.608	2
22314	C11H16	1-methyl-4-butylbenzene	1595-05-7	480.15	42.672	1,2	22423	C11H16O	alpha,alpha,beta-trimethylbenzeneethanol	3280-08-8	470.15	41.024	1,2
22315	C11H16	1-methyl-2-sec-butylbenzene	1595-06-8	469.15	41.270	1,2	22424	C11H16O	alpha,beta,beta-trimethylbenzeneethanol	2977-31-3	470.15	41.024	1,2
22316	C11H16	1-methyl-3-sec-butylbenzene	1772-10-7	467.15	41.086	1,2	22425	C11H16O	(butoxymethyl)benzene	588-67-0	496.15	43.514	1,2
22317	C11H16	1-methyl-4-sec-butylbenzene	1595-16-0	470.15	41.362	1,2	22426	C11H16O	1-butoxy-3-methylbenzene	23079-65-4	502.35	44.110	1,2
22318	C11H16	1-methyl-2-isobutylbenzene	36301-29-8	469.15	41.270	1,2	22427	C11H16O	1-butoxy-4-methylbenzene	10519-06-9	502.65	44.139	1,2
22319	C11H16	1-methyl-3-isobutylbenzene	5160-99-6	467.15	41.086	1,2	22428	C11H16O	1-tert-butyl-4-methoxybenzene	5396-38-3	511.15	44.956	1,2
22320	C11H16	1-methyl-4-isobutylbenzene	5161-04-6	469.15	41.270	1,2	22429	C11H16O	1-ethoxy-2-propylbenzene	101144-90-5	486.15	42.555	1,2
22321	C11H16	1-methyl-2-tert-butyl benzene	1074-92-6	473.60	40.896	1,2	22430	C11H16O	[(2-methylpropoxy)methyl]benzene	940-49-8	485.15	42.459	1,2
22322	C11H16	1-methyl-3-tert-butylbenzene	1075-38-3	462.41	39.884	1,2	22431	C11H16O	pentyl phenyl ether	2050-04-6	502.15	44.091	1,2
22323	C11H16	1-methyl-4-tert-butylbenzene	98-51-1	465.91	40.200	1,2	22432	C11H16O	3-isopropyl-2-methylanisole	31202-12-7	486.71	42.608	2
22324	C11H16	1-ethyl-2-propylbenzene	16021-20-8	476.15	42.300	1,2	22433	C11H16O	cis-3-methyl-2-(2-pentenyl)-2-cyclopenten-1-*	488-10-8	531.15	46.885	1,2
22325	C11H16	1-ethyl-3-propylbenzene	20024-91-3	474.15	42.114	1,2	22434	C11H16O	3-acetylnoradamantane	58275-58-4	485.15	42.459	1,2
22326	C11H16	1-ethyl-4-propylbenzene	20024-90-2	478.15	42.486	1,2	22435	C11H16O	(R)-(-)-4,4a,5,6,7,8-hexahydro-4a-methyl-2(3*	63975-59-7	486.71	42.608	2
22327	C11H16	1-ethyl-2-isopropylbenzene	18970-44-0	463.15	40.717	1,2	22436	C11H16O	7-tert-butoxy-2,5-norbornadiene	877-06-5	343.15	29.044	1,2
22328	C11H16	1-ethyl-3-isopropylbenzene	4920-99-4	465.15	40.902	1,2	22437	C11H16O	(S)-(+)-10-methyl-1(9)-octal-2-one	4087-39-2	486.71	42.608	2
22329	C11H16	1-ethyl-4-isopropylbenzene	4218-48-8	469.75	41.325	1,2	22438	C11H16O	2,4,6-trimethylphenethylalcohol	6950-92-1	486.71	42.608	2
22330	C11H16	1,2-dimethyl-3-propylbenzene	17059-44-8	483.85	42.952	1,2	22439	C11H16O	2-(1-methylbutyl)phenol	87-26-3	515.74	45.882	1,2
22331	C11H16	1,2-dimethyl-4-propylbenzene	3982-66-9	482.05	42.785	1,2	22440	C11H16O	o-amylphenol	136-81-2	486.71	37.361	2
22332	C11H16	1,3-dimethyl-2-propylbenzene	17059-45-9	480.75	42.664	1,2	22441	C11H16O	2-sec-amylphenol	26401-74-1	407.65	22.785	1,2
22333	C11H16	1,3-dimethyl-4-propylbenzene	61827-85-8	479.75	42.571	1,2	22442	C11H16O	4-sec-amylphenol	25735-67-5	409.65	23.055	1,2
22334	C11H16	1,3-dimethyl-5-propylbenzene	3982-64-7	475.39	42.166	1,2	22443	C11H16O	chrysanthal	39067-39-5	380.15	32.499	1,2
22335	C11H16	1,4-dimethyl-2-propylbenzene	3042-50-0	477.45	42.357	1,2	22444	C11H16O	isojasmone	11050-62-7	486.71	42.608	2
22336	C11H16	1,2-dimethyl-3-isopropylbenzene	22539-65-7	475.75	41.816	1,2	22445	C11H16O	p-isopropylphenylethyl alcohol	10099-57-7	486.71	42.608	2
22337	C11H16	1,2-dimethyl-4-isopropylbenzene	4132-77-8	474.95	41.742	1,2	22446	C11H16O	methyl thymol ether	1076-56-8	406.15	34.945	1,2
22338	C11H16	1,3-dimethyl-2-isopropylbenzene	14411-75-7	472.15	41.485	1,2	22448	C11H16O2	tert-butyl-4-hydroxyanisole	25013-16-5	541.15	47.852	1,2
22339	C11H16	1,3-dimethyl-4-isopropylbenzene	4706-89-2	472.25	41.494	1,2	22449	C11H16O2	1,4-diethoxy-2-methylbenzene	41901-72-8	521.15	45.920	1,2
22340	C11H16	1,3-dimethyl-5-isopropylbenzene	4706-90-5	467.65	41.071	1,2	22450	C11H16O2	1,4-dimethoxy-2-isopropylbenzene	4132-71-2	532.78	47.042	2
22341	C11H16	1,4-dimethyl-2-isopropylbenzene	4132-72-3	469.35	41.227	1,2	22451	C11H16O2	4-isopentyl-1,3-benzenediol	15116-17-3	532.78	47.042	2
22342	C11H16	1-methyl-2,3-diethylbenzene	13632-93-4	479.75	42.571	1,2	22452	C11H16O2	4-pentyl-1,3-benzenediol	533-24-4	532.78	47.042	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
22453	C11H16O2	4-methoxybenzenebutanol	52244-70-9	532.78	47.042	2	22582	C11H18O	3-methyl-2-pentyl-2-cyclopenten-1-one	1128-08-1	466.65	40.689	2
22454	C11H16O2	methyl 7,7-dimethyltricyclo[2.2.1.02,6]hepta*	56694-97-4	532.78	47.042	2	22583	C11H18O	1,4,7,7-tetramethylbicyclo[2.2.1]heptan-2-one	10309-50-9	486.15	42.555	1,2
22455	C11H16O2	1-adamantanecarboxylic acid	828-51-3	532.78	47.042	2	22584	C11H18O	1-adamantanemethanol	770-71-8	466.65	40.689	2
22456	C11H16O2	4-benzyloxy-1-butanol	4541-14-4	509.15	44.764	1,2	22585	C11H18O	2,4-diethyl-2,6-heptadienal, isomers	85136-07-8	364.15	31.001	1,2
22457	C11H16O2	4-butoxybenzyl alcohol	6214-45-5	532.78	47.042	2	22586	C11H18O	2-heptylfuran	3777-71-7	466.65	40.689	2
22458	C11H16O2	2,2-dimethyl-1-phenyl-1,3-propanediol	33950-46-8	559.65	49.644	1,2	22588	C11H18O	(1R)-(-)-nopol	35836-73-8	508.15	44.668	1,2
22459	C11H16O2	methyl perillate	26460-67-3	532.78	47.042	2	22589	C11H18O	2,6,6-trimethyl-1-cyclohexene-1-acetaldehyde	472-66-2	466.65	40.689	2
22460	C11H16O2	4-pentyloxyphenol	18979-53-8	532.78	47.042	2	22590	C11H18O	ethyl citral	41448-29-7	466.65	40.689	2
22461	C11H16O2	2-phenylpropionaldehyde dimethyl acetal	90-87-9	532.78	47.042	2	22591	C11H18O	2-(2-hexenyl cyclopentanone)	34687-46-2	466.65	40.689	2
22462	C11H16O2	bovolide	774-64-1	532.78	47.042	2	22592	C11H18O	2-n-hexyl-2-cyclopenten-1-one	95-41-0	466.65	40.689	2
22463	C11H16O2	3-tert-butylated hydroxyanisole	88-32-4	532.78	47.042	2	22593	C11H18O	2-pentylidenecyclohexanone	25677-40-1	466.65	40.689	2
22464	C11H16O2	3-tert-butyl-4-hydroxyanisole	121-00-6	532.78	47.042	2	22594	C11H18O2	3-bornanecarboxylic acid	91965-23-0	502.15	44.091	2
22466	C11H16O3	(diethoxymethoxy)benzene	14444-77-0	378.15	32.311	2	22595	C11H18O2	borneol formate, (d)	74219-20-8	502.15	44.091	2
22467	C11H16O3	ethyl 2,6-dimethyl-4-oxo-2-cyclohexene-1-car*	6102-15-4	378.15	32.311	2	22596	C11H18O2	3,7-dimethyl-1,6-octadien-3-ol formate	115-99-1	502.15	44.091	2
22468	C11H16O3	hexyl 2-furancarboxylate	39251-86-0	378.15	32.311	2	22597	C11H18O2	trans-3,7-dimethyl-2,6-octadien-1-ol formate	105-86-2	502.15	44.091	2
22469	C11H16O3	di(ethylene glycol) benzyl ether	2050-25-1	378.15	32.311	2	22598	C11H18O2	methyl cis-2,cis-4-decadienoate	108965-86-2	502.15	44.091	2
22470	C11H16O3	3-(3,4-dimethoxyphenyl)-1-propanol	3929-47-3	378.15	32.311	2	22599	C11H18O2	methyl cis-2,trans-4-decadienoate	108965-84-0	502.15	44.091	2
22471	C11H16O3	methyl 1-methoxybicyclo[2.2.2]oct-5-ene-2-ca*	5259-50-7	378.15	32.311	1,2	22600	C11H18O2	methyl trans-2,cis-4-decadienoate	4493-42-9	502.15	44.091	2
22472	C11H16O3	allyl-3,4-epoxy-6-methylcyclohexanecarboxyla*	10138-39-3	378.15	32.311	2	22601	C11H18O2	methyl trans-2,trans-4-decadienoate	7328-33-8	502.15	44.091	2
22473	C11H16O3	isobutyl furylpropionate	105-01-1	378.15	32.311	2	22602	C11H18O2	methyl trans-chrysanthemummonocarboxylate, (*	15543-70-1	502.15	44.091	2
22482	C11H16O5	glycerol dimethacrylate, isomers	1830-78-0	478.15	41.789	1,2	22603	C11H18O2	6-undecynoic acid	55182-83-7	502.15	44.091	2
22483	C11H16O5	butyl 2,3-epoxypropyl fumarate	25876-07-7	478.15	41.789	2	22604	C11H18O2	9-undecynoic acid	22202-65-9	502.15	44.091	2
22484	C11H16O5	3-(3,5-dimethoxyphenoxy)-1,2-propanediol	27318-87-2	478.15	41.789	2	22605	C11H18O2	10-undecynoic acid	2777-65-3	502.15	44.091	2
22486	C11H16S	2-methyl-5-tert-butylthiophenol	7340-90-1	533.15	47.078	1,2	22606	C11H18O2	allyl cyclohexaneacetate	4728-82-9	502.15	44.091	2
22490	C11H17F3N6O	3-((imino((2,2,2-trifluoroethyl)amino)methyl*	84545-30-2	453.15	39.402	1,2	22607	C11H18O2	decahydro-b-naphthyl formate	10519-12-7	502.15	44.091	2
22492	C11H17N	N,N-diethyl-2-methylaniline	606-46-2	482.15	42.172	1,2	22608	C11H18O2	formic acid, neryl ester	2142-94-1	502.15	44.091	2
22493	C11H17N	N,N-diethyl-4-methylaniline	613-48-9	502.15	44.091	1,2	22609	C11H18O2	cis-3-hexenyl tiglate	67883-79-8	502.15	44.091	2
22494	C11H17N	4-isopentylaniline	104177-72-2	530.15	46.788	1,2	22610	C11H18O2	methylcamphenoate	52557-97-8	502.15	44.091	2
22495	C11H17N	N-isopentylaniline	2051-84-5	527.65	46.547	1,2	22611	C11H18O2	4-methyl-cis-decene g-lactone	70851-61-5	502.15	44.091	2
22496	C11H17N	2,3,4,5,6-pentamethylaniline	2243-30-3	550.65	48.771	1,2	22612	C11H18O2	terpinyl formate	2153-26-6	502.15	44.091	2
22497	C11H17N	p-tert-pentylaniline	2049-92-5	533.65	47.127	1,2	22614	C11H18O2Si	diethoxymethylphenylsilane	775-56-4	491.15	43.034	1,2
22498	C11H17N	N-ethyl-alpha-methylbenzeneethanamine	457-87-4	515.00	46.000	2	22615	C11H18O3	ethyl 2-oxo-1-cyclooctane carboxylate	4017-56-5	554.65	49.159	2
22499	C11H17N	N-benzyl-tert-butylamine	3378-72-1	515.00	46.000	2	22616	C11H18O3	ethyl 2-oxo-1-cyclooctanecarboxylate	774-05-0	554.65	49.159	2
22500	C11H17N	N-butylbenzylamine	2403-22-7	515.00	46.000	2	22617	C11H18O3	methyl (S)-(-)-1-methyl-2-oxocyclohexaneprop*	112898-44-9	554.65	49.159	1,2
22501	C11H17N	N,N-diethyl-m-toluidine	91-67-8	504.65	44.331	1,2	22618	C11H18O3	(+)-methyl (R)-3-(1-methyl-2-oxocyclohexyl)p*	94089-47-1	554.65	49.159	1,2
22502	C11H17N	N-ethyl-N-isopropylaniline	54813-77-3	497.15	43.610	1,2	22619	C11H18O3Pb	triethyl lead furoate	73928-18-4	322.85	27.162	1,2
22503	C11H17N	N,N,2,4,6-pentamethylaniline	13021-15-3	487.15	42.651	1,2	22622	C11H18O4	diethyl 1,1-cyclopentanedicarboxylate	4167-77-5	483.15	42.268	1,2
22504	C11H17N	4-pentylaniline	33228-44-3	535.00	46.195	2	22623	C11H18O4	(S)-2-cyclohexylsuccinic acid-1-methyl ester	213270-44-1	483.15	42.268	2
22505	C11H17N	N-pentylaniline	2655-27-8	531.15	46.885	1,2	22624	C11H18O4	(R)-2-cyclohexyl succinic acid-1-methyl ester	220498-07-7	483.15	42.268	2
22506	C11H17N	lemonile	61792-11-8	493.15	43.226	2	22625	C11H18O4	trans-diethyl caronate	67945-22-6	483.15	42.268	2
22507	C11H17NO	alpha-[1-(ethylamino)ethyl]benzenemethanol, *	37025-57-3	467.15	40.737	2	22626	C11H18O4	lactic acid, acetate, cyclohexyl ester	64058-36-2	483.15	42.268	2
22508	C11H17NO	2-[ethyl(3-methylphenyl)amino]ethanol	91-88-3	467.15	40.737	2	22627	C11H18O4P2S4	benzylidenemethylphosphorodithioate	2782-70-9	331.15	27.930	1,2
22509	C11H17NO	3-(methylbenzylamino)-1-propanol	5814-42-6	467.15	40.737	2	22628	C11H18O5	diethyl 2-acetylpentanedioate	1501-06-0	544.15	48.142	2
22510	C11H17NO	N-methylephedrine, [R-(R*,S*)]	552-79-4	467.15	40.737	2	22629	C11H18O5	diethyl butyrylmalonate	21633-79-4	522.65	46.065	1,2
22511	C11H17NO	1-adamantanecarboxamide	5511-18-2	467.15	40.737	2	22630	C11H18O5	diethyl 3-oxopimelate	40420-22-2	404.15	34.756	1,2
22512	C11H17NO	(R)-(-)-2-amino-1-benzyloxybutane	142559-11-3	467.15	40.737	2	22631	C11H18O5	1,2:3,5-di-o-isopropylidene-a-d-xylofuranose	20881-04-3	490.32	42.955	2
22513	C11H17NO	5-tert-butyl-o-anisidine	3535-88-4	479.15	41.884	1,2	22632	C11H18O6	triethyl 1,1,2-ethanetricarboxylate	7459-46-3	551.15	48.820	1,2
22514	C11H17NO	(+)-N-methylephedrine	42151-56-4	467.15	40.737	2	22633	C11H18O6	(4R,5R)-4,5-diethoxycarbonyl-2,2-dimethyldio*	59779-75-8	365.65	31.141	1,2
22515	C11H17NO	(1S,2S)-(+)-N-methylpseudoephedrine	51018-28-1	467.15	40.737	2	22634	C11H18S	3-heptylthiophene	65016-61-7	519.15	45.727	2
22516	C11H17NO	4-(pentyloxy)aniline	39905-50-5	455.15	39.592	1,2	22639	C11H19N	1-adamantanemethylamine	17768-41-1	357.15	30.347	1,2
22517	C11H17NO	methylephedrine	17605-71-9	467.15	40.737	2	22640	C11H19N	3-amino-4-homoisotwistane	60145-64-4	357.15	30.347	2
22518	C11H17NO	1-phenyl-2-(b-hydroxyethyl)aminopropane	63918-85-4	467.15	40.737	2	22655	C11H19NO5Si	1-(hydroxymethyl)-2,8,9-trioxa-5-aza-1-silab*	23395-20-2	333.45	28.143	1,2
22519	C11H17NO2	3-(N-benzyl-N-methylamino)propane-1,2-diol	60278-98-0	479.15	41.884	1,2	22661	C11H19N3O	((((2-((2-aminoethyl)amino)ethyl)amino)methyl*	51505-90-9	342.15	28.951	2
22520	C11H17NO2	(-)-chiracamphox	165038-32-4	545.65	48.287	2	22662	C11H19N3O	5-butyl-2-(dimethylamino)-6-methyl-4(1H)-pyr*	5221-53-4	342.15	28.951	1,2
22521	C11H17NO2	N-methylhomoveratrylamine	3490-06-0	545.65	48.287	2	22665	C11H20	1-methyl-cis-decahydronaphthalene	---	516.15	44.429	1,2
22522	C11H17NO2	2,2'-(4-methylphenylimino)diethanol	3077-12-1	612.15	54.757	1,2	22666	C11H20	1-methyl-trans-decahydronaphthalene	---	508.15	43.707	1,2
22523	C11H17NO2	diethanol-m-toluidine	91-99-6	545.65	48.287	2	22667	C11H20	2-methyl-cis-decahydronaphthalene	---	489.15	41.995	1,2
22524	C11H17NO2	di-(hydroxyethyl)-o-tolylamine	28005-74-5	545.65	48.287	2	22668	C11H20	2-methyl-trans-decahydronaphthalene	4683-94-7	481.15	41.275	1,2
22525	C11H17NO2	ethylcyanocyclohexyl acetate	1331-45-9	545.65	48.287	2	22669	C11H20	4a-methyl-cis-decahydronaphthalene	2547-26-4	488.15	41.905	1,2
22526	C11H17NO2	4-hydroxy-a-isopropylaminomethylbenzyl alcoh*	7376-66-1	545.65	48.287	2	22670	C11H20	4a-methyl-trans-decahydronaphthalene	2547-27-5	478.15	41.006	1,2
22536	C11H17N2O4PS	amiprofos-methyl	36001-88-4	419.75	36.230	1,2	22671	C11H20	1-hexylcyclopentene	4291-99-0	473.15	41.747	1,2
22537	C11H17N3O2	chinoin-127	71392-29-5	411.15	35.417	1,2	22672	C11H20	1-undecyne	2243-98-3	468.16	42.037	1,2
22538	C11H17N3O2	2-n-propyl-4-methylpyrimidyl-(6)-N,N-dimethy*	2532-49-2	411.15	35.417	2	22673	C11H20	2-undecyne	60212-29-5	479.15	42.224	1,2
22553	C11H18	trans-decahydro-2-methylenenaphthalene	7787-72-6	474.15	41.406	1,2	22674	C11H20	3-undecyne	60212-30-8	473.15	41.670	1,2
22554	C11H18	1-undecen-3-yne	74744-28-8	474.15	41.406	2	22675	C11H20	4-undecyne	60212-31-9	471.65	41.167	1,2
22555	C11H18	ethyl-tetramethylcyclopentadiene	57693-77-3	474.15	41.406	2	22676	C11H20	5-undecyne	2294-72-6	471.15	41.119	1,2
22556	C11H18	1,3,5-undecatriene	16356-11-9	474.15	41.406	2	22677	C11H20	3,3-dimethyl-4-nonyne	29022-31-9	483.34	42.285	2
22557	C11H18ClNO4	isoprenaline hydrochloride	51-30-9	465.15	40.546	1,2	22678	C11H20	cyclopentylcyclohexane	1606-08-2	488.25	42.756	1,2
22563	C11H18N2	N,N-dimethyl-N'-benzyl-1,2-ethanediamine	103-55-9	533.15	47.078	2	22679	C11H20	spiro[5.5]undecane	180-43-8	481.15	42.076	1,2
22564	C11H18N2	1-isopentyl-1-phenylhydrazine	636-10-2	533.15	47.078	1,2	22682	C11H20Cl2N6O4	1,1'-pentamethylenebis(3-(2-chloroethyl))-3-*	60784-44-3	336.45	28.421	1,2
22565	C11H18N2	2,4(or 4,6)-diethyl-6(or 2)-methyl-1,3-benze*	75389-89-8	533.15	47.078	2	22684	C11H20N2O	1,1'-carbonyldipiperidine	5395-04-0	570.15	50.663	1,2
22567	C11H18N2O2	trimethyl-1,6-diisocyanatohexane, isomers	34992-02-4	422.15	36.457	1,2	22685	C11H20N2O	piperidino 3-piperidyl ketone	40576-21-4	570.15	50.663	2
22569	C11H18N2O3	amobarbital	57-43-2	482.15	42.172	2	22692	C11H20O	4-(1,1-dimethylpropyl)cyclohexanone	16587-71-6	476.22	41.604	2
22570	C11H18N2O3	4,5-bis(2-butenyloxy)-2-imidazolidinone	91216-69-2	482.15	42.172	2	22693	C11H20O	3-methyl-2-isopentylcyclopentanone	52033-97-3	476.22	41.604	2
22571	C11H18N2O3	5-sec-butyl-5-ethyl-1-methylbarbituric acid	67050-26-4	465.65	40.594	1,2	22694	C11H20O	cycloundecanone	878-13-7	520.35	45.843	1,2
22572	C11H18N2O3	1,5-dimethyl-5-(1-methylbutyl)barbituric acid	66941-08-0	482.15	42.172	2	22695	C11H20O	undecylenic aldehyde	112-45-8	508.15	44.668	1,2
22573	C11H18N2O3	nembutal	76-74-4	482.15	42.172	2	22696	C11H20O	ethyl linalool	10339-55-6	476.22	41.604	2
22574	C11H18N2O3	pentobarbital	115-58-2	482.15	42.172	2	22697	C11H20O	5-ethyl-3-nonen-2-one	10137-90-3	400.15	34.379	1,2
22575	C11H18N2O3	piperidino hexose reductone	63937-29-1	498.65	43.754	1,2	22698	C11H20O	gyrane	24237-00-1	476.22	41.604	2
22581	C11H18O	6,6-dimethylbicyclo[3.1.1]hept-2-ene-2-ethan*	128-50-7	508.15	44.668	1,2	22699	C11H20O	2-hexylcyclopentanone	13074-65-2	476.22	41.604	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
22700	C11H20O	isoborneol methyl ether	5331-32-8	476.22	41.604	2	22802	C11H22	trans-5-undecene	764-97-6	465.15	40.546	1,2
22701	C11H20O2	2-ethylhexyl acrylate	103-11-7	489.15	45.610	1,2	22803	C11H22	2-methyl-1-decene	13151-27-4	463.85	40.921	1,2
22702	C11H20O2	5-heptyldihydro-2(3H)-furanone	104-67-6	559.15	49.595	1,2	22805	C11H22Br2	1,1-dibromoundecane	62168-28-9	567.15	55.261	1,2
22703	C11H20O2	2,2,6,6-tetramethyl-3,5-heptanedione	1118-71-4	512.58	45.094	2	22806	C11H22Br2	1,11-dibromoundecane	16696-65-4	567.15	50.372	2
22704	C11H20O2	cis-9-undecenoic acid	116836-30-7	545.00	48.224	2	22807	C11H22Cl2	1,1-dichloroundecane	822-01-5	539.15	49.397	1,2
22705	C11H20O2	trans-9-undecenoic acid	37973-84-5	546.15	48.336	1,2	22809	C11H22F2	1,1-difluoroundecane	62127-44-0	475.15	42.203	1,2
22706	C11H20O2	10-undecenoic acid	112-38-9	548.15	48.529	1,2	22810	C11H22I2	1,1-diiodoundecane	66142-53-8	636.92	58.560	2
22707	C11H20O2	vinyl nonanoate	6280-03-1	512.58	45.094	2	22811	C11H22N2	1,1'-dipiperidinomethane	880-09-1	503.15	44.187	1,2
22708	C11H20O2	allyl octanoate	4230-97-1	498.15	43.706	1,2	22812	C11H22N2	3-(dibutylamino)propionitrile	25726-99-2	503.15	44.187	2
22709	C11H20O2	cyclohexanepentanoic acid	5962-88-9	512.58	45.094	2	22813	C11H22N2	(S)-1-[(1-methyl-2-pyrrolidinyl)methyl]piper*	84466-85-3	503.15	44.187	2
22710	C11H20O2	3,3,5-trimethylcyclohexyl acetate, isomers	---	484.15	42.363	1,2	22821	C11H22N2S2	N-(1-butylpentylideneamino)-1-methylsulfanyl*	60273-78-1	513.15	45.149	1,2
22711	C11H20O2	undecanoic d-lactone	710-04-3	512.58	45.094	2	22822	C11H22O	undecanal	112-44-7	506.15	48.173	1,2
22712	C11H20O2	11-undecanolide	1725-03-7	512.58	45.094	2	22823	C11H22O	2-undecanone	112-12-9	500.98	45.875	1,2
22713	C11H20O2	N-octyl acrylate	2499-59-4	512.58	45.094	2	22824	C11H22O	3-undecanone	2216-87-7	500.15	43.899	1,2
22714	C11H20O2	citronellyl formate	105-85-1	512.58	45.094	2	22825	C11H22O	4-undecanone	14476-37-0	507.63	44.617	2
22715	C11H20O2	cis-3-hexenyl 2-methylbutyrate	53398-85-9	512.58	45.094	2	22826	C11H22O	5-undecanone	33083-83-9	500.15	43.899	1,2
22716	C11H20O2	cis-3-hexenyl valerate	35852-46-1	512.58	45.094	2	22827	C11H22O	6-undecanone	927-49-1	501.15	43.995	1,2
22717	C11H20O2	hexyl tilglate	16930-96-4	512.58	45.094	2	22828	C11H22O	10-undecen-1-ol	112-43-6	523.15	46.113	1,2
22718	C11H20O2	isooctyl acrylate	29590-42-9	512.58	45.094	2	22829	C11H22O	2-undecen-4-ol	22381-86-8	507.63	44.617	2
22719	C11H20O2	(Z)-isovaleric acid 3-hexenyl	35154-45-1	512.58	45.094	2	22830	C11H22O	9-undecen-1-ol	112-46-9	521.65	45.968	1,2
22720	C11H20O2	4-methyldecanolide	7011-83-8	512.58	45.094	2	22831	C11H22O	4-tert-amylcyclohexanol	5349-51-9	507.63	44.617	2
22721	C11H20O2	2-nonynal dimethylacetal	13257-44-8	512.58	45.094	2	22832	C11H22O	(R)-(+)-1,2-epoxyundecane	123493-71-0	507.63	44.617	2
22722	C11H20O2	propionaldehyde, dicrotyl acetal	5749-78-0	463.15	40.355	1,2	22833	C11H22O	2-heptyl-tetrahydrofuran	2435-16-7	507.63	44.617	2
22723	C11H20O2	g-undecalactone	104-67-6	512.58	45.094	2	22834	C11H22O	2-methyl-1-decanal	19009-56-4	507.63	44.617	2
22728	C11H20O4	di-tert-butyl malonate	541-16-2	519.45	45.756	2	22835	C11H22O2	undecanoic acid	112-37-8	557.35	56.576	1,2
22729	C11H20O4	dibutyl malonate	1190-39-2	524.65	46.258	1,2	22836	C11H22O2	decyl formate	5451-52-5	508.60	46.075	2
22730	C11H20O4	diethyl 2-butylmalonate	133-08-4	511.15	44.956	1,2	22837	C11H22O2	nonyl acetate	143-13-5	483.15	49.341	1,2
22731	C11H20O4	diethyl sec-butylmalonate	83-27-2	519.45	45.756	2	22838	C11H22O2	octyl propanoate	142-60-9	501.15	47.433	1,2
22732	C11H20O4	diethyl heptanedioate	2050-20-6	527.15	46.499	1,2	22839	C11H22O2	heptyl butanoate	5870-93-9	498.25	43.617	1,2
22733	C11H20O4	diethyl isobutylmalonate	10203-58-4	519.45	45.756	2	22840	C11H22O2	butyl heptanoate	5454-28-4	499.35	43.822	1,2
22734	C11H20O4	diethyl 3-methylhexanedioate	55877-01-5	531.15	46.885	1,2	22841	C11H22O2	ethyl nonanoate	123-29-5	500.15	43.899	1,2
22735	C11H20O4	dimethyl nonanedioate	1732-10-1	519.45	45.756	2	22842	C11H22O2	hexyl pentanoate	1117-59-5	499.45	43.831	1,2
22736	C11H20O4	ethyl diethylmalonate	77-25-8	503.15	44.187	1,2	22843	C11H22O2	isopentyl hexanoate	2198-61-0	498.65	43.754	1,2
22737	C11H20O4	octylpropanedioic acid	760-55-4	519.45	45.756	2	22844	C11H22O2	pentyl hexanoate	540-07-8	499.15	43.802	1,2
22738	C11H20O4	diethyl tert-butylmalonate	759-24-0	519.45	45.756	2	22845	C11H22O2	isobutyl heptanoate	7779-80-8	481.15	42.076	1,2
22739	C11H20O4	mono-methyl sebacate	818-88-2	519.45	45.756	2	22846	C11H22O2	isopropyl octanoate	5458-59-3	489.73	42.898	2
22740	C11H20O4	neopentyl glycol diglycidyl ether	17557-23-2	519.45	45.756	2	22847	C11H22O2	propyl octanoate	624-13-5	499.55	43.841	1,2
22741	C11H20O4	a, a, a', a'-tetramethylheptanedioic acid	2941-45-9	519.45	45.756	2	22848	C11H22O2	methyl decanoate	110-42-9	497.15	43.610	1,2
22742	C11H20O4	undecanedioic acid	1852-04-6	519.45	45.756	2	22849	C11H22O2	2-ethylhexyl glycidyl ether	2461-15-6	489.73	42.898	2
22743	C11H20O4	butyl butyrolactate	7492-70-8	519.45	45.756	2	22850	C11H22O2	7-methoxy-3,7-dimethyloctanal	3613-30-7	333.15	28.115	1,2
22744	C11H20O4	pentamethylene glycol dipropionate	10025-09-9	519.45	45.756	2	22851	C11H22O2	6-methyldecanoic acid	53696-14-3	489.73	35.478	2
22749	C11H21Br	cis-1-bromo-1-undecene	66142-59-4	517.15	48.153	1,2	22852	C11H22O2	2-butyl-4,4,6-trimethyl-1,3-dioxane	54546-26-8	489.73	42.898	2
22750	C11H21Br	trans-1-bromo-1-undecene	66142-60-7	517.15	48.153	1,2	22853	C11H22O2	hexyl 2,2-dimethylpropanoate	5434-57-1	489.73	42.898	2
22751	C11H21Br	11-bromo-1-undecene	7766-50-9	517.15	45.534	2	22854	C11H22O2	hexyl isovalerate	10032-13-0	489.73	42.898	2
22752	C11H21BrO2	11-bromoundecanoic acid	2834-05-1	459.15	39.973	2	22855	C11H22O2	hexyl 2-methylbutyrate	10032-15-2	489.73	42.898	2
22753	C11H21BrO2	2-bromoundecanoic acid	2623-84-9	459.15	39.973	2	22856	C11H22O2	3,5,5-trimethylhexyl acetate	58430-94-7	480.00	41.966	2
22754	C11H21BrO2	methyl 10-bromodecanoate	26825-94-5	459.15	39.973	1,2	22859	C11H22O3	diisopentyl carbonate	2050-95-5	507.15	44.572	1,2
22755	C11H21Br3	1,1,1-tribromoundecane	62127-68-8	599.15	60.026	1,2	22860	C11H22O3	11-hydroxyundecanoic acid	3669-80-5	507.15	44.572	2
22756	C11H21Cl	cis-1-chloro-1-undecene	66172-73-4	517.15	46.770	1,2	22861	C11H22O3	1-methylhexyl-b-oxybutyrate	30956-43-5	507.15	44.572	2
22757	C11H21Cl	trans-1-chloro-1-undecene	66142-61-8	517.15	46.770	1,2	22862	C11H22O3Si	1-[2-(trimethoxysilyl)ethyl]-3-cyclohexane	67592-36-3	382.15	32.687	1,2
22758	C11H21ClO	(+)-chloromethyl isomenthyl ether	144177-48-0	479.15	41.884	1,2	22863	C11H22O4Si	2-(3,4-epoxycyclohexyl)ethyl-trimethoxysilane	3388-04-3	583.05	51.918	1,2
22759	C11H21ClO	(+)-chloromethyl menthyl ether	103128-76-3	408.15	35.134	2	22866	C11H22S	thiacyclododecane	294-65-5	541.15	46.664	1,2
22760	C11H21ClO	(-)-chloromethyl menthyl ether	26127-08-2	337.15	28.486	1,2	22870	C11H23Br	1-bromoundecane	693-67-4	531.95	49.893	1,2
22762	C11H21Cl3	1,1,1-trichloroundecane	3922-25-6	553.15	50.492	1,2	22872	C11H23Cl	1-chloroundecane	2473-03-2	518.49	47.175	1,2
22764	C11H21F	cis-1-fluoro-1-undecene	66172-74-5	454.51	40.822	2	22875	C11H23F	1-fluoroundecane	506-05-8	479.15	43.319	1,2
22765	C11H21F	trans-1-fluoro-1-undecene	66142-62-9	454.51	40.822	2	22876	C11H23I	1-iodoundecane	4282-44-4	554.65	58.019	1,2
22767	C11H21F3	1,1,1-trifluoroundecane	62126-97-0	462.15	41.294	1,2	22878	C11H23N	1-(1-ethyl-1-methylpropyl)piperidine	14045-26-2	487.15	42.651	1,2
22768	C11H21I	cis-1-iodo-1-undecene	66142-63-0	541.15	48.941	1,2	22879	C11H23N	1-hexylpiperidine	7335-01-5	492.35	43.150	1,2
22769	C11H21I	trans-1-iodo-1-undecene	66142-64-1	541.15	48.941	1,2	22880	C11H23NO	4-ethyl-2-methyl-2-(3-methylbutyl)oxazolidine	137796-06-6	467.15	40.737	1,2
22770	C11H21I3	1,1,1-triiodoundecane	---	727.27	66.814	2	22881	C11H23NO	3-ethyl-2-methyl-2-(3-methylbutyl)oxazolidine	143860-04-2	482.15	42.172	1,2
22771	C11H21N	undecanenitrile	2244-07-7	533.15	50.598	1,2	22882	C11H23NO	N,N-dibutylpropionamide	1187-33-3	474.65	41.454	2
22772	C11H21N	versamine	60-40-2	345.15	29.230	1,2	22883	C11H23NO	N-hexylvaleramide	10264-25-2	474.65	41.454	2
22773	C11H21N	N,N,2,3-tetramethyl-2-norbornanamine	63907-04-0	439.15	38.070	2	22885	C11H23NO2	1-nitroundecane	2216-25-3	555.15	53.896	1,2
22774	C11H21NO	3-(2-ethylhexyloxy)propionitrile	10213-75-9	477.35	41.712	2	22886	C11H23NO2	11-aminoundecanoic acid	2432-99-7	555.15	49.207	2
22775	C11H21NO	1-nonanoylaziridine	63021-51-2	477.35	41.712	1,2	22887	C11H23NO3	boc-l-leucinol	82010-31-9	486.15	42.555	1,2
22780	C11H21NO4	N-(3-ethoxy-3-oxopropyl)-N-methyl-beta-alani*	6315-60-2	467.15	40.737	2	22890	C11H24	undecane	1120-21-4	469.08	42.519	1,2
22781	C11H21NO4	boc-L-isoleucine	13139-16-7	467.15	40.737	2	22891	C11H24	2-methyldecane	6975-98-0	462.34	40.875	1,2
22782	C11H21NO4	boc-L-norleucine	6404-28-0	467.15	40.737	2	22892	C11H24	3-methyldecane	13151-34-3	463.15	40.950	1,2
22783	C11H21NO4	N-(tert-butoxycarbonyl)-L-valine methyl ester	58561-04-9	467.15	40.737	1,2	22893	C11H24	4-methyldecane	2847-72-5	461.05	40.756	1,2
22791	C11H22	hexylcyclopentane	4457-00-5	476.26	41.171	1,2	22894	C11H24	5-methyldecane	13151-35-4	459.15	40.580	1,2
22792	C11H22	pentylcyclohexane	4292-92-6	476.87	40.836	1,2	22895	C11H24	3-ethylnonane	17302-11-3	461.15	40.765	1,2
22793	C11H22	isopentylcyclohexane	54105-76-9	469.65	39.128	1,2	22896	C11H24	4-ethylnonane	5911-05-7	457.15	40.395	1,2
22794	C11H22	cycloundecane	294-41-7	494.15	42.130	1,2	22897	C11H24	5-ethylnonane	17302-12-4	453.15	40.025	1,2
22795	C11H22	1-undecene	821-95-4	465.82	41.728	1,2	22898	C11H24	2,2-dimethylnonane	17302-14-6	453.15	39.270	1,2
22796	C11H22	cis-2-undecene	821-96-5	469.25	40.938	1,2	22899	C11H24	2,3-dimethylnonane	2884-06-2	459.15	40.215	1,2
22797	C11H22	trans-2-undecene	693-61-8	465.65	40.594	1,2	22900	C11H24	2,4-dimethylnonane	17302-24-8	451.15	39.481	1,2
22798	C11H22	3-undecene	60669-40-1	466.65	40.689	1,2	22901	C11H24	2,5-dimethylnonane	17302-27-1	452.15	39.573	1,2
22799	C11H22	cis-4-undecene	821-98-7	465.75	40.603	1,2	22902	C11H24	2,6-dimethylnonane	17302-28-2	452.15	39.573	1,2
22800	C11H22	trans-4-undecene	693-62-9	466.15	40.641	1,2	22903	C11H24	2,7-dimethylnonane	17302-29-3	453.15	39.664	1,2
22801	C11H22	cis-5-undecene	764-96-5	465.45	40.575	1,2	22904	C11H24	2,8-dimethylnonane	17302-30-6	456.15	39.939	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
22905	C11H24	3,3-dimethylnonane	17302-15-7	455.15	39.452	1,2	22985	C11H24	3,5-dimethyl-4-ethylheptane	61868-38-0	454.15	39.400	1,2
22906	C11H24	3,4-dimethylnonane	17302-22-6	458.15	40.123	1,2	22986	C11H24	4,4-dimethyl-3-ethylheptane	61868-39-1	449.15	38.561	1,2
22907	C11H24	3,5-dimethylnonane	17302-25-9	453.15	39.664	1,2	22987	C11H24	2,2,3,3-tetramethylheptane	61868-40-4	453.15	38.203	1,2
22908	C11H24	3,6-dimethylnonane	17302-31-7	455.15	39.848	1,2	22988	C11H24	2,2,3,4-tetramethylheptane	61868-41-5	449.15	38.220	1,2
22909	C11H24	3,7-dimethylnonane	17302-32-8	457.15	40.031	1,2	22989	C11H24	2,2,3,5-tetramethylheptane	61868-42-6	447.15	38.042	1,2
22910	C11H24	4,4-dimethylnonane	17302-18-0	451.15	39.089	1,2	22990	C11H24	2,2,3,6-tetramethylheptane	61868-43-7	443.15	37.685	1,2
22911	C11H24	4,5-dimethylnonane	17302-23-7	455.15	39.848	1,2	22991	C11H24	2,2,4,4-tetramethylheptane	61868-44-8	443.15	37.319	1,2
22912	C11H24	4,6-dimethylnonane	17302-26-0	452.15	39.573	1,2	22992	C11H24	2,2,4,5-tetramethylheptane	61868-45-9	442.15	37.596	1,2
22913	C11H24	5,5-dimethylnonane	6414-96-6	450.15	38.998	1,2	22993	C11H24	2,2,4,6-tetramethylheptane	61868-46-0	435.35	36.989	1,2
22914	C11H24	4-propyloctane	17302-13-5	453.15	40.025	1,2	22994	C11H24	2,2,5,5-tetramethylheptane	61868-47-1	439.15	36.965	1,2
22915	C11H24	4-isopropyloctane	62016-15-3	451.15	39.481	1,2	22995	C11H24	2,2,5,6-tetramethylheptane	61868-48-2	442.15	37.596	1,2
22916	C11H24	2-methyl-3-ethyloctane	62016-16-4	455.15	39.848	1,2	22996	C11H24	2,2,6,6-tetramethylheptane	40117-45-1	436.15	36.700	1,2
22917	C11H24	2-methyl-4-ethyloctane	62016-17-5	449.15	39.298	1,2	22997	C11H24	2,3,3,4-tetramethylheptane	61868-49-3	455.15	38.756	1,2
22918	C11H24	2-methyl-5-ethyloctane	62016-18-6	451.15	39.481	1,2	22998	C11H24	2,3,3,5-tetramethylheptane	61868-50-6	449.15	38.220	1,2
22919	C11H24	2-methyl-6-ethyloctane	62016-19-7	455.15	39.848	1,2	22999	C11H24	2,3,3,6-tetramethylheptane	61868-51-7	448.15	38.131	1,2
22920	C11H24	3-methyl-3-ethyloctane	17302-16-8	458.85	39.788	1,2	23000	C11H24	2,3,4,4-tetramethylheptane	61868-52-8	451.15	38.399	1,2
22921	C11H24	3-methyl-4-ethyloctane	62016-20-0	455.15	39.848	1,2	23001	C11H24	2,3,4,5-tetramethylheptane	61868-53-9	452.15	38.869	1,2
22922	C11H24	3-methyl-5-ethyloctane	62016-21-1	449.15	39.298	1,2	23002	C11H24	2,3,4,6-tetramethylheptane	61868-54-0	447.15	38.418	1,2
22923	C11H24	3-methyl-6-ethyloctane	62016-22-2	455.15	39.848	1,2	23003	C11H24	2,3,5,5-tetramethylheptane	61868-55-1	445.15	37.863	1,2
22924	C11H24	4-methyl-3-ethyloctane	62016-23-3	456.15	39.939	1,2	23004	C11H24	2,3,5,6-tetramethylheptane	52670-32-3	448.15	38.508	1,2
22925	C11H24	4-methyl-4-ethyloctane	17302-19-1	453.15	39.270	1,2	23005	C11H24	2,4,4,5-tetramethylheptane	61868-56-2	447.15	38.042	1,2
22926	C11H24	4-methyl-5-ethyloctane	62016-24-4	453.15	39.664	1,2	23006	C11H24	2,4,4,6-tetramethylheptane	61868-57-3	437.15	37.150	1,2
22927	C11H24	4-methyl-6-ethyloctane	62016-25-5	453.15	39.664	1,2	23007	C11H24	2,4,5,5-tetramethylheptane	61868-58-4	449.15	38.220	1,2
22928	C11H24	2,2,3-trimethyloctane	62016-26-6	452.15	38.831	1,2	23008	C11H24	3,3,4,4-tetramethylheptane	61868-59-5	457.15	38.557	1,2
22929	C11H24	2,2,4-trimethyloctane	18932-14-4	444.65	38.156	1,2	23009	C11H24	3,3,4,5-tetramethylheptane	61868-60-8	454.15	38.667	1,2
22930	C11H24	2,2,5-trimethyloctane	62016-27-7	444.15	38.111	1,2	23010	C11H24	3,3,5,5-tetramethylheptane	61868-61-9	453.15	38.203	1,2
22931	C11H24	2,2,6-trimethyloctane	62016-28-8	447.15	38.381	1,2	23011	C11H24	3,4,4,5-tetramethylheptane	61868-62-0	458.15	39.024	1,2
22932	C11H24	2,2,7-trimethyloctane	62016-29-9	443.15	38.021	1,2	23012	C11H24	2,2-dimethyl-3-isopropylhexane	61868-63-1	445.15	37.863	1,2
22933	C11H24	2,3,3-trimethyloctane	62016-30-2	455.15	39.101	1,2	23013	C11H24	2,3-dimethyl-3-isopropylhexane	61868-64-2	453.15	38.577	1,2
22934	C11H24	2,3,4-trimethyloctane	62016-31-3	453.15	39.309	1,2	23014	C11H24	2,4-dimethyl-3-isopropylhexane	61868-65-3	448.15	38.508	1,2
22935	C11H24	2,3,5-trimethyloctane	62016-32-4	450.15	39.036	1,2	23015	C11H24	2,5-dimethyl-3-isopropylhexane	61868-66-4	443.15	38.058	1,2
22936	C11H24	2,3,6-trimethyloctane	62016-33-5	453.15	39.309	1,2	23016	C11H24	2-methyl-3,3-diethylhexane	61868-67-5	459.15	39.462	1,2
22937	C11H24	2,3,7-trimethyloctane	62016-34-6	452.15	39.218	1,2	23017	C11H24	2-methyl-3,4-diethylhexane	61868-68-6	452.15	39.218	1,2
22938	C11H24	2,4,4-trimethyloctane	62016-35-7	444.15	38.111	1,2	23018	C11H24	2-methyl-4,4-diethylhexane	61868-69-7	452.15	38.831	1,2
22939	C11H24	2,4,5-trimethyloctane	62016-36-8	449.15	38.945	1,2	23019	C11H24	3-methyl-3,4-diethylhexane	61868-70-0	459.15	39.462	1,2
22940	C11H24	2,4,6-trimethyloctane	62016-37-9	447.15	38.764	1,2	23020	C11H24	3-methyl-4,4-diethylhexane	61868-71-1	463.15	39.822	1,2
22941	C11H24	2,4,7-trimethyloctane	62016-38-0	444.15	38.491	1,2	23021	C11H24	2,2,3-trimethyl-3-ethylhexane	61868-72-2	453.15	38.203	1,2
22942	C11H24	2,5,5-trimethyloctane	62016-39-1	445.15	38.201	1,2	23022	C11H24	2,2,3-trimethyl-4-ethylhexane	61868-73-3	449.15	38.220	1,2
22943	C11H24	2,5,6-trimethyloctane	62016-14-2	451.15	39.127	1,2	23023	C11H24	2,2,4-trimethyl-3-ethylhexane	61868-74-4	448.15	38.131	1,2
22944	C11H24	2,6,6-trimethyloctane	54166-32-4	449.15	38.561	1,2	23024	C11H24	2,2,4-trimethyl-4-ethylhexane	61868-75-5	451.15	38.026	1,2
22945	C11H24	3,3,4-trimethyloctane	62016-40-4	455.15	39.101	1,2	23025	C11H24	2,2,5-trimethyl-3-ethylhexane	61868-76-6	443.15	37.685	1,2
22946	C11H24	3,3,5-trimethyloctane	62016-41-5	447.15	38.381	1,2	23026	C11H24	2,2,5-trimethyl-4-ethylhexane	61868-77-7	439.15	37.328	1,2
22947	C11H24	3,3,6-trimethyloctane	62016-42-6	450.15	38.651	1,2	23027	C11H24	2,3,3-trimethyl-4-ethylhexane	61868-78-8	456.15	38.845	1,2
22948	C11H24	3,4,4-trimethyloctane	62016-43-7	454.15	39.011	1,2	23028	C11H24	2,3,4-trimethyl-3-ethylhexane	61868-79-9	460.15	39.203	1,2
22949	C11H24	3,4,5-trimethyloctane	62016-44-8	454.15	39.400	1,2	23029	C11H24	2,3,4-trimethyl-4-ethylhexane	61868-80-2	453.15	38.577	1,2
22950	C11H24	3,4,6-trimethyloctane	62016-45-9	452.15	39.218	1,2	23030	C11H24	2,3,5-trimethyl-3-ethylhexane	61868-81-3	449.15	38.220	1,2
22951	C11H24	3,5,5-trimethyloctane	61868-94-8	443.15	38.021	1,2	23031	C11H24	2,3,5-trimethyl-4-ethylhexane	61868-82-4	450.15	38.688	1,2
22952	C11H24	4,4,5-trimethyloctane	61868-95-9	453.15	38.921	1,2	23032	C11H24	2,4,4-trimethyl-3-ethylhexane	61868-83-5	451.15	38.399	1,2
22953	C11H24	4-tert-butylheptane	60302-21-8	447.15	38.381	1,2	23033	C11H24	3,3,4-trimethyl-4-ethylhexane	61868-84-6	463.15	39.088	1,2
22954	C11H24	2-methyl-4-propylheptane	61868-96-0	447.15	39.114	1,2	23034	C11H24	2,2,3,3,4-pentamethylhexane	61868-85-7	457.15	38.222	1,2
22955	C11H24	3-methyl-4-propylheptane	61868-97-1	452.15	39.573	1,2	23035	C11H24	2,2,3,3,5-pentamethylhexane	61868-86-8	443.65	37.038	1,2
22956	C11H24	4-methyl-4-propylheptane	17302-20-4	451.15	39.089	1,2	23036	C11H24	2,2,3,4,4-pentamethylhexane	61868-87-9	459.15	38.398	1,2
22957	C11H24	2-methyl-3-isopropylheptane	6876-18-2	451.45	39.154	1,2	23037	C11H24	2,2,3,4,5-pentamethylhexane	61868-88-0	447.15	37.708	1,2
22958	C11H24	2-methyl-4-isopropylheptane	61868-98-2	445.15	38.582	1,2	23038	C11H24	2,2,3,5,5-pentamethylhexane	14739-73-2	439.15	36.644	1,2
22959	C11H24	3-methyl-4-isopropylheptane	61868-99-3	450.15	39.036	1,2	23039	C11H24	2,2,4,4,5-pentamethylhexane	60302-23-0	449.15	37.520	1,2
22960	C11H24	4-methyl-4-isopropylheptane	61869-00-9	453.15	38.921	1,2	23040	C11H24	2,3,3,4,4-pentamethylhexane	61868-89-1	460.15	38.486	1,2
22961	C11H24	3,3-diethylheptane	17302-17-9	460.05	39.897	1,2	23041	C11H24	2,3,3,4,5-pentamethylhexane	52670-33-4	454.15	38.328	1,2
22962	C11H24	3,4-diethylheptane	61869-01-0	453.15	39.664	1,2	23042	C11H24	2,2,4-trimethyl-3-isopropylpentane	61868-90-4	443.15	37.354	1,2
22963	C11H24	3,5-diethylheptane	61869-02-1	452.15	39.573	1,2	23043	C11H24	2,3,4-trimethyl-3-isopropylpentane	61868-91-5	459.15	38.771	1,2
22964	C11H24	4,4-diethylheptane	17302-21-5	453.45	39.298	1,2	23044	C11H24	2,2-dimethyl-3,3-diethylpentane	60302-28-5	462.15	38.999	1,2
22965	C11H24	2,2-dimethyl-3-ethylheptane	61869-03-2	449.15	38.561	1,2	23045	C11H24	2,4-dimethyl-3,3-diethylpentane	61868-92-6	462.15	39.381	1,2
22966	C11H24	2,2-dimethyl-4-ethylheptane	62016-46-0	441.15	37.841	1,2	23046	C11H24	2,2,3,4-tetramethyl-3-ethylpentane	61868-93-7	459.15	38.398	1,2
22967	C11H24	2,2-dimethyl-5-ethylheptane	62016-47-1	445.15	38.201	1,2	23047	C11H24	2,2,4,4-tetramethyl-3-ethylpentane	---	453.15	37.871	1,2
22968	C11H24	2,3-dimethyl-3-ethylheptane	61868-21-1	453.15	38.921	1,2	23048	C11H24	2,2,3,3,4,4-hexamethylpentane	60302-27-4	467.15	38.400	1,2
22969	C11H24	2,3-dimethyl-4-ethylheptane	61868-22-2	452.15	39.218	1,2	23055	C11H24O	1-undecanol	112-42-5	518.15	50.089	1,2
22970	C11H24	2,3-dimethyl-5-ethylheptane	61868-23-3	451.15	39.127	1,2	23056	C11H24O	2-undecanol	1653-30-1	508.15	47.054	1,2
22971	C11H24	2,4-dimethyl-3-ethylheptane	61868-24-4	452.15	39.218	1,2	23057	C11H24O	2-undecanol, (±)	113666-64-1	501.15	43.995	1,2
22972	C11H24	2,4-dimethyl-4-ethylheptane	61868-25-5	443.15	38.021	1,2	23058	C11H24O	3-undecanol, (R)-	107494-37-1	502.15	44.091	1,2
22973	C11H24	2,4-dimethyl-5-ethylheptane	61868-26-6	449.15	38.945	1,2	23059	C11H24O	5-undecanol	37493-70-2	502.15	44.091	1,2
22974	C11H24	2,5-dimethyl-3-ethylheptane	61868-27-7	449.15	38.945	1,2	23060	C11H24O	6-undecanol	23708-56-7	501.15	43.995	1,2
22975	C11H24	2,5-dimethyl-4-ethylheptane	61868-28-8	448.15	38.854	1,2	23061	C11H24O	2,8-dimethyl-5-nonanol	19780-96-2	506.13	44.474	2
22976	C11H24	2,5-dimethyl-5-ethylheptane	61868-29-9	451.15	38.741	1,2	23062	C11H24O	undecanol	30207-98-8	518.15	45.631	1,2
22977	C11H24	2,6-dimethyl-3-ethylheptane	61868-30-2	449.15	38.945	1,2	23063	C11H24O	5-ethyl-2-nonanol	103-08-2	498.00	43.692	1,2
22978	C11H24	2,6-dimethyl-4-ethylheptane	61868-31-3	443.15	38.400	1,2	23064	C11H24O	1-methoxydecane	7289-52-3	506.13	44.474	2
22979	C11H24	3,3-dimethyl-4-ethylheptane	61868-32-4	453.15	38.921	1,2	23065	C11H24O2	1,2-undecanediol	13006-29-6	567.15	66.975	2
22980	C11H24	3,3-dimethyl-5-ethylheptane	61868-33-5	448.15	38.471	1,2	23066	C11H24O2	1,3-undecanediol	6071-32-5	578.15	68.320	2
22981	C11H24	3,4-dimethyl-3-ethylheptane	61868-34-6	458.15	39.371	1,2	23067	C11H24O2	1,4-undecanediol	---	599.15	70.890	2
22982	C11H24	3,4-dimethyl-4-ethylheptane	61868-35-7	454.15	39.011	1,2	23068	C11H24O2	1,11-undecanediol	765-04-8	586.15	69.776	2
22983	C11H24	3,4-dimethyl-5-ethylheptane	61868-36-8	455.15	39.491	1,2	23069	C11H24O2	2,2-dibutyl-1,3-propanediol	24765-57-9	570.00	70.623	2
22984	C11H24	3,5-dimethyl-3-ethylheptane	61868-37-9	453.15	38.921	1,2	23070	C11H24O2	dihydromethoxyelgenol	41890-92-0	553.53	49.050	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
23071	C11H24O2	2-(isobutyl-3-methylbutoxy)ethanol	10086-50-7	553.53	49.050	2	23209	C12H6Cl4	2,2',5,5'-tetrachlorobiphenyl	35693-99-3	498.72	43.761	2
23076	C11H24O3	2-(2-(1-ethylamyloxy)ethoxy)ethanol	10138-87-1	553.53	49.050	2	23210	C12H6Cl4	2,2',6,6'-tetrachlorobiphenyl	15968-05-5	358.35	30.459	1,2
23077	C11H24O3	2-(2-(heptyloxy)ethoxy)ethanol	25961-87-9	553.53	49.050	2	23212	C12H6Cl4N2O	3,3',4,4'-tetrachloroazoxybenzene	21232-47-3	374.65	31.983	1,2
23078	C11H24O3Si	triisopropoxyvinylsilane	18023-33-1	452.65	39.354	1,2	23213	C12H6Cl4N2S	chlorfensulfide	2274-74-0	369.75	31.525	1,2
23079	C11H24O3Si	ethyl (S)-(-)-2-(tert-butyldimethylsilyloxy)*	106513-42-2	460.15	40.069	1,2	23219	C12H6F2N2O6S	4,4'-difluoro-3,3-dinitrodiphenyl sulfone	312-30-1	462.15	40.260	1,2
23080	C11H24O3Si	trimethoxy(7-octen-1-yl)silane	52217-57-9	456.40	39.711	2	23220	C12H6F12O2	a,a,a',a'-tetrakis(trifluoromethyl)-1,3-benz*	802-93-7	482.15	42.172	1,2
23081	C11H24O4	1,1,3,3-tetraethoxypropane	122-31-6	493.15	43.226	1,2	23223	C12H6N2O2	1,5-diisocyanatonaphthalene	3173-72-6	536.15	47.368	1,2
23081.1	C11H24O4	tripropylene glycol monoethyl ether	75899-69-3	525.00	61.672	1,2	23225	C12H6N2O6	2,7-dinitrodibenzo-p-dioxin	71400-33-4	482.15	42.172	1,2
23083	C11H24O6Si	tris(2-methoxyethoxy)vinylsilane	1067-53-4	558.15	49.498	1,2	23226	C12H6N2O6	2,8-dinitrodibenzo-p-dioxin	71400-34-5	482.15	42.172	2
23084	C11H24S	1-undecanethiol	5332-52-5	530.55	49.388	1,2	23228	C12H6N4O4	1,7-dinitrophenazine	105836-99-5	461.15	40.164	1,2
23085	C11H24S	2-undecanethiol	62155-02-6	520.45	47.242	1,2	23238	C12H7Br4O5P	bromophenophos	21466-07-9	459.65	40.021	1,2
23086	C11H24S	methyl decyl sulfide	22438-39-7	520.00	52.136	2	23243	C12H7F15O2	3,3,4,4,5,5,6,6,7,8,8,8-dodecafluoro-7-(trif*	50836-65-2	489.15	42.843	1,2
23087	C11H24S	ethyl nonyl sulfide	59973-08-9	520.00	52.136	2	23261	C12H8	acenaphthylene	208-96-8	553.15	49.014	1,2
23088	C11H24S	propyl octyl sulfide	3698-93-9	520.00	52.136	2	23262	C12H8	1-ethynylnaphthalene	15727-65-8	553.15	49.014	2
23089	C11H24S	butyl heptyl sulfide	40813-84-1	520.00	52.136	2	23263	C12H8	biphenylene	259-79-0	553.15	49.014	2
23090	C11H25N	undecylamine	7307-55-3	516.15	47.658	1,2	23266	C12H8Br2	4,4'-dibromo-1,1'-biphenyl	92-86-4	630.65	56.568	1,2
23091	C11H25N	methyldecylamine	7516-82-7	499.35	46.715	1,2	23267	C12H8Br2O	bis(4-bromophenyl) ether	2050-47-7	612.15	54.757	1,2
23092	C11H25N	ethylnonylamine	66563-84-6	495.15	46.209	1,2	23272	C12H8Cl2	2,5-dichlorobiphenyl	34883-39-1	591.65	52.756	2
23093	C11H25N	dimethylnonylamine	17373-27-2	488.15	42.851	1,2	23273	C12H8Cl2	2,6-dichlorobiphenyl	33146-45-1	591.65	52.756	2
23094	C11H25N	diethylheptylamine	26981-81-7	471.15	43.230	1,2	23274	C12H8Cl2	3,3'-dichloro-1,1'-biphenyl	2050-67-1	593.15	52.902	1,2
23095	C11H25N	4-ethyl-1-methyloctylamine	10024-78-9	493.99	43.307	2	23275	C12H8Cl2	4,4'-dichloro-1,1'-biphenyl	2050-68-2	590.15	52.610	1,2
23098	C11H26NO2PS	N-[2-(ethoxy-methyl-phosphinoyl)sulfanylethy*	50782-69-9	572.15	50.858	1,2	23276	C12H8Cl2	2,2'-dichloro-1,1'-biphenyl	13029-08-8	591.65	52.756	2
23101	C11H26N2	2-butyl-2-ethyl-1,5-pentanediamine	137605-95-9	542.15	47.948	1,2	23277	C12H8Cl2	3,4-dichloro-1,1'-biphenyl	2974-92-7	591.65	52.756	2
23102	C11H26N2	3-(dibutylamino)propylamine	102-83-0	478.15	41.789	1,2	23278	C12H8Cl2	dichloro-1,1'-biphenyl	25512-42-9	591.65	52.756	2
23103	C11H26N2	N,N,N',N'-tetraethyl-1,3-propanediamine	60558-96-5	510.15	44.860	2	23279	C12H8Cl2	2,4'-dichloro-1,1'-biphenyl	34883-43-7	591.65	52.756	2
23105	C11H26OSi	methoxy(dimethyl)octylsilane	93804-29-6	495.15	43.418	1,2	23282	C12H8Cl2O	bis(4-chlorophenyl) ether	2444-89-5	586.15	52.220	1,2
23116	C12AlBrF10	bis(penta fluoro phenyl)aluminum bromide	---	470.25	41.033	1,2	23283	C12H8Cl2O	dichlorodiphenyl oxide	28675-08-3	586.15	52.220	2
23117	C12Br10O	decabromodiphenyl ether	1163-19-5	803.15	73.656	1,2	23297	C12H8F2	2,2'-difluoro-1,1'-biphenyl	388-82-9	527.65	46.547	2
23118	C12Cl8O2	octachlorodibenzo-p-dioxin	3268-87-9	783.15	71.657	1,2	23298	C12H8F2	3,3'-difluoro-1,1'-biphenyl	396-64-5	527.65	46.547	2
23120	C12Cl10S2Zn	bis(pentachlorophenol), zinc salt	117-97-5	430.65	37.263	1,2	23299	C12H8F2	4,4'-difluoro-1,1'-biphenyl	398-23-2	527.65	46.547	1,2
23123	C12F10	2,2',3,3',4,4',5,5',6,6'-decafluoro-1,1'-bip*	434-90-2	479.15	41.884	1,2	23302	C12H8F16O2	glycidyl 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hex*	125370-60-7	524.15	46.209	1,2
23126	C12F27N	tris(perfluorobutyl)amine	311-89-7	451.15	39.211	1,2	23305	C12H8N2	1,10-phenanthroline	66-71-7	633.15	56.813	2
23130	C12N6O12Pb3	lead(ii) trinitrosophloroglucinolate	---	353.24	29.983	1,2	23306	C12H8N2	1,7-phenanthroline	230-46-6	633.15	56.813	1,2
23135	C12HF23O2	tricosafluorododecanoic acid	307-55-1	518.15	45.631	1,2	23307	C12H8N2	4,7-phenanthroline	230-07-9	633.15	56.813	2
23136	C12H2Br8	octabromodiphenyl	27858-07-7	448.15	38.925	1,2	23308	C12H8N2	phenazine	92-82-0	633.15	56.813	2
23137	C12H2Cl6O	1,2,3,4,7,8-hexachlorodibenzofuran	70648-26-9	429.35	37.140	1,2	23309	C12H8N2	benzo[c]cinnoline	230-17-1	633.15	56.813	2
23138	C12H2Cl6O	1,2,3,6,7,8-hexachlorodibenzofuran	57117-44-9	429.35	37.140	2	23317	C12H8N2O4	2,2'-dinitro-1,1'-biphenyl	2436-96-6	578.15	51.441	1,2
23139	C12H2Cl6O	2,3,4,6,7,8-hexachlorodibenzofuran	60851-34-5	429.35	37.140	2	23318	C12H8N2O4	2,4'-dinitro-1,1'-biphenyl	606-81-5	578.15	51.441	2
23141	C12H2Cl6O2	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	57653-85-7	458.00	39.864	2	23319	C12H8N2O4	4,4'-dicarboxy-2,2'-bipyridine	6813-38-3	578.15	51.441	2
23142	C12H2Cl6O2	1,2,3,6,7,9-hexachlorodibenzo-p-dioxin	64461-98-9	511.15	44.956	1,2	23320	C12H8N2O4	4,4'-dinitrobiphenyl	1528-74-1	578.15	51.441	2
23143	C12H2Cl6O2	1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	19408-74-3	458.00	39.864	2	23321	C12H8N2O4	N-phthalyl-DL-aspartimide	3982-20-5	578.15	51.441	2
23144	C12H2Cl6O2	1,2,4,6,7,9-hexachlorodibenzo-p-dioxin	39227-62-8	404.85	34.822	1,2	23335	C12H8O	dibenzofuran	132-64-9	557.86	45.493	1,2
23146	C12H3Br5O	1,2,3,7,8-pentabromodibenzofuran	107555-93-1	524.15	46.209	1,2	23336	C12H8OS	phenoxathiin	262-20-4	584.25	52.035	1,2
23154	C12H4Cl4O2	1,2,3,4-tetrachlorodibenzo-p-dioxin	30746-58-8	474.15	41.406	2	23348	C12H8S	dibenzothiophene	132-65-0	605.65	54.122	1,2
23155	C12H4Cl4O2	1,2,3,8-tetrachlorodibenzo-p-dioxin	53555-02-5	474.15	41.406	2	23349	C12H8S2	thianthrene	92-85-3	638.15	57.304	1,2
23156	C12H4Cl4O2	1,2,7,8-tetrachlorodibenzo-p-dioxin	34816-53-0	474.15	41.406	2	23352	C12H9AsClN	diphenylamine chloroarsine	578-94-9	683.15	61.732	1,2
23157	C12H4Cl4O2	1,3,6,8-tetrachlorodibenzo-p-dioxin	33423-92-6	474.15	41.406	2	23356	C12H9Br	2-bromo-1,1'-biphenyl	2052-07-5	570.15	50.663	1,2
23158	C12H4Cl4O2	1,3,7,8-tetrachlorodibenzo-p-dioxin	50585-46-1	474.15	41.406	1,2	23357	C12H9Br	3-bromo-1,1'-biphenyl	2113-57-7	573.15	50.955	1,2
23159	C12H4Cl6	2,2',3,3',4,4'-hexachlorobiphenyl	38380-07-3	650.65	58.531	2	23358	C12H9Br	4-bromobiphenyl	92-66-0	583.15	51.928	1,2
23160	C12H4Cl6	2,2',4,4',6,6'-hexachlorobiphenyl	33979-03-2	650.65	58.531	2	23359	C12H9Br	5-bromo-1,2-dihydroacenaphthylene	2051-98-1	608.15	54.366	1,2
23161	C12H4Cl6	2,2',3,3',6,6'-hexachlorobiphenyl	38411-22-2	650.65	58.531	2	23360	C12H9Br	5-bromo-[1,1'-biphenyl]-2-ol	16434-97-2	583.65	51.977	2
23162	C12H4Cl6	2,3,3',4,4',5-hexachlorobiphenyl	38380-08-4	650.65	58.531	2	23365	C12H9Cl	2-chlorobiphenyl	2051-60-7	547.15	48.432	1,2
23163	C12H4Cl6	2,2',4,4',5'5'-hexachloro-1,1'-biphenyl	35065-27-1	650.65	58.531	2	23366	C12H9Cl	3-chlorobiphenyl	2051-61-8	557.65	49.450	1,2
23164	C12H4Cl6	3,3',4,4',5,5'-hexachlorobiphenyl	32774-16-6	650.65	58.531	2	23367	C12H9Cl	4-chlorobiphenyl	2051-62-9	566.05	50.265	1,2
23174	C12H5ClO3	4-chloronaphthalic anhydride	4053-08-1	485.15	42.459	1,2	23368	C12H9Cl	5-chloro-1,2-dihydroacenaphthylene	5209-33-6	592.15	52.805	1,2
23177	C12H5Cl5	2,3,4,5,6-pentachlorobiphenyl	18259-05-7	650.65	58.531	2	23373	C12H9ClO	3-chloro-[1,1'-biphenyl]-2-ol	85-97-2	590.15	52.610	2
23178	C12H5Cl5	2,2',4,5,5'-pentachlorobiphenyl	37680-73-2	650.65	58.531	2	23374	C12H9ClO	1-chloro-4-phenoxybenzene	7005-72-3	557.65	49.450	1,2
23179	C12H5Cl5	alochlor 1254	11097-69-1	650.65	58.531	1,2	23375	C12H9ClO	3-chloro-4-hydroxybiphenyl	92-04-6	595.15	53.097	1,2
23180	C12H5Cl5	pentachlorobiphenyl	25429-29-2	650.65	58.531	2	23376	C12H9ClO	5-chloro-[1,1'-biphenyl]-2-ol	607-12-5	580.98	51.717	2
23181	C12H5Cl5	2,2',3,4,5'-pentachlorobiphenyl	38380-02-8	650.65	58.531	2	23377	C12H9ClO	monochlorodiphenyl oxide	55398-86-2	580.98	51.717	2
23182	C12H5Cl5	2,3',4,4',5-pentachlorobiphenyl	31508-00-6	650.65	58.531	2	23379	C12H9ClO2S2	4-chlorobenzenesulfonothioic acid, s-phenyl *	1142-97-8	391.65	33.579	1,2
23183	C12H5Cl5	2,3,3',4,4'-pentachlorobiphenyl	32598-14-4	650.65	58.531	2	23385	C12H9F	2-fluoro-1,1'-biphenyl	321-60-8	521.15	45.920	1,2
23184	C12H5Cl5	3,3',4,4',5-pentachlorobiphenyl	57465-28-8	650.65	58.531	2	23386	C12H9F	4-fluoro-1,1'-biphenyl	324-74-3	526.15	46.402	1,2
23186	C12H5Cl5O2	4,5,6-trichloro-2-(2,4-dichlorophenoxy)phenol	53555-01-4	448.05	38.916	1,2	23389	C12H9F13O3	4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluoro-2-hy*	127377-12-2	523.15	46.113	1,2
23191	C12H5N5O8	1,3,6,8-tetranitrokarbazol	4543-33-3	493.15	43.226	1,2	23390	C12H9I	2-iodo-1,1'-biphenyl	2113-51-1	593.15	52.902	2
23193	C12H6Br4O	tetrabromodiphenyl ether	40088-47-9	536.15	47.368	1,2	23391	C12H9I	3-iodo-1,1'-biphenyl	20442-79-9	593.15	52.902	2
23194	C12H6Br4O2	dephosphate bromofenofos	21987-62-2	420.15	36.268	1,2	23392	C12H9I	4-iodo-1,1'-biphenyl	1591-31-7	593.15	52.902	1,2
23195	C12H6Cl2N2O6	5,5'-dichloro-2,2'-dihydroxy-3,3'-dinitrobip*	10331-57-4	524.65	46.258	1,2	23393	C12H9I	5-iodo-1,2-dihydroacenaphthylene	6861-64-9	593.15	52.902	2
23196	C12H6Cl2O2	1,8-naphthalenedicarbonyl dichloride	6423-29-6	505.15	44.379	2	23394	C12H9N	dibenzopyrrole	86-74-8	627.86	58.874	1,2
23197	C12H6Cl2O2	2,7-dichlorodibenzodioxin	33857-26-0	505.15	44.379	2	23395	C12H9N	1-naphthaleneacetonitrile	132-75-2	602.01	53.766	2
23198	C12H6Cl2O2	1,3-dichlorodibenzo-p-dioxin	50585-39-2	505.15	44.379	2	23396	C12H9N	2-naphthaleneacetonitrile	7498-57-9	576.15	51.247	1,2
23199	C12H6Cl2O2	1,6-dichlorodibenzo-p-dioxin	38178-38-0	505.15	44.379	1,2	23397	C12H9NO	10H-phenoxazine	135-67-1	588.13	52.413	2
23200	C12H6Cl2O2	2,3-dichlorodibenzo-p-dioxin	29446-15-9	505.15	44.379	2	23398	C12H9NO	phenyl-2-pyridinylmethanone	91-02-1	590.15	52.610	1,2
23201	C12H6Cl2O2	2,8-dichlorodibenzo-p-dioxin	38964-22-6	505.15	44.379	2	23399	C12H9NO	phenyl-4-pyridinylmethanone	14548-46-0	588.15	52.415	1,2
23203	C12H6Cl3NO3	p-nitrophenyl-2,4,6-trichlorophenyl ether	1836-77-7	479.15	41.884	1,2	23400	C12H9NO	3-benzoylpyridine	5424-19-1	586.10	52.215	1,2
23204	C12H6Cl4	2,3,4,5-tetrachlorobiphenyl	33284-53-6	498.72	43.761	2	23401	C12H9NO	2-hydroxycarbazole	86-79-3	588.13	52.413	2
23205	C12H6Cl4	2,2',4',5-tetrachlorobiphenyl	41464-40-8	498.72	43.761	2	23402	C12H9NO	2-methoxy-1-naphthonitrile	16000-39-8	588.13	52.413	2
23206	C12H6Cl4	chlorodiphenyl	53469-21-9	618.65	55.393	1,2	23403	C12H9NO	4-methoxy-1-naphthonitrile	5961-55-7	588.13	52.413	2
23207	C12H6Cl4	3,3',4,4'-tetrachlorobiphenyl	32598-13-3	519.15	45.727	1,2	23404	C12H9NO	6-methoxy-2-naphthonitrile	67886-70-8	588.13	52.413	2
23208	C12H6Cl4	2,2',3,3'-tetrachlorobiphenyl	38444-93-8	498.72	43.761	2	23405	C12H9NO	2-dibenzofuranamine	3693-22-9	588.13	52.413	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
23406	C12H9NO	3-dibenzofuranamine	4106-66-5	588.13	52.413	2	23545	C12H10O2	phenylhydroquinone	1079-21-6	564.25	50.090	2
23407	C12H9NO	3-nitrosobiphenyl	105361-86-2	588.13	52.413	2	23546	C12H10O2	4-phenylpyrocatechol	92-05-7	564.25	50.090	2
23408	C12H9NO	4-nitrosobiphenyl	10125-76-5	588.13	52.413	2	23547	C12H10O2S	diphenyl sulfone	127-63-9	652.15	58.679	1,2
23409	C12H9NO2	4-methoxyfuro[2,3-b]quinoline	484-29-7	586.15	52.220	2	23548	C12H10O2S	2-(4-methoxybenzoyl)thiophene	4160-63-8	652.15	58.679	2
23410	C12H9NO2	o-nitrobiphenyl	86-00-0	593.15	52.902	1,2	23549	C12H10O2S	bis(dihydroxyphenyl)sulfide	52578-56-0	652.15	58.679	2
23411	C12H9NO2	3-nitrobiphenyl	2113-58-8	586.15	52.220	2	23550	C12H10O2S	4,4'-thiodiphenol	2664-63-3	652.15	58.679	2
23412	C12H9NO2	p-nitrobiphenyl	92-93-3	613.15	54.855	1,2	23551	C12H10O2Se	diphenylselenone	10504-99-1	430.15	37.215	1,2
23413	C12H9NO2	5-nitroacenaphthene	602-87-9	552.15	48.917	1,2	23553	C12H10O3	benzyl 2-furancarboxylate	5380-40-5	473.15	41.310	2
23414	C12H9NO2	phenyl nicotinate	3468-53-9	586.15	52.220	2	23554	C12H10O3	methyl 3-hydroxy-2-naphthalenecarboxylate	883-99-8	479.15	41.884	1,2
23415	C12H9NO2	2-quinaldylmalondialdehyde	40070-84-6	586.15	52.220	2	23555	C12H10O3	(2-naphthyloxy)acetic acid	120-23-0	473.15	41.310	2
23416	C12H9NO2	N-(4-vinylphenyl)maleimide	19007-91-1	586.15	52.220	2	23556	C12H10O3	furfuryl benzoate	34171-46-5	473.15	41.310	2
23417	C12H9NO2	2-(p-hydroxybenzoyl)pyridine	33077-70-2	586.15	52.220	2	23557	C12H10O3	1-naphthoxyacetic acid	2976-75-2	473.15	41.310	2
23420	C12H9NO3	1-nitro-2-phenoxybenzene	2216-12-8	593.15	52.902	2	23558	C12H10O3	4,4'-oxydiphenol	1965-09-9	473.15	41.310	2
23421	C12H9NO3	1-nitro-4-phenoxybenzene	620-88-2	593.15	52.902	1,2	23559	C12H10O3	phenyl-1,2,4-benzenetriol	29222-39-7	473.15	41.310	2
23422	C12H9NO3	2-phenoxynicotinic acid	35620-71-4	593.15	52.902	2	23560	C12H10O3	spizofurone	72492-12-7	467.15	40.737	1,2
23424	C12H9NO6	N-phthaloyl-L-aspartic acid	66968-12-5	487.65	42.699	1,2	23576	C12H10S	diphenyl sulfide	139-66-2	569.15	50.566	1,2
23425	C12H9NS	10H-phenothiazine	92-84-2	644.15	57.893	1,2	23577	C12H10S2	diphenyldisulfide	882-33-7	583.15	51.928	1,2
23426	C12H9NS	2-methyl-b-naphthothiazole	2682-45-3	644.15	57.893	2	23578	C12H10Se	diphenyl selenide	1132-39-4	574.65	51.101	1,2
23430	C12H9N3O	3-aminobenzo-6,7-quinazoline-4-one	65793-50-2	483.65	42.315	2	23581	C12H10Zn	diphenylzinc	1078-58-6	555.65	49.256	1,2
23431	C12H9N3O	3-amino-2-phenazinol	4569-77-1	483.65	42.315	1,2	23593	C12H11ClN4O	4-(m-chlorophenyl)semicarbazone-1H-pyrrole-2*	119033-98-6	368.15	31.375	1,2
23432	C12H9N3O	milrinone	78415-72-2	483.65	42.315	2	23594	C12H11ClN4O	4-(p-chlorophenyl)semicarbazone-1H-pyrrole-2*	119034-17-2	368.15	31.375	2
23437.1	C12H9N3O4	4,4'-dinitrodiphenylamine	1821-27-8	709.00	81.853	1,2	23595	C12H11ClN4S	4-(p-chlorophenyl)thiosemicarbazone-1H-pyrro*	119033-84-0	393.15	33.720	1,2
23444	C12H10	acenaphthene	83-32-9	550.54	50.900	1,2	23596	C12H11ClN6O2S2	azosemide	27589-33-9	494.15	43.322	1,2
23445	C12H10	phenylbenzene (biphenyl)	92-52-4	528.15	49.048	1,2	23607	C12H11N	p-aminodiphenyl	92-67-1	575.00	56.695	1,2
23446	C12H10	1-vinylnaphthalene	826-74-4	539.35	47.677	2	23608	C12H11N	2-aminobiphenyl	90-41-5	572.15	50.858	1,2
23447	C12H10	2-vinylnaphthalene	827-54-3	539.35	47.677	2	23609	C12H11N	diphenylamine	122-39-4	575.15	54.936	1,2
23448	C12H10AsCl	diphenylarsinous chloride	712-48-1	610.15	54.562	1,2	23610	C12H11N	1,2-dihydro-1-acenaphthylenamine	40745-44-6	560.13	49.690	2
23453	C12H10ClN	4'-chloro-[1,1'-biphenyl]-4-amine	135-68-2	610.15	54.562	2	23611	C12H11N	2-benzylpyridine	101-82-6	550.15	48.723	1,2
23454	C12H10ClN	3-chloro-N-phenylaniline	101-17-7	612.15	54.757	1,2	23612	C12H11N	3-benzylpyridine	620-95-1	560.15	49.692	1,2
23455	C12H10ClN	4-chloro-N-phenylaniline	1205-71-6	608.15	54.366	1,2	23613	C12H11N	4-benzylpyridine	2116-65-6	561.15	49.789	1,2
23456	C12H10ClN	2-[(4-chlorophenyl)methyl]pyridine	4350-41-8	610.15	54.562	2	23614	C12H11N	2-methyl-5-phenylpyridine	3256-88-0	560.13	49.690	2
23457	C12H10ClN	4-(4-chlorobenzyl)pyridine	4409-11-4	610.15	54.562	2	23615	C12H11N	3-methyl-2-phenylpyridine	10273-90-2	560.13	49.690	2
23458	C12H10ClN	3-chloro-4-aminodiphenyl	5730-85-8	610.15	54.562	2	23616	C12H11N	2-(4-methylphenyl)pyridine	4467-06-5	560.13	49.690	2
23459	C12H10ClNO	4-chloro-4'-aminodiphenyl ether	101-79-1	448.15	38.925	1,2	23617	C12H11N	3-aminobiphenyl	2243-47-2	527.15	46.499	1,2
23462	C12H10ClN3	4-chloro-6-ethyleneimino-2-phenylpyrimidine	63019-51-2	422.95	36.533	1,2	23618	C12H11N	1,2-dihydro-5-acenaphthylenamine	4657-93-6	560.13	49.690	2
23465	C12H10ClP	p-chlorodiphenylphosphine	1079-66-9	593.15	52.902	1,2	23619	C12H11NO	1-naphthaleneacetamide	86-86-2	524.90	46.282	2
23472	C12H10Cl2Si	dichlorodiphenylsilane	80-10-4	578.15	51.441	1,2	23620	C12H11NO	N-1-naphthylacetamide	575-36-0	524.90	46.282	2
23473	C12H10Cl2Sn	diphenyltin dichloride	1135-99-5	608.15	54.366	1,2	23621	C12H11NO	2-phenoxyaniline	2688-84-8	581.15	51.733	1,2
23477	C12H10F2Si	difluorodiphenylsilane	312-40-3	519.15	45.727	1,2	23622	C12H11NO	3-phenoxyaniline	3586-12-7	588.15	52.415	1,2
23479	C12H10F6O2	(3,3,3-trifluoro-2-hydroxy-2-(trifluoromethy*	101931-68-4	435.15	37.690	1,2	23623	C12H11NO	2-(phenylamino)phenol	644-71-3	524.90	46.282	2
23480	C12H10FeNa4O14	tetrasodium bis(citrate(3-)ferrate(4-))	---	475.05	41.492	1,2	23624	C12H11NO	3-(phenylamino)phenol	101-18-8	613.15	54.855	1,2
23485	C12H10IN	4-amino-4'-iodobiphenyl	7285-77-0	504.95	44.360	1,2	23625	C12H11NO	4-(phenylamino)phenol	122-37-2	603.15	53.878	1,2
23488	C12H10N2	azobenzene	17082-12-1	566.15	50.275	1,2	23626	C12H11NO	4-phenoxyaniline	139-59-3	524.90	46.282	2
23489	C12H10N2	cis-azobenzene	1080-16-6	566.15	50.275	2	23627	C12H11NO	4-amino-3-biphenylol	4363-03-5	524.90	46.282	2
23490	C12H10N2	1-methyl-9H-pyrido[3,4-b]indole	486-84-0	566.15	50.275	2	23628	C12H11NO	4'-amino-4-biphenylol	1204-79-1	380.65	32.546	1,2
23491	C12H10N2	1,2-bis(2-pyridyl)ethylene	1437-15-6	566.15	50.275	2	23629	C12H11NO	4-biphenylhydroxylamine	6810-26-0	383.15	32.780	1,2
23499	C12H10N2O2	2,2'-dihydroxyazobenzene	2050-14-8	588.65	52.464	2	23634	C12H11NO2	ethyl 2-cyano-3-phenyl-2-propenoate	2025-40-3	388.45	33.278	2
23500	C12H10N2O2	4-nitro-N-phenylaniline	836-30-6	588.65	52.464	2	23635	C12H11NO2	ethyl 2-isocyano-3-phenyl-2-propenoate	52744-85-1	388.45	33.278	2
23501	C12H10N2O2	4-(4-nitrobenzyl)pyridine	1083-48-3	588.65	52.464	2	23637	C12H11NO2	ethyl trans-a-cyanocinnamate	2169-69-9	388.45	33.278	2
23502	C12H10N2O2	2-nitro-N-phenylaniline	119-75-5	619.15	55.442	1,2	23638	C12H11NO2	(R)-(+)-N-(1-phenylethyl)maleimide	6129-15-3	388.45	33.278	2
23503	C12H10N2O2	a-pyridoin	1141-06-6	588.65	52.464	2	23639	C12H11NO2	2-dimethylamino-1,4-naphthoquinone	2348-79-0	388.45	33.278	2
23504	C12H10N2O2	4-amino-4'-nitrobiphenyl	1211-40-1	588.65	52.464	2	23640	C12H11NO2	2,4-dimethylphenylmaleimide	1080-52-0	398.15	34.191	1,2
23505	C12H10N2O2	1-benzoyl-2-(furfurylidene)hydrazine	62214-31-7	558.15	49.498	1,2	23641	C12H11NO2	4,4'-iminodiphenol	1752-24-5	388.45	33.278	2
23506	C12H10N2O2	p-phenylazoresorcinol	2051-85-6	588.65	52.464	2	23642	C12H11NO2	N-methyl naphthylcarbamate	27636-33-5	404.55	34.794	1,2
23507	C12H10N2O2S	anilino (p-nitrophenyl) sulfide	101-59-7	398.15	34.191	1,2	23643	C12H11NO2	N-2-naphthylacetohydroxamic acid	2508-23-8	362.65	30.861	1,2
23509	C12H10N2O4	nifurpirinol	13411-16-0	378.15	32.311	1,2	23644	C12H11NO2S	benzenesulfonanilide	1678-25-7	493.55	43.265	1,2
23519	C12H10O	diphenyl ether	101-84-8	531.46	46.870	1,2	23645	C12H11NO2S	chuanghsinmycin	63339-68-4	493.55	43.265	2
23520	C12H10O	1-acetonaphthone	941-98-0	570.15	50.663	1,2	23650	C12H11NO4	casimiroin	477-89-4	573.15	50.955	2
23521	C12H10O	2-acetonaphthone	93-08-3	575.15	51.149	1,2	23651	C12H11NO4	ethyl phthalimidoacetate	6974-10-3	573.15	50.955	1,2
23522	C12H10O	o-phenylphenol	90-43-7	559.15	49.595	1,2	23652	C12H11NO4	dimethyl indole-2,3-dicarboxylate	54781-93-0	573.15	50.955	2
23523	C12H10O	m-phenylphenol	580-51-8	562.81	49.951	2	23656	C12H11N3	p-aminoazobenzene	60-09-3	633.00	63.798	1,2
23524	C12H10O	p-phenylphenol	92-69-3	578.15	51.441	1,2	23657	C12H11N3	1,3-diphenyltriazene	136-35-6	610.00	60.897	1,2
23525	C12H10O	4-methyl-1-naphthalenecarboxaldehyde	33738-48-6	562.81	49.951	2	23658	C12H11N3	3-amino-1-methyl-5H-pyrido(4,3-b)indole	62450-07-1	621.50	55.672	2
23526	C12H10O	2,6-diallylphenol	3382-99-8	562.81	49.951	2	23659	C12H11N3	2-amino-3-methyl-9H-pyrido(2,3-b)indole	68006-83-7	621.50	55.672	2
23529	C12H10O2	[1,1'-biphenyl]-2,2'-diol	1806-29-7	593.15	52.902	1,2	23660	C12H11N3O	4-amino-4'-hydroxyazobenzene	103-18-4	483.15	42.268	1,2
23530	C12H10O2	[1,1'-biphenyl]-2,4'-diol	611-62-1	615.15	55.051	1,2	23663	C12H11N3O3S	4'-aminoazobenzene-4-sulfonic acid	104-23-4	398.15	34.191	1,2
23531	C12H10O2	[1,1'-biphenyl]-3,3'-diol	612-76-0	564.25	50.090	2	23664	C12H11N3O6S2	4-amino-3,4'-disulfoazobenzene	101-50-8	415.75	35.852	1,2
23532	C12H10O2	1-(1-hydroxy-2-naphthyl)ethanone	711-79-5	598.15	53.390	2	23666	C12H11N5	9-benzyladenine	4261-14-7	457.15	39.783	2
23533	C12H10O2	4-methoxy-1-naphthalenecarboxaldehyde	15971-29-6	564.25	50.090	2	23667	C12H11N5	1,5-diphenyl-1,4-pentazdiene	---	457.15	39.783	1,2
23534	C12H10O2	methyl 1-naphthalenecarboxylate	2459-24-7	564.25	50.090	2	23668	C12H11N5O3	4-(p-nitrophenyl)semicarbazone-1H-pyrrole-2-*	119034-08-1	356.65	30.301	1,2
23535	C12H10O2	methyl 2-naphthalenecarboxylate	2459-25-8	563.15	49.984	1,2	23675	C12H12	1,2-dimethylnaphthalene	573-98-8	539.46	50.208	1,2
23536	C12H10O2	1-naphthaleneacetic acid	86-87-3	564.25	50.090	2	23676	C12H12	1,3-dimethylnaphthalene	575-41-7	538.36	49.919	1,2
23537	C12H10O2	2-naphthaleneacetic acid	581-96-4	564.25	50.090	2	23677	C12H12	1,4-dimethylnaphthalene	571-58-4	540.46	50.116	1,2
23538	C12H10O2	1-acetyl-2-naphthol	574-19-6	564.25	50.090	2	23678	C12H12	1,5-dimethylnaphthalene	571-61-9	538.16	49.903	1,2
23539	C12H10O2	4,4'-biphenol	92-88-6	564.25	50.090	2	23679	C12H12	1,6-dimethylnaphthalene	575-43-9	536.16	49.714	1,2
23540	C12H10O2	2-methoxy-1-naphthaldehyde	5392-12-1	564.25	50.090	2	23680	C12H12	1,7-dimethylnaphthalene	575-37-1	536.16	49.714	1,2
23541	C12H10O2	2-naphthyl acetate	1523-11-1	564.25	50.090	2	23681	C12H12	1,8-dimethylnaphthalene	569-41-5	543.15	48.045	1,2
23542	C12H10O2	1-naphthyl acetate	830-81-9	564.25	50.090	2	23682	C12H12	2,3-dimethylnaphthalene	581-40-8	541.16	50.179	1,2
23543	C12H10O2	3-phenoxyphenol	713-68-8	564.25	50.090	2	23683	C12H12	2,6-dimethylnaphthalene	581-42-0	535.15	48.752	1,2
23544	C12H10O2	4-phenoxyphenol	831-82-3	451.65	39.259	1,2	23684	C12H12	2,7-dimethylnaphthalene	582-16-1	536.15	48.818	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
23685	C12H12	1-ethylnaphthalene	1127-76-0	531.48	48.015	1,2	23839	C12H13NO2	1-benzoyl-4-piperidone	24686-78-0	407.65	35.087	2
23686	C12H12	2-ethylnaphthalene	939-27-5	531.49	48.116	1,2	23840	C12H13NO2	benzyl 3-pyrroline-1-carboxylate	31970-04-4	407.65	35.087	2
23687	C12H12	dimethylnaphthalene, isomers	28804-88-8	537.28	49.354	2	23841	C12H13NO2	(3S-cis)-(-)-3-phenyltetrahydropyrrolo-[2,1-*	122383-34-0	407.65	35.087	2
23692	C12H12ClCuN4O4	tetraacrylonitrilecopper(i) perchlorate	---	473.15	41.310	1,2	23842	C12H13NO2	(3R-cis)-(-)-3-phenyltetrahydropyrrolo-[2,1-*	133007-27-9	407.65	35.087	2
23695	C12H12ClN	3-chloro-4-stilbenamine	73928-01-5	435.15	37.690	1,2	23843	C12H13NO2	ethyl 3-indoleacetate	778-82-5	407.65	35.087	2
23696	C12H12ClNO	chloretin	21267-72-1	522.15	46.016	1,2	23844	C12H13NO2	(R)-1-(2-hydroxy-1-phenylethyl)-1,5-dihydrop*	158271-95-5	407.65	35.087	2
23711	C12H12FN3O	5-amino-1,3-dimethyl-4-pyrazolyl o-fluorophe*	31272-21-6	522.15	46.016	1,2	23845	C12H13NO2	N-(n-butyl)phthalimide	1515-72-6	407.65	35.087	2
23716	C12H12Hg2N2O7	2,6-bis(acetoxymercuri)-4-nitroacetanilide	64058-74-8	633.15	56.813	1,2	23846	C12H13NO2	4-methyl-7-dimethylaminocoumarin	87-01-4	407.65	35.087	2
23717	C12H12I3NO3	2-(3-acetamido-2,4,6-triiodophenyl)butyric a*	23279-53-0	411.15	35.417	1,2	23847	C12H13NO2	bicyclo(4.2.0)octa-1,3,5-trien-7-yl methyl k*	6813-93-0	407.65	35.087	2
23718	C12H12N2	p-aminodiphenylamine	101-54-2	627.15	65.887	1,2	23848	C12H13NO2	N-sec-butylphthalimide	10108-61-9	407.65	35.087	1,2
23719	C12H12N2	hydrazobenzene	122-66-7	573.00	59.492	1,2	23849	C12H13NO2	1-carbethoxy-1,2-dihydroquinoline	16322-14-8	407.65	35.087	2
23720	C12H12N2	p-benzidine	92-87-5	674.15	60.844	1,2	23850	C12H13NO2	1-ethyl-3-(hydroxyacetyl)indole	38692-98-7	407.65	35.087	2
23721	C12H12N2	[1,1'-biphenyl]-2,2'-diamine	1454-80-4	582.21	51.836	2	23851	C12H13NO2	2-(methoxyacetyl)-1-methylindole	52098-17-6	407.65	35.087	2
23722	C12H12N2	[1,1'-biphenyl]-2,4'-diamine	492-17-1	636.15	57.107	1,2	23852	C12H13NO2	2-(methoxyacetyl)-3-methylindole	52098-18-7	407.65	35.087	2
23723	C12H12N2	[1,1'-biphenyl]-3,3'-diamine	2050-89-7	582.21	51.836	2	23854	C12H13NO3	butyl 4-isocyanatobenzoate	102561-47-7	568.15	50.469	1,2
23724	C12H12N2	N-phenyl-1,2-benzenediamine	534-85-0	586.15	52.220	1,2	23855	C12H13NO3	butyl 2-isocyanatobenzoate	51310-19-1	568.15	50.469	2
23725	C12H12N2	1,1-diphenylhydrazine	530-50-7	582.21	51.836	2	23856	C12H13NO3	ethyl 5-hydroxy-2-methylindole-3-carboxylate	7598-91-6	568.15	50.469	2
23726	C12H12N2	2-benzylaminopyridine	6935-27-9	396.65	34.050	1,2	23857	C12H13NO3	5-methoxy-2-methyl-3-indoleacetic acid	2882-15-7	568.15	50.469	2
23727	C12H12N2	1,2-bis(4-pyridyl)ethane	4916-57-8	582.21	51.836	2	23858	C12H13NO3	methyl (4S,5S)-dihydro-5-methyl-2-phenyl-4-o*	82659-84-5	568.15	50.469	2
23728	C12H12N2	4-tert-butylphthalonitrile	32703-80-3	582.21	51.836	2	23859	C12H13NO3	(N-acetyl)-(4R)-benzyl-2-oxazolidinone	132836-66-9	568.15	50.469	2
23729	C12H12N2	4,4'-dimethyl-2,2'-bipyridine	1134-35-6	582.21	51.836	2	23872	C12H13N3O2	5-amino-4-carbethoxy-1-phenylpyrazole	16078-71-0	630.65	56.568	2
23748	C12H12N2S2	4-aminophenyl disulfide	722-27-0	429.15	37.121	1,2	23873	C12H13N3O2	2,3,5-tris(1-aziridinyl)-p-benzoquinone	68-76-8	630.65	56.568	1,2
23749	C12H12N2S2	2,2'-dithiobisaniline	1141-88-4	429.15	37.121	2	23874	C12H13N3O2	1-benzyl-2-(3-methylisoxazol-5-yl)carbonyl h*	1085-32-1	630.65	56.568	2
23753	C12H12N4	p-diaminoazobenzene	538-41-0	559.15	49.595	2	23875	C12H13N3O2	isocarboxazid	59-63-2	630.65	56.568	2
23754	C12H12N4	2,4-diaminoazobenzene	495-54-5	559.15	49.595	1,2	23879	C12H13N3O6	galatone	3691-74-5	394.15	33.814	1,2
23759	C12H12O	1,4-dimethyl-2-naphthalenol	4705-94-6	588.65	52.464	1,2	23884	C12H13N5O4	vengicide	606-58-6	387.15	33.156	1,2
23760	C12H12O	alpha-methyl-1-naphthalenemethanol, (±)	57605-95-5	540.15	47.755	2	23887	C12H14	1,2,3-trimethylindene	4773-83-5	509.00	45.730	1,2
23761	C12H12O	1-ethoxynaphthalene	5328-01-8	553.65	49.062	1,2	23888	C12H14	1-cyclohexen-1-ylbenzene	771-98-2	525.15	46.306	1,2
23762	C12H12O	2-ethoxynaphthalene	93-18-5	555.15	49.207	1,2	23889	C12H14	2-cyclohexen-1-ylbenzene	15232-96-9	508.15	44.668	1,2
23763	C12H12O	6-phenyl-3,5-hexadien-2-one	4173-44-8	540.15	47.755	2	23890	C12H14	1,3-hexadienylbenzene	41635-77-2	510.46	44.890	2
23764	C12H12O	2-naphthaleneethanol	1485-07-0	540.15	47.755	2	23891	C12H14	1,5-hexadienylbenzene	1009-81-0	510.46	44.890	2
23765	C12H12O	1-naphthaleneethanol	773-99-9	463.15	40.355	1,2	23892	C12H14	3,5-hexadienylbenzene	39669-95-9	510.46	44.890	2
23767	C12H12O2	2-acetyl-3,4-dihydro-1(2H)-naphthalenone	17216-08-9	541.15	47.852	2	23893	C12H14	(1-vinyl-3-butenyl)benzene	1076-66-0	510.46	44.890	2
23768	C12H12O2	allyl cinnamate	1866-31-5	541.15	47.852	2	23894	C12H14	1,2,2a,3,4,5-hexahydroacenaphthylene	480-72-8	522.15	46.016	1,2
23769	C12H12O2	1,8-bis(hydroxymethyl)naphthalene	2026-08-6	541.15	47.852	2	23895	C12H14	1,3-diisopropenylbenzene	3748-13-8	504.15	44.283	1,2
23770	C12H12O2	3-butylidene phthalide	551-08-6	541.15	47.852	2	23896	C12H14	1-phenyl-1-hexyne	1129-65-3	503.60	44.230	1,2
23771	C12H12O2	2,7-dimethoxynaphthalene	3469-26-9	541.15	47.852	2	23897	C12H14	2-propyl-1H-indene	92013-11-1	510.46	44.890	2
23772	C12H12O2	2-methoxy-1-naphthalenemethanol	40696-22-8	541.15	47.852	2	23898	C12H14	1,4-bis(1-methylethenyl)benzene	1605-18-1	501.00	43.980	1,2
23773	C12H12O2	5-phenyl-1,3-cyclohexanedione	493-72-1	541.15	47.852	2	23899	C12H14	4-phenylcyclohexene	4994-16-5	510.46	44.890	2
23774	C12H12O2	(2,2-diacetylvinyl)benzene	4335-90-4	541.15	47.852	2	23913	C12H14Fe	ethylferrocene	1273-89-8	537.15	47.465	1,2
23776	C12H12O3	ethyl 3-benzoylacrylate	17450-56-5	457.15	39.783	1,2	23916	C12H14N2	N-1-naphthyl-1,2-ethanediamine	551-09-7	592.15	52.805	2
23777	C12H12O3	1,3,5-triacetylbenzene	779-90-8	448.98	39.005	2	23917	C12H14N2	paraquat	4685-14-7	592.15	52.805	2
23778	C12H12O3	3-acetyl-6-methoxy-2H-1-benzopyran	57543-56-3	448.98	39.005	2	23918	C12H14N2	N,N,2-trimethyl-6-quinolinamine	92-99-9	592.15	52.805	1,2
23779	C12H12O3	3-acetyl-7-methoxy-2H-1-benzopyran	57543-55-2	448.98	39.005	2	23919	C12H14N2	7-amino-2,4,6-trimethylquinoline	122349-91-1	592.15	52.805	2
23780	C12H12O3	3-acetyl-8-methoxy-2H-1-benzopyran	57543-54-1	488.65	42.795	1,2	23943	C12H14N2O6	dinoseb acetate	2813-95-8	443.15	38.450	1,2
23781	C12H12O3	a-ethynyl-p-methoxybenzyl alcohol acetate	---	448.98	39.005	2	23944	C12H14N2O6	dinoterb acetate	3204-27-1	554.35	49.130	1,2
23782	C12H12O3	1-(5-methoxy-2H-1-benzopyran-3-yl)ethanone	57543-57-4	401.15	34.474	1,2	23949	C12H14N4O2S	sulfamethazine	57-68-1	567.15	50.372	2
23784	C12H12O4	2,2-dimethyl-5-phenyl-1,3-dioxane-4,6-dione	15231-78-4	434.55	37.633	2	23950	C12H14N4O2S	sulfaisodimerazine	515-64-0	567.15	50.372	1,2
23786	C12H12O4	5-(1-acetyloxy-2-propenyl)-1,3-benzodioxole	34627-78-6	434.55	37.633	2	23951	C12H14N4O3S	methofadin	3772-76-7	411.15	35.417	1,2
23787	C12H12O4	4,7-dimethoxy-2-benzofuranyl methyl ketone	64466-47-3	434.55	37.633	1,2	23953	C12H14N4O4S	sulfadimethoxine	122-11-2	538.65	47.610	2
23788	C12H12O4	6,7-dimethoxy-2-benzofuranyl methyl ketone	64466-48-4	434.55	37.633	2	23954	C12H14N4O4S	6-(4-aminobenzenesulfonamido)-4,5-dimethoxyp*	2447-57-6	571.15	50.761	1,2
23795	C12H12O6	1,2,4-benzenetriol triacetate	613-03-6	573.15	50.955	1,2	23955	C12H14N4O4S	3,6-dimethoxy-4-sulfanilamidopyridazine	1230-33-7	506.15	44.475	1,2
23796	C12H12O6	trimethyl 1,2,4-benzenetricarboxylate	2459-10-1	467.15	40.737	1,2	23956	C12H14N4O4S	sulfadimethoxypyrimidine	155-91-9	538.65	47.610	2
23797	C12H12O6	trimethyl 1,3,5-benzenetricarboxylate	2672-58-4	520.15	45.824	2	23958	C12H14N4O5S2	4,4'-oxydibenzenesulfonyl hydrazide	80-51-3	398.15	34.191	1,2
23809	C12H13Cl3O3	butyl (2,4,5-trichlorophenoxy)acetate	93-79-8	610.15	54.562	1,2	23962	C12H14O	2-benzylcyclopentanone	2867-63-2	461.90	40.236	2
23810	C12H13Cl3O3	sec-butyl (2,4,5-trichlorophenoxy)acetate	61792-07-2	610.15	54.562	2	23963	C12H14O	7-ethyl-3,4-dihydro-1(2H)-naphthalenone	22531-06-2	461.90	40.236	2
23811	C12H13FN2O2	N-(p-fluorobenzyl)pyroglutamide	59749-46-1	422.65	36.505	1,2	23964	C12H14O	4-methyl-7-isopropylbenzofuran	95835-77-1	514.65	45.293	1,2
23815	C12H13I3N2O3	4-((3-amino-2,4,6-triiodophenyl)ethylamino)-*	1634-73-7	478.15	41.789	1,2	23965	C12H14O	4-phenylcyclohexanone	4894-75-1	461.90	40.236	2
23816	C12H13N	1,4-dimethyl-2-naphthylamine	878-93-3	606.15	54.171	1,2	23966	C12H14O	4-phenyl-5-hexen-2-one	50552-30-2	461.90	40.236	2
23817	C12H13N	N,N-dimethyl-1-naphthylamine	86-56-6	523.15	46.113	1,2	23967	C12H14O	6-phenyl-5-hexen-2-one	69371-59-1	461.90	40.236	2
23818	C12H13N	N,N-dimethyl-2-naphthylamine	2436-85-3	578.15	51.441	1,2	23968	C12H14O	3-(phenylmethylene)-2-pentanone	3437-89-6	461.90	40.236	2
23819	C12H13N	N-ethyl-1-naphthalenamine	118-44-5	578.15	51.441	1,2	23969	C12H14O	5,7-dimethyl-1-tetralone	13621-25-5	461.90	40.236	2
23820	C12H13N	N-ethyl-2-naphthalenamine	2437-03-8	589.65	52.561	1,2	23970	C12H14O	2-phenylcyclohexanone	1444-65-1	461.90	40.236	2
23821	C12H13N	2-ethyl-3-methylquinoline	27356-52-1	542.15	47.948	1,2	23971	C12H14O	2-propyl-1-indanone	92013-10-0	461.90	40.236	2
23822	C12H13N	2-ethyl-4-methylquinoline	33357-44-7	545.65	48.287	1,2	23972	C12H14O	cyclopentylphenylmethanone	5422-88-8	409.15	35.228	1,2
23823	C12H13N	3-ethyl-6-methylquinoline	105688-74-2	557.65	49.450	1,2	23973	C12H14O	isopropyl styryl ketone	3160-32-5	461.90	40.236	2
23824	C12H13N	2-propylquinoline	1613-32-7	562.38	49.908	2	23974	C12H14O2	2,2'-sec-butylidenedifuran	100121-73-1	496.65	43.562	2
23825	C12H13N	2,3,6-trimethylquinoline	2437-73-2	558.15	49.498	1,2	23975	C12H14O2	isopropyl trans-cinnamate	60512-85-8	542.15	47.948	1,2
23826	C12H13N	2,3,8-trimethylquinoline	4945-28-2	556.15	49.304	1,2	23976	C12H14O2	propyl cinnamate	74513-58-9	558.15	49.498	1,2
23827	C12H13N	2,4,6-trimethylquinoline	2243-89-2	553.15	49.014	1,2	23977	C12H14O2	beta-propylcinnamic acid	4362-01-0	496.65	43.562	2
23828	C12H13N	2,4,7-trimethylquinoline	71633-43-7	553.65	49.062	1,2	23978	C12H14O2	ethyl trans-b-methylcinnamate	945-93-7	496.65	43.562	2
23829	C12H13N	2,5,7-trimethylquinoline	102871-67-0	560.15	49.692	1,2	23979	C12H14O2	1-phenylcyclopentanecarboxylic acid	77-55-4	496.65	43.562	2
23830	C12H13N	2,3,4,9-tetrahydro-1H-carbazole	942-01-8	600.65	53.634	1,2	23980	C12H14O2	precocene i	17598-02-6	341.15	28.858	1,2
23831	C12H13N	(S)-(-)-1-(1-naphthyl)ethylamine	10420-89-0	562.38	49.908	2	23981	C12H14O2	3-n-butylphthalide	6066-49-5	496.65	43.562	2
23832	C12H13N	(R)-(+)-1-(1-naphthyl)ethylamine	3886-70-2	562.38	49.908	2	23982	C12H14O2	cinnamyl propionate	103-56-0	545.15	48.239	1,2
23833	C12H13N	(±)-1-(1-naphthyl)ethylamine	42882-31-5	562.38	49.908	2	23983	C12H14O2	isopropyl cinnamate	7780-06-5	496.65	43.562	2
23834	C12H13N	2,6,8-trimethylquinoline	2243-90-5	533.05	47.069	1,2	23984	C12H14O2	3-methyl-2-butenyl benzoate	5205-11-8	496.65	43.562	2
23835	C12H13N	isopropyl quinoline	1333-53-5	562.38	49.908	2	23985	C12H14O2	phenylmethacrylate	3683-12-3	496.65	43.562	2
23837	C12H13NO2	1,3-dimethyl-3-phenyl-2,5-pyrrolidinedione	77-41-8	407.65	35.087	2	23986	C12H14O2	n-propyl cinnamate	7778-83-8	496.65	43.562	2
23838	C12H13NO2	1H-indole-3-butanoic acid	133-32-4	407.65	35.087	2	23987	C12H14O3	4-allyl-2-methoxyphenyl acetate	93-28-7	554.15	49.111	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
23988	C12H14O3	benzyl 4-oxopentanoate	6939-75-9	508.95	44.745	2	24131	C12H16	1-butyl-1,3,5,7-cyclooctatetraene	13402-37-4	506.74	44.532	2
23989	C12H14O3	ethyl 3-methyl-3-phenyloxiranecarboxylate	77-83-8	546.65	48.384	1,2	24132	C12H16	2,3-dihydro-1,1,5-trimethyl-1H-indene	40650-41-7	506.74	44.532	2
23990	C12H14O3	ethyl 2-phenylacetoacetate	5413-05-8	508.95	44.745	2	24133	C12H16	2,3-dihydro-1,4,7-trimethyl-1H-indene	54340-87-3	506.74	44.532	2
23991	C12H14O3	cis-2-methoxy-4-(1-propenyl)phenol acetate	97412-23-2	508.95	44.745	2	24134	C12H16	2-hexenylbenzene	67590-77-6	506.74	44.532	2
23992	C12H14O3	trans-2-methoxy-4-(1-propenyl)phenol acetate	5912-87-8	555.65	49.256	1,2	24135	C12H16	3-hexenylbenzene	35008-86-7	495.15	43.418	1,2
23993	C12H14O3	methyl 4-benzoylbutanoate	1501-04-8	508.95	44.745	2	24136	C12H16	5-hexenylbenzene	1588-44-9	489.15	42.843	1,2
23994	C12H14O3	ethyl 2-oxo-4-phenylbutyrate	64920-29-2	514.15	45.245	1,2	24137	C12H16	p-isopropenylisopropylbenzene	2388-14-9	493.95	43.303	1,2
23995	C12H14O3	4-(3-oxobutyl)phenyl acetate	3572-06-3	508.95	44.745	2	24138	C12H16	(1-methyl-1-pentenyl)benzene	20247-89-6	496.15	43.514	1,2
23996	C12H14O3	acetisoeugenol	93-29-8	508.95	44.745	2	24139	C12H16	4-tert-butylstyrene	1746-23-2	506.74	44.532	2
23997	C12H14O3	1'-acetoxyestragole	61691-82-5	374.15	31.937	1,2	24139.1	C12H16	4-isobutylstyrene	63444-56-4	524.00	46.997	1,2
23998	C12H14O3	cyclopentyl 3,4-dihydroxyphenyl ketone	67239-27-4	508.95	44.745	2	24140	C12H16	methylcyclopentadiene dimer	26472-00-4	473.15	41.310	1,2
23999	C12H14O3	prenyl salicylate	68555-58-8	508.95	44.745	2	24141	C12H16	2-(2,4,6-trimethylphenyl)propene	14679-13-1	474.75	41.463	1,2
24002	C12H14O4	diethyl phthalate	84-66-2	567.15	57.425	1,2	24146	C12H16ClNO2	2-(4-chloro-2-methylphenoxy)-N,N-dimethylpro*	13791-92-9	429.65	37.168	2
24003	C12H14O4	1,3-bis(2,3-epoxypropoxy)benzene	101-90-6	527.09	46.493	2	24147	C12H16ClNO2	3-(1-methylpropyl)-6-chlorophenyl methylcarb*	2917-19-3	429.65	37.168	1,2
24004	C12H14O4	diethyl isophthalate	636-53-3	575.15	51.149	1,2	24178	C12H16N3O3PS	triazofos	24017-47-8	533.15	47.078	1,2
24005	C12H14O4	diethyl terephthalate	636-09-9	575.15	51.149	1,2	24179	C12H16N3O3PS2	azinphos-ethyl	2642-71-9	384.15	32.874	1,2
24006	C12H14O4	4,7-dimethoxy-5-allyl-1,3-benzodioxole	523-80-8	567.15	50.372	1,2	24186	C12H16O	1-(4-tert-butylphenyl)ethanone	943-27-1	536.15	47.368	1,2
24007	C12H14O4	trans-4,7-dimethoxy-5-(1-propenyl)-1,3-benzo*	17672-88-7	576.65	51.295	1,2	24187	C12H16O	1-(2-methyl-5-isopropylphenyl)ethanone	1202-08-0	522.65	46.065	1,2
24008	C12H14O4	dimethyl p-phenylenediacetate	36076-25-2	527.09	46.493	2	24188	C12H16O	3-methyl-1-(2-methylphenyl)-1-butanone	58138-81-1	521.15	45.920	1,2
24009	C12H14O4	1-allyl-2,3-dimethoxy-4,5-(methylenedioxy)be*	484-31-1	558.15	49.498	1,2	24189	C12H16O	3-methyl-1-(4-methylphenyl)-1-butanone	61971-91-3	532.15	46.982	1,2
24010	C12H14O4	benzyl ethyl malonate	42998-51-6	411.65	35.464	1,2	24190	C12H16O	3-methyl-1-phenyl-2-pentanone	27993-42-6	534.40	47.199	2
24011	C12H14O4	(R)-2-benzylsuccinic acid-1-methyl ester	119807-84-0	527.09	46.493	2	24191	C12H16O	4-methyl-1-phenyl-1-pentanone	2050-07-9	528.65	46.644	1,2
24012	C12H14O4	(S)-2-benzylsuccinic acid-1-methyl ester	182247-45-6	527.09	46.493	2	24192	C12H16O	1-phenyl-1-hexanone	942-92-7	538.15	47.561	1,2
24013	C12H14O4	ethyl 4-hydroxy-3-methoxycinnamate	4046-02-0	527.09	46.493	2	24193	C12H16O	2-phenyl-3-hexanone	65248-43-3	514.15	45.245	1,2
24014	C12H14O4	1-phenyenepropionic acid	4251-21-2	527.09	46.493	2	24194	C12H16O	3-phenyl-2-hexanone	6306-30-5	508.65	44.716	1,2
24015	C12H14O4	monobutyl phthalate	131-70-4	527.09	46.493	2	24195	C12H16O	(cyclohexyloxy)benzene	2206-38-4	534.15	47.175	1,2
24016	C12H14O4	mono-iso-butyl phthalate	30833-53-5	527.09	46.493	2	24196	C12H16O	2-cyclohexylphenol	119-42-6	534.40	47.199	2
24017	C12H14O4	3,4,5-trimethoxycinnamaldehyde	34346-90-2	385.65	33.015	1,2	24197	C12H16O	4-cyclohexylphenol	1131-60-8	567.15	50.372	1,2
24022.1	C12H14O6	terephthalic acid diethylene glycol ester	959-26-2	683.00	93.211	1,2	24198	C12H16O	1-phenylcyclohexanol	1589-60-2	534.40	47.199	2
24026	C12H15BrN2O	1-(3-bromoadamantyl)-2-diazo-1-ethanone	52917-87-0	455.15	39.592	1,2	24199	C12H16O	cis-2-phenylcyclohexanol, (±)	40960-73-4	534.40	47.199	2
24036	C12H15Cl2NO2	alkyrom	5977-35-5	398.15	34.191	1,2	24200	C12H16O	trans-2-phenylcyclohexanol, (±)	40960-69-8	534.40	47.199	2
24037	C12H15Cl2NO2	phenacid	10477-72-2	398.15	34.191	2	24201	C12H16O	4-tert-butoxystyrene	95418-58-9	534.40	47.199	2
24040	C12H15F3O2	3-(trifluoroacetyl)-d-camphor	51800-98-7	373.65	31.890	1,2	24202	C12H16O	4'-butylacetophenone	37920-25-5	534.40	47.199	2
24041	C12H15HgNO6	hydroxymercuripropanolamide of m-carboxyphen*	63868-96-2	422.15	36.457	2	24203	C12H16O	pentamethylbenzaldehyde	17432-38-1	534.40	47.199	2
24042	C12H15HgNO6	hydroxymercuripropanolamide of p-carboxyphen*	63868-98-4	422.15	36.457	1,2	24204	C12H16O	2-phenyl cyclohexanol	1444-64-0	551.65	48.868	1,2
24043	C12H15HgNO6	neptal	26552-50-1	422.15	36.457	2	24205	C12H16O	(±)-trans-2-phenyl-1-cyclohexanol	2362-61-0	534.40	47.199	2
24045	C12H15N	N-3-butynyl-N-methylbenzenemethanamine	15240-91-2	509.45	44.793	2	24206	C12H16O	(1S,2R)-(+)-trans-2-phenyl-1-cyclohexanol	34281-92-0	551.65	48.868	1,2
24046	C12H15N	alpha-isobutylbenzeneacetonitrile	5558-31-6	537.15	47.465	1,2	24207	C12H16O	(1R,2S)-trans-2-phenyl-1-cyclohexanol	98919-68-7	551.65	48.868	1,2
24047	C12H15N	2,3,6,7-tetrahydro-1H,5H-benzo[ij]quinolizine	479-59-4	553.15	49.014	2	24208	C12H16O	benzyl isobutyl ketone	5349-62-2	523.70	46.166	1,2
24048	C12H15N	acetonanil	26780-96-1	405.15	34.851	1,2	24209	C12H16O	5,7,11-dodecatriyn-1-ol	76379-66-3	534.40	47.199	2
24049	C12H15N	1,2-dihydro-2,2,4-trimethylquinoline	147-47-7	530.65	46.837	1,2	24210	C12H16O2	benzenehexanoic acid	5581-75-9	516.50	45.472	2
24050	C12H15N	1,3,3-trimethyl-2-methyleneindoline	118-12-7	521.15	45.920	1,2	24211	C12H16O2	benzyl 3-methylbutanoate	103-38-8	518.15	45.631	1,2
24057	C12H15NO	1-benzoylpiperidine	776-75-0	593.65	52.951	1,2	24212	C12H16O2	alpha-butylbenzeneacetic acid	24716-09-4	516.50	45.472	2
24058	C12H15NO	1-benzyl-4-piperidone	3612-20-2	546.03	48.323	2	24213	C12H16O2	butyl 3-methylbenzoate	6640-77-3	535.45	47.300	1,2
24059	C12H15NO	2-tert-butyl-6-methylphenyl isocyanate	13680-30-3	515.15	45.342	1,2	24214	C12H16O2	3-methylbutyl benzoate	94-46-2	534.15	47.175	1,2
24060	C12H15NO	2-ethyl-6-isopropylphenyl isocyanate	102561-41-1	514.15	45.245	1,2	24215	C12H16O2	pentyl benzoate	2049-96-9	516.50	45.472	2
24061	C12H15NO	4-(cyclohexylcarbonyl)pyridine	32921-23-6	546.03	48.323	2	24217	C12H16O2	isobutyl phenylacetate	102-13-6	520.15	45.824	1,2
24062	C12H15NO	(±)-5-ethyl-5-phenylpyrrolid-2-one	5556-57-0	561.15	49.789	1,2	24218	C12H16O2	isopropyl 3-phenylpropanoate	22767-95-9	516.50	45.472	2
24063	C12H15NO	4-phenyl-4-piperidinecarboxaldehyde	6952-94-9	546.03	48.323	2	24219	C12H16O2	1-(3-methoxyphenyl)-1-pentanone	20359-55-1	516.50	45.472	2
24064	C12H15NO2	1-cyclohexyl-2-nitrobenzene	7137-56-6	435.90	37.761	2	24220	C12H16O2	methyl alpha,alpha-dimethylbenzenepropanoate	14248-22-7	516.50	45.472	2
24065	C12H15NO2	1-cyclohexyl-4-nitrobenzene	5458-48-0	435.90	37.761	2	24221	C12H16O2	2-methyl-5-isopropylphenyl acetate	6380-28-5	519.65	45.775	1,2
24066	C12H15NO2	(4S,5S)-(-)-4,5-dihydro-4-methoxymethyl-2-me*	52075-14-6	353.65	30.021	1,2	24222	C12H16O2	5-methyl-2-isopropylphenyl acetate	528-79-0	518.15	45.631	1,2
24067	C12H15NO2	2',4'-dimethylacetoacetanilide	97-36-9	435.90	37.761	2	24223	C12H16O2	pentamethylbenzoic acid	2243-32-5	516.50	45.472	2
24068	C12H15NO2	1-methyl-6,7-dimethoxy-3,4-dihydroisoquinoli*	4721-98-6	435.90	37.761	2	24224	C12H16O2	2-phenylethyl 2-methylpropanoate	103-48-0	523.15	46.113	1,2
24069	C12H15NO2	4-morpholinoacetophenone	39910-98-0	435.90	37.761	2	24225	C12H16O2	beta-propylbenzenepropanoic acid	5703-52-6	516.50	45.472	2
24070	C12H15NO2	acrylic acid 2-(5'-ethyl-2-pyridyl)ethyl est*	122-93-0	435.90	37.761	2	24226	C12H16O2	methyl 4-tert-butylbenzoate	26537-19-9	516.50	45.472	2
24071	C12H15NO2	o-allyloxy-N,N-dimethylbenzamide	63887-52-5	435.90	37.761	2	24227	C12H16O2	4-pentylbenzoic acid	26311-45-5	533.85	47.146	1,2
24072	C12H15NO2	diglycidylaniline	32144-31-3	435.90	37.761	2	24228	C12H16O2	4-phenylbut-2-yl acetate	10415-88-0	516.50	45.472	2
24073	C12H15NO2	N-N-diglycidylaniline	2095-06-9	435.90	37.761	2	24229	C12H16O2	4'-butoxyacetophenone	5736-89-0	445.15	38.640	1,2
24074	C12H15NO2	5,6,7,8-tetrahydro-1-naphthyl methylcarbamate	1136-84-1	518.15	45.631	1,2	24230	C12H16O2	benzyldimethyl carbinyl acetate	151-05-3	516.50	45.472	2
24111	C12H16	cyclohexylbenzene	827-52-1	513.27	47.151	1,2	24231	C12H16O2	butylbenzeneacetate	122-43-0	516.50	45.472	2
24112	C12H16	1-ethyl-[1,2,3,4-tetrahydronaphthalene]	13556-58-6	512.72	45.108	1,2	24232	C12H16O2	dihydronordicyclopentadienyl acetate	5413-60-5	516.50	45.472	2
24113	C12H16	2-ethyl-[1,2,3,4-tetrahydronaphthalene]	32367-54-7	515.75	45.399	1,2	24233	C12H16O2	dimethyl benzyl carbinyl acetate	151-05-3	516.50	45.472	2
24114	C12H16	5-ethyl-1,2,3,4-tetrahydronaphthalene	42775-75-7	518.15	45.631	1,2	24234	C12H16O2	hydrocinnamyl propionate	122-74-7	517.15	45.534	1,2
24115	C12H16	6-ethyl-1,2,3,4-tetrahydronaphthalene	22531-20-0	517.15	45.534	1,2	24235	C12H16O2	4-isobutylphenylacetic acid	1553-60-2	516.50	45.472	2
24116	C12H16	1,2,3,4-tetrahydro-1,3-dimethylnaphthalene	5195-37-9	507.15	43.901	1,2	24236	C12H16O2	4-isopropylbenzyl acetate	59230-57-8	516.50	45.472	2
24117	C12H16	1,2,3,4-tetrahydro-1,4-dimethylnaphthalene	4175-54-6	499.15	41.358	1,2	24237	C12H16O2	phenylethyl butyrate	103-52-6	516.50	45.472	2
24118	C12H16	1,2,3,4-tetrahydro-1,5-dimethylnaphthalene	21564-91-0	512.15	45.609	1,2	24238	C12H16O3	1,2,4-trimethoxy-5-(1-propenyl)benzene	494-40-6	569.15	50.566	1,2
24119	C12H16	1,2,3,4-tetrahydro-2,2-dimethylnaphthalene	13556-55-3	503.15	42.601	1,2	24239	C12H16O3	butyl 4-methoxybenzoate	6946-35-6	546.50	48.369	2
24120	C12H16	1,2,3,4-tetrahydro-2,3-dimethylnaphthalene	21564-92-1	506.74	43.764	2	24240	C12H16O3	1-(2,4-dihydroxyphenyl)-1-hexanone	3144-54-5	616.15	55.148	1,2
24121	C12H16	1,2,3,4-tetrahydro-2,5-dimethylnaphthalene	25419-37-8	509.15	44.572	1,2	24241	C12H16O3	ethyl 4-phenoxybutanoate	2364-59-2	546.50	48.369	2
24122	C12H16	1,2,3,4-tetrahydro-2,6-dimethylnaphthalene	7524-63-2	513.15	45.962	1,2	24242	C12H16O3	isopentyl salicylate	87-20-7	551.15	48.820	1,2
24123	C12H16	1,2,3,4-tetrahydro-2,7-dimethylnaphthalene	13065-07-1	510.15	44.914	1,2	24243	C12H16O3	2-methoxyphenyl pentanoate	531-39-5	538.15	47.561	1,2
24124	C12H16	1,2,3,4-tetrahydro-2,8-dimethylnaphthalene	25419-36-7	509.15	44.572	1,2	24244	C12H16O3	pentyl 3-(2-furyl)acrylate	2438-19-9	546.50	48.369	2
24125	C12H16	1,2,3,4-tetrahydro-5,6-dimethylnaphthalene	20027-77-4	525.15	46.306	1,2	24245	C12H16O3	pentyl salicylate	2050-08-0	543.15	48.045	1,2
24126	C12H16	1,2,3,4-tetrahydro-5,7-dimethylnaphthalene	21693-54-9	526.15	46.402	1,2	24246	C12H16O3	2-phenoxyethyl butanoate	23511-70-8	524.15	46.209	1,2
24127	C12H16	1,2,3,4-tetrahydro-5,8-dimethylnaphthalene	14108-88-4	527.15	46.499	1,2	24247	C12H16O3	4-n-amyloxybenzoic acid	15872-41-0	546.50	48.369	2
24128	C12H16	1,2,3,4-tetrahydro-6,7-dimethylnaphthalene	1076-61-5	525.15	46.306	1,2	24248	C12H16O3	a-asarone	2883-98-9	569.15	50.566	1,2
24129	C12H16	1,2,3,4-tetrahydro-1,1-dimethylnaphthalene	1985-59-7	494.15	39.876	1,2	24249	C12H16O3	2,2-diethoxyacetophenone	6175-45-7	546.50	48.369	2
24130	C12H16	1,2,3,4-tetrahydro-1,2-dimethylnaphthalene	5195-40-4	508.15	44.235	1,2	24250	C12H16O3	4-(diethoxymethyl)benzaldehyde	81172-89-6	546.50	48.369	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
24251	C12H16O3	2,4-diethoxy-m-tolualdehyde	162976-08-1	546.50	48.369	2	24379	C12H18	1,5,9-cyclododecatriene	4904-61-4	513.15	45.149	1,2
24252	C12H16O3	2,2-dimethyl-3-hydroxy-3-(p-tolyl)propionic *	---	546.50	48.369	2	24380	C12H18	cis,cis,cis-1,5,9-cyclododecatriene	4736-48-5	481.77	42.135	2
24253	C12H16O3	ethyl (R)-(-)-2-hydroxy-4-phenylbutyrate	90315-82-5	485.15	42.459	1,2	24381	C12H18	cis,trans,trans-1,5,9-cyclododecatriene	53859-78-2	481.77	42.135	2
24254	C12H16O3	cis-b-asarone	5273-86-9	546.50	48.369	2	24382	C12H18	3,6-diethyl-2,6-octadien-4-yne	100319-48-0	443.15	38.450	1,2
24255	C12H16O3	p-methoxybenzyl butyrate	14617-95-9	540.15	47.755	1,2	24383	C12H18	3,9-dodecadiyne	61827-89-2	481.77	42.135	2
24256	C12H16O3	oudenone	31323-50-9	528.65	46.644	1,2	24384	C12H18	5,7-dodecadiyne	1120-29-2	481.77	42.135	2
24257	C12H16O3	phenoxyethyl isobutyrate	103-60-6	546.50	48.369	2	24385	C12H18	trans,trans,cis-1,5,9-cyclododecatriene	2765-29-9	507.15	44.572	1,2
24258	C12H16O4	isobutyl 4-hydroxy-3-methoxybenzoate	7152-88-7	486.15	42.555	2	24386	C12H18	trans,trans,trans-1,5,9-cyclododecatriene	676-22-2	510.65	44.908	1,2
24259	C12H16O4	benzo-12-crown-4	14174-08-4	486.15	42.555	2	24387	C12H18	1,2,4-trivinylcyclohexane, isomers	2855-27-8	481.77	42.135	2
24260	C12H16O4	4-(3,4-dimethoxyphenyl)butyric acid	13575-74-1	486.15	42.555	2	24389	C12H18Be4O13	beryllium basic acetate	1332-52-1	603.15	53.878	1,2
24261	C12H16O4	2,2-dimethyl-3-hydroxy-3-(p-methoxyphenyl)pr*	64284-35-1	486.15	42.555	2	24390	C12H18Be4O13	beryllium oxide acetate	19049-40-2	604.15	53.976	1,2
24262	C12H16O4	ethyl 2,5-dimethoxyphenylacetate	66469-86-1	486.15	42.555	2	24412	C12H18N2O2	isophorone diisocyanate	4098-71-9	510.15	44.860	2
24263	C12H16O4	3-(allyloxyphenoxy)-1,2-propanediol	6452-54-6	486.15	42.555	2	24413	C12H18N2O2	N-ethyl-N-(2-methoxyethyl)-3-methyl-4-nitros*	63134-20-3	510.15	44.860	2
24264	C12H16O4	crotylidene dicrotonate	10141-07-8	486.15	42.555	2	24414	C12H18N2O2	2-(2-methoxyethylamino)propionanilide	67262-60-6	510.15	44.860	2
24265	C12H16O4	monobenzalpentaerythritol	2425-41-4	486.15	42.555	2	24429	C12H18N4O2	1-isoamyl theobromine	1024-65-3	573.15	50.955	1,2
24266	C12H16O4	piperonal diethyl acetal	40527-42-2	486.15	42.555	1,2	24431	C12H18N6	2,4,6-tris((1-(2-methylaziridinyl))-1,3,5-tr*	13009-91-1	425.15	36.741	1,2
24276	C12H17Br	1-bromo-4-n-hexylbenzene	23703-22-2	549.00	48.611	2	24432	C12H18N6O3	aminonucleoside puromycin	58-60-6	425.15	36.741	1,2
24279	C12H17BrO2	1-bromo-3-adamantyl hydroxymethyl ketone	73599-91-4	526.15	46.402	1,2	24433	C12H18O	2-tert-butyl-4,5-dimethylphenol	1445-23-4	531.65	46.933	1,2
24280	C12H17Cl	pentamethylbenzyl chloride	484-65-1	510.00	44.846	2	24434	C12H18O	2-tert-butyl-4,6-dimethylphenol	1879-09-0	522.15	45.658	1,2
24281	C12H17ClN2O2	2-(p-chlorophenoxy)-N-(2-(dimethylamino)ethy*	1145-90-0	517.65	45.583	1,2	24435	C12H18O	4-tert-butyl-2,5-dimethylphenol	17696-37-6	537.15	47.465	1,2
24283	C12H17ClN4OS	vitamin B1	59-43-8	398.15	34.191	1,2	24436	C12H18O	4-tert-butyl-2,6-dimethylphenol	879-97-0	521.15	45.319	1,2
24285	C12H17ClO2	1-chloro-3-adamantyl hydroxymethyl ketone	73599-90-3	533.15	47.078	2	24437	C12H18O	alpha-butyl-alpha-methylbenzenemethanol	4396-98-9	524.28	46.221	2
24286	C12H17ClO2	2-(p-chlorophenyl)-4-methylpentane-2,4-diol	15687-18-0	533.15	47.078	1,2	24438	C12H18O	alpha-ethyl-alpha-propylbenzenemethanol	20731-93-5	524.28	46.221	2
24287	C12H17Cl2NO2	N,N-bis(2-chloroethyl)-2,3-dimethoxyaniline	4213-41-6	525.15	46.306	1,2	24439	C12H18O	alpha-methylbenzenepentanol	38487-94-4	524.28	46.221	2
24291	C12H17N	1-benzylpiperidine	2905-56-8	518.15	45.631	1,2	24440	C12H18O	alpha-pentylbenzenemethanol	4471-05-0	524.28	46.221	2
24292	C12H17N	2-benzylpiperidine	32838-55-4	540.65	47.803	1,2	24441	C12H18O	1-phenyl-3-hexanol	2180-43-0	524.28	46.221	2
24293	C12H17N	4-benzylpiperidine	31252-42-3	543.15	48.045	1,2	24442	C12H18O	gamma-propylbenzenepropanol	67700-22-5	524.28	46.221	2
24294	C12H17N	N-cyclohexylaniline	1821-36-9	552.15	48.917	1,2	24443	C12H18O	1-(1,1-dimethylpropyl)-4-methoxybenzene	2050-03-5	511.15	44.956	1,2
24295	C12H17N	4-cyclohexylaniline	6373-50-8	439.15	38.070	1,2	24444	C12H18O	hexyl phenyl ether	1132-66-7	513.15	45.149	1,2
24296	C12H17N	2-methyl-1-phenylpiperidine	14142-16-6	518.65	45.679	2	24445	C12H18O	[(3-methylbutoxy)methyl]benzene	122-73-6	509.15	44.764	1,2
24297	C12H17NO	N-butyl-N-phenylacetamide	91-49-6	554.15	49.111	1,2	24446	C12H18O	4-(1,1-dimethylpropyl)-2-methylphenol	71745-63-6	533.15	47.078	1,2
24298	C12H17NO	N,N-diethyl-3-methylbenzamide	134-62-3	551.15	48.820	2	24447	C12H18O	2,6-dipropylphenol	6626-32-0	529.15	46.692	1,2
24299	C12H17NO	N-phenylhexanamide	621-15-8	551.15	48.820	2	24448	C12H18O	5-methyl-2-pentylphenol	1300-94-3	524.28	46.389	2
24300	C12H17NO	1-benzyl-4-hydroxypiperidine	4727-72-4	551.15	48.820	2	24449	C12H18O	propofol	2078-54-8	529.15	46.692	1,2
24301	C12H17NO	4-benzyl-4-hydroxypiperidine	51135-96-7	551.15	48.820	2	24450	C12H18O	1-adamantyl methyl ketone	1660-04-4	524.28	46.221	2
24302	C12H17NO	(R)-(-)-1-benzyl-3-hydroxypiperidine	91599-81-4	548.15	48.529	1,2	24451	C12H18O	6-n-amyl-m-cresol	53043-14-4	531.15	46.885	1,2
24303	C12H17NO	N-benzyl-l-prolinol	53912-80-4	551.15	48.820	2	24452	C12H18O	2-tert-butyl-4-ethylphenol	96-70-8	523.15	46.000	1,2
24304	C12H17NO	N,N-diethyl-2-phenylacetamide	2431-96-1	551.15	48.820	2	24453	C12H18O	2-(1-cyclohexen-1-yl)cyclohexanone	1502-22-3	524.28	46.221	2
24305	C12H17NO	2-cis-hydroxymethyl-4-trans-phenyl-1-cyclohe*	---	551.15	48.820	2	24454	C12H18O	5,7-dimethyl-3,5,9-decatrien-2-one	111317-19-2	524.28	46.221	2
24306	C12H17NO	(R)-(-)-2-(2-isoindolinyl)butan-1-ol	135711-18-1	551.15	48.820	2	24455	C12H18O	3-methyl-1-phenyl-3-pentanol	10415-87-9	524.28	46.221	2
24307	C12H17NO	N-pivaloyl-o-toluidine	61495-04-3	551.15	48.820	2	24456	C12H18O	6-phenyl-1-hexanol	2430-16-2	524.28	46.221	2
24308	C12H17NO	p-amino caprophenone	38237-76-2	551.15	48.820	2	24457	C12H18O	3,5-bis(1-methylethyl)phenol	26886-05-5	524.28	46.389	2
24309	C12H17NO	N,N-diethyl-o-toluamide	2728-04-3	551.15	48.820	2	24458	C12H18O	2,4-bis(1-methylethyl)phenol	2934-05-6	524.28	46.389	2
24310	C12H17NO	5,5-dimethyl-2-phenylmorpholine	42013-48-9	551.15	48.820	2	24459	C12H18O	2-cyclohexylidenecyclohexanone	1011-12-7	524.28	46.221	2
24311	C12H17NO	4-heptanoylpyridine	32941-30-3	551.15	48.820	2	24460	C12H18O	acetyl carene	62501-24-0	524.28	46.221	2
24325	C12H17NO3	anhalonidine	17627-77-9	434.65	37.642	2	24461	C12H18O	2-hexylphenol	3226-32-2	524.28	46.389	2
24326	C12H17NO3	4-butoxy-N-hydroxybenzeneacetamide	2438-72-4	434.65	37.642	2	24462	C12H18OSi	allyl(4-methoxyphenyl)dimethylsilane	68469-60-3	526.15	46.402	1,2
24327	C12H17NO3	N,N-diethyl-4-hydroxy-3-methoxybenzamide	304-84-7	434.65	37.642	2	24463	C12H18O2	3-acetylcamphor	15068-90-3	482.15	42.172	2
24328	C12H17NO3	calycotomine	4356-47-2	434.65	37.642	2	24464	C12H18O2	1,2-dipropoxybenzene	6280-98-4	508.65	44.716	1,2
24329	C12H17NO3	2,3-epoxy-4-oxo-7,10-dodecadienamide	17397-89-6	393.15	33.720	1,2	24465	C12H18O2	1,3-dipropoxybenzene	56106-37-7	526.15	46.402	1,2
24330	C12H17NO3	p-nitrophenyl hexyl ether	15440-98-9	476.15	41.597	1,2	24466	C12H18O2	ethyl 7,7-dimethyltricyclo[2.2.1.02,6]heptan*	56694-98-5	482.15	42.172	2
24331	C12H17NO3	2-allyl-3-methyl-4-hydroxy-2-cyclopenten-1-o*	63937-27-9	434.65	37.642	2	24467	C12H18O2	4-hexyl-1,3-benzenediol	136-77-6	607.15	54.269	1,2
24332	C12H17NO3	3-hydroxy-p-butyrophenetidide	1083-57-4	434.65	37.642	2	24468	C12H18O2	1-adamantaneacetic acid	4942-47-6	482.15	42.172	2
24350	C12H17N3O6	glucose isonicotinoylhydrazone	4241-73-0	588.15	52.415	2	24469	C12H18O2	5-benzyloxy-1-pentanol	4541-15-5	482.15	42.172	2
24355	C12H17O4PS2	phenthoate	2597-03-7	348.15	29.509	1,2	24470	C12H18O2	(-)-carvyl acetate	97-42-7	351.15	29.788	1,2
24357	C12H18	hexylbenzene	1077-16-3	499.26	44.945	1,2	24471	C12H18O2	3,5-diisopropylcatechol	2138-49-0	482.15	42.172	2
24358	C12H18	1,4-dipropylbenzene	4815-57-0	481.77	39.366	2	24472	C12H18O2	4-hexyloxyphenol	18979-55-0	482.15	42.172	2
24359	C12H18	diisopropylbenzene	25321-09-9	473.60	36.891	1,2	24473	C12H18O2	a,a,a',a'-tetramethyl-1,4-benzenedimethanol	2948-46-1	482.15	42.172	2
24360	C12H18	1,2-diisopropylbenzene	577-55-9	477.15	37.938	1,2	24474	C12H18O2	(2-(1-ethoxyethoxy)ethyl)benzene	2556-10-7	482.15	42.172	2
24361	C12H18	m-diisopropylbenzene	99-62-7	476.33	41.618	1,2	24475	C12H18O2	isobergamate	68683-20-5	482.15	42.172	2
24362	C12H18	p-diisopropylbenzene	100-18-5	483.65	42.924	1,2	24476	C12H18O2	myrtenyl acetate	1079-01-2	446.15	38.735	1,2
24363	C12H18	triethylbenzene; (mixed isomers)	25340-18-5	490.70	42.991	1,2	24477	C12H18O2	octahydro-5-methoxy-4,7-methano-1H-indene-2-*	86803-90-9	453.65	39.449	1,2
24364	C12H18	1,2,3-triethylbenzene	42205-08-3	490.66	44.744	1,2	24477.1	C12H18O2	m-diisopropylbenzene hydroperoxide	26762-93-6	620.00	69.653	1,2
24365	C12H18	1,2,4-triethylbenzene	877-44-1	490.66	44.744	1,2	24477.2	C12H18O2	p-diisopropylbenzene hydroperoxide	98-49-7	616.00	68.160	1,2
24366	C12H18	1,3,5-triethylbenzene	102-25-0	489.16	44.606	1,2	24478	C12H18O2Sn	diethyl phenyltin acetate	64036-46-0	447.15	38.830	1,2
24367	C12H18	1-tert-butyl-3,5-dimethylbenzene	98-19-1	480.15	38.857	1,2	24482	C12H18O4	diethyl 1-cyclohexene-1,2-dicarboxylate	92687-41-7	469.65	40.976	2
24368	C12H18	(1,1-dimethylbutyl)benzene	1985-57-5	478.65	38.394	1,2	24483	C12H18O4	diethyl 1-cyclohexene-1,3-dicarboxylate	38511-07-8	469.65	40.976	2
24369	C12H18	2,4-dimethyl-1-sec-butylbenzene	1483-60-9	481.77	39.366	2	24484	C12H18O4	diethyl (2-cyclopenten-1-yl)malonate	53608-93-8	469.65	40.976	2
24370	C12H18	(1-ethylbutyl)benzene	4468-42-2	482.15	39.489	1,2	24485	C12H18O4	diethyl cyclopentylidenemalonate	41589-42-8	469.65	40.976	2
24371	C12H18	(1-ethyl-1-methylpropyl)benzene	1985-97-3	478.15	38.241	1,2	24487	C12H18O4	butopyronoxyl	532-34-3	536.15	47.368	1,2
24372	C12H18	(1-methylpentyl)benzene	6031-02-3	481.15	39.171	1,2	24488	C12H18O4	di-tert-butyl acetylenedicarboxylate	66086-33-7	469.65	40.976	2
24373	C12H18	(3-methylpentyl)benzene	54410-69-4	493.15	43.226	1,2	24489	C12H18O4	3,4-dibutoxy-3-cyclobutene-1,2-dione	2892-62-8	469.65	40.976	2
24374	C12H18	(4-methylpentyl)benzene	4215-86-5	490.15	42.939	1,2	24490	C12H18O4	1,6-hexanediol diacrylate	13048-33-4	403.15	34.662	1,2
24375	C12H18	1,2,4-trimethyl-5-isopropylbenzene	10222-95-4	494.15	43.322	1,2	24491	C12H18O4	adipic acid diallyl ester	2998-04-1	469.65	40.976	2
24376	C12H18	4-tert-butyl-o-xylene	7397-06-0	478.15	38.241	1,2	24492	C12H18O4	1,3-butylene dimethacrylate	63869-10-3	469.65	40.976	2
24377	C12H18	hexamethyldewarbenzene	7641-77-2	440.00	37.650	2	24497	C12H18O6	triethyl trans-1-propene-1,2,3-tricarboxylate	68077-28-1	548.15	48.529	2
24378	C12H18	hexamethylbenzene	87-85-4	536.60	45.999	1,2	24498	C12H18O6	1,2:5,6-di-O-isopropylidene-a-D-ribo-3-hexul*	2847-00-9	548.15	48.529	2
24378.1	C12H18	p-tert-butyl ethylbenzene	7364-19-4	485.25	42.906	1,2	24499	C12H18O6	triethylene glycol diacrylate	1680-21-3	548.15	48.529	2
24378.2	C12H18	1,5,9-cyclododecatriene	706-31-0	514.65	44.084	1,2	24500	C12H18O7	diallyl diglycol carbonate	142-22-3	435.15	37.690	1,2
24378.3	C12H18	1,2,3-triethylebenzene	42205-08-3	490.70	44.682	1,2	24505	C12H19N	2,6-diisopropylaniline	24544-04-5	530.15	46.788	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
24506	C12H19N	N,N-dipropylaniline	2217-07-4	515.15	45.342	1,2	24655	C12H22	3-dodecyne	6790-27-8	492.55	43.169	1,2
24507	C12H19N	4-tert-butyl-N,N-dimethylaniline	2909-79-7	524.65	46.258	1,2	24656	C12H22	6-dodecyne	6975-99-1	483.15	42.268	1,2
24508	C12H19N	N,N-diisopropylaniline	4107-98-6	531.28	46.897	2	24657	C12H22	3,3-dimethyl-4-decyne	70732-45-5	500.93	43.973	2
24509	C12H19N	4-hexylaniline	33228-45-4	555.15	49.207	1,2	24658	C12H22	4a-ethyl-cis-decahydronaphthalene	66553-61-5	506.15	44.475	1,2
24510	C12H19N	n-butyl-a-methylbenzylamine	5412-64-6	531.28	46.897	2	24659	C12H22	4a-ethyl-trans-decahydronaphthalene	66553-62-6	498.15	43.706	1,2
24511	C12H19NO	3-ethoxy-N,N-diethylaniline	1864-92-2	559.15	49.595	1,2	24660	C12H22	1-ethyl,cis-decahydronaphthalene	---	533.15	47.078	1,2
24512	C12H19NO	4-(hexyloxy)aniline	39905-57-2	559.15	49.595	2	24661	C12H22	1-ethyl-trans-decahydronaphthalene	---	528.15	46.595	1,2
24513	C12H19NO	N-(1-adamantyl)acetamide	880-52-4	559.15	49.595	2	24662	C12H22	2-ethyl-cis-decahydronaphthalene	---	508.15	44.668	1,2
24515	C12H19NO3	DL-3-(1-acetoxy-1-methylethyl)-6-oxoheptanen*	131447-69-7	483.15	42.268	2	24663	C12H22	2-ethyl-trans-decahydronaphthalene	---	501.15	43.995	1,2
24516	C12H19NO3	a-methylmescaline	1082-88-8	483.15	42.268	2	24664	C12H22	1,4a-dimethyl-cis-decahydronaphthalene	---	493.15	43.226	1,2
24517	C12H19NO3	terbutaline	23031-25-6	483.15	42.268	1,2	24665	C12H22	1,4a-dimethyl-trans-decahydronaphthalene	---	486.15	42.555	1,2
24525	C12H19O2	diisopropylphenylhydroperoxide (solution)	---	492.65	43.178	1,2	24666	C12H22	1-heptylcyclopentene	4292-00-6	492.15	43.130	1,2
24526	C12H19O2	fenchyl acetate	13851-11-1	492.65	43.178	2	24667	C12H22	cis-cyclododecene	1129-89-1	500.93	43.973	2
24531	C12H20	1-dodecen-3-yne	74744-36-8	471.05	41.110	2	24668	C12H22	trans-cyclododecene	1486-75-5	500.93	43.973	2
24532	C12H20	1,3-dimethyladamantane	702-79-4	471.05	41.110	1,2	24669	C12H22	1,11-dodecadiene	5876-87-9	481.65	42.124	1,2
24550	C12H20N2O3	diberal	2964-06-9	503.15	44.187	1,2	24670	C12H22	cyclododecene; (cis+trans)	1501-82-2	511.60	45.000	1,2
24551	C12H20N2O3	5,5-dibutylbarbituric acid	17013-41-1	503.15	44.187	2	24671	C12H22	spiro[5.6]dodecane	181-15-7	500.93	43.973	2
24559	C12H20O	[1,1'-bicyclohexyl]-2-one	90-42-6	537.15	47.465	1,2	24676	C12H22ClHgNO	trans-chloro(2-hexanamidocyclohexyl)mercury	73926-88-2	362.15	30.814	1,2
24560	C12H20O	2,5-di-tert-butylfuran	4789-40-6	483.15	42.268	1,2	24680	C12H22FO3P	dicyclohexyl fluorophosphonate	587-15-5	488.15	42.747	1,2
24561	C12H20O	1-adamantaneethanol	6240-11-5	510.15	44.860	2	24684	C12H22N2O	1-methyl-3-(piperidinocarbonyl)piperidine	40576-23-6	559.65	49.644	2
24563	C12H20O2	borneol acetate, (±)	36386-52-4	496.65	43.562	1,2	24685	C12H22N2O	N-nitrosodicyclohexylamine	947-92-2	559.65	49.644	1,2
24564	C12H20O2	l-bornyl acetate	5655-61-8	496.65	43.562	1,2	24687	C12H22N2O4	N-(tert-butoxycarbonyl)-L-proline n'-methoxy*	115186-37-3	526.15	46.402	1,2
24565	C12H20O2	isoborneol acetate, (±)	17283-45-3	505.75	44.437	2	24690	C12H22O	cyclododecanone	830-13-7	467.90	40.809	2
24566	C12H20O2	alpha-terpineol acetate	80-26-2	505.75	44.437	2	24691	C12H22O	dicyclohexyl ether	4645-15-2	515.65	45.390	1,2
24567	C12H20O2	3,7-dimethyl-1,6-octadien-3-ol acetate, (R)	16509-46-9	493.15	43.226	1,2	24692	C12H22O	codlelure	33956-49-9	467.90	40.809	2
24568	C12H20O2	cis-3,7-dimethyl-2,6-octadien-1-ol acetate	141-12-8	505.75	44.437	2	24693	C12H22O	cyclododecene oxide; (cis+trans)	286-99-7	420.15	36.268	1,2
24569	C12H20O2	2-furyl octyl ether	100314-90-7	505.75	44.437	2	24694	C12H22O	trans-2-dodecenal	4826-62-4	467.90	40.809	2
24570	C12H20O2	5-methyl-2-(1-methylvinyl)cyclohexanol aceta*	57576-09-7	505.75	44.437	2	24695	C12H22O	geranyl ethyl ether	40267-72-9	467.90	40.809	2
24571	C12H20O2	methyl 10-undecynoate	2777-66-4	505.75	44.437	2	24696	C12H22O	a-heptyl cyclopentanone	137-03-1	467.90	40.809	2
24572	C12H20O2	methyl 9-undecynoate	18937-76-3	505.75	44.437	2	24699	C12H22O2	cyclohexanehexanoic acid	4354-56-7	508.57	44.708	2
24573	C12H20O2	4,7,7-trimethylbicyclo[2.2.1]heptan-2-ol ace*	22621-74-5	505.75	44.437	2	24700	C12H22O2	2-dodecenoic acid	4412-16-2	560.00	49.678	2
24574	C12H20O2	1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol ace*	76-49-3	494.15	43.322	1,2	24701	C12H22O2	4-dodecenoic acid	505-92-0	560.00	49.678	2
24575	C12H20O2	allyl cyclohexanepropionate	2705-87-5	505.75	44.437	2	24702	C12H22O2	5-dodecenoic acid	2761-84-4	560.00	49.678	2
24576	C12H20O2	1,4-cyclohexanedimethanol divinyl ether	17351-75-6	526.15	46.402	1,2	24703	C12H22O2	11-dodecenoic acid	65423-25-8	560.00	49.678	2
24577	C12H20O2	(-)-dihydrocarvyl acetate	20777-49-5	506.15	44.475	1,2	24704	C12H22O2	2-ethylhexyl methacrylate	688-84-6	508.57	44.708	2
24578	C12H20O2	ethyl chrysanthemate	97-41-6	505.75	44.437	2	24705	C12H22O2	ethyl 2-isopropyl-5-methylcyclopentanecarbox*	116530-99-5	508.57	44.708	2
24579	C12H20O2	ethyl (e,z)-2,4-decadienoate	3025-30-7	533.15	47.078	1,2	24706	C12H22O2	3-isopropyl-1-methylcyclopentanecarboxylic a*	104068-42-0	530.15	46.788	1,2
24580	C12H20O2	geranyl acetate	105-87-3	513.15	45.149	1,2	24707	C12H22O2	5-methyl-2-isopropylcyclohexanol acetate, [1*	2623-23-6	495.15	43.418	1,2
24581	C12H20O2	isobornyl acetate	125-12-2	493.15	43.226	1,2	24708	C12H22O2	methyl 10-undecenoate	111-81-9	521.15	45.920	1,2
24582	C12H20O2	isopulegyl acetate, isomers	89-49-6	505.15	44.379	1,2	24709	C12H22O2	2,2,7,7-tetramethyl-3,6-octanedione	27610-88-4	508.57	44.708	2
24583	C12H20O2	linalyl acetate	115-95-7	505.75	44.437	2	24710	C12H22O2	4-tert-butylcyclohexyl acetate	32210-23-4	508.57	44.708	2
24584	C12H20O2	acetic acid myrcenyl ester	1118-39-4	505.75	44.437	2	24711	C12H22O2	citral dimethyl acetal	7549-37-3	508.57	44.708	2
24585	C12H20O2	citral ethylene glycol acetal	66408-78-4	505.75	44.437	2	24712	C12H22O2	citronellyl acetate	150-84-5	502.15	44.091	1,2
24586	C12H20O2	decahydro-b-naphthyl acetate	10519-11-6	505.75	44.437	2	24713	C12H22O2	(±)-5-dodecanolide	713-95-1	508.57	44.708	2
24587	C12H20O2	geranyl oxyacetaldehyde	65405-73-4	505.75	44.437	2	24714	C12H22O2	cis-5-dodecenoic acid	2430-94-6	560.00	49.678	2
24588	C12H20O2	lavandulyl acetate	20777-39-3	505.75	44.437	2	24715	C12H22O2	(1S)-(+)-menthyl acetate	5157-89-1	501.65	44.043	1,2
24589	C12H20O2Sn	stannacyclopent-3-ene-2,5-dione	15465-08-4	509.15	44.764	1,2	24716	C12H22O2	menthyl acetate	89-48-5	501.15	43.995	1,2
24590	C12H20O3	6-carbethoxy-2,2,6-trimethylcyclohexanone	7507-68-8	518.65	45.679	2	24717	C12H22O2	(1R)-(-)-neomenthyl acetate	146502-80-9	508.57	44.708	2
24591	C12H20O3	1-hydroxycyclopentyl cyclohexane carboxylic *	16508-97-7	518.65	45.679	2	24718	C12H22O2	(1S)-(+)-neomenthyl acetate	2552-91-2	508.57	44.708	2
24592	C12H20O3	4-hydroxy-5-octyl-2(5H)furanone	78128-84-4	518.65	45.679	1,2	24719	C12H22O2	2-octynal diethyl acetal	16387-55-6	508.57	44.708	2
24593	C12H20O3Si	triethoxyphenylsilane	780-69-8	505.15	44.379	1,2	24720	C12H22O2	oxacyclotridecan-2-one	947-05-7	508.57	44.708	2
24594	C12H20O4	dibutyl maleate	105-76-0	553.15	58.149	1,2	24721	C12H22O2	trans-4-n-pentylcyclohexanecarboxylic acid	38289-29-1	508.57	44.708	2
24595	C12H20O4	dibutyl fumarate	105-75-9	558.15	49.498	1,2	24722	C12H22O2	vinyl decanoate	4704-31-8	508.57	44.708	2
24596	C12H20O4	diethyl trans-1,2-cyclohexanedicarboxylate, *	96836-97-4	543.32	48.061	2	24723	C12H22O2	acetic acid 2-isopropyl-5-methyl-2-hexen-1-y*	40853-56-3	560.00	49.678	2
24597	C12H20O4	diethyl cis-1,3-cyclohexanedicarboxylate	62059-56-7	561.15	49.789	1,2	24724	C12H22O2	allyl 3,5,5-trimethylhexanoate	71500-21-5	508.57	44.708	2
24598	C12H20O4	diethyl cis-1,4-cyclohexanedicarboxylate	116724-15-3	543.32	48.061	2	24725	C12H22O2	2-tert-butylcyclohexyl acetate	88-41-5	508.57	44.708	2
24599	C12H20O4	diethyl trans-1,4-cyclohexanedicarboxylate	19145-96-1	543.32	48.061	2	24726	C12H22O2	citronelloxyacetaldehyde	7492-67-3	508.57	44.708	2
24600	C12H20O4	diisobutyl fumarate	7283-69-4	543.32	48.061	2	24727	C12H22O2	9-decenyl acetate	50816-18-7	508.57	44.708	2
24601	C12H20O4	dimethyl camphorate, (+)	15797-21-4	537.15	47.465	1,2	24728	C12H22O2	dihydromyrcenyl acetate	88969-41-9	508.57	44.708	2
24602	C12H20O4	trans-2-dodecenedioic acid	6402-36-4	543.32	48.061	2	24729	C12H22O2	dihydroterpinyl acetate	80-25-1	508.57	44.708	2
24603	C12H20O4	di-sec-butyl fumarate	2210-32-4	535.15	47.271	1,2	24730	C12H22O2	D-dodecalactone	---	508.57	44.708	2
24604	C12H20O4	(R)-2-(cyclohexylmethyl)succinic acid-1-meth*	130165-88-7	543.32	48.061	2	24731	C12H22O2	cis-3-hexenyl caproate	31501-11-8	508.57	44.708	2
24605	C12H20O4	(S)-2-(cyclohexylmethyl)succinic acid-1-meth*	220497-69-8	543.32	48.061	2	24732	C12H22O2	g-n-octyl-g-n-butyrolactone	2305-05-7	508.57	44.708	2
24606	C12H20O4	3,6-di(spirocyclohexane)tetraoxane	---	543.32	48.061	2	24733	C12H22O2	rhodinyl acetate	141-11-7	508.57	44.708	2
24607	C12H20O4	hexahydrophthalic acid diethyl ester	10138-59-7	543.32	48.061	2	24734	C12H22O2	9-undecenoic acid, methyl ester	5760-50-9	508.57	44.708	2
24608	C12H20O4	humidin	101670-43-3	515.15	45.342	1,2	24735	C12H22O2Si2	1,3-bis(trimethylsiloxy)benzene	4520-29-0	513.15	45.149	1,2
24609	C12H20O4Si	triethyl phenyl silicate	18023-36-4	509.15	44.764	1,2	24736	C12H22O3	hexanoic anhydride	2051-49-2	528.15	46.595	2
24617	C12H20O7	triethyl citrate	77-93-0	567.15	50.372	1,2	24737	C12H22O3	[(5-methyl-2-isopropylcyclohexyl)oxy]acetic *	40248-63-3	550.15	48.723	2
24619	C12H20S	3-octylthiophene	65016-62-8	536.15	47.368	2	24738	C12H22O3	(+)-menthyloxyacetic acid	94133-41-2	550.15	48.723	2
24620	C12H20Si	triethylphenylsilane	2987-77-1	509.15	44.764	1,2	24739	C12H22O3	trimethylolpropane diallyl ether	682-09-7	558.15	49.498	1,2
24621	C12H20Si	tetraallylsilane	1112-66-9	509.15	44.764	2	24740	C12H22O3	butyl-2-butoxycyclopropane-1-carboxylate	63937-32-6	550.15	48.723	2
24625	C12H21ClO2	t-butyl-chloro-2-methyl-cyclohexanecarboxyla*	12002-53-8	383.15	32.780	1,2	24741	C12H22O3	ethyl-2-hexyl acetoacetate	29214-60-6	550.15	48.723	2
24626	C12H21ClO3	n-octyl 4-chloroacetoacetate	41051-21-2	389.65	33.391	1,2	24742	C12H22O3	5-methyl-3-butyltetrahydropyran-4-yl acetate	38285-49-3	564.15	50.081	1,2
24627	C12H21F9O3Si3	1,3,5-tris[(3,3,3-trifluoropropyl)methyl]cyc*	2374-14-3	368.15	31.375	1,2	24743	C12H22O4	di-sec-butyl succinate	626-31-3	529.15	46.692	1,2
24629	C12H21N	tris(2-methylallyl)amine	6321-40-0	357.15	30.347	1,2	24744	C12H22O4	di-tert-butyl succinate	926-26-1	532.42	47.007	2
24647	C12H21NO6	diethyl (boc-amino)malonate	102831-44-7	491.15	43.034	1,2	24745	C12H22O4	dibutyl succinate	141-03-7	547.65	48.481	1,2
24648	C12H21NS	2-(1-sec-butyl-2-(dimethylamino)ethyl)thioph*	34548-72-6	356.15	30.254	1,2	24746	C12H22O4	diethyl sec-butylsuccinate	69248-35-7	532.42	47.007	2
24652	C12H22	bicyclohexyl	92-51-3	512.19	44.516	1,2	24747	C12H22O4	diethyl ethylisopropylmalonate	2049-66-3	507.15	44.572	1,2
24653	C12H22	1-dodecyne	765-03-7	488.16	44.384	1,2	24748	C12H22O4	diethyl isopentylmalonate	5398-08-3	514.15	45.245	1,2
24654	C12H22	2-dodecyne	629-49-2	499.15	43.802	1,2	24749	C12H22O4	diethyl octanedioate	2050-23-9	555.75	49.266	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
24750	C12H22O4	diethyl pentylmalonate	6065-59-4	532.42	47.007	2	24868	C12H24O2	undecyl formate	5454-24-0	531.48	46.917	2
24751	C12H22O4	diisopentyl oxalate	2051-00-5	540.65	47.803	1,2	24869	C12H24O2	decyl acetate	112-17-4	517.15	45.534	1,2
24752	C12H22O4	diisopropyl adipate	6938-94-9	532.42	47.007	2	24870	C12H24O2	nonyl propanoate	53184-67-1	532.18	46.984	2
24753	C12H22O4	dimethyl sebacate	106-79-6	532.42	47.007	2	24871	C12H24O2	octyl butanoate	110-39-4	517.15	45.534	1,2
24754	C12H22O4	dipropyl adipate	106-19-4	532.42	47.007	2	24872	C12H24O2	heptyl pentanoate	5451-80-9	518.35	45.650	1,2
24755	C12H22O4	dodecanedioic acid	693-23-2	532.42	47.007	2	24873	C12H24O2	hexyl hexanoate	6378-65-0	519.15	45.727	1,2
24756	C12H22O4	cyclohexano-12-crown-4	17454-42-1	532.42	47.007	2	24874	C12H24O2	pentyl heptanoate	7493-82-5	518.55	45.669	1,2
24757	C12H22O4	1,1,4,4-tetraethoxy-2-butyne	3975-08-4	532.42	47.007	2	24875	C12H24O2	butyl octanoate	589-75-3	513.65	45.197	1,2
24758	C12H22O4	dihexanoyl peroxide	2400-59-1	532.42	47.007	2	24876	C12H24O2	ethyl decanoate	110-38-3	514.65	45.293	1,2
24759	C12H22O4Zn	zinc gluconate	4468-02-4	592.15	52.805	1,2	24877	C12H24O2	ethyl 3-methylnonanoate	86051-37-8	523.39	46.136	2
24760	C12H22O5	di-tert-amyl dicarbonate	68835-89-2	572.15	50.858	2	24878	C12H24O2	methyl undecanoate	1731-86-8	523.39	46.136	2
24761	C12H22O5	tetra(ethylene glycol) divinyl ether	83416-06-2	572.15	50.858	2	24879	C12H24O2	2-butyloctanoic acid	27610-92-0	503.15	36.507	1,2
24762	C12H22O5	cyclohexanone peroxide	78-18-2	572.15	50.858	2	24880	C12H24O2	3,7-dimethyloctanyl acetate	20780-49-8	505.00	44.365	2
24763	C12H22O5	DL-dibutyl malate	6280-99-5	572.15	50.858	1,2	24881	C12H24O3	methyl 11-hydroxyundecanoate	24724-07-0	517.15	45.534	2
24765	C12H22O6	dibutyl tartrate	87-92-3	593.15	52.902	1,2	24882	C12H24O3	2,2,4-trimethyl-1,3-pentanediol monoisobutyr*	25265-77-4	517.15	45.534	1,2
24766	C12H22O6	bis(2-methoxyethyl) adipate	106-00-3	593.15	52.902	2	24883	C12H24O3	12-hydroxydodecanoic acid	505-95-3	517.15	45.534	2
24767	C12H22O6	(-)-dibutyl-D-tartrate	62563-15-9	593.15	52.902	2	24884	C12H24O3	tert-butyl peroxyoctoate	13467-82-8	517.15	45.534	2
24768	C12H22O6	triethylene glycol diglycidyl ether	1954-28-5	593.15	52.902	2	24885	C12H24O3	2,4,6-tripropyl-S-trioxane	2396-43-2	517.15	45.534	2
24769	C12H22O6	bis(1-hydroperoxy cyclohexyl)peroxide	---	593.15	52.902	2	24885.1	C12H24O3	2,2,4-trimethyl-1,3-pentanediol monoisobutyr*	77-68-9	524.15	53.025	1,2
24770	C12H22O6P2S	2,5-bis(diethoxyphosphoryl)thiophene	100651-98-7	445.15	38.640	1,2	24887	C12H24O4Si4	2,4,6,8-tetravinyl-2,4,6,8-tetramethylcyclot*	2554-06-5	497.15	43.610	1,2
24782.1	C12H22S	dicyclohexyl sulfide	7133-46-2	559.00	49.390	1,2	24888	C12H24O4Sn	dibutyltin diacetate	1067-33-0	416.65	35.937	1,2
24785	C12H22Si2	1,4-bis(trimethylsilyl)benzene	13183-70-5	467.15	40.737	1,2	24892	C12H24S	thiacyclotridecane	295-05-6	555.15	49.207	1,2
24786	C12H22Si2	1,2-bis(trimethylsilyl)benzene	17151-09-6	467.15	40.737	2	24894	C12H25Br	1-bromododecane	143-15-7	549.05	48.616	1,2
24787	C12H23Br	cis-1-bromo-1-dodecene	66553-39-7	534.15	47.175	1,2	24895	C12H25Br	2-bromododecane	13187-99-0	549.05	48.616	2
24788	C12H23Br	trans-1-bromo-1-dodecene	66553-40-0	534.15	47.175	1,2	24897	C12H25Cl	1-chlorododecane	112-52-7	536.33	47.386	1,2
24791	C12H23Br3	1,1,1-tribromododecane	62127-69-9	613.15	54.855	1,2	24899	C12H25F	1-fluorododecane	334-68-9	498.15	43.706	1,2
24792	C12H23Cl	cis-1-chloro-1-dodecene	66553-41-1	536.15	47.368	1,2	24900	C12H25I	1-iodododecane	4292-19-7	571.35	50.780	1,2
24793	C12H23Cl	trans-1-chloro-1-dodecene	66553-42-2	536.15	47.368	1,2	24901	C12H25N	cyclododecylamine	1502-03-0	396.15	34.003	1,2
24795	C12H23Cl3	1,1,1-trichlorododecane	62108-57-0	570.15	50.663	1,2	24902	C12H25NO	dodecanamide	1120-16-7	383.15	32.780	2
24796	C12H23F	cis-1-fluoro-1-dodecene	66553-43-3	477.39	41.716	2	24903	C12H25NO	N,N-dimethyldecanamide	14433-76-2	383.15	32.780	1,2
24797	C12H23F	trans-1-fluoro-1-dodecene	66553-44-4	477.39	41.716	2	24904	C12H25NO	N-pentylheptanamide	64891-12-9	383.15	32.780	2
24799	C12H23F3	1,1,1-trifluorododecane	764-84-1	481.15	42.076	1,2	24905	C12H25NO2	1-nitrododecane	16891-99-9	570.15	50.663	1,2
24800	C12H23I	cis-1-iodo-1-dodecene	66553-45-5	558.15	49.498	1,2	24914	C12H26	dodecane	112-40-3	489.47	44.343	1,2
24801	C12H23I	trans-1-iodo-1-dodecene	66553-46-6	558.15	49.498	1,2	24915	C12H26	3-methylundecane	1002-43-3	483.15	42.268	1,2
24802	C12H23I3	1,1,1-triiododododecane	---	750.15	68.369	2	24916	C12H26	4-methylundecane	2980-69-0	482.15	42.172	1,2
24804	C12H23N	dicyclohexylamine	101-83-7	529.00	47.391	1,2	24917	C12H26	5-methylundecane	1632-70-8	479.15	41.884	1,2
24805	C12H23N	dodecanenitrile	2437-25-4	550.15	48.723	1,2	24918	C12H26	6-methylundecane	17302-33-9	479.15	41.884	1,2
24812	C12H23NO4	N-(tert-butoxycarbonyl)-L-leucine methyl est*	63096-02-6	478.15	41.789	1,2	24919	C12H26	3-ethyldecane	17085-96-0	481.85	42.143	1,2
24816	C12H23O4P	diethyl 3,3-dimethylcyclohex-1-enylphosphona*	109467-69-8	371.15	31.656	1,2	24920	C12H26	4-ethyldecane	1636-44-8	477.15	41.693	1,2
24817	C12H23P	dicyclohexylphosphine	829-84-5	554.15	49.111	1,2	24921	C12H26	5-ethyldecane	17302-36-2	475.15	41.502	1,2
24818	C12H24	heptylcyclopentane	5617-42-5	497.30	43.346	1,2	24922	C12H26	2,2-dimethyldecane	17302-37-3	474.15	41.406	1,2
24819	C12H24	hexylcyclohexane	4292-75-5	497.86	42.844	1,2	24923	C12H26	2,3-dimethyldecane	17312-44-6	479.15	41.884	1,2
24820	C12H24	1-methyl-2-pentylcyclohexane	54411-01-7	490.65	42.986	1,2	24924	C12H26	2,4-dimethyldecane	2801-84-5	473.15	41.310	1,2
24821	C12H24	cyclododecane	294-62-2	512.15	45.053	1,2	24925	C12H26	2,5-dimethyldecane	17312-50-4	471.15	41.119	1,2
24822	C12H24	butylcyclooctane	16538-93-5	488.99	42.827	2	24926	C12H26	2,6-dimethyldecane	13150-81-7	471.15	41.119	1,2
24823	C12H24	1-dodecene	112-41-4	486.50	43.704	1,2	24927	C12H26	2,7-dimethyldecane	17312-51-5	475.15	41.502	1,2
24823.1	C12H24	cis-2-dodecene	7206-26-0	491.00	44.868	1,2	24928	C12H26	2,8-dimethyldecane	17312-52-6	477.15	41.693	1,2
24823.2	C12H24	trans-2-dodecene	7206-13-5	491.00	44.868	1,2	24929	C12H26	2,9-dimethyldecane	1002-17-1	477.15	41.693	1,2
24824	C12H24	2-methyl-1-undecene	18516-37-5	484.75	42.421	1,2	24930	C12H26	3,3-dimethyldecane	17302-38-4	476.15	41.597	1,2
24825	C12H24	4,4-dimethyl-2-neopentyl-1-pentene	141-70-8	488.99	42.827	2	24931	C12H26	3,4-dimethyldecane	17312-45-7	478.15	41.789	1,2
24826	C12H24	2,2,4,6,6-pentamethyl-3-heptene	123-48-8	453.70	33.032	1,2	24932	C12H26	3,5-dimethyldecane	17312-48-0	473.15	41.310	1,2
24827	C12H24	trans-2,2,4,6,6-pentamethyl-3-heptene	27656-50-4	453.70	33.032	2	24933	C12H26	3,6-dimethyldecane	17312-53-7	474.15	41.406	1,2
24828	C12H24	isobutene, trimer	7756-94-7	453.15	32.877	1,2	24934	C12H26	3,7-dimethyldecane	17312-54-8	475.15	41.502	1,2
24831	C12H24Br2	1,1-dibromododecane	62168-29-0	583.15	51.928	1,2	24935	C12H26	3,8-dimethyldecane	17312-55-9	478.15	41.789	1,2
24832	C12H24Br2	1,12-dibromododecane	3344-70-5	583.15	51.928	2	24936	C12H26	4,4-dimethyldecane	17312-39-9	472.15	41.215	1,2
24833	C12H24Cl2	1,1-dichlorododecane	62017-17-8	556.15	49.304	1,2	24937	C12H26	4,5-dimethyldecane	17312-46-8	475.15	41.502	1,2
24834	C12H24Cl2	1,12-dichlorododecane	3922-28-9	572.15	50.858	1,2	24938	C12H26	4,6-dimethyldecane	17312-49-1	471.15	41.119	1,2
24838	C12H24F2	1,1-difluorododecane	62127-45-1	492.15	43.130	1,2	24939	C12H26	4,7-dimethyldecane	17312-56-0	472.15	41.215	1,2
24839	C12H24I2	1,1-diiododododecane	66553-33-1	659.80	59.431	2	24940	C12H26	5,5-dimethyldecane	17453-92-8	470.15	41.024	1,2
24841	C12H24N2	1,2-dipiperidinoethane	1932-04-3	538.15	47.561	1,2	24941	C12H26	5,6-dimethyldecane	1636-43-7	474.15	41.406	1,2
24842	C12H24N2	1,4-bis(diethylamino)-2-butyne	105-18-0	538.15	47.561	2	24942	C12H26	4-propylnonane	6165-37-3	472.15	41.215	1,2
24846	C12H24N2O4	N-(tert-butoxycarbonyl)-L-valine n'-methoxy-*	87694-52-8	521.15	45.920	1,2	24943	C12H26	5-propylnonane	998-35-6	470.15	41.024	1,2
24847	C12H24N2O4	isopropyl meprobamate	78-44-4	521.15	45.920	2	24944	C12H26	4-isopropylnonane	62184-71-8	471.15	41.119	1,2
24852	C12H24O	dodecanal	112-54-9	523.15	50.347	1,2	24945	C12H26	5-isopropylnonane	62184-72-9	471.15	41.119	1,2
24853	C12H24O	2-methylundecanal	110-41-8	519.25	45.737	2	24946	C12H26	2-methyl-3-ethylnonane	62184-73-0	474.15	41.406	1,2
24854	C12H24O	2-dodecanone	6175-49-1	519.85	45.795	1,2	24947	C12H26	2-methyl-4-ethylnonane	62184-37-6	471.15	41.119	1,2
24855	C12H24O	6-dodecanone	6064-27-3	519.25	45.737	2	24948	C12H26	2-methyl-5-ethylnonane	62184-38-7	469.15	40.928	1,2
24855.1	C12H24O	isobutyl heptyl ketone	123-18-2	491.40	47.124	1,2	24949	C12H26	2-methyl-6-ethylnonane	62184-39-8	471.15	41.119	1,2
24856	C12H24O	decyl vinyl ether	765-05-9	489.15	42.843	2	24950	C12H26	2-methyl-7-ethylnonane	62184-40-1	475.15	41.502	1,2
24857	C12H24O	cyclododocanol	1724-39-6	545.85	48.306	1,2	24951	C12H26	3-methyl-3-ethylnonane	17302-39-5	477.15	41.693	1,2
24858	C12H24O	(R)-(+)-1,2-epoxydodecane	109856-85-1	519.25	45.737	2	24952	C12H26	3-methyl-4-ethylnonane	62184-41-2	474.15	41.406	1,2
24859	C12H24O	1,2-epoxydodecane	2855-19-8	519.25	45.737	2	24953	C12H26	3-methyl-5-ethylnonane	62184-42-3	468.15	40.833	1,2
24860	C12H24O	trimethyl nonanone	1331-50-6	488.15	42.747	1,2	24954	C12H26	3-methyl-6-ethylnonane	62184-43-4	472.15	41.215	1,2
24861	C12H24O	3-dodecanone	1534-27-6	519.25	45.737	2	24955	C12H26	3-methyl-7-ethylnonane	62184-44-5	473.15	41.310	1,2
24862	C12H24O	5-dodecanone	19780-10-0	519.25	45.737	2	24956	C12H26	4-methyl-3-ethylnonane	62184-45-6	473.15	41.310	1,2
24863	C12H24O	4-dodecanone	6137-26-4	519.25	45.737	2	24957	C12H26	4-methyl-4-ethylnonane	17312-40-2	472.15	41.215	1,2
24864	C12H24O	(Z)-7-dodecen-1-ol	20056-92-2	519.25	45.737	2	24958	C12H26	4-methyl-5-ethylnonane	62184-46-7	471.15	41.119	1,2
24865	C12H24O	8-ethoxy-2,6-dimethyloctene-2	69929-16-4	519.25	45.737	2	24959	C12H26	4-methyl-6-ethylnonane	62184-47-8	469.15	40.928	1,2
24866	C12H24O	triisobutylene oxide	68955-06-6	519.25	45.737	2	24960	C12H26	4-methyl-7-ethylnonane	62184-48-9	473.15	41.310	1,2
24867	C12H24O2	dodecanoic acid	143-07-7	571.85	62.190	1,2	24961	C12H26	5-methyl-3-ethylnonane	62184-49-0	472.15	41.215	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
24962	C12H26	5-methyl-4-ethylnonane	1632-71-9	472.15	41.215	1,2	25042	C12H26	2,6-dimethyl-5-ethyloctane	62183-53-3	468.15	40.833	1,2
24963	C12H26	5-methyl-5-ethylnonane	14531-16-9	471.15	41.119	1,2	25043	C12H26	2,6-dimethyl-6-ethyloctane	62183-54-4	471.15	41.119	1,2
24964	C12H26	2,2,3-trimethylnonane	55499-04-2	473.15	41.310	1,2	25044	C12H26	2,7-dimethyl-3-ethyloctane	62183-55-5	469.15	40.928	1,2
24965	C12H26	2,2,4-trimethylnonane	62184-50-3	464.15	40.451	1,2	25045	C12H26	2,7-dimethyl-4-ethyloctane	62183-56-6	463.15	40.355	1,2
24966	C12H26	2,2,5-trimethylnonane	62184-51-4	464.15	40.451	1,2	25046	C12H26	3,3-dimethyl-4-ethyloctane	62183-57-7	471.15	41.119	1,2
24967	C12H26	2,2,6-trimethylnonane	62184-52-5	463.15	40.355	1,2	25047	C12H26	3,3-dimethyl-5-ethyloctane	62183-58-8	464.15	40.451	1,2
24968	C12H26	2,2,7-trimethylnonane	62184-53-6	468.15	40.833	1,2	25048	C12H26	3,3-dimethyl-6-ethyloctane	62183-59-9	469.15	40.928	1,2
24969	C12H26	2,2,8-trimethylnonane	62184-54-7	468.15	40.833	1,2	25049	C12H26	3,4-dimethyl-3-ethyloctane	62212-28-6	473.15	41.310	1,2
24970	C12H26	2,3,3-trimethylnonane	62184-55-8	475.15	41.502	1,2	25050	C12H26	3,4-dimethyl-4-ethyloctane	62183-60-2	474.15	41.406	1,2
24971	C12H26	2,3,4-trimethylnonane	62184-56-9	473.15	41.310	1,2	25051	C12H26	3,4-dimethyl-5-ethyloctane	62183-61-3	471.15	41.119	1,2
24972	C12H26	2,3,5-trimethylnonane	62184-57-0	469.15	40.928	1,2	25052	C12H26	3,4-dimethyl-6-ethyloctane	62183-62-4	471.15	41.119	1,2
24973	C12H26	2,3,6-trimethylnonane	62184-58-1	471.15	41.119	1,2	25053	C12H26	3,5-dimethyl-3-ethyloctane	62183-63-5	469.15	40.928	1,2
24974	C12H26	2,3,7-trimethylnonane	62184-59-2	474.15	41.406	1,2	25054	C12H26	3,5-dimethyl-4-ethyloctane	62183-64-6	470.15	41.024	1,2
24975	C12H26	2,3,8-trimethylnonane	62184-60-5	473.15	41.310	1,2	25055	C12H26	3,5-dimethyl-5-ethyloctane	62183-65-7	463.15	40.355	1,2
24976	C12H26	2,4,4-trimethylnonane	62184-61-6	463.15	40.355	1,2	25056	C12H26	3,5-dimethyl-6-ethyloctane	62183-66-8	470.15	41.024	1,2
24977	C12H26	2,4,5-trimethylnonane	62184-62-7	468.15	40.833	1,2	25057	C12H26	3,6-dimethyl-3-ethyloctane	62183-67-9	472.15	41.215	1,2
24978	C12H26	2,4,6-trimethylnonane	62184-10-5	465.15	40.546	1,2	25058	C12H26	3,6-dimethyl-4-ethyloctane	62183-68-0	469.15	40.928	1,2
24979	C12H26	2,4,7-trimethylnonane	62184-11-6	467.15	40.737	1,2	25059	C12H26	4,4-dimethyl-3-ethyloctane	62183-69-1	471.15	41.119	1,2
24980	C12H26	2,4,8-trimethylnonane	49542-74-7	464.15	40.451	1,2	25060	C12H26	4,4-dimethyl-5-ethyloctane	62183-70-4	469.15	40.928	1,2
24981	C12H26	2,5,5-trimethylnonane	62184-12-7	463.15	40.355	1,2	25061	C12H26	4,4-dimethyl-6-ethyloctane	62183-71-5	464.15	40.451	1,2
24982	C12H26	2,5,6-trimethylnonane	62184-13-8	469.15	40.928	1,2	25062	C12H26	4,5-dimethyl-3-ethyloctane	62183-72-6	472.15	41.215	1,2
24983	C12H26	2,5,7-trimethylnonane	62184-14-9	467.15	40.737	1,2	25063	C12H26	4,5-dimethyl-4-ethyloctane	62183-73-7	473.15	41.310	1,2
24984	C12H26	2,5,8-trimethylnonane	49557-09-7	465.15	40.546	1,2	25064	C12H26	2,2,3,3-tetramethyloctane	62183-74-8	473.15	41.310	1,2
24985	C12H26	2,6,6-trimethylnonane	62184-15-0	463.15	40.355	1,2	25065	C12H26	2,2,3,4-tetramethyloctane	62183-75-9	468.15	40.833	1,2
24986	C12H26	2,6,7-trimethylnonane	62184-16-1	472.15	41.215	1,2	25066	C12H26	2,2,3,5-tetramethyloctane	62183-76-0	465.15	40.546	1,2
24987	C12H26	2,7,7-trimethylnonane	62184-17-2	470.15	41.024	1,2	25067	C12H26	2,2,3,6-tetramethyloctane	62183-77-1	467.15	40.737	1,2
24988	C12H26	3,3,4-trimethylnonane	62184-18-3	475.15	41.502	1,2	25068	C12H26	2,2,3,7-tetramethyloctane	62183-78-2	467.15	40.737	1,2
24989	C12H26	3,3,5-trimethylnonane	62184-19-4	463.15	40.355	1,2	25069	C12H26	2,2,4,4-tetramethyloctane	62183-79-3	465.15	40.546	1,2
24990	C12H26	3,3,7-trimethylnonane	62184-21-8	468.15	40.833	1,2	25070	C12H26	2,2,4,5-tetramethyloctane	62183-80-6	460.15	40.069	1,2
24991	C12H26	3,3,6-trimethylnonane	62184-20-7	471.15	41.119	1,2	25071	C12H26	2,2,4,6-tetramethyloctane	62183-81-7	458.15	39.878	1,2
24992	C12H26	3,4,4-trimethylnonane	62184-22-9	473.15	41.310	1,2	25072	C12H26	2,2,4,7-tetramethyloctane	62183-82-8	457.95	39.859	1,2
24993	C12H26	3,4,5-trimethylnonane	62184-23-0	473.15	41.310	1,2	25073	C12H26	2,2,5,5-tetramethyloctane	62183-83-9	457.15	39.783	1,2
24994	C12H26	3,4,6-trimethylnonane	62184-24-1	470.15	41.024	1,2	25074	C12H26	2,2,5,6-tetramethyloctane	62183-84-0	463.15	40.355	1,2
24995	C12H26	3,4,7-trimethylnonane	27802-85-3	473.15	41.310	1,2	25075	C12H26	2,2,5,7-tetramethyloctane	62199-19-3	458.15	39.878	1,2
24996	C12H26	3,5,5-trimethylnonane	62184-25-2	464.15	40.451	1,2	25076	C12H26	2,2,6,6-tetramethyloctane	62199-20-6	458.15	39.878	1,2
24997	C12H26	3,5,6-trimethylnonane	62184-26-3	470.15	41.024	1,2	25077	C12H26	2,2,6,7-tetramethyloctane	62199-21-7	464.15	40.451	1,2
24998	C12H26	3,5,7-trimethylnonane	62184-27-4	468.15	40.833	1,2	25078	C12H26	2,2,7,7-tetramethyloctane	1071-31-4	458.15	39.878	1,2
24999	C12H26	3,6,6-trimethylnonane	62184-28-5	463.15	40.355	1,2	25079	C12H26	2,3,3,4-tetramethyloctane	62199-22-8	474.15	41.406	1,2
25000	C12H26	4,4,5-trimethylnonane	62184-29-6	471.15	41.119	1,2	25080	C12H26	2,3,3,5-tetramethyloctane	62199-23-9	467.15	40.737	1,2
25001	C12H26	4,4,6-trimethylnonane	62184-30-9	464.15	40.451	1,2	25081	C12H26	2,3,3,6-tetramethyloctane	62199-24-0	469.15	40.928	1,2
25002	C12H26	4,5,5-trimethylnonane	62184-31-0	471.15	41.119	1,2	25082	C12H26	2,3,3,7-tetramethyloctane	62199-25-1	469.15	40.928	1,2
25003	C12H26	4,5,6-trimethylnonane	62211-85-2	471.15	41.119	1,2	25083	C12H26	2,3,4,4-tetramethyloctane	62199-26-2	469.15	40.928	1,2
25004	C12H26	4-tert-butyloctane	62184-32-1	464.15	40.451	1,2	25084	C12H26	2,3,4,5-tetramethyloctane	62199-27-3	470.15	41.024	1,2
25005	C12H26	2-methyl-4-propyloctane	62184-33-2	464.15	40.451	1,2	25085	C12H26	2,3,4,6-tetramethyloctane	62199-28-4	468.15	40.833	1,2
25006	C12H26	2-methyl-5-propyloctane	62184-34-3	464.15	40.451	1,2	25086	C12H26	2,3,4,7-tetramethyloctane	62199-29-5	467.15	40.737	1,2
25007	C12H26	3-methyl-4-propyloctane	62184-35-4	470.15	41.024	1,2	25087	C12H26	2,3,5,5-tetramethyloctane	62199-30-8	468.15	40.833	1,2
25008	C12H26	3-methyl-5-propyloctane	62184-36-5	467.15	40.737	1,2	25088	C12H26	2,3,5,6-tetramethyloctane	62199-31-9	468.15	40.833	1,2
25009	C12H26	4-methyl-4-propyloctane	17312-41-3	468.15	40.833	1,2	25089	C12H26	2,3,5,7-tetramethyloctane	62199-32-0	463.15	40.355	1,2
25010	C12H26	4-methyl-5-propyloctane	62183-85-1	469.15	40.928	1,2	25090	C12H26	2,3,6,6-tetramethyloctane	62199-33-1	466.15	40.641	1,2
25011	C12H26	2-methyl-3-isopropyloctane	13287-19-9	469.15	40.928	1,2	25091	C12H26	2,3,6,7-tetramethyloctane	52670-34-5	469.15	40.928	1,2
25012	C12H26	2-methyl-4-isopropyloctane	62183-86-2	463.15	40.355	1,2	25092	C12H26	2,4,4,5-tetramethyloctane	62199-34-2	464.15	40.451	1,2
25013	C12H26	2-methyl-5-isopropyloctane	62183-87-3	464.15	40.451	1,2	25093	C12H26	2,4,4,6-tetramethyloctane	62199-35-3	458.15	39.878	1,2
25014	C12H26	3-methyl-4-isopropyloctane	62183-88-4	468.15	40.833	1,2	25094	C12H26	2,4,4,7-tetramethyloctane	35866-96-7	457.15	39.783	1,2
25015	C12H26	3-methyl-5-isopropyloctane	62183-89-5	465.15	40.546	1,2	25095	C12H26	2,4,5,5-tetramethyloctane	62199-36-4	465.15	40.546	1,2
25016	C12H26	4-methyl-4-isopropyloctane	62183-90-8	471.15	41.119	1,2	25096	C12H26	2,4,5,6-tetramethyloctane	62199-37-5	467.15	40.737	1,2
25017	C12H26	4-methyl-5-isopropyloctane	62183-91-9	467.15	40.737	1,2	25097	C12H26	2,4,5,7-tetramethyloctane	2217-17-6	459.45	40.002	1,2
25018	C12H26	3,3-diethyloctane	17302-40-8	478.15	41.789	1,2	25098	C12H26	2,4,6,6-tetramethyloctane	62199-38-6	460.15	40.069	1,2
25019	C12H26	3,4-diethyloctane	62183-92-0	472.15	41.215	1,2	25099	C12H26	2,5,5,6-tetramethyloctane	62199-39-7	467.15	40.737	1,2
25020	C12H26	3,5-diethyloctane	62183-93-1	470.15	41.024	1,2	25100	C12H26	2,5,6,6-tetramethyloctane	62199-40-0	469.15	40.928	1,2
25021	C12H26	3,6-diethyloctane	62183-94-2	475.15	41.502	1,2	25101	C12H26	3,3,4,4-tetramethyloctane	62199-41-1	475.15	41.502	1,2
25022	C12H26	4,4-diethyloctane	17312-42-4	473.15	41.310	1,2	25102	C12H26	3,3,4,5-tetramethyloctane	62199-42-2	471.15	41.119	1,2
25023	C12H26	4,5-diethyloctane	1636-41-5	470.15	41.024	1,2	25103	C12H26	3,3,4,6-tetramethyloctane	62199-43-3	469.15	40.928	1,2
25024	C12H26	2,2-dimethyl-3-ethyloctane	62183-95-3	469.15	40.928	1,2	25104	C12H26	3,3,5,5-tetramethyloctane	62199-44-4	470.15	41.024	1,2
25025	C12H26	2,2-dimethyl-4-ethyloctane	62183-96-4	460.15	40.069	1,2	25105	C12H26	3,3,5,6-tetramethyloctane	62199-45-5	466.15	40.641	1,2
25026	C12H26	2,2-dimethyl-5-ethyloctane	62183-97-5	462.15	40.260	1,2	25106	C12H26	3,3,6,6-tetramethyloctane	62199-46-6	462.85	40.326	1,2
25027	C12H26	2,2-dimethyl-6-ethyloctane	62183-98-6	466.15	40.641	1,2	25107	C12H26	3,4,4,5-tetramethyloctane	62199-47-7	474.15	41.406	1,2
25028	C12H26	2,3-dimethyl-3-ethyloctane	62183-99-7	475.15	41.502	1,2	25108	C12H26	3,4,4,6-tetramethyloctane	62185-19-7	468.15	40.833	1,2
25029	C12H26	2,3-dimethyl-4-ethyloctane	62184-00-3	470.15	41.024	1,2	25109	C12H26	3,4,5,5-tetramethyloctane	62185-20-0	470.15	41.024	1,2
25030	C12H26	2,3-dimethyl-5-ethyloctane	62184-01-4	467.15	40.737	1,2	25110	C12H26	3,4,5,6-tetramethyloctane	62185-21-1	472.15	41.215	1,2
25031	C12H26	2,3-dimethyl-6-ethyloctane	62184-02-5	472.15	41.215	1,2	25111	C12H26	4,4,5,5-tetramethyloctane	62185-22-2	473.15	41.310	1,2
25032	C12H26	2,4-dimethyl-3-ethyloctane	62184-03-6	470.15	41.024	1,2	25112	C12H26	2-methyl-4-tert-butylheptane	62185-23-3	458.15	39.878	1,2
25033	C12H26	2,4-dimethyl-4-ethyloctane	62184-04-7	464.15	40.451	1,2	25113	C12H26	3-methyl-4-tert-butylheptane	62185-24-4	463.15	40.355	1,2
25034	C12H26	2,4-dimethyl-5-ethyloctane	62184-05-8	466.15	40.641	1,2	25114	C12H26	4-methyl-4-tert-butylheptane	62185-25-5	471.15	41.119	1,2
25035	C12H26	2,4-dimethyl-6-ethyloctane	62184-06-9	465.15	40.546	1,2	25115	C12H26	3-ethyl-4-propylheptane	62185-26-6	469.15	40.928	1,2
25036	C12H26	2,5-dimethyl-3-ethyloctane	62184-07-0	467.15	40.737	1,2	25116	C12H26	4-ethyl-4-propylheptane	17312-43-5	470.15	41.024	1,2
25037	C12H26	2,5-dimethyl-4-ethyloctane	62184-08-1	465.15	40.546	1,2	25117	C12H26	3-ethyl-4-isopropylheptane	62185-27-7	468.15	40.833	1,2
25038	C12H26	2,5-dimethyl-5-ethyloctane	62184-09-2	466.15	40.641	1,2	25118	C12H26	4-ethyl-4-isopropylheptane	62185-28-8	473.15	41.310	1,2
25039	C12H26	2,5-dimethyl-6-ethyloctane	62183-50-0	470.15	41.024	1,2	25119	C12H26	2,2-dimethyl-4-propylheptane	---	457.15	39.783	1,2
25040	C12H26	2,6-dimethyl-3-ethyloctane	62183-51-1	470.15	41.024	1,2	25120	C12H26	2,3-dimethyl-4-propylheptane	62185-30-2	467.15	40.737	1,2
25041	C12H26	2,6-dimethyl-4-ethyloctane	62183-52-2	463.15	40.355	1,2	25121	C12H26	2,4-dimethyl-4-propylheptane	62185-31-3	462.15	40.260	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
25122	C12H26	2,5-dimethyl-4-propylheptane	62185-32-4	463.15	40.355	1,2	25202	C12H26	2,2,3,6,6-pentamethylheptane	62198-88-3	458.15	39.878	1,2
25123	C12H26	2,6-dimethyl-4-propylheptane	62185-33-5	457.75	39.840	1,2	25203	C12H26	2,2,4,4,5-pentamethylheptane	62199-61-5	469.15	40.928	1,2
25124	C12H26	3,3-dimethyl-4-propylheptane	62185-34-6	469.15	40.928	1,2	25204	C12H26	2,2,4,4,6-pentamethylheptane	62199-62-6	458.75	39.935	1,2
25125	C12H26	3,4-dimethyl-4-propylheptane	62185-35-7	471.15	41.119	1,2	25205	C12H26	2,2,4,5,5-pentamethylheptane	62199-63-7	459.15	39.973	1,2
25126	C12H26	3,5-dimethyl-4-propylheptane	62185-36-8	469.15	40.928	1,2	25206	C12H26	2,2,4,5,6-pentamethylheptane	62199-64-8	458.15	39.878	1,2
25127	C12H26	2,2-dimethyl-3-isopropylheptane	62185-37-9	463.15	40.355	1,2	25207	C12H26	2,2,4,6,6-pentamethylheptane	13475-82-6	451.10	39.206	1,2
25128	C12H26	2,2-dimethyl-4-isopropylheptane	62185-38-0	455.15	39.592	1,2	25208	C12H26	2,2,5,5,6-pentamethylheptane	62199-65-9	459.15	39.973	1,2
25129	C12H26	2,3-dimethyl-3-isopropylheptane	62185-39-1	474.15	41.406	1,2	25209	C12H26	2,3,3,4,4-pentamethylheptane	62199-66-0	476.15	41.597	1,2
25130	C12H26	2,3-dimethyl-4-isopropylheptane	62185-40-4	465.15	40.546	1,2	25210	C12H26	2,3,3,4,5-pentamethylheptane	62199-67-1	473.15	41.310	1,2
25131	C12H26	2,4-dimethyl-3-isopropylheptane	62185-41-5	465.15	40.546	1,2	25211	C12H26	2,3,3,4,6-pentamethylheptane	62199-68-2	468.15	40.833	1,2
25132	C12H26	2,4-dimethyl-4-isopropylheptane	62185-42-6	465.15	40.546	1,2	25212	C12H26	2,3,3,5,5-pentamethylheptane	62199-69-3	473.15	41.310	1,2
25133	C12H26	2,5-dimethyl-3-isopropylheptane	62185-43-7	463.15	40.355	1,2	25213	C12H26	2,3,3,5,6-pentamethylheptane	52670-35-6	465.15	40.546	1,2
25134	C12H26	2,5-dimethyl-4-isopropylheptane	62185-44-8	462.15	40.260	1,2	25214	C12H26	2,3,4,4,5-pentamethylheptane	62199-70-6	473.15	41.310	1,2
25135	C12H26	2,6-dimethyl-3-isopropylheptane	62185-45-9	463.95	40.431	1,2	25215	C12H26	2,3,4,4,6-pentamethylheptane	62199-71-7	463.15	40.355	1,2
25136	C12H26	2,6-dimethyl-4-isopropylheptane	35866-89-8	456.15	39.687	1,2	25216	C12H26	2,3,4,5,5-pentamethylheptane	62199-72-8	470.15	41.024	1,2
25137	C12H26	3,3-dimethyl-4-isopropylheptane	62185-46-0	467.15	40.737	1,2	25217	C12H26	2,3,4,5,6-pentamethylheptane	27574-98-7	468.15	40.833	1,2
25138	C12H26	3,4-dimethyl-4-isopropylheptane	62185-47-1	474.15	41.406	1,2	25218	C12H26	2,4,4,5,5-pentamethylheptane	62199-73-9	469.15	40.928	1,2
25139	C12H26	3,5-dimethyl-4-isopropylheptane	62198-89-4	467.15	40.737	1,2	25219	C12H26	3,3,4,4,5-pentamethylheptane	62199-74-0	479.15	41.884	1,2
25140	C12H26	2-methyl-3,3-diethylheptane	62198-90-7	476.15	41.597	1,2	25220	C12H26	3,3,4,5,5-pentamethylheptane	62199-75-1	482.15	42.172	1,2
25141	C12H26	2-methyl-3,4-diethylheptane	62198-91-8	468.15	40.833	1,2	25221	C12H26	2,2-dimethyl-3-tert-butylhexane	62199-76-2	469.15	40.928	1,2
25142	C12H26	2-methyl-3,5-diethylheptane	62198-92-9	468.15	40.833	1,2	25222	C12H26	2-methyl-3-ethyl-3-isopropylhexane	62199-77-3	473.15	41.310	1,2
25143	C12H26	2-methyl-4,4-diethylheptane	62198-93-0	467.15	40.737	1,2	25223	C12H26	2-methyl-4-ethyl-3-isopropylhexane	62199-78-4	463.15	40.355	1,2
25144	C12H26	2-methyl-4,5-diethylheptane	62198-94-1	466.15	40.641	1,2	25224	C12H26	2,2,3-trimethyl-3-isopropylhexane	62199-79-5	474.15	41.406	1,2
25145	C12H26	2-methyl-5,5-diethylheptane	62198-95-2	471.15	41.119	1,2	25225	C12H26	2,2,4-trimethyl-3-isopropylhexane	62199-80-8	462.15	40.260	1,2
25146	C12H26	3-methyl-3,4-diethylheptane	62198-96-3	474.15	41.406	1,2	25226	C12H26	2,2,5-trimethyl-3-isopropylhexane	62199-81-9	453.15	39.402	1,2
25147	C12H26	3-methyl-3,5-diethylheptane	62198-97-4	470.15	41.024	1,2	25227	C12H26	2,2,5-trimethyl-4-isopropylhexane	62199-82-0	453.15	39.402	1,2
25148	C12H26	3-methyl-4,4-diethylheptane	62198-98-5	477.15	41.693	1,2	25228	C12H26	2,3,4-trimethyl-3-isopropylhexane	62199-83-1	477.15	41.693	1,2
25149	C12H26	3-methyl-4,5-diethylheptane	62198-99-6	471.15	41.119	1,2	25229	C12H26	2,3,5-trimethyl-3-isopropylhexane	62199-84-2	467.15	40.737	1,2
25150	C12H26	3-methyl-5,5-diethylheptane	62199-00-2	472.15	41.215	1,2	25230	C12H26	2,3,5-trimethyl-4-isopropylhexane	62199-85-3	463.15	40.355	1,2
25151	C12H26	4-methyl-3,3-diethylheptane	62199-01-3	478.15	41.789	1,2	25231	C12H26	2,4,4-trimethyl-3-isopropylhexane	62199-86-4	465.15	40.546	1,2
25152	C12H26	4-methyl-3,4-diethylheptane	62199-02-4	474.15	41.406	1,2	25232	C12H26	3,3,4-triethylhexane	62199-87-5	479.15	41.884	1,2
25153	C12H26	4-methyl-3,5-diethylheptane	62199-03-5	473.15	41.310	1,2	25233	C12H26	2,2-dimethyl,3,3-diethylhexane	62199-88-6	473.15	41.310	1,2
25154	C12H26	2,2,3-trimethyl-3-ethylheptane	62199-04-6	473.15	41.310	1,2	25234	C12H26	2,2-dimethyl-3,4-diethylhexane	62199-89-7	463.15	40.355	1,2
25155	C12H26	2,2,3-trimethyl-4-ethylheptane	62199-05-7	466.15	40.641	1,2	25235	C12H26	2,2-dimethyl-4,4-diethylhexane	62184-89-8	473.15	41.310	1,2
25156	C12H26	2,2,3-trimethyl-5-ethylheptane	62199-06-8	465.15	40.546	1,2	25236	C12H26	2,3-dimethyl-3,4-diethylhexane	62184-90-1	477.15	41.693	1,2
25157	C12H26	2,2,4-trimethyl-3-ethylheptane	62199-07-9	465.15	40.546	1,2	25237	C12H26	2,3-dimethyl-4,4-diethylhexane	62184-91-2	477.15	41.693	1,2
25158	C12H26	2,2,4-trimethyl-4-ethylheptane	62199-08-0	467.15	40.737	1,2	25238	C12H26	2,4-dimethyl-3,3-diethylhexane	62184-92-3	473.15	41.310	1,2
25159	C12H26	2,2,4-trimethyl-5-ethylheptane	62199-09-1	460.15	40.069	1,2	25239	C12H26	2,4-dimethyl-3,4-diethylhexane	62184-93-4	473.15	41.310	1,2
25160	C12H26	2,2,5-trimethyl-3-ethylheptane	62199-10-4	463.15	40.355	1,2	25240	C12H26	2,5-dimethyl-3,3-diethylhexane	62184-94-5	463.15	40.355	1,2
25161	C12H26	2,2,5-trimethyl-4-ethylheptane	62199-11-5	459.15	39.973	1,2	25241	C12H26	2,5-dimethyl-3,4-diethylhexane	62184-95-6	463.15	40.355	1,2
25162	C12H26	2,2,5-trimethyl-5-ethylheptane	62199-12-6	462.15	40.260	1,2	25242	C12H26	3,3-dimethyl-4,4-diethylhexane	62184-96-7	483.15	42.268	1,2
25163	C12H26	2,2,6-trimethyl-3-ethylheptane	62199-13-7	463.15	40.355	1,2	25243	C12H26	3,4-dimethyl-3,4-diethylhexane	62184-97-8	483.15	42.268	1,2
25164	C12H26	2,2,6-trimethyl-4-ethylheptane	62199-14-8	453.15	39.402	1,2	25244	C12H26	2,2,3,3-tetramethyl-4-ethylhexane	62184-98-9	474.15	41.406	1,2
25165	C12H26	2,2,6-trimethyl-5-ethylheptane	62199-15-9	460.15	40.069	1,2	25245	C12H26	2,2,3,4-tetramethyl-3-ethylhexane	62184-99-0	477.15	41.693	1,2
25166	C12H26	2,3,3-trimethyl-4-ethylheptane	62199-16-0	472.15	41.215	1,2	25246	C12H26	2,2,3,4-tetramethyl-4-ethylhexane	62185-00-6	481.15	42.076	1,2
25167	C12H26	2,3,3-trimethyl-5-ethylheptane	62199-17-1	467.15	40.737	1,2	25247	C12H26	2,2,3,5-tetramethyl-3-ethylhexane	62185-01-7	467.15	40.737	1,2
25168	C12H26	2,3,4-trimethyl-3-ethylheptane	62199-18-2	476.15	41.597	1,2	25248	C12H26	2,2,3,5-tetramethyl-4-ethylhexane	62185-02-8	464.15	40.451	1,2
25169	C12H26	2,3,4-trimethyl-4-ethylheptane	62198-55-4	471.15	41.119	1,2	25249	C12H26	2,2,4,4-tetramethyl-3-ethylhexane	62185-03-9	473.15	41.310	1,2
25170	C12H26	2,3,4-trimethyl-5-ethylheptane	62198-56-5	470.15	41.024	1,2	25250	C12H26	2,2,4,5-tetramethyl-3-ethylhexane	62185-04-0	463.15	40.355	1,2
25171	C12H26	2,3,5-trimethyl-3-ethylheptane	62198-57-6	470.65	41.071	1,2	25251	C12H26	2,2,4,5-tetramethyl-4-ethylhexane	62185-05-1	470.15	41.024	1,2
25172	C12H26	2,3,5-trimethyl-4-ethylheptane	62198-58-7	469.15	40.928	1,2	25252	C12H26	2,2,5,5-tetramethyl-3-ethylhexane	62185-06-2	453.15	39.402	1,2
25173	C12H26	2,3,5-trimethyl-5-ethylheptane	62198-59-8	467.15	40.737	1,2	25253	C12H26	2,3,3,4-tetramethyl-4-ethylhexane	62185-07-3	481.15	42.076	1,2
25174	C12H26	2,3,6-trimethyl-3-ethylheptane	62198-60-1	469.15	40.928	1,2	25254	C12H26	2,3,3,5-tetramethyl-4-ethylhexane	62185-08-4	470.15	41.024	1,2
25175	C12H26	2,3,6-trimethyl-4-ethylheptane	62198-61-2	463.15	40.355	1,2	25255	C12H26	2,3,4,4-tetramethyl-3-ethylhexane	62185-09-5	481.15	42.076	1,2
25176	C12H26	2,3,6-trimethyl-5-ethylheptane	62198-62-3	466.15	40.641	1,2	25256	C12H26	2,3,4,5-tetramethyl-3-ethylhexane	62185-10-8	474.15	41.406	1,2
25177	C12H26	2,4,4-trimethyl-3-ethylheptane	62198-63-4	467.15	40.737	1,2	25257	C12H26	2,2,3,3,4,4-hexamethylhexane	62185-11-9	489.15	42.843	1,2
25178	C12H26	2,4,4-trimethyl-5-ethylheptane	62198-64-5	465.15	40.546	1,2	25258	C12H26	2,2,3,3,4,5-hexamethylhexane	62185-12-0	472.15	41.215	1,2
25179	C12H26	2,4,5-trimethyl-3-ethylheptane	62198-65-6	469.15	40.928	1,2	25259	C12H26	2,2,3,3,5,5-hexamethylhexane	60302-24-1	468.15	40.833	1,2
25180	C12H26	2,4,5-trimethyl-4-ethylheptane	62198-66-7	468.15	40.833	1,2	25260	C12H26	2,2,3,4,4,5-hexamethylhexane	62185-13-1	479.15	41.884	1,2
25181	C12H26	2,4,5-trimethyl-5-ethylheptane	62198-67-8	470.15	41.024	1,2	25261	C12H26	2,2,3,4,5,5-hexamethylhexane	62185-14-2	463.15	40.355	1,2
25182	C12H26	2,4,6-trimethyl-3-ethylheptane	62198-68-9	464.15	40.451	1,2	25262	C12H26	2,3,3,4,4,5-hexamethylhexane	52670-36-7	479.15	41.884	1,2
25183	C12H26	2,4,6-trimethyl-4-ethylheptane	62198-69-0	458.15	39.878	1,2	25263	C12H26	2,4-dimethyl-3-ethyl-3-isopropylpentane	62185-16-4	479.15	41.884	1,2
25184	C12H26	2,5,5-trimethyl-3-ethylheptane	62198-70-3	463.15	40.355	1,2	25264	C12H26	2,2,4-trimethyl-3,3-diethylpentane	62185-15-3	479.15	41.884	1,2
25185	C12H26	2,5,5-trimethyl-4-ethylheptane	62198-71-4	465.15	40.546	1,2	25265	C12H26	2,2,3,4-tetramethyl-3-isopropylpentane	62185-17-5	477.15	41.693	1,2
25186	C12H26	3,3,4-trimethyl-4-ethylheptane	62198-72-5	478.15	41.789	1,2	25266	C12H26	2,2,4,4-tetramethyl-3-isopropylpentane	62185-18-6	467.15	40.737	1,2
25187	C12H26	3,3,4-trimethyl-5-ethylheptane	62198-73-6	472.15	41.215	1,2	25267	C12H26	2,2,3,4,4-pentamethyl-3-ethylpentane	66576-21-4	487.15	42.651	1,2
25188	C12H26	3,3,5-trimethyl-4-ethylheptane	62198-74-7	470.15	41.024	1,2	25268	C12H26	2-methylundecane	7045-71-8	484.00	42.186	2
25189	C12H26	3,3,5-trimethyl-5-ethylheptane	62198-75-8	475.15	41.502	1,2	25270	C12H26Cl2Sn	dichlorodihexylstannane	2767-41-1	378.65	32.358	1,2
25190	C12H26	3,4,4-trimethyl-3-ethylheptane	62198-76-9	478.15	41.789	1,2	25277	C12H26O	1-dodecanol	112-53-8	535.00	47.786	1,2
25191	C12H26	3,4,4-trimethyl-5-ethylheptane	62198-77-0	475.15	41.502	1,2	25278	C12H26O	2-dodecanol	10203-28-8	525.15	46.306	1,2
25192	C12H26	3,4,5-trimethyl-3-ethylheptane	62198-78-1	475.15	41.502	1,2	25279	C12H26O	3-dodecanol	10203-30-2	512.53	45.090	2
25193	C12H26	3,4,5-trimethyl-4-ethylheptane	62198-79-2	478.15	41.789	1,2	25280	C12H26O	6-dodecanol	6836-38-0	498.15	38.519	1,2
25194	C12H26	2,2,3,3,4-pentamethylheptane	62198-80-5	473.15	41.310	1,2	25281	C12H26O	2-methyl-1-undecanol	10522-26-6	512.53	45.090	2
25195	C12H26	2,2,3,3,5-pentamethylheptane	62198-81-6	467.15	40.737	1,2	25282	C12H26O	2-methyl-3-undecanol	60671-36-5	512.53	45.090	2
25196	C12H26	2,2,3,3,6-pentamethylheptane	62198-82-7	466.15	40.641	1,2	25283	C12H26O	2-methyl-5-undecanol	33978-71-1	512.53	45.090	2
25197	C12H26	2,2,3,4,4-pentamethylheptane	62198-83-8	475.15	41.502	1,2	25284	C12H26O	2-butyl-1-octanol	3913-02-8	519.65	45.775	1,2
25198	C12H26	2,2,3,4,5-pentamethylheptane	62198-84-9	467.15	40.737	1,2	25285	C12H26O	dihexyl ether	112-58-3	498.85	48.120	1,2
25199	C12H26	2,2,3,4,6-pentamethylheptane	62198-85-0	461.15	40.164	1,2	25286	C12H26O	2,6,8-trimethylnonanol-4	123-17-1	498.40	38.597	1,2
25200	C12H26	2,2,3,5,5-pentamethylheptane	62198-86-1	460.15	40.069	1,2	25287	C12H26O2	1,2-dodecanediol	1119-87-5	581.15	51.733	2
25201	C12H26	2,2,3,5,6-pentamethylheptane	62198-87-2	461.95	40.241	1,2	25288	C12H26O2	1,3-dodecanediol	39516-24-0	592.15	52.805	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
25289	C12H26O2	1,4-dodecanediol	38146-95-1	613.15	54.855	2	25441	C13H5Br3F3N3O4	desmethylbromethalin	57729-86-9	478.15	41.789	1,2
25290	C12H26O2	1,12-dodecanediol	5675-51-4	600.15	53.585	2	25460	C13H8Br2O	4,4'-dibromobenzophenone	3988-03-2	668.15	60.253	1,2
25291	C12H26O2	(R)-1,2-dodecanediol	85514-84-7	596.65	53.244	2	25466	C13H8ClNO3	2-chloro-5-nitrobenzophenone	34052-37-4	508.15	44.668	2
25292	C12H26O2	(S)-1,2-dodecanediol	85514-85-8	596.65	53.244	2	25467	C13H8ClNO3	4-chloro-3-nitrobenzophenone	56107-02-9	508.15	44.668	1,2
25293	C12H26O2	aldehyde C-10 dimethylacetal	7779-41-1	596.65	53.244	2	25470	C13H8Cl2O	(2-chlorophenyl)(4-chlorophenyl)methanone	85-29-0	626.15	56.127	2
25294	C12H26O3	diethylene glycol dibutyl ether	112-73-2	529.15	51.270	1,2	25471	C13H8Cl2O	3,3'-dichlorobenzophenone	7094-34-0	626.15	56.127	2
25295	C12H26O3	di(ethylene glycol) 2-ethylhexyl ether	1559-36-0	545.15	48.239	1,2	25472	C13H8Cl2O	4,4'-dichlorobenzophenone	90-98-2	626.15	56.127	1,2
25296	C12H26O3	n-octyl-dioxyethylene	19327-37-8	537.15	47.465	2	25473	C13H8Cl2O	3,4-dichlorobenzophenone	6284-79-3	626.15	56.127	2
25297	C12H26O3	1,1,3-triethoxyhexane	101-33-7	537.15	47.465	2	25479	C13H8Cl4N2	banomite	---	431.25	37.320	1,2
25298	C12H26O3	hydroxycitronellal dimethyl acetal	141-92-4	537.15	47.465	2	25480	C13H8Cl4N2	a-(2,4,6-trichlorophenyl)hydrazono benzoyl c*	25939-05-3	431.25	37.320	2
25299	C12H26O3	laurine dimethyl acetal	141-92-4	537.15	47.465	2	25489	C13H8F16O2	2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluo*	1841-46-9	507.15	44.572	1,2
25301	C12H26O4	2,2-di-(tert-butylperoxy)butane	2167-23-9	355.15	30.161	1,2	25491	C13H8N2O3S	lopatol	19881-18-6	475.15	41.502	1,2
25302	C12H26O4	tri(propylene glycol) propyl ether, isomers	96077-04-2	534.15	47.175	1,2	25496	C13H8O	9H-fluoren-9-one	486-25-9	614.65	55.002	1,2
25307	C12H26O6P2S4	dioxathion	78-34-2	513.15	45.149	2	25497	C13H8O	perinaphthenone	548-39-0	614.65	55.002	2
25308	C12H26O6P2S4	cis-2,3-p-dioxanedithiol-S,S-bis(O,O-diethyl*	16088-56-5	513.15	45.149	1,2	25498	C13H8OS	9H-thioxanthen-9-one	492-22-8	646.15	58.089	1,2
25310	C12H26S	1-dodecanethiol	112-55-0	547.75	50.793	1,2	25500	C13H8O2	xanthone	90-47-1	624.15	55.931	1,2
25311	C12H26S	2-dodecanethiol	14402-50-7	538.35	47.581	1,2	25501	C13H8O2	1-hydroxy-9-fluorenone	6344-60-1	624.15	55.931	2
25312	C12H26S	dihexyl sulfide	6294-31-1	503.15	58.244	1,2	25502	C13H8O2	2-hydroxy-9-fluorenone	6949-73-1	624.15	55.931	2
25313	C12H26S	methyl undecyl sulfide	7289-44-3	537.00	54.833	2	25503	C13H8O2	3-hydroxy-1H-phenalen-1-one	5472-84-4	624.15	55.931	2
25314	C12H26S	ethyl decyl sulfide	19313-61-2	537.00	54.833	2	25508	C13H9Br	2-bromo-9H-fluorene	1133-80-8	474.15	41.406	2
25315	C12H26S	propyl nonyl sulfide	62103-66-6	537.00	54.833	2	25509	C13H9Br	9-bromofluorene	1940-57-4	474.15	41.406	2
25316	C12H26S	butyl octyl sulfide	16900-07-5	537.00	54.833	2	25510	C13H9Br	1-bromo-12-cyclotridecadien-4,8,10-triyne	---	474.15	41.406	1,2
25317	C12H26S	tert-dodecylmercaptan	25103-58-6	510.65	44.908	1,2	25512	C13H9BrO	(2-bromophenyl)phenylmethanone	13047-06-8	618.15	55.344	1,2
25318	C12H26S2	dihexyl disulfide	10496-15-8	566.66	54.810	1,2	25513	C13H9BrO	(3-bromophenyl)phenylmethanone	1016-77-9	620.65	55.589	2
25320	C12H27Al	tri-n-butylaluminum	1116-70-7	371.15	31.656	1,2	25514	C13H9BrO	(4-bromophenyl)phenylmethanone	90-90-4	623.15	55.834	1,2
25321	C12H27Al	triisobutyl aluminum	100-99-2	359.15	30.534	1,2	25521	C13H9ClO	(4-chlorophenyl)phenylmethanone	134-85-0	605.15	54.073	1,2
25325	C12H27B	triisobutylborane	1116-39-8	461.15	40.164	1,2	25522	C13H9ClO	4-biphenylcarbonyl chloride	14002-51-8	604.15	53.976	2
25326	C12H27B	tri-n-butyl borane	122-56-5	492.65	43.178	1,2	25523	C13H9ClO	3-chlorobenzophenone	1016-78-0	604.15	53.976	2
25327	C12H27BO3	tributyl borate	688-74-4	506.65	37.123	1,2	25524	C13H9ClO	2-chlorobenzophenone	5162-03-8	603.15	53.878	1,2
25328	C12H27BO3	tri-tert-butyl borate	7397-43-5	493.40	43.250	2	25526	C13H9ClO2	3-(4-chlorophenoxy)benzaldehyde	69770-20-3	398.15	34.191	1,2
25329	C12H27BO3	triisobutyl borate	13195-76-1	480.15	41.980	1,2	25537	C13H9N	acridine	260-94-6	618.01	55.330	1,2
25330	C12H27BO3	tri-sec-butyl borate	22238-17-1	493.40	43.250	2	25538	C13H9N	phenanthridine	229-87-8	622.05	55.726	1,2
25332	C12H27BrSn	tributyltin bromide	1461-23-0	436.15	37.785	1,2	25539	C13H9N	benzo[f]quinoline	85-02-9	625.15	56.029	1,2
25333	C12H27ClGe	tributylgermanium chloride	2117-36-4	543.15	48.045	1,2	25540	C13H9N	benzo[g]quinoline	260-36-6	619.34	55.461	2
25335	C12H27ClSn	tributyltin chloride	1461-22-9	445.15	38.640	1,2	25541	C13H9N	benzo[h]quinoline	230-27-3	612.15	54.757	1,2
25336	C12H27ClSn	chloro(triisobutyl)stannane	7342-38-3	445.15	38.640	2	25542	C13H9N	[1,1'-biphenyl]-2-carbonitrile	24973-49-7	619.34	55.461	2
25338	C12H27FSn	fluorotributylstannane	1983-10-4	558.15	49.498	2	25543	C13H9N	4-cyanobiphenyl	2920-38-9	619.34	55.461	2
25340	C12H27N	dodecylamine	124-22-1	532.35	51.795	1,2	25544	C13H9NO	2-amino-9-fluorenone	3096-57-9	538.15	47.561	2
25341	C12H27N	methylundecylamine	66553-53-5	517.15	45.534	1,2	25545	C13H9NO	2-biphenylyl isocyanate	17337-13-2	538.15	47.561	2
25342	C12H27N	ethyldecylamine	66553-52-4	514.15	45.245	1,2	25546	C13H9NO	4-biphenylyl isocyanate	92-95-5	538.15	47.561	2
25343	C12H27N	dihexylamine	143-16-8	512.95	45.130	1,2	25547	C13H9NO	4'-hydroxy-4-biphenylcarbonitrile	19812-93-2	538.15	47.561	2
25344	C12H27N	dimethyldecylamine	1120-24-7	508.15	44.668	1,2	25548	C13H9NO	2-phenylbenzoxazole	833-50-1	538.15	47.561	2
25345	C12H27N	diethyloctylamine	4088-37-3	486.15	42.555	1,2	25550	C13H9NO	4-aminofluorenone	4269-15-2	538.15	47.561	1,2
25346	C12H27N	tributylamine	102-82-9	487.15	46.613	1,2	25551	C13H9NO	dibenz(b,f)(1,4)oxazepine	257-07-8	538.15	47.561	2
25347	C12H27N	triisobutylamine	1116-40-1	464.65	33.423	1,2	25552	C13H9NO	2-nitrosofluorene	2508-20-5	538.15	47.561	2
25348	C12H27NO	N,N-diisopentylethanolamine	3574-43-4	521.15	45.920	1,2	25555	C13H9NO2	2-(2-benzoxazolyl)phenol	835-64-3	611.15	54.660	1,2
25350	C12H27OP	tributylphosphine oxide	814-29-9	573.15	50.955	1,2	25556	C13H9NO2	2-nitrofluorene	607-57-8	464.15	40.451	2
25352	C12H27O3P	tributyl phosphite	102-85-2	556.15	49.304	2	25557	C13H9NO2	4-phenoxyphenyl isocyanate	59377-19-4	464.15	40.451	2
25353	C12H27O3P	dibutyl butylphosphonate	78-46-6	556.15	49.304	1,2	25558	C13H9NO2	2-phenoxyphenyl isocyanate	59377-20-7	464.15	40.451	2
25354	C12H27O3P	1-dodecanephosphonic acid	5137-70-2	556.15	49.304	2	25559	C13H9NO2	9H-fluorene, nitro	55345-04-5	317.15	26.635	1,2
25355	C12H27O4P	tributyl phosphate	126-73-8	562.15	49.886	1,2	25560	C13H9NO2	3-nitro-9H-fluorene	5397-37-5	464.15	40.451	2
25356	C12H27O4P	triisobutyl phosphate	126-71-6	537.15	47.465	1,2	25561	C13H9NO3	(3-nitrophenyl)phenylmethanone	2243-80-3	491.65	43.082	2
25358	C12H27P	tributylphosphine	998-40-3	513.15	45.149	1,2	25562	C13H9NO3	(4-nitrophenyl)phenylmethanone	1144-74-7	491.65	43.082	2
25359	C12H27P	tri-tert-butylphosphine	13716-12-6	513.15	45.149	2	25563	C13H9NO3	9-hydroxy-2-nitrofluorene	28149-15-7	491.65	43.082	1,2
25360	C12H27P	triisobutylphosphine	4125-25-1	513.15	45.149	2	25568	C13H9NS	2-phenylbenzothiazole	883-93-2	644.15	57.893	1,2
25373	C12H28GeO4	germanium(iv) isopropoxide	21154-48-3	440.15	38.165	1,2	25575	C13H10	fluorene	86-73-7	570.44	53.116	1,2
25382	C12H28O4Si	tetrapropoxysilane	682-01-9	499.15	43.802	1,2	25578	C13H10ClNO	2-amino-5-chlorobenzophenone	719-59-5	480.15	41.980	1,2
25383	C12H28O4Ti	titanium(iv) isopropoxide	546-68-9	503.15	44.187	1,2	25579	C13H10ClNO	diphenylcarbamyl chloride	83-01-2	480.15	41.980	2
25384	C12H28O4Ti	titanium(iv) propoxide	3087-37-4	443.15	38.450	1,2	25580	C13H10ClN3O	1-methyl-3-phenyl-5-chloroimidazo(4,5-b)pyri*	---	361.15	30.721	1,2
25390	C12H28Si	tributylsilane	998-41-4	494.15	43.322	1,2	25581	C13H10Cl2	bis(4-chlorophenyl)methane	101-76-8	578.15	51.441	2
25391	C12H28Si	triisobutylsilane	6485-81-0	478.15	41.789	1,2	25582	C13H10Cl2	dichlorodiphenylmethane	2051-90-3	578.15	51.441	2
25392	C12H28Sn	tetrapropylstannane	2176-98-9	501.15	43.995	1,2	25583	C13H10Cl2	chloro(4-chlorophenyl)phenylmethane	134-83-8	578.15	51.441	2
25393	C12H28Sn	tributyltin hydride	688-73-3	353.15	29.974	1,2	25588	C13H10Cl3N3O2S	((3-amino-2,4,6-trichlorophenyl)methylene) h*	53516-81-7	356.65	30.301	1,2
25394	C12H28Sn	tetrakis(1-methylethyl)stannane	2949-42-0	362.15	30.814	1,2	25589	C13H10F2	4,4'-difluorodiphenylmethane	457-68-1	532.15	46.982	1,2
25395	C12H29NO	tetrapropylammonium hydroxide	4499-86-9	375.15	32.030	1,2	25593	C13H10N2	4-acridinamine	578-07-4	456.65	39.735	1,2
25397	C12H29N3	bis(6-aminohexyl)amine	143-23-7	437.15	37.880	1,2	25594	C13H10N2	9-acridinamine	90-45-9	561.32	49.806	2
25398	C12H29N3	N,N,N',N'-tetraethyldiethylenetriamine	123-12-6	405.65	34.898	1,2	25595	C13H10N2	N,N'-diphenylcarbodiimide	622-16-2	604.15	53.976	1,2
25402	C12H30Ge2	hexaethyldigermanium	993-62-4	492.15	43.130	1,2	25596	C13H10N2	diphenylcyanamide	27779-01-7	561.32	49.806	2
25405	C12H30OSi2	hexaethyldisiloxane	994-49-0	506.15	44.475	1,2	25597	C13H10N2	2-methylphenazine	1016-94-0	623.15	55.834	1,2
25406	C12H30OSi2	1,1,3,3-tetraisopropyldisiloxane	18043-71-5	506.15	44.475	2	25598	C13H10N2	1-phenyl-1H-benzimidazole	2622-60-8	561.32	49.806	2
25407	C12H30OSn2	hexaethyldistannoxane	1112-63-6	545.05	48.229	1,2	25600	C13H10N2	5-methyl-1,10-phenanthroline	3002-78-6	561.32	49.806	2
25409	C12H30O13P4	hexaethyl tetraphosphate	757-58-4	423.15	36.552	2	25601	C13H10N2	3-acridinamine	581-29-3	561.32	49.806	2
25413	C12H32O2Si3	1-(trimethylsilyl)-2,3-bis(trimethylsilyloxy*	154557-38-7	455.15	39.592	1,2	25602	C13H10N2	2-aminoacridine	581-28-2	561.32	49.806	2
25414	C12H32O4Si4	2,4,6,8-tetraethyl-2,4,6,8-tetramethylcyclot*	7623-01-0	518.15	45.631	1,2	25603	C13H10N2	4-amino-4'-cyanobiphenyl	4854-84-6	561.32	49.806	2
25420	C12H36O4Si5	dodecamethylpentasiloxane	141-63-9	505.15	44.379	1,2	25604	C13H10N2	1,1'-diphenyldiazomethane	883-40-9	561.32	49.806	2
25421	C12H36O4Si5	tetrakis(trimethylsilyloxy)silane	3555-47-3	505.15	44.379	2	25623	C13H10O	benzophenone	119-61-9	579.24	54.027	1,2
25422	C12H36O6Si6	dodecamethylcyclohexasiloxane	540-97-6	518.15	45.631	1,2	25624	C13H10O	9H-xanthene	92-83-1	584.15	52.025	1,2
25426	C12H4Br6	polybrominated biphenyls	67774-32-7	573.15	50.955	1,2	25625	C13H10O	biphenyl-4-carboxaldehyde	3218-36-8	581.70	51.786	2
25427	C12H4Br6	hexabromobiphenyl	36355-01-8	573.15	50.955	2	25626	C13H10O	9-hydroxyfluorene	1689-64-1	581.70	51.786	2
25436	C13F28	perfluorotridecane	376-03-4	467.65	40.785	1,2	25627	C13H10O2	3-(2-furanyl)-1-phenyl-2-propen-1-one	717-21-5	590.15	52.610	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
25628	C13H10O2	(2-hydroxyphenyl)phenylmethanone	117-99-7	552.88	48.987	2	25759	C13H12N2	(4-methylphenyl)phenyldiazene	949-87-1	585.15	52.123	1,2
25629	C13H10O2	trans-3-(1-naphthyl)-2-propenoic acid	2006-14-6	552.88	48.987	2	25760	C13H12N2	benzophenone hydrazone	5350-57-2	585.15	52.123	2
25630	C13H10O2	3-phenoxybenzaldehyde	39515-51-0	552.88	48.987	2	25761	C13H12N2	benzaldehyde, phenylhydrazone	588-64-7	585.15	52.123	2
25631	C13H10O2	phenyl benzoate	93-99-2	587.15	52.317	1,2	25762	C13H12N2O	benzo-2-phenylhydrazide	532-96-7	587.15	52.317	1,2
25632	C13H10O2	o-phenylbenzoic acid	947-84-2	616.65	55.197	1,2	25763	C13H12N2O	3,3'-diaminobenzophenone	611-79-0	578.48	51.474	2
25633	C13H10O2	[1,1'-biphenyl]-4-carboxylic acid	92-92-2	552.88	48.987	2	25764	C13H12N2O	N,N'-diphenylurea	102-07-8	535.15	47.271	1,2
25634	C13H10O2	4-hydroxybenzophenone	1137-42-4	552.88	48.987	2	25765	C13H12N2O	N,N-diphenylurea	603-54-3	578.48	51.474	2
25635	C13H10O2	3-hydroxybenzophenone	13020-57-0	552.88	48.987	2	25766	C13H12N2O	7-methoxy-1-methyl-9H-pyrido[3,4-b]indole	442-51-3	578.48	51.474	2
25636	C13H10O2	4-phenoxybenzaldehyde	67-36-7	552.88	48.987	2	25767	C13H12N2O	(2-methoxyphenyl)phenyldiazene	6319-21-7	578.48	51.474	2
25637	C13H10O2	xanthydrol	90-46-0	417.55	36.022	1,2	25768	C13H12N2O	(3-methoxyphenyl)phenyldiazene	34238-81-8	578.48	51.474	2
25639	C13H10O3	1,5-di-2-furanyl-1,4-pentadien-3-one	886-77-1	591.28	52.719	2	25769	C13H12N2O	(4-methoxyphenyl)phenyldiazene	2396-60-3	613.15	54.855	1,2
25640	C13H10O3	2,2'-dihydroxybenzophenone	835-11-0	606.15	54.171	1,2	25770	C13H12N2O	4-methyl-2-(phenylazo)phenol	952-47-6	578.48	51.474	2
25641	C13H10O3	4,4'-dihydroxybenzophenone	611-99-4	591.28	52.719	2	25771	C13H12N2O	2-aminobenzanilide	4424-17-3	578.48	51.474	2
25642	C13H10O3	(2,4-dihydroxyphenyl)phenylmethanone	131-56-6	591.28	52.719	2	25772	C13H12N2O	3,4-diaminobenzophenone	39070-63-8	578.48	51.474	2
25643	C13H10O3	phenyl carbonate	102-09-0	579.15	51.539	1,2	25773	C13H12N2O	benzylphenyl nitrosamine	612-98-6	578.48	51.474	2
25644	C13H10O3	2-phenoxybenzoic acid	2243-42-7	628.15	56.323	1,2	25774	C13H12N2O	5-cyano-3-indolyl isopropyl ketone	17380-21-1	578.48	51.474	2
25645	C13H10O3	phenyl salicylate	118-55-8	591.28	52.719	2	25789	C13H12N4O3	pyriminil	53558-25-1	396.65	34.050	1,2
25646	C13H10O3	3,4-dihydroxybenzophenone	10425-11-3	591.28	52.719	2	25791	C13H12O	2-benzylphenol	28994-41-4	585.15	52.123	1,2
25647	C13H10O3	4'-hydroxy-4-biphenylcarboxylic acid	58574-03-1	591.28	52.719	2	25792	C13H12O	4-benzylphenol	101-53-1	595.15	53.097	1,2
25648	C13H10O3	4-phenoxybenzoic acid	2215-77-2	591.28	52.719	2	25793	C13H12O	benzyl phenyl ether	946-80-5	559.65	49.644	1,2
25649	C13H10O3	3-phenoxybenzoic acid	3739-38-6	591.28	52.719	2	25794	C13H12O	2-methoxy-1,1'-biphenyl	86-26-0	547.15	48.432	1,2
25650	C13H10O3	3-phenylsalicylic acid	304-06-3	591.28	52.719	2	25795	C13H12O	4-methoxy-1,1'-biphenyl	613-37-6	547.45	48.461	2
25651	C13H10O3	resorcinol monobenzoate	136-36-7	591.28	52.719	2	25796	C13H12O	1-methyl-2-phenoxybenzene	3991-61-5	536.65	47.416	1,2
25652	C13H10O3	4,5'-dimethyl angelicin	4063-41-6	551.65	48.868	1,2	25797	C13H12O	1-methyl-3-phenoxybenzene	3586-14-9	545.15	48.239	1,2
25653	C13H10O3	4,9-dimethyl-2H-furo(2,3-h)(1)benzopyran-2-o*	22975-76-4	591.28	52.719	2	25798	C13H12O	diphenylmethanol	91-01-0	571.15	50.761	1,2
25658	C13H10S	diphenylmethanethione	1450-31-3	592.65	52.853	2	25799	C13H12O	1-(1-naphthyl)-1-propanone	2876-63-3	579.15	51.539	1,2
25659	C13H10S	9H-thioxanthene	261-31-4	614.15	54.953	1,2	25800	C13H12O	1-(2-naphthyl)-1-propanone	6315-96-4	586.15	52.220	1,2
25660	C13H10S	4-methyldibenzothiophene	7372-88-5	571.15	50.761	1,2	25801	C13H12O	1,2,3,4-tetrahydro-9H-fluoren-9-one	634-19-5	547.45	48.461	2
25668	C13H11Cl	1-chloro-4-benzylbenzene	831-81-2	572.15	50.858	1,2	25802	C13H12O	2-biphenylmethanol	2928-43-0	369.15	31.468	1,2
25669	C13H11Cl	2-chloro-2'-methylbiphenyl	19493-31-3	549.15	48.626	1,2	25803	C13H12O	4-biphenylmethanol	3597-91-9	547.45	48.461	2
25670	C13H11Cl	chlorodiphenylmethane	90-99-3	560.65	49.741	2	25804	C13H12O	6-methoxy-2-vinylnaphthalene	63444-51-9	547.45	48.461	2
25671	C13H11Cl	3-chloro-2-methylbiphenyl	20261-24-9	560.65	49.741	2	25805	C13H12O2	2-benzyl-1,4-benzenediol	1706-73-6	522.48	46.049	2
25672	C13H11Cl	4-chloromethylbiphenyl	1667-11-4	560.65	49.741	2	25806	C13H12O2	bis(4-hydroxyphenyl)methane	620-92-8	522.48	46.049	2
25683	C13H11N	3-methyl-9H-carbazole	4630-20-0	638.15	57.304	1,2	25807	C13H12O2	3,3'-dihydroxydiphenylmethane	10193-50-7	522.48	46.049	2
25684	C13H11N	9-methylcarbazole	1484-12-4	616.79	55.211	1,2	25808	C13H12O2	2-ethoxy-1-naphthalenecarboxaldehyde	19523-57-0	522.48	46.049	2
25685	C13H11N	alpha-phenylbenzenemethanimine	1013-88-3	555.15	49.207	1,2	25809	C13H12O2	ethyl 1-naphthalenecarboxylate	3007-97-4	583.15	51.928	1,2
25686	C13H11N	N-(phenylmethylene)aniline	538-51-2	583.15	51.928	1,2	25810	C13H12O2	ethyl 2-naphthalenecarboxylate	3007-91-8	581.65	51.782	1,2
25687	C13H11N	cis-2-(2-phenylvinyl)pyridine	1519-59-1	598.28	53.402	2	25811	C13H12O2	1-methoxy-2-phenoxybenzene	1695-04-1	561.15	49.789	1,2
25688	C13H11N	trans-2-(2-phenylvinyl)pyridine	538-49-8	598.15	53.390	1,2	25812	C13H12O2	1-naphthalenepropanoic acid	3243-42-3	522.48	46.049	2
25689	C13H11N	trans-4-(2-phenylvinyl)pyridine	5097-93-8	598.28	53.402	2	25813	C13H12O2	2-(phenylmethoxy)phenol	6272-38-4	522.48	46.049	2
25690	C13H11N	2-aminofluorene	153-78-6	598.28	53.402	2	25814	C13H12O2	3-(phenylmethoxy)phenol	3769-41-3	522.48	46.049	2
25691	C13H11N	fluoren-9-amine	525-03-1	598.28	53.402	2	25815	C13H12O2	4-(phenylmethoxy)phenol	103-16-2	522.48	46.049	2
25692	C13H11N	acridan	92-81-9	598.28	53.402	2	25816	C13H12O2	2-acetyl-6-methoxynaphthalene	3900-45-6	522.48	46.049	2
25693	C13H11NO	N,N-diphenylformamide	607-00-1	610.65	54.611	1,2	25817	C13H12O2	3-phenoxybenzyl alcohol	13826-35-2	410.65	35.370	1,2
25694	C13H11NO	N-phenylbenzamide	93-98-1	548.60	48.572	2	25818	C13H12O2	1-naphthaleneacetic acid, methyl ester	2876-78-0	429.15	37.121	1,2
25695	C13H11NO	2-[(phenylimino)methyl]phenol	779-84-0	548.60	48.572	2	25819	C13H12O2	4-benzyl resorcinol	2284-30-2	569.15	50.566	1,2
25696	C13H11NO	4-aminobenzophenone	1137-41-3	548.60	48.572	2	25821	C13H12O2S2	o-toluenethiosulfonic acid, s-phenyl ester	96097-69-7	514.75	45.303	1,2
25697	C13H11NO	2-aminobenzophenone	2835-77-0	553.15	49.014	1,2	25822	C13H12O3	ethyl 3-hydroxy-2-naphthalenecarboxylate	7163-25-9	564.15	50.081	1,2
25698	C13H11NO	4-biphenylcarboxamide	3815-20-1	548.60	48.572	2	25823	C13H12O3	euparin	532-48-9	564.15	50.081	2
25699	C13H11NO	carbazol-9-yl-methanol	2409-36-1	548.60	48.572	2	25824	C13H12O3	6-hydroxy-2-naphthalenepropanoic acid	553-39-9	564.15	50.081	2
25700	C13H11NO	(R)-(-)-1-(1-naphthyl)ethyl isocyanate	42340-98-7	548.60	48.572	2	25825	C13H12O3	2-ethoxynaphthoic acid	2224-00-2	564.15	50.081	2
25701	C13H11NO	(S)-(+)-1-(1-naphthyl)ethyl isocyanate	73671-79-1	548.60	48.572	2	25826	C13H12O3	2,5-dimethyl-3-furyl p-hydroxyphenyl ketone	4568-81-4	564.15	50.081	2
25702	C13H11NO	benzenamine, N-(phenylmethylene)-, N-oxide	1137-96-8	548.60	48.572	2	25827	C13H12S	(benzylthio)benzene	831-91-4	581.40	51.758	2
25703	C13H11NO	benzophenone oxime	574-66-3	548.60	48.572	2	25828	C13H12S	1-methyl-2-(phenylthio)benzene	13963-35-4	580.15	51.636	1,2
25704	C13H11NO	3-fluorenylhydroxylamine	51029-30-2	548.60	48.572	2	25829	C13H12S	1-methyl-3-(phenylthio)benzene	13865-48-0	582.65	51.879	1,2
25705	C13H11NO	N-hydroxy-2-aminofluorene	53-94-1	548.60	48.572	2	25830	C13H12S	1-methyl-4-(phenylthio)benzene	3699-01-2	581.40	51.758	2
25706	C13H11NO	1-(2-naphthoyl)-aziridine	63021-45-4	481.99	42.156	1,2	25844	C13H13ClSi	chloromethyldiphenylsilane	144-79-6	568.15	50.469	1,2
25707	C13H11NO2	benzyl 3-pyridinecarboxylate	94-44-0	504.40	44.307	2	25850	C13H13IO8	dess-martin periodinane	87413-09-0	313.15	26.266	1,2
25708	C13H11NO2	2-hydroxy-N-phenylbenzamide	87-17-2	504.40	44.307	2	25851	C13H13N	p-benzylaniline	1135-12-2	573.15	50.955	1,2
25709	C13H11NO2	2-(phenylamino)benzoic acid	91-40-7	504.40	44.307	2	25852	C13H13N	N-benzylaniline	103-32-2	579.65	51.587	1,2
25710	C13H11NO2	N-phenylbenzohydroxamic acid	304-88-1	504.40	44.307	2	25853	C13H13N	3-methyl-N-phenylaniline	1205-64-7	589.15	52.512	1,2
25711	C13H11NO2	2-amino-3-methoxydiphenylene oxide	951-39-3	504.40	44.307	2	25854	C13H13N	3-methyl-[1,1'-biphenyl]-4-amine	63019-98-7	582.29	51.844	2
25712	C13H11NO2	4-(p-hydroxyanilino)benzaldehyde	69766-36-5	503.65	44.235	1,2	25855	C13H13N	4'-methyl-[1,1'-biphenyl]-4-amine	1204-78-0	582.29	51.844	2
25713	C13H11NO2	N-hydroxy-4-formylaminobiphenyl	78281-06-8	505.15	44.379	1,2	25856	C13H13N	6-methyl-[1,1'-biphenyl]-2-amine	76472-83-8	628.15	56.323	1,2
25714	C13H11NO2	2-methoxy-3-aminodibenzofuran	5834-17-3	504.40	44.307	2	25857	C13H13N	methyldiphenylamine	552-82-9	566.65	50.323	1,2
25715	C13H11NO2	3-(4-methoxybenzoyl)pyridine	23826-71-3	504.40	44.307	2	25858	C13H13N	alpha-phenylbenzenemethanamine	91-00-9	577.15	51.344	1,2
25716	C13H11NO2	p-methoxyphenyl 2-pyridyl ketone	6305-18-6	504.40	44.307	2	25859	C13H13N	2-(2-phenylethyl)pyridine	2116-62-3	562.15	49.886	1,2
25717	C13H11NO2	p-methoxyphenyl 4-pyridyl ketone	14548-47-1	504.40	44.307	2	25860	C13H13N	2-benzylaniline	28059-64-5	582.29	51.844	2
25738	C13H12	diphenylmethane	101-81-5	537.42	49.941	1,2	25861	C13H13N	4-methyl-N-phenylbenzenamine	620-84-8	582.29	51.844	2
25739	C13H12	1-methylbiphenyl	28652-72-4	528.45	46.624	1,2	25862	C13H13N	2-methyl-4-aminodiphenyl	63019-97-6	582.29	51.844	2
25740	C13H12	3-methylbiphenyl	643-93-6	545.85	48.306	1,2	25870	C13H13NO2	(S)-(-)-2-amino-3-(1-naphthyl)propanoic acid	55516-54-6	538.15	47.561	2
25741	C13H12	4-methylbiphenyl	644-08-6	543.15	48.045	1,2	25871	C13H13NO2	(3R-cis)-2,3-dihydro-7a-methyl-3-phenylpyrro*	211240-56-1	538.15	47.561	2
25742	C13H12	2-methylbiphenyl	643-58-3	528.65	46.921	1,2	25872	C13H13NO2	(3S-cis)-2,3-dihydro-7a-methyl-3-phenylpyrro*	143140-06-1	538.15	47.561	2
25743	C13H12	1-allylnaphthalene	2489-86-3	539.15	47.658	1,2	25873	C13H13NO2	ethyl 2-cyano-3-phenyl-2-butenoate	18300-89-5	538.15	47.561	2
25744	C13H12	2,3-dihydro-1H-benz[e]indene	4944-94-9	567.65	50.421	1,2	25874	C13H13NO2	3-(2-naphthyl)-L-alanine	58438-03-2	538.15	47.561	2
25745	C13H12	methylbiphenyl	28652-72-4	536.65	49.554	1,2	25875	C13H13NO2	3-(2-naphthyl)-D-alanine	76985-09-6	538.15	47.561	2
25750	C13H12Cl2N2OPt	(4-benzoyl-o-phenylenediammine)dichloroplati*	72596-00-0	458.15	39.878	1,2	25876	C13H13NO2	3-hydroxy-4'-methoxy-4-aminodiphenyl	63040-24-4	538.15	47.561	1,2
25756	C13H12N2	N,N'-diphenylmethanimidamide	622-15-1	585.15	52.123	2	25877	C13H13NO2	1-(4-hydroxy-2-methyl-5-phenyl-1H-pyrrol-3-y*	91480-97-6	538.15	47.561	2
25757	C13H12N2	9H-fluorene-2,7-diamine	525-64-4	585.15	52.123	2	25882	C13H13N3	N,N'-diphenylguanidine	102-06-7	443.15	38.450	2
25758	C13H12N2	(3-methylphenyl)phenyldiazene	17478-66-9	585.15	52.123	2	25883	C13H13N3	3-ethylamino-5H-pyrido(4,3-b)indole	102206-99-5	451.48	39.243	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
25884	C13H13N3	N-methyl-p-(phenylazo)aniline	621-90-9	451.48	39.243	2	26034	C13H15N3O5	4-(isonicotinoylhydrazone)pimelic acid	63041-19-0	582.15	51.831	1,2
25885	C13H13N3	p-(3-methylphenylazo)aniline	722-23-6	428.15	37.026	1,2	26040	C13H16	1-ethynyl-4-pentylbenzene	79887-10-8	445.15	38.640	1,2
25886	C13H13N3	p-(p-tolylazo)-aniline	722-25-8	451.48	39.243	2	26041	C13H16	1-phenyl-1-heptyne	14374-45-9	445.15	38.640	2
25887	C13H13N3	tryptophan P1	62450-06-0	483.15	42.268	1,2	26045	C13H16Cl2N6O4	1,1'-(4-methyl-1,3-phenylene)bis(3-(2-chloro*	56713-63-4	486.65	42.603	1,2
25888	C13H13N3O	4,4-diphenylsemicarbazide	603-51-0	568.60	50.513	2	26046	C13H16Cl3NO3	N-(L-butoxy-2,2,2-trichloroethyl)salicylamide	70193-21-4	442.65	38.402	1,2
25889	C13H13N3O	2',4-diaminobenzanilide	58338-59-3	568.60	50.513	2	26086	C13H16O2	cyclohexyl benzoate	2412-73-9	558.15	49.498	1,2
25890	C13H13N3O	N-hydroxy-N-methyl-4-aminoazobenzene	1910-36-7	579.55	51.577	1,2	26087	C13H16O2	(3,3-diethoxy-1-propynyl)benzene	6142-95-6	482.28	42.184	2
25891	C13H13N3O	2-methoxy-4-phenylazoaniline	3544-23-8	557.65	49.450	1,2	26088	C13H16O2	2,3:4,5-di(2-butenyl)tetrahydrofurfural	126-15-8	580.15	51.636	1,2
25892	C13H13N3O2	N-hydroxy-3-methoxy-4-aminoazobenzene	78265-95-9	605.15	54.073	1,2	26089	C13H16O2	1-hydroxycyclohexyl phenyl ketone	947-19-3	482.28	42.184	2
25893	C13H13N3O2	1-methyl-5-nitro-2-(2-phenyl-1-propenyl)-1H-*	105555-81-5	605.15	54.073	2	26090	C13H16O2	2-(3-methoxyphenyl)cyclohexanone	15547-89-4	482.28	42.184	2
25902	C13H13P	methyldiphenylphosphine	1486-28-8	556.15	49.304	1,2	26091	C13H16O2	1-phenyl-1-cyclohexanecarboxylic acid	1135-67-7	482.28	42.184	2
25903	C13H14	1-propylnaphthalene	2765-18-6	545.96	51.405	1,2	26092	C13H16O2	a-phenylcyclopentaneacetic acid	3900-93-4	482.28	42.184	2
25904	C13H14	2-propylnaphthalene	2027-19-2	546.66	51.472	1,2	26093	C13H16O2	1-(p-tolyl)-1-cyclopentanecarboxylic acid	80789-75-9	482.28	42.184	2
25905	C13H14	1-isopropylnaphthalene	6158-45-8	540.94	47.831	1,2	26094	C13H16O2	vinyl 4-tert-butylbenzoate	15484-80-7	482.28	42.184	2
25906	C13H14	2-isopropylnaphthalene	2027-17-0	541.35	47.871	1,2	26095	C13H16O2	n-butyl cinnamate	538-65-8	482.28	42.184	2
25907	C13H14	1-methyl-2-ethylnaphthalene	25607-16-3	549.15	48.626	1,2	26096	C13H16O2	cinnamyl butyrate	103-61-7	457.55	39.821	1,2
25908	C13H14	1-methyl-3-ethylnaphthalene	17179-41-8	546.15	48.336	1,2	26097	C13H16O2	cinnamyl isobutyrate	103-59-3	402.15	34.568	1,2
25909	C13H14	1-methyl-4-ethylnaphthalene	27424-87-9	547.15	48.432	1,2	26098	C13H16O2	cis-3-hexenyl benzoate	25152-85-6	418.15	36.079	1,2
25910	C13H14	1-methyl-5-ethylnaphthalene	17057-92-0	543.15	48.045	1,2	26099	C13H16O2	isobutyl cinnamate	122-67-8	416.65	35.937	1,2
25911	C13H14	1-methyl-6-ethylnaphthalene	17059-53-9	546.15	48.336	1,2	26100	C13H16O2	phenylethyl-a-methylbutenoate	55719-85-2	543.15	48.045	1,2
25912	C13H14	1-methyl-7-ethylnaphthalene	2451-00-5	544.15	48.142	1,2	26101	C13H16O2	propylene glycol-sec-butyl phenyl ether	---	482.28	42.184	2
25913	C13H14	1-methyl-8-ethylnaphthalene	61886-71-3	548.15	48.529	1,2	26102	C13H16O3	ethyl 2-benzoylbutanoate	24346-56-3	501.78	44.055	2
25914	C13H14	2-methyl-1-ethylnaphthalene	---	546.15	48.336	1,2	26103	C13H16O3	tert-butyl 4-vinylphenyl carbonate	87188-51-0	460.15	40.069	1,2
25915	C13H14	2-methyl-3-ethylnaphthalene	31032-94-7	550.16	51.647	1,2	26104	C13H16O3	ethyl 2-benzylacetoacetate	620-79-1	549.15	48.626	1,2
25916	C13H14	2-methyl-4-ethylnaphthalene	17057-94-2	547.15	48.432	1,2	26105	C13H16O3	1-(4-methoxyphenyl)-1-cyclopentanecarboxylic*	43050-28-8	501.78	44.055	2
25917	C13H14	2-methyl-5-ethylnaphthalene	---	543.15	48.045	1,2	26106	C13H16O3	precocene ii	644-06-4	420.65	36.315	1,2
25918	C13H14	2-methyl-6-ethylnaphthalene	7372-86-3	543.16	50.990	1,2	26107	C13H16O3	4-(vinyloxy)butyl benzoate	144429-21-0	577.15	51.344	1,2
25919	C13H14	2-methyl-7-ethylnaphthalene	17059-55-1	543.16	50.990	1,2	26108	C13H16O3	phenacylpivalate	2522-81-8	501.78	44.055	2
25920	C13H14	2-methyl-8-ethylnaphthalene	---	543.15	48.045	1,2	26109	C13H16O3	salicylic acid 3-hexen-1-yl ester	65405-77-8	501.78	44.055	2
25921	C13H14	1,2,3-trimethylnaphthalene	879-12-9	556.15	49.304	1,2	26110	C13H16O4	diethyl dipropargylmalonate	2689-88-5	478.15	41.789	2
25922	C13H14	1,2,4-trimethylnaphthalene	2717-42-2	555.15	49.207	1,2	26111	C13H16O4	diethyl phenylmalonate	83-13-6	478.15	41.789	2
25923	C13H14	1,2,5-trimethylnaphthalene	641-91-8	553.15	49.014	1,2	26112	C13H16O5	ethyl 4-(cyclopropylhydroxymethylene)-3,5-di*	95266-40-3	543.15	48.045	1,2
25924	C13H14	1,2,6-trimethylnaphthalene	3031-05-8	553.15	49.014	1,2	26113	C13H16O5	phenylglyceryl ether diacetate	7250-71-7	543.15	48.045	2
25925	C13H14	1,2,7-trimethylnaphthalene	486-34-0	551.15	48.820	1,2	26123	C13H17NO	4-benzoyl-N-methylpiperidine	92040-00-1	408.65	35.181	2
25926	C13H14	1,2,8-trimethylnaphthalene	3876-97-9	558.15	49.498	1,2	26124	C13H17NO	1-benzyl-3-methyl-4-piperidone	34737-89-8	408.65	35.181	2
25927	C13H14	1,3,5-trimethylnaphthalene	2131-39-7	557.65	49.450	1,2	26125	C13H17NO	2,6-diisopropylphenyl isocyanate	28178-42-9	390.15	33.438	1,2
25928	C13H14	1,3,6-trimethylnaphthalene	3031-08-1	553.15	49.014	1,2	26126	C13H17NO	N-ethyl-o-crotonotoluidide; predominantly tr*	483-63-6	427.15	36.931	1,2
25929	C13H14	1,3,7-trimethylnaphthalene	2131-38-6	553.15	49.014	1,2	26127	C13H17NO	1-(b-phenethyl)-4-piperidone	39742-60-4	408.65	35.181	2
25930	C13H14	1,3,8-trimethylnaphthalene	17057-91-9	558.15	49.498	1,2	26128	C13H17NO	4-piperidinoacetophenone	10342-85-5	408.65	35.181	2
25931	C13H14	1,4,5-trimethylnaphthalene	2131-41-1	558.15	49.498	1,2	26129	C13H17NO	bicyclo(4.2.0)octa-1,3,5-trien-7-yl pentyl k*	73747-51-0	408.65	35.181	2
25932	C13H14	1,4,6-trimethylnaphthalene	2131-42-2	551.15	48.820	1,2	26137	C13H17NO4	diethyl 2,6-dimethyl-3,5-pyridinedicarboxyla*	1149-24-2	574.15	51.052	1,2
25933	C13H14	1,6,7-trimethylnaphthalene	2245-38-7	553.15	49.014	1,2	26138	C13H17NO4	DL-N-benzoyl-2-isopropylserine	52421-46-2	574.15	51.052	2
25934	C13H14	2,3,6-trimethylnaphthalene	829-26-5	550.15	48.723	1,2	26139	C13H17NO4	N-carbobenzyloxy-L-valine	1149-26-4	574.15	51.052	2
25947	C13H14F3N3O4	ethalfluralin	55283-68-6	529.15	46.692	2	26140	C13H17NO4	6,7-dimethoxy-1,2,3,4-tetrahydro-1-isoquinol*	---	574.15	51.052	2
25950	C13H14N2	4,4'-diaminodiphenylmethane	101-77-9	671.15	60.548	1,2	26141	C13H17NO4	N-(p-butoxyphenyl acetyl)-o-formylhydroxylam*	76790-19-7	574.15	51.052	2
25951	C13H14N2	3-methylhydrazobenzene	621-25-0	671.15	60.548	2	26142	C13H17NO4	2-(4,5-dimethyl-1,3-dioxolan-2-yl)phenyl-N-m*	7122-04-5	574.15	51.052	2
25952	C13H14N2	2,4'-methylenedianiline	1208-52-2	671.15	60.548	2	26143	C13H17NO4	2-acetylamino-3-(4-hydroxyphenyl)-propanoic *	840-97-1	574.15	51.052	2
25953	C13H14N2	tetrahydroaminocrine	321-64-2	671.15	60.548	2	26144	C13H17NO4	isocinchomeronic acid, diisopropyl ester	3737-22-2	574.15	51.052	2
25954	C13H14N2O	alpha-[(2-pyridinylamino)methyl]benzenemetha*	553-69-5	525.65	46.354	2	26145	C13H17NO4S	N-acetyl-S-(2-hydroxyphenylethyl)-L-cysteine	152155-79-8	557.15	49.401	2
25955	C13H14N2O	p-anisyl(2-pyridyl)amine	52818-63-0	525.65	46.354	1,2	26146	C13H17NO4S	N,N-diglycidyl-p-toluenesulphonamide	63040-98-2	557.15	49.401	2
25956	C13H14N2O	N-(p-methoxyphenyl)-p-phenylenediamine	101-64-4	525.65	46.354	2	26158	C13H18	1-propyl-[1,2,3,4-tetrahydronaphthalene]	66324-83-2	529.55	46.730	1,2
25957	C13H14N2O	p-(4-amino-m-toluidino)phenol	6219-89-2	525.65	46.354	2	26159	C13H18	2-propyl-[1,2,3,4-tetrahydronaphthalene]	66324-84-3	534.15	47.175	1,2
25973	C13H14N4	C.I. basic orange 1	5042-54-6	392.65	33.673	1,2	26160	C13H18	1,2,3,4-tetrahydro-1,1,6-trimethylnaphthalene	475-03-6	513.15	42.066	1,2
25974	C13H14N4	2-methyl-4-(phenylazo)-1,3-benzenediamine	84434-42-4	452.90	39.378	2	26161	C13H18	2,3-dihydro-1,1,4,7-tetramethyl-1H-indene	1078-04-2	525.62	46.351	2
25975	C13H14N4	pyridine-3-azo-p-dimethylaniline	156-25-2	513.15	45.149	1,2	26162	C13H18	2,3-dihydro-1,1,4,6-tetramethyl-1H-indene	941-60-6	525.62	46.351	2
25976	C13H14N4	pyridine-4-azo-p-dimethylaniline	63019-82-9	452.90	39.378	2	26163	C13H18	1,2,3,4-tetrahydro-2,5,8-trimethylnaphthalene	30316-17-7	525.62	46.351	2
25977	C13H14N4O	2,2'-diphenylcarbonic dihydrazide	140-22-7	553.65	49.062	2	26164	C13H18	verdoracine	14374-92-6	525.62	46.351	2
25978	C13H14N4O	4-phenylsemicarbazone 1-methyl-1H-pyrrole-2-*	119034-15-0	553.65	49.062	2	26166	C13H18ClNO	4'-chloro-2,2-dimethylvaleranilide	7287-36-7	483.15	42.268	1,2
25979	C13H14N4O	pyridine-1-oxide-3-azo-p-dimethylaniline	59405-47-9	553.65	49.062	2	26167	C13H18ClNO	solan	2307-68-8	483.15	42.268	2
25980	C13H14N4O	pyridine-1-oxide-4-azo-p-dimethylaniline	13520-96-2	553.65	49.062	2	26168	C13H18ClNO2	2,6-dimethyl-N-(2-methoxyethyl)chloroacetani*	50563-36-5	593.15	52.902	1,2
25981	C13H14N4O	1-((1,2,4-benzotriazin-3-yl)acetyl)pyrrolidi*	80722-69-6	553.65	49.062	1,2	26169	C13H18ClNO2	methylcarbamic acid 2-chloro-5-tert-pentylph*	15942-48-0	593.15	52.902	2
25982	C13H14N4OS	4-(m-methoxyphenyl)thiosemicarbazone-1H-pyrr*	126936-19-4	496.15	43.514	1,2	26198	C13H18N2O4S2	allylmercaptomethylpenicillin	87-09-2	500.35	43.918	1,2
25983	C13H14N4OS	4-(p-methoxyphenyl)thiosemicarbazone-1H-pyrr*	19015-11-3	496.15	43.514	2	26201	C13H18N4O3	Na-benzoyl-L-arginine	154-92-7	733.15	66.680	2
25987	C13H14N4S	1,5-diphenyl-3-thiocarbohydrazide	622-03-7	454.15	39.497	2	26202	C13H18N4O3	pentoxifylline	6493-05-6	733.15	66.680	1,2
25988	C13H14N4S	4-phenylthiosemicarbazone 1-methyl-1H-pyrrol*	31397-22-5	454.15	39.497	1,2	26206	C13H18O	1-cyclohexyl-2-methoxybenzene	2206-48-6	541.15	47.852	1,2
25989	C13H14O	propyl 1-naphthyl ether	20009-26-1	566.65	50.323	1,2	26207	C13H18O	alpha-methyl-4-isopropylbenzenepropanal	103-95-7	543.15	48.045	1,2
25990	C13H14O	propyl 2-naphthyl ether	19718-45-7	578.15	51.441	1,2	26208	C13H18O	1-phenyl-1-heptanone	1671-75-6	556.45	49.334	1,2
25995	C13H14O3	ethyl 2-benzylideneacetoacetate	620-80-4	569.15	50.566	1,2	26209	C13H18O	bourgeonal	18127-01-0	485.61	42.503	2
25996	C13H14O3	3-(3-phenylpropyl)-4-hydroxy-2(5H)furanone	78128-85-5	569.15	50.566	2	26210	C13H18O	cyclohexylhydroxymethylbenzene	95719-26-9	433.65	37.547	1,2
26000	C13H14O6	methyl phthalyl ethyl glycolate	85-71-2	583.15	51.928	1,2	26211	C13H18O	ethyl dimethylhydrocinnamaldehyde	67634-15-5	353.65	30.021	1,2
26008	C13H15N	2-butylquinoline	7661-39-4	555.15	49.207	1,2	26212	C13H18O2	[(4-tert-butylphenoxy)methyl]oxirane	3101-60-8	463.18	40.357	2
26009	C13H15N	(R)-(+)-N-methyl-1-(1-naphthyl)ethylamine	15297-33-3	534.15	47.175	1,2	26213	C13H18O2	hexyl benzoate	6789-88-4	545.15	48.239	1,2
26010	C13H15N	(S)-(-)-N-methyl-1-(1-naphthyl)ethylamine	20218-55-7	476.15	41.597	1,2	26214	C13H18O2	a-(tert-butyl)hydrocinnamic acid	53483-12-8	463.18	40.357	2
26011	C13H15N	1-(4-methylphenyl)cyclopentane-1-carbonitrile	68983-70-0	521.82	45.984	2	26215	C13H18O2	4-hexylbenzoic acid	21643-38-9	463.18	40.357	2
26012	C13H15N	1-phenyl-1-cyclohexanecarbonitrile	2201-23-2	521.82	45.984	2	26216	C13H18O2	4-(hexyloxy)benzaldehyde	5736-94-7	463.18	40.357	2
26013	C13H15N	a-isobutylquinoline	93-19-6	521.82	45.984	2	26217	C13H18O2	ibuprofen	15687-27-1	463.18	40.357	2
26014	C13H15NO	3-isopropenyl-a,a-dimethylbenzyl isocyanate	2094-99-7	542.65	47.997	1,2	26218	C13H18O2	(S)-(+)-ibuprofen	51146-56-6	463.18	40.357	2
26015	C13H15NO	bicyclo(4.2.0)octa-1,3,5-trien-7-yl methyl k*	6813-95-2	542.65	47.997	2	26219	C13H18O2	isobutyric acid, 3-phenylpropyl ester	103-58-2	544.75	48.200	1,2
26016	C13H15NO	fischers aldehyde	84-83-3	542.65	47.997	2	26220	C13H18O2	phenylethyl isovalerate	140-26-1	463.18	40.357	2
26017	C13H15NO	1-(1-isocyanato-1-methylethyl)-4-(1-methylet*	2889-58-9	542.65	47.997	2	26221	C13H18O2	2-phenylpropyl butyrate	80866-83-7	463.18	40.357	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
26222	C13H18O2	2-phenylpropyl isobutyrate	65813-53-8	463.18	40.357	2	26396	C13H23NO	1-(cyclohexylcarbonyl)-3-methylpiperidine	63441-20-3	393.15	33.720	2
26223	C13H18O2	2-(hexyloxy)benzaldehyde	7162-59-6	403.15	34.662	1,2	26402	C13H24	1-tridecyne	26186-02-7	507.16	46.673	1,2
26224	C13H18O2	dimethyl benzyl carbinyl propionate	67785-77-7	463.18	40.357	2	26403	C13H24	2-tridecyne	28467-75-6	518.15	45.631	1,2
26225	C13H18O2	isoamyl phenylacetate	102-19-2	359.65	30.581	1,2	26404	C13H24	3-tridecyne	60186-78-9	511.15	44.956	1,2
26226	C13H18O2	2-methyl-4-phenyl-2-butyl acetate	103-07-1	463.18	40.357	2	26405	C13H24	dicyclohexylmethane	3178-23-2	525.95	46.383	1,2
26227	C13H18O2	phenethyl 2-methylbutyrate	24817-51-4	463.18	40.357	2	26406	C13H24	1-octylcyclopentene	52315-44-3	510.15	44.860	1,2
26228	C13H18O2	2-phenethyl 2-methylbutyrate	---	463.18	40.357	2	26407	C13H24MnN2O7	manganese g-aminobutyratopantothenate	85625-90-7	428.65	37.073	1,2
26229	C13H18O2	tricyclodecenyl propionate	17511-60-3	463.18	40.357	2	26412	C13H24N2S	dicyclohexyl thiourea	1212-29-9	443.15	38.450	1,2
26230	C13H18O3	isopentyl alpha-hydroxybenezeneacetate	5421-04-5	423.15	36.552	2	26415	C13H24O	cyclotridecanone	832-10-0	380.15	32.499	2
26231	C13H18O3	1-benzyl-2,3-isopropylidene-rac-glycerol	15028-56-5	423.15	36.552	2	26416	C13H24O	dicyclohexylmethanol	4453-82-1	380.15	32.499	2
26232	C13H18O3	3,5-diisopropylsalicylic acid	2215-21-6	423.15	36.552	2	26417	C13H24O	isobutyl linalol	56105-46-5	393.15	33.720	1,2
26233	C13H18O3	4-(hexyloxy)benzoic acid	1142-39-8	423.15	36.552	1,2	26418	C13H24O	6-isopropyldecalol	34131-99-2	367.15	31.281	1,2
26241	C13H18O7	2-(hydroxymethyl)phenyl-beta-D-glucopyranosi*	138-52-3	513.15	45.149	2	26419	C13H24O	2-tridecenal	7774-82-5	380.15	32.499	2
26246	C13H19N	1-(1-phenylethyl)piperidine	7529-63-7	545.15	48.239	1,2	26420	C13H24O2	ethyl 10-undecenoate	692-86-4	537.65	47.513	1,2
26247	C13H19N	1,2,3,4-tetrahydro-2,2,4,7-tetramethylquinol*	59388-58-8	545.18	48.241	2	26421	C13H24O2	methyl 11-dodecenoate	29972-79-0	537.65	47.513	2
26248	C13H19N	1-(2-phenylethyl)piperidine	332-14-9	545.20	48.244	1,2	26422	C13H24O2	isodecyl acrylate	1330-61-6	537.65	47.513	2
26249	C13H19N	b-allyl-N,N-dimethylphenethylamine	33132-87-5	545.18	48.241	2	26423	C13H24O2	2-tridecenoic acid	6969-16-0	575.00	51.135	2
26250	C13H19NO	2-(diethylamino)-1-phenyl-1-propanone	90-84-6	421.15	36.363	2	26424	C13H24O2	12-tridecenoic acid	6006-06-0	575.00	51.135	2
26251	C13H19NO	trans-2-benzylamino-1-cyclohexanol	40571-86-6	421.15	36.363	2	26425	C13H24O2	(2E,6Z)-1,1-diethoxynona-2,6-diene	67674-36-6	537.65	47.513	2
26252	C13H19NO	N,N-diisopropylbenzamide	20383-28-2	421.15	36.363	1,2	26426	C13H24O2	citronellyl propionate	76444-23-(	537.65	47.513	2
26253	C13H19NO	4-methyl-2-(1-piperidinylmethyl)phenol	21236-74-8	421.15	36.363	2	26427	C13H24O2	decyl acrylate	2156-96-9	537.65	47.513	2
26254	C13H19NO	1,2,3,6-tetrahydro-1-((6-methyl-3-cyclohexen*	69462-56-2	421.15	36.363	2	26428	C13H24O2	undecenyl acetate	112-19-6	537.65	47.513	2
26265	C13H19NO3	pellotine	83-14-7	438.15	37.975	2	26434	C13H24O4	diethyl hexylmalonate	5398-10-7	542.15	47.948	1,2
26266	C13H19NO3	3-amino-3-(3-t-butoxyphenyl)propionic acid	---	438.15	37.975	2	26435	C13H24O4	diethyl nonanedioate	624-17-9	564.65	50.129	1,2
26267	C13H19NO3	homocalycotomine	14029-02-8	438.15	37.975	2	26436	C13H24O4	tridecanedioic acid	505-52-2	553.40	49.038	2
26268	C13H19NO3	p-nitrophenyl heptyl ether	13565-36-1	438.15	37.975	1,2	26437	C13H24O4	1,3-nonanediol acetate	39864-15-8	553.40	49.038	2
26269	C13H19NO3	monoglycidyl ether of N-phenyldiethanolamine	63041-07-6	438.15	37.975	2	26439	C13H25Br	cis-1-bromo-1-tridecene	66324-50-3	551.15	48.820	1,2
26270	C13H19NO3	viloxazine	46817-91-8	438.15	37.975	2	26440	C13H25Br	trans-1-bromo-1-tridecene	66324-51-4	551.15	48.820	1,2
26283	C13H20	heptylbenzene	1078-71-3	519.25	47.750	1,2	26442	C13H25Br3	1,1,1-tribromotridecane	62127-70-2	627.15	56.225	1,2
26284	C13H20	1-methyl-2,4-diisopropylbenzene	1460-98-6	497.15	39.993	1,2	26443	C13H25Cl	cis-1-chloro-1-tridecene	66324-52-5	554.15	49.111	1,2
26285	C13H20	1-methyl-3,5-diisopropylbenzene	3055-14-9	489.65	37.695	1,2	26444	C13H25Cl	trans-1-chloro-1-tridecene	66324-53-6	554.15	49.111	1,2
26286	C13H20	[2-methyl-1-isopropylpropyl]benzene	21777-84-4	493.85	38.957	1,2	26445	C13H25Cl3	1,1,1-trichlorotridecane	3922-24-5	586.15	52.220	1,2
26287	C13H20	1,12-tridecadiyne	38628-39-6	498.41	43.732	2	26446	C13H25F	cis-1-fluoro-1-tridecene	66324-54-7	500.27	43.910	2
26288	C13H20	(2,4-dimethylpentyl)benzene	54518-00-2	492.16	38.442	1,2	26447	C13H25F	trans-1-fluoro-1-tridecene	66324-55-8	500.27	43.910	2
26299	C13H20N2O3	diethylaminoethanol-p-aminosalicylate	487-53-6	568.15	50.469	1,2	26448	C13H25F3	1,1,1-trifluorotridecane	62126-98-1	498.15	43.706	1,2
26300	C13H20N2O3	5-ethyl-5-(1-propyl-1-butenyl)barbituric acid	67050-97-9	531.25	46.895	2	26449	C13H25I	cis-1-iodo-1-tridecene	66324-56-9	574.15	51.052	1,2
26301	C13H20N2O3	5-(2-isopentenyl)-5-isopropyl-1-methylbarbit*	67051-27-8	494.35	43.342	1,2	26450	C13H25I	trans-1-iodo-1-tridecene	66324-57-0	574.15	51.052	1,2
26302	C13H20N2O3S	(3-methyl-4-oxo-5-piperidino-2-thiazolidinyl*	73-09-6	504.05	44.273	1,2	26451	C13H25I3	1,1,1-triiodotridecane	---	773.03	70.648	2
26304	C13H20N2O6	actinobolin	24397-89-5	487.55	42.689	1,2	26452	C13H25N	tridecanenitrile	629-60-7	566.15	50.275	1,2
26306	C13H20O	2,4-dimethyl-3-phenyl-3-pentanol	4397-05-1	502.15	44.091	1,2	26453	C13H25N	N,N-dicyclohexylmethylamine	7560-83-0	566.15	50.275	2
26307	C13H20O	alpha,alpha-dipropylbenzenemethanol	4436-96-8	484.92	42.437	2	26457	C13H25NO2	N-nonanoylmorpholine	5299-64-9	398.15	34.191	1,2
26308	C13H20O	alpha-ethylbenzenepentanol	60012-63-7	550.65	48.771	1,2	26458	C13H25NO3	heptyl N,N-diethyloxamate	60254-66-2	424.45	36.675	1,2
26309	C13H20O	alpha-hexylbenzenemethanol	614-54-0	548.15	48.529	1,2	26465	C13H26	octylcyclopentane	1795-20-6	516.86	45.396	1,2
26310	C13H20O	6,10-dimethyl-3,5,9-undecatrien-2-one	141-10-6	484.92	42.437	2	26466	C13H26	heptylcyclohexane	5617-41-4	518.06	44.894	1,2
26311	C13H20O	heptyl phenyl ether	32395-96-3	540.15	47.755	1,2	26467	C13H26	2-butyl-1,1,3-trimethylcyclohexane	54676-39-0	510.52	44.896	2
26312	C13H20O	trans-alpha-ionone, (±)	30685-95-1	484.92	42.437	2	26468	C13H26	cyclotridecane	295-02-3	529.15	46.692	1,2
26313	C13H20O	trans-beta-ionone	79-77-6	484.92	42.437	2	26469	C13H26	1-tridecene	2437-56-1	505.93	46.095	1,2
26314	C13H20O	2-methyl-4-(3-methylpentyl)phenol	882-25-7	484.92	42.437	2	26470	C13H26	2-methyl-1-dodecene	16435-49-7	504.45	44.312	1,2
26315	C13H20O	4-heptylphenol	1987-50-4	429.15	23.588	1,2	26471	C13H26	5-butyl-4-nonene	7367-38-6	488.65	42.795	1,2
26316	C13H20O	a-ionone	127-41-3	404.15	34.756	1,2	26472	C13H26Br2	1,1-dibromotridecane	62168-30-3	598.15	53.390	1,2
26317	C13H20O	b-ionone	14901-07-6	411.15	35.417	1,2	26473	C13H26Br2	1,13-dibromotridecane	31772-05-1	598.15	53.390	2
26318	C13H20O	2-sec-butyl-6-isopropylphenol	74926-97-9	484.92	32.411	2	26474	C13H26Cl2	1,1-dichlorotridecane	821-93-2	572.15	50.858	1,2
26319	C13H20O	o-heptylphenol	5284-22-0	430.15	22.791	1,2	26475	C13H26F2	1,1-difluorotridecane	62127-02-0	509.15	44.764	1,2
26320	C13H20O	ionone	8013-90-9	428.15	37.026	1,2	26476	C13H26I2	1,1-diiodotridecane	66324-43-4	682.68	61.685	2
26321	C13H20O	iritone	67801-38-1	560.15	49.692	1,2	26477	C13H26N2	cis,cis-bis(4-aminocyclohexyl)methane	6693-31-8	597.65	53.341	2
26322	C13H20O	isoamyl phenylethyl ether	56011-02-0	530.15	46.788	1,2	26478	C13H26N2	cis,trans-bis(4-aminocyclohexyl)methane	6693-30-7	597.65	53.341	2
26323	C13H20O2	(-)-carvyl propionate, isomers	97-45-0	352.15	29.881	1,2	26479	C13H26N2	trans,trans-bis(4-aminocyclohexyl)methane	6693-29-4	597.65	53.341	2
26324	C13H20O2	4-heptyloxyphenol	13037-86-0	469.65	40.976	2	26480	C13H26N2	1,3-di-4-piperidylpropane	16898-52-5	602.15	53.780	1,2
26325	C13H20O2	tert-butyl cumyl peroxide	3457-61-2	469.65	40.976	2	26481	C13H26N2	4,4'-methylene-bis-cyclohexylamine	1761-71-3	593.15	52.902	1,2
26326	C13H20O2	bicyclo(2.2.1)heptan-2,5-diol, diallyl ether	22590-50-7	469.65	40.976	2	26482	C13H26N2	1,1'-methylenebis(3-methylpiperidine)	68922-17-8	597.65	53.341	2
26327	C13H20O2	tert-butyl isopropyl benzene hydroperoxide	30026-92-7	540.15	47.755	1,2	26484	C13H26N2O4	tybamate	4268-36-4	508.15	44.668	2
26328	C13H20O2	6,6-dimethyl-2-norpinene-2-ethanol acetate	128-51-8	516.65	45.486	2	26485	C13H26N2O4	N-(tert-butoxycarbonyl)-L-leucine n'-methoxy*	87694-50-6	508.15	44.668	1,2
26329	C13H20O2	1-phenethoxy-1-propoxyethane	7493-57-4	469.65	40.976	2	26486	C13H26O	1-tridecanal	10486-19-8	540.15	51.884	1,2
26331	C13H20O3	octyl 2-furancarboxylate	39251-88-2	513.15	45.149	2	26487	C13H26O	2-tridecanone	593-08-8	535.73	47.328	1,2
26332	C13H20O3	benzyloxyacetaldehyde diethyl acetal	42783-78-8	513.15	45.149	2	26488	C13H26O	3-tridecanone	1534-26-5	538.47	47.592	2
26333	C13H20O3	3-n-butoxy-1-phenoxy-2-propanol	3102-00-9	513.15	45.149	2	26489	C13H26O	7-tridecanone	462-18-0	534.15	47.175	1,2
26334	C13H20O3	methyl jasmonate	1211-29-6	513.15	45.149	2	26490	C13H26O	(R)-(+)-1,2-epoxytridecane	59829-81-1	538.47	47.592	2
26335	C13H20O3	(2-nonen-1-yl)succinic anhydride	28928-97-4	513.15	45.149	2	26491	C13H26O	methoxycyclododecane	2986-54-1	543.85	48.113	1,2
26336	C13H20O3	triethyl orthobenzoate	1663-61-2	513.15	45.149	1,2	26492	C13H26O2	tridecanoic acid	638-53-9	585.25	52.132	1,2
26337	C13H20O3	acetoacetic acid 3,7-dimethyl-2,6-octadienyl*	10032-00-5	513.15	45.149	2	26493	C13H26O2	2-methyldodecanoic acid	2874-74-0	542.21	47.954	2
26338	C13H20O4	diethyl diallylmalonate	3195-24-2	516.65	45.486	1,2	26494	C13H26O2	dodecyl formate	28303-42-6	554.36	49.131	2
26339	C13H20O4	4-methoxyphenoxyacetaldehyde diethyl acetal	69034-13-5	566.15	50.275	1,2	26495	C13H26O2	undecyl acetate	1731-81-3	520.00	53.223	2
26343	C13H21N	2,6-di-tert-butylpyridine	585-48-8	418.15	36.079	2	26496	C13H26O2	decyl propanoate	5454-19-3	555.06	49.199	2
26344	C13H21N	4-heptylaniline	37529-27-4	557.00	49.387	2	26497	C13H26O2	nonyl butanoate	2639-64-7	535.15	47.271	1,2
26356	C13H21O3PS	O,O-bis(1-methylethyl)-S-(phenylmethyl)phosp*	26087-47-8	399.15	34.285	1,2	26498	C13H26O2	octyl pentanoate	5451-85-4	534.75	47.233	1,2
26361	C13H22	dodecahydro-1H-fluorene	5744-03-6	533.15	47.078	1,2	26499	C13H26O2	heptyl hexanoate	6976-72-3	534.15	47.175	1,2
26372	C13H22N4O3S	triazamate	112143-82-5	553.15	49.014	1,2	26500	C13H26O2	hexyl heptanoate	1119-06-8	534.15	47.175	1,2
26392	C13H22O4	diethyl cyclohexylmalonate	2163-44-2	557.15	49.401	2	26501	C13H26O2	pentyl octanoate	638-25-5	533.35	47.098	1,2
26393	C13H22O4	ethyl 3-(ethoxycarbonyl)-2,2-dimethylcyclobu*	28664-03-1	557.15	49.401	2	26502	C13H26O2	butyl nonanoate	50623-57-9	503.00	50.524	1,2
26394	C13H22O4	dibutyl itaconate	2155-60-4	557.15	49.401	1,2	26503	C13H26O2	propyl decanoate	30673-60-0	542.21	47.954	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
26504	C13H26O2	isopropyl decanoate	2311-59-3	542.21	47.954	2	26747	C14H10N2O	3,5-diphenyl-1,2,4-oxadiazole	888-71-1	563.15	49.984	1,2
26505	C13H26O2	methyl dodecanoate	111-82-0	540.00	51.917	1,2	26748	C14H10N2O	2,5-diphenyl-1,3,4-oxadiazole	725-12-2	563.15	49.984	2
26506	C13H26O2	ethyl undecanoate	627-90-7	542.21	47.954	2	26749	C14H10N2O	diphenyl-1,2,5-oxadiazole	19768-02-6	563.15	49.984	2
26507	C13H26O2	isoamyl caprylate	2035-99-6	542.21	47.954	2	26750	C14H10N2O	1,1-benzoyl phenyl diazomethane	---	563.15	49.984	2
26514	C13H26S	thiacyclotetradecane	295-20-5	568.15	50.469	1,2	26759	C14H10N2O4	trans-2,4-dinitro-1-(2-phenylvinyl)benzene	56456-42-9	604.15	53.976	2
26515	C13H27Br	1-bromotridecane	765-09-3	565.15	50.178	1,2	26760	C14H10N2O4	cis-1,2-diphenyl-1,2-dinitroethene	1796-05-0	604.15	53.976	2
26516	C13H27Cl	1-chlorotridecane	822-13-9	553.15	49.014	1,2	26761	C14H10N2O4	benzene, 1,1'-(1,2-ethenediyl)bis[4-nitro-, *	619-93-2	604.15	53.976	2
26517	C13H27F	1-fluorotridecane	1536-21-6	515.15	45.342	1,2	26762	C14H10N2O4	benzene, 1,1'-(1,2-ethenediyl)bis[4-nitro-, *	736-31-2	604.15	53.976	2
26518	C13H27I	1-iodotridecane	35599-77-0	587.15	52.317	1,2	26763	C14H10N2O4	1,5-diaminoanthrarufin	145-49-3	604.15	53.976	1,2
26522	C13H27NO2	1-nitrotridecane	26817-31-2	584.15	52.025	1,2	26764	C14H10N2O4	4,5-diaminochrysazin	128-94-9	604.15	53.976	2
26526	C13H28	tridecane	629-50-5	508.62	45.793	1,2	26766	C14H10O	1-anthracenol	610-50-4	540.65	47.803	2
26527	C13H28	2-methyldodecane	1560-97-0	502.65	44.139	1,2	26767	C14H10O	9-anthracenol	529-86-2	540.65	47.803	2
26528	C13H28	3-methyldodecane	17312-57-1	503.45	44.216	1,2	26768	C14H10O	9(10H)-anthracenone	90-44-8	540.65	47.803	2
26529	C13H28	2,2-dimethylundecane	17312-64-0	494.15	43.322	1,2	26769	C14H10O	diphenylketene	525-06-4	540.65	47.803	1,2
26530	C13H28	2,3-dimethylundecane	17312-77-5	501.15	43.995	1,2	26770	C14H10O	2-fluorenecarboxaldehyde	30084-90-3	540.65	47.803	2
26531	C13H28	2,4-dimethylundecane	17312-80-0	489.15	42.843	1,2	26771	C14H10O	9-phenanthrol	484-17-3	540.65	47.803	2
26532	C13H28	5-butylnonane	17312-63-9	490.65	42.986	1,2	26772	C14H10O	9,10-phenanthrene oxide	585-08-0	540.65	47.803	2
26534	C13H28N2S	n-butyl-2-dibutylthiourea	2422-88-0	501.15	43.995	2	26775	C14H10O2	benzil	134-81-6	620.15	55.540	1,2
26535	C13H28O	1-tridecanol	112-70-9	547.15	54.150	1,2	26776	C14H10O2	3,4-phenanthrenediol	478-71-7	620.15	55.540	2
26536	C13H28O	2-tridecanol	1653-31-2	541.15	47.852	1,2	26777	C14H10O2	9H-fluorene-9-carboxylic acid	1989-33-9	620.15	55.540	2
26537	C13H28O	3-tridecanol	10289-68-6	531.15	46.885	2	26778	C14H10O2	anthracene transannular peroxide	220-42-8	620.15	55.540	2
26538	C13H28O	5-butyl-5-nonanol	597-93-3	531.15	46.885	2	26779	C14H10O2	9-anthronol	1715-81-7	620.15	55.540	2
26539	C13H28O2	1,2-tridecanediol	---	595.15	53.097	2	26780	C14H10O2	diphenaldehyde	1210-05-5	620.15	55.540	2
26540	C13H28O2	1,3-tridecanediol	---	606.15	54.171	2	26782	C14H10O3	1,2,10-anthracenetriol	577-33-3	583.65	51.977	2
26541	C13H28O2	1,4-tridecanediol	61828-34-0	627.15	56.225	2	26783	C14H10O3	benzoic anhydride	93-97-0	633.15	56.813	1,2
26542	C13H28O2	1,13-tridecanediol	13362-52-2	614.15	54.953	2	26784	C14H10O3	3-benzoylbenzoic acid	579-18-0	583.65	51.977	2
26543	C13H28O2	1,12-tridecanediol	99706-68-0	610.65	54.611	2	26785	C14H10O3	4-benzoylbenzoic acid	611-95-0	583.65	51.977	2
26545	C13H28O3	triisobutoxymethane	16754-49-7	496.15	43.514	1,2	26786	C14H10O3	2-benzoylbenzoic acid	85-52-9	534.15	47.175	1,2
26546	C13H28O3	2-(2-(1-isobutyl-3-methylbutoxy)ethoxy)ethan*	63980-62-1	478.15	41.789	1,2	26787	C14H10O3	1,8,9-anthracenetriol	480-22-8	583.65	51.977	2
26547	C13H28O4	tetrapropoxymethane	597-72-8	497.35	43.630	1,2	26805	C14H11Cl	1-chloro-2-(trans-2-phenylvinyl)benzene	1657-52-9	595.15	53.097	2
26548	C13H28O4	4,4'-(2-ethyl-2-nitro-1,3-propanediyl)bismor*	1854-23-5	497.35	43.630	2	26806	C14H11Cl	1-chloro-3-(trans-2-phenylvinyl)benzene	14064-43-8	595.15	53.097	2
26549	C13H28S	1-tridecanethiol	19484-26-5	563.96	53.555	1,2	26807	C14H11Cl	cis-alpha-chlorostilbene	948-99-2	595.15	53.097	2
26550	C13H28S	2-tridecanethiol	62155-03-7	555.15	49.207	1,2	26808	C14H11Cl	trans-alpha-chlorostilbene	948-98-1	595.15	53.097	1,2
26551	C13H28S	methyl dodecyl sulfide	---	553.00	57.438	2	26817	C14H11Cl3	2,2-diphenyl-1,1,1-trichloroethane	2971-22-4	423.15	36.552	2
26552	C13H28S	ethyl undecyl sulfide	66577-30-8	553.00	57.438	2	26819	C14H11F4N3	N,N-dimethyl-2,5-difluoro-p-(2,5-difluorophe*	578-32-5	577.15	51.344	1,2
26553	C13H28S	propyl decyl sulfide	66577-31-9	553.00	57.438	2	26820	C14H11F15O3	4,4,5,5,6,6,7,7,8,9,9,9-dodecafluoro-2-hydro*	16083-81-1	543.15	48.045	1,2
26554	C13H28S	butyl nonyl sulfide	66577-32-0	553.00	57.438	2	26821	C14H11N	2-anthracenamine	613-13-8	566.15	50.275	2
26555	C13H29N	tridecylamine	2869-34-3	553.15	49.014	1,2	26822	C14H11N	9-phenanthrenamine	947-73-9	566.15	50.275	2
26556	C13H29N	methyldodecylamine	7311-30-0	534.15	47.175	1,2	26823	C14H11N	alpha-phenylbenzeneacetonitrile	86-29-3	566.15	50.275	2
26557	C13H29N	ethylundecylamine	59570-04-6	532.15	46.982	1,2	26824	C14H11N	2-phenyl-1H-indole	948-65-2	566.15	50.275	2
26558	C13H29N	dimethylundecylamine	17373-28-3	526.15	46.402	1,2	26825	C14H11N	iminostilbene	256-96-2	566.15	50.275	2
26559	C13H29N	diethylnonylamine	45124-35-4	504.15	44.283	1,2	26826	C14H11N	9-methylacridine	611-64-3	566.15	50.275	2
26560	C13H29N	6-methyl-N-isopentyl-2-heptanamine	502-59-0	520.48	45.856	2	26827	C14H11N	2-phenylindolizine	25379-20-8	566.15	50.275	2
26561	C13H29N	tert-amyl-tert-octylamine	150285-07-7	473.15	31.140	1,2	26828	C14H11N	9-vinylcarbazole	1484-13-5	566.15	50.275	2
26562	C13H29N	N-methyldihexylamine	37615-53-5	520.48	45.856	2	26829	C14H11N	1-aminophenanthrene	4176-53-8	566.15	50.275	2
26564	C13H29NO4	N,N-bis(2,2-diethoxyethyl)methylamine	6948-86-3	494.15	43.322	1,2	26830	C14H11N	1-anthracenamine	610-49-1	566.15	50.275	2
26568	C13H30O6P2	tetraisopropyl methylenediphosphonate	1660-95-3	428.15	37.026	1,2	26831	C14H11N	2-phenanthrylamine	3366-65-2	549.15	48.626	1,2
26574	C14HF27O2	perfluorotetradecanoic acid	376-06-7	543.15	48.045	1,2	26832	C14H11N	3-phenanthrylamine	1892-54-2	583.15	51.928	2
26605	C14H7Br3F3N3O4	bromethaline	63333-35-7	463.15	40.355	1,2	26843	C14H11NO2	cis-1-nitro-2-(2-phenylvinyl)benzene	52208-62-5	416.15	35.890	2
26609	C14H7F19O2	3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecaf*	15577-26-1	516.15	45.438	1,2	26844	C14H11NO2	trans-1-nitro-2-(2-phenylvinyl)benzene	4264-29-3	416.15	35.890	2
26618	C14H7N3O6	1,6,9-trinitrophenanthrene	159092-78-1	490.50	42.972	2	26845	C14H11NO2	4-benzyloxyphenyl isocyanate	50528-73-9	416.15	35.890	2
26619	C14H7N3O6	1,5,9-trinitrophenanthrene	159092-76-9	419.05	36.164	1,2	26847	C14H11NO2	trans-4-mononitrostilbene	1694-20-8	416.15	35.890	2
26620	C14H7N3O6	1,7,9-trinitrophenanthrene	159092-79-2	490.50	42.972	2	26848	C14H11NO2	cis-4-mononitrostilbene	6624-53-9	416.15	35.890	2
26621	C14H7N3O6	2,5,10-trinitrophenanthrene	159092-80-5	522.15	46.016	1,2	26849	C14H11NO2	N-3-dibenzofuranylacetamide	5834-25-3	416.15	35.890	2
26622	C14H7N3O6	2,6,9-trinitrophenanthrene	159092-81-6	573.15	50.955	2	26850	C14H11NO2	N-(2-fluorenyl)formohydroxamic acid	67176-33-4	416.15	35.890	1,2
26623	C14H7N3O6	3,5,10-trinitrophenanthrene	159092-85-0	447.65	38.878	1,2	26851	C14H11NO2	4-nitrostilbene	4003-94-5	416.15	35.890	2
26624	C14H7N3O6	3,6,9-trinitrophenanthrene	159092-84-9	490.50	42.972	2	26861	C14H11NS	2-methyl-6-phenylbenzothiazole	107559-02-4	467.85	40.804	1,2
26642	C14H8N2O3	4,4'-oxybis(phenyl isocyanate)	4128-73-8	469.15	40.928	1,2	26866	C14H12	cis-stilbene	645-49-8	535.00	48.002	1,2
26653	C14H8N6O4	bis-o-azido benzoyl peroxide	---	440.65	38.212	1,2	26867	C14H12	trans-stilbene	103-30-0	579.65	54.871	1,2
26654	C14H8O2	anthraquinone	84-65-1	653.05	62.020	1,2	26868	C14H12	1,1-diphenylethene	530-48-3	550.25	48.733	1,2
26655	C14H8O2	9,10-phenanthrenedione	84-11-7	653.05	58.767	2	26869	C14H12	9,10-dihydroanthracene	613-31-0	578.15	51.441	1,2
26656	C14H8O2	9H-fluorene-4-carboxylic acid	6954-55-8	653.05	58.767	2	26870	C14H12	9,10-dihydrophenanthrene	776-35-2	568.98	50.550	2
26671	C14H8O5	1,2,3-trihydroxy-9,10-anthracenedione	602-64-2	733.65	66.730	2	26871	C14H12	1-methylfluorene	1730-37-6	568.98	50.550	2
26672	C14H8O5	1,2,4-trihydroxy-9,10-anthracenedione	81-54-9	733.65	66.730	2	26872	C14H12	9-methyl-9H-fluorene	2523-37-7	568.98	50.550	2
26673	C14H8O5	1,2,6-trihydroxy-9,10-anthracenedione	82-29-1	732.15	66.581	1,2	26873	C14H12	stilbene	588-59-0	579.65	51.587	1,2
26674	C14H8O5	1,2,7-trihydroxy-9,10-anthracenedione	602-65-3	735.15	66.879	1,2	26874	C14H12	2-methyl-9H-fluorene	1430-97-3	591.20	52.712	1,2
26682	C14H8O8S2	1,8-anthraquinonedisulfinic acid	82-48-4	418.65	36.126	1,2	26875	C14H12	1,2-dihydrophenanthrene	56179-83-0	568.98	50.550	2
26685	C14H9BrN2O4	2-bromo-1,5-diamino-4,8-dihydroxyanthraquino*	27312-17-0	417.65	36.032	2	26880	C14H12Cl2	1,1-bis(4-chlorophenyl)ethane	3547-04-4	593.15	52.902	1,2
26686	C14H9BrN2O4	2-bromo-1,8-diamino-4,5-dihydroxyanthraquino*	65235-63-4	417.65	36.032	2	26883	C14H12Cl2N2O	2',4'-dichloro-2-(3-pyridyl)acetophenone O-m*	88283-41-4	485.25	42.469	1,2
26687	C14H9BrN2O4	1,5-diaminobromo-4,8-dihydroxy-9,10-anthrace*	31810-89-6	417.65	36.032	1,2	26885	C14H12Cl2O2S	2,2'-dihydroxy-3,3'-dimethyl-5,5'-dichlorodi*	4418-66-0	496.15	43.514	1,2
26693	C14H9ClN2O4	9,10-anthracenedione	12217-79-7	402.15	34.568	1,2	26902	C14H12N2O2	4-hydroxyazobenzene acetate	13102-31-3	633.15	56.813	2
26698	C14H9Cl3N2OS	6-chloro-5-(2,3-dichlorophenoxy)-2-methylthi*	68786-66-3	513.75	45.207	1,2	26906	C14H12N2O2	1,4-diaminoanthracene-9,10-diol	5327-72-0	454.65	39.544	2
26699	C14H9Cl5	1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	533.15	47.078	1,2	26907	C14H12N2O2	1,4-diamino-2,3-dihydroanthraquinone	81-63-0	354.65	30.114	1,2
26700	C14H9Cl5	o,p'-DDT	789-02-6	533.15	47.078	2	26908	C14H12N2O2	N,N-difurfural-n-phenylenediamine	19247-68-8	376.15	32.124	1,2
26706	C14H9F3O2	3-[3-(trifluoromethyl)phenoxy]benzaldehyde	78725-46-9	403.15	34.662	1,2	26909	C14H12N2O2	4-(2-(4-nitrophenyl)ethenyl)benzenamine	4629-58-7	454.65	39.544	2
26707	C14H9F3O2	4,4,4-trifluoro-1-(2-naphthyl)-1,3-butanedio*	893-33-4	403.15	34.662	2	26919	C14H12N2S	4-(6-methyl-2-benzothiazolyl)aniline	92-36-4	707.15	64.103	1,2
26728	C14H10	anthracene	120-12-7	615.18	54.918	1,2	26929	C14H12O	1-[1,1'-biphenyl]-4-ylethanone	92-91-1	599.15	53.487	1,2
26729	C14H10	diphenylacetylene	501-65-5	573.00	50.945	1,2	26930	C14H12O	(2-methylphenyl)phenylmethanone	131-58-8	581.15	51.733	1,2
26730	C14H10	phenanthrene	85-01-8	613.45	54.037	1,2	26931	C14H12O	(3-methylphenyl)phenylmethanone	643-65-2	590.15	52.610	1,2
26733	C14H10ClNO4	(3-chlorophenyl)(4-methoxy-3-nitrophenyl) me*	66938-41-8	583.15	51.928	1,2	26932	C14H12O	(4-methylphenyl)phenylmethanone	134-84-9	590.35	52.629	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
26933	C14H12O	2-phenylacetophenone	451-40-1	593.15	52.902	1,2	27060	C14H14	3,3'-dimethylbiphenyl	612-75-9	559.15	49.595	1,2
26934	C14H12O	alpha-phenylbenzeneacetaldehyde	947-91-1	588.15	52.415	2	27061	C14H14	3,4'-dimethylbiphenyl	7383-90-6	556.15	49.304	1,2
26935	C14H12O	2,3-epoxy-1,2,3,4-tetrahydroanthracene	176236-88-7	590.35	52.629	2	27062	C14H14	4,4'-dimethylbiphenyl	613-33-2	566.15	50.275	1,2
26936	C14H12O	9-fluorenemethanol	24324-17-2	590.35	52.629	2	27063	C14H14	2-ethylbiphenyl	1812-51-7	539.12	47.655	1,2
26937	C14H12O	trans-4-hydroxystilbene	6554-98-9	590.35	52.629	2	27064	C14H14	3-ethylbiphenyl	5668-93-9	559.11	49.592	1,2
26938	C14H12O	trans-stilbene oxide	1439-07-2	590.35	52.629	2	27065	C14H14	4-ethylbiphenyl	5707-44-8	556.15	49.304	1,2
26939	C14H12O	1,2-epoxy-1,2,3,4-tetrahydrophenanthrene	56179-80-7	590.35	52.629	2	27066	C14H14	2,3-dimethylbiphenyl	3864-18-4	551.15	48.820	1,2
26940	C14H12O	3,4-epoxy-1,2,3,4-tetrahydrophenanthrene	66997-69-1	590.35	52.629	2	27067	C14H14	3,4-dimethylbiphenyl	4433-11-8	555.15	49.207	1,2
26942	C14H12O2	benzyl benzoate	120-51-4	596.65	58.707	1,2	27068	C14H14	2,6-dimethylbiphenyl	3976-34-9	536.15	47.368	1,2
26943	C14H12O2	2-methylphenyl benzoate	617-02-7	582.15	51.831	1,2	27069	C14H14	1,3-dimethyl-4-phenyl benzene	---	543.15	48.045	1,2
26944	C14H12O2	4-methylphenyl benzoate	614-34-6	589.15	52.512	1,2	27070	C14H14	1,3-dimethyl-5-phenyl benzene	---	548.15	48.529	1,2
26945	C14H12O2	benzoin	579-44-2	617.15	55.246	1,2	27071	C14H14	1,4-dimethyl-2-phenyl benzene	---	540.15	47.755	1,2
26946	C14H12O2	2-benzylbenzoic acid	612-35-1	604.08	53.969	2	27072	C14H14	2,5-dimethylbiphenyl	7372-85-2	549.48	51.336	2
26947	C14H12O2	4-benzylbenzoic acid	620-86-0	604.08	53.969	2	27073	C14H14	2,4-dimethylbiphenyl	4433-10-7	545.15	49.781	1,2
26948	C14H12O2	[1,1'-biphenyl]-4-acetic acid	5728-52-9	604.08	53.969	2	27074	C14H14	3,5-dimethylbiphenyl	17057-88-4	547.65	50.670	1,2
26949	C14H12O2	(1,1'-biphenyl)-4-ol acetate	148-86-7	604.08	53.969	2	27075	C14H14	1,2,3,4-tetrahydrophenanthrene	1013-08-7	549.48	48.658	2
26950	C14H12O2	(2-methoxyphenyl)phenylmethanone	2553-04-0	604.08	53.969	2	27076	C14H14	1,2,3,4-tetrahydroanthracene	2141-42-6	549.48	48.658	2
26951	C14H12O2	(3-methoxyphenyl)phenylmethanone	6136-67-0	616.15	55.148	1,2	27087	C14H14Cl3O6P	O,O-di(2-chloroethyl)-O-(3-chloro-4-methylco*	321-55-1	422.15	36.457	1,2
26952	C14H12O2	(4-methoxyphenyl)phenylmethanone	611-94-9	628.15	56.323	1,2	27106	C14H14N2O	cis-bis(2-methylphenyl)diazene 1-oxide	51284-68-5	544.40	48.166	2
26953	C14H12O2	alpha-phenylbenzeneacetic acid	117-34-0	604.08	53.969	2	27107	C14H14N2O	trans-bis(2-methylphenyl)diazene 1-oxide	116723-89-8	544.40	48.166	2
26954	C14H12O2	trans-5-(2-phenylvinyl)-1,3-benzenediol	22139-77-1	604.08	53.969	2	27108	C14H14N2O	cis-bis(3-methylphenyl)diazene 1-oxide	71297-97-7	544.40	48.166	2
26955	C14H12O2	3-benzyloxybenzaldehyde	1700-37-4	604.08	53.969	2	27109	C14H14N2O	trans-bis(3-methylphenyl)diazene 1-oxide	116723-90-1	544.40	48.166	2
26956	C14H12O2	4-benzyloxybenzaldehyde	4397-53-9	604.08	53.969	2	27110	C14H14N2O	(4-ethoxyphenyl)phenyldiazene	7466-38-8	612.65	54.806	1,2
26957	C14H12O2	2-benzyloxybenzaldehyde	5896-17-3	599.15	53.487	1,2	27111	C14H14N2O	N-methyl-N,N'-diphenylurea	612-01-1	476.15	41.597	1,2
26958	C14H12O2	2-hydroxy-5-methylbenzophenone	1470-57-1	604.08	53.969	2	27112	C14H14N2O	2-methyl-1,2-di-3-pyridinyl-1-propanone	54-36-4	544.40	48.166	2
26959	C14H12O2	3-(4-methylphenoxy)benzaldehyde	79124-75-7	604.08	53.969	2	27113	C14H14N2O	N,N-dimethylindoaniline	2150-58-5	544.40	48.166	2
26960	C14H12O2	4'-phenoxyacetophenone	5031-78-7	604.08	53.969	2	27114	C14H14N2O	1-methyl-3,3-diphenylurea	13114-72-2	544.40	48.166	2
26961	C14H12O2	phenyl phenylacetate	722-01-0	604.08	53.969	2	27115	C14H14N2O	N-acetylbenzidine	3366-61-8	544.40	48.166	2
26962	C14H12O2	7-norbornadienyl benzoate	4796-68-3	604.08	53.969	2	27116	C14H14N2O	4'-ethyl-4-hydroxyazobenzene	2497-34-9	544.40	48.166	2
26963	C14H12O2	1,2-dihydro-1,2-phenanthrenediol	28622-66-4	604.08	53.969	2	27117	C14H14N2O	4'-hydroxy-2,3'-azotoluene	57598-00-2	544.40	48.166	2
26964	C14H12O2	phenanthrene-3,4-dihydrodiol	20057-09-4	604.08	53.969	2	27118	C14H14N2O	N-nitrosodibenzylamine	5336-53-8	544.40	48.166	2
26965	C14H12O2	3-phenoxyacetophenone	32852-92-9	604.08	53.969	2	27119	C14H14N2O	oil yellow HA	6370-43-0	544.40	48.166	2
26967	C14H12O3	benzyl salicylate	118-58-1	593.15	52.902	1,2	27138	C14H14O	dibenzyl ether	103-50-4	561.45	53.704	1,2
26968	C14H12O3	(2-hydroxy-4-methoxyphenyl)phenylmethanone	131-57-7	502.90	44.163	2	27139	C14H14O	bis(2-methylphenyl) ether	4731-34-4	544.15	48.142	1,2
26969	C14H12O3	alpha-hydroxy-alpha-phenylbenezeneacetic acid	76-93-7	453.15	39.402	2	27140	C14H14O	bis(3-methylphenyl) ether	19814-71-2	557.15	49.401	1,2
26970	C14H12O3	2-methoxyphenol benzoate	531-37-3	502.90	44.163	2	27141	C14H14O	bis(4-methylphenyl) ether	1579-40-4	558.15	49.498	1,2
26971	C14H12O3	xanthyletin	553-19-5	502.90	44.163	2	27142	C14H14O	3-ethoxy-1,1'-biphenyl	54852-73-2	578.15	51.441	1,2
26972	C14H12O3	benzyl 4-hydroxybenzoate	94-18-8	502.90	44.163	2	27143	C14H14O	2-methyl-1-(1-naphthyl)-1-propanone	61838-78-6	580.15	51.636	1,2
26973	C14H12O3	3-(4-methoxyphenoxy)benzaldehyde	62373-80-2	418.15	36.079	1,2	27144	C14H14O	2-methyl-1-(2-naphthyl)-1-propanone	107574-57-2	586.15	52.220	1,2
26974	C14H12O3	4-phenoxyphenylacetic acid	6328-74-1	502.90	44.163	2	27145	C14H14O	1-(1-naphthyl)-1-butanone	2876-62-2	590.15	52.610	1,2
26976	C14H12O3	(±)-1,b,2,b-dihydroxy-3,a,4,a-epoxy-1,2,3,4-*	72074-68-1	502.90	44.163	2	27146	C14H14O	alpha-phenylbenzeneethanol, (±)	63180-94-9	574.78	51.113	2
26977	C14H12O3	(±)-3a,4a-epoxy-1,2,3,4-tetrahydro-1b,2a-phe*	72074-69-2	502.90	44.163	2	27147	C14H14O	alpha-phenylbenzeneethanol, (S)	5773-56-8	574.78	51.113	2
26978	C14H12O3	2H-furo(2,3-H)(1)benzopyran-2-one, 4,6,9-tri*	90370-29-9	547.15	48.432	1,2	27148	C14H14O	beta-phenylbenzeneethanol	1883-32-5	574.78	51.113	2
26979	C14H12O3	p-tolyl salicylate	607-88-5	502.90	44.163	2	27149	C14H14O	2-benzoyl-5-norbornene	6056-35-5	574.78	51.113	2
26980	C14H12O3S	2-(phenylsulfonyl)acetophenone	3406-03-9	538.15	47.561	2	27150	C14H14O	2-benzylbenzyl alcohol	1586-00-1	574.78	51.113	2
26981	C14H12O3S	surgam	33005-95-7	538.15	47.561	2	27151	C14H14O	1,1-diphenylethanol	599-67-7	574.78	51.113	2
26982	C14H12O3S	p-(2-thenoyl)hydratropic acid	40828-46-4	538.15	47.561	1,2	27152	C14H14O	4-methylbenzhydrol	1517-63-1	574.78	51.113	2
26987.1	C14H12O4	dimethyl-2,6-naphthalenedicarboxylate	840-65-3	650.86	65.026	1,2	27153	C14H14O	2-methylbenzhydrol	7111-76-4	596.15	53.195	1,2
26994	C14H13ClSi	vinyldiphenylchlorosilane	18419-53-9	398.15	34.191	1,2	27154	C14H14O	a-o-tolylbenzyl alcohol	5472-13-9	596.15	53.195	1,2
27004	C14H13N	9-ethyl-9H-carbazole	86-28-2	588.82	52.480	2	27155	C14H14O	4-(1-phenylethyl)phenol	1988-89-2	574.78	51.113	2
27005	C14H13N	2-methyl-N-(phenylmethylene)aniline	5877-55-4	587.15	52.317	1,2	27156	C14H14OS	dibenzyl sulfoxide	621-08-9	483.15	42.268	2
27006	C14H13N	3-methyl-N-(phenylmethylene)aniline	5877-58-7	588.15	52.415	1,2	27157	C14H14O2	2,2'-dimethoxy-1,1'-biphenyl	4877-93-4	580.65	51.685	1,2
27007	C14H13N	4-methyl-N-(phenylmethylene)aniline	2272-45-9	591.15	52.707	1,2	27158	C14H14O2	3,3'-dimethoxy-1,1'-biphenyl	6161-50-8	601.15	53.683	1,2
27008	C14H13N	N-benzylidenebenzylamine	780-25-6	588.82	52.480	2	27159	C14H14O2	4,4'-dimethoxy-1,1'-biphenyl	2132-80-1	563.32	50.000	2
27009	C14H13N	iminodibenzyl	494-19-9	588.82	52.480	2	27160	C14H14O2	3,3'-dimethyl-[1,1'-biphenyl]-2,2'-diol	32750-14-4	563.32	50.000	2
27010	C14H13N	trans-4-aminostilbene	4309-66-4	588.82	52.480	2	27161	C14H14O2	5,5'-dimethyl-[1,1'-biphenyl]-2,2'-diol	15519-73-0	563.32	50.000	2
27011	C14H13N	2-fluorenylmonomethylamine	63019-68-1	588.82	52.480	2	27162	C14H14O2	1,2-diphenoxyethane	104-66-5	563.32	50.000	2
27012	C14H13N	4-stilbenamine	834-24-2	588.82	52.480	2	27163	C14H14O2	1,2-diphenylethanediol, (R*,R*)-(±)	655-48-1	563.32	50.000	2
27013	C14H13NO	N-(1,1'-biphenyl)-2-ylacetamide	2113-47-5	628.15	56.323	1,2	27164	C14H14O2	ethyl 1-naphthylacetate	2122-70-5	563.32	50.000	2
27014	C14H13NO	N,N-diphenylacetamide	519-87-9	540.15	47.755	2	27165	C14H14O2	3-benzyloxybenzyl alcohol	1700-30-7	563.32	50.000	2
27015	C14H13NO	[2-(methylamino)phenyl]phenylmethanone	1859-76-3	555.15	49.207	1,2	27166	C14H14O2	4-benzyloxybenzyl alcohol	836-43-1	563.32	50.000	2
27016	C14H13NO	N-(2-methylphenyl)benzamide	584-70-3	540.15	47.755	2	27167	C14H14O2	(S,S)-(-)-1,2-diphenyl-1,2-ethanediol	2325-10-2	563.32	50.000	2
27017	C14H13NO	N-(3-methylphenyl)benzamide	582-77-4	540.15	47.755	2	27168	C14H14O2	(R,R)-(+)-1,2-diphenyl-1,2-ethanediol	52340-78-0	563.32	50.000	2
27018	C14H13NO	N-(4-methylphenyl)benzamide	582-78-5	540.15	47.755	2	27169	C14H14O2	6'-methoxy-2'-propiononaphthone	2700-47-2	563.32	50.000	2
27019	C14H13NO	2-amino-4'-methylbenzophenone	36192-63-9	540.15	47.755	2	27170	C14H14O2	1-naphthyl butyrate	3121-70-8	563.32	50.000	2
27020	C14H13NO	N-benzylbenzamide	1485-70-7	540.15	47.755	2	27171	C14H14O2	dicresol	27134-24-3	508.15	44.668	1,2
27021	C14H13NO	3,2'-dimethyl-4-nitrosobiphenyl	70786-64-0	540.15	47.755	2	27172	C14H14O2	1-naphthylmethyl glycidyl ether	66931-57-5	563.32	50.000	2
27022	C14H13NO	trans-N-hydroxy-4-aminostilbene	60462-51-3	540.15	47.755	2	27174	C14H14O2S	bis(4-methylphenyl) sulfone	599-66-6	679.15	61.337	1,2
27023	C14H13NO	2-methyl-N-phenylbenzamide	7055-03-0	540.15	47.755	2	27175	C14H14O2S	dibenzyl sulfone	620-32-6	563.15	49.984	2
27024	C14H13NO	3'-phenylacetanilide	2113-54-4	437.15	37.880	1,2	27177	C14H14O3	bis(2-methoxyphenyl) ether	1655-70-5	603.65	53.927	1,2
27025	C14H13NO	4'-phenylacetanilide	4075-79-0	540.15	47.755	2	27178	C14H14O3	equol	531-95-3	512.28	45.065	2
27041	C14H13NO7	lycorcidinol	29477-83-6	483.65	42.315	1,2	27179	C14H14O3	1-methoxy-2-(3-methoxyphenoxy)benzene	1655-71-6	600.65	53.634	1,2
27052	C14H14	1,1-diphenylethane	612-00-0	545.78	50.403	1,2	27180	C14H14O3	2-pivaloyl-1,3-indandione	83-26-1	512.28	45.065	2
27053	C14H14	1,2-diphenylethane	103-29-7	553.65	50.938	1,2	27181	C14H14O3	gonosan	500-64-1	469.15	40.928	1,2
27054	C14H14	2-methyldiphenylmethane	713-36-0	553.65	49.062	1,2	27182	C14H14O3	2-isovalerylindan-1,3-dione	83-28-3	512.28	45.065	2
27055	C14H14	3-methyldiphenylmethane	620-47-3	552.39	48.940	1,2	27183	C14H14O3	(+)-2-(methoxy-2-naphthyl)-propionic acid	22204-53-1	375.65	32.077	1,2
27056	C14H14	4-methyldiphenylmethane	620-83-7	555.11	49.204	1,2	27189	C14H14S	benzyl sulfide	538-74-9	558.15	49.498	2
27057	C14H14	2,2'-dimethylbiphenyl	605-39-0	531.15	46.885	1,2	27190	C14H14S	bis(2-methylphenyl) sulfide	4537-05-7	558.15	49.498	1,2
27058	C14H14	2,3'-trimethylbiphenyl	611-43-8	547.15	48.432	1,2	27191	C14H14S	bis(4-methylphenyl) sulfide	620-94-0	558.15	49.498	2
27059	C14H14	2,4'-dimethlbiphenyl	611-61-0	547.15	48.432	1,2	27192	C14H14S	3,4'-ditolyl sulfide	107770-92-3	558.15	49.498	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
27193	C14H14S	1-methyl-2-[(4-methylphenyl)thio]benzene	4279-70-3	558.15	49.498	2	27332	C14H16N2	1,2-di(m-tolyl)hydrazine	621-26-1	497.15	43.610	1,2
27210	C14H15N	dibenzylamine	103-49-1	573.15	50.955	2	27333	C14H16N2	1,2-di(p-tolyl)hydrazine	637-47-8	474.65	41.454	2
27211	C14H15N	N-(2-methylphenyl)benzenemethanamine	5405-13-0	575.65	51.198	1,2	27334	C14H16N2	o-tolidine	119-93-7	474.65	41.454	2
27212	C14H15N	N-(3-methylphenyl)benzenemethanamine	5405-17-4	585.15	52.123	1,2	27335	C14H16N2	2,2'-diaminobibenzyl	34124-14-6	474.65	41.454	2
27213	C14H15N	N-(4-methylphenyl)benzenemethanamine	5405-15-2	592.15	52.805	1,2	27336	C14H16N2	(1S,2S)-(-)-1,2-diphenyl-1,2-ethanediamine	29841-69-8	474.65	41.454	2
27214	C14H15N	alpha-phenylbenzeneethanamine	25611-78-3	584.15	52.025	1,2	27337	C14H16N2	(1R,2R)-(+)-1,2-diphenyl-1,2-ethanediamine	35132-20-8	474.65	41.454	2
27215	C14H15N	N-ethyl-N-phenylaniline	606-99-5	568.65	50.518	1,2	27338	C14H16N2	N,N-di(p-tolyl)hydrazine	27758-60-7	452.15	39.306	1,2
27216	C14H15N	2-methyl-N-(2-methylphenyl)aniline	617-00-5	589.15	52.512	1,2	27339	C14H16N2O	(-)-2-cyano-6-phenyloxazolopiperidine	88056-92-2	411.15	35.417	2
27217	C14H15N	3-methyl-N-(3-methylphenyl)aniline	626-13-1	592.65	52.853	1,2	27340	C14H16N2O	1-(4-amino-1,2-dimethyl-5-phenyl-1H-pyrrol-3*	56464-19-8	411.15	35.417	2
27218	C14H15N	4-methyl-N-(4-methylphenyl)aniline	620-93-9	603.65	53.927	1,2	27341	C14H16N2O	1-(4-amino-2-methyl-5-(2-methylphenyl)-1H-py*	56463-76-4	411.15	35.417	2
27219	C14H15N	2-(2-phenylethyl)aniline	5697-85-8	586.42	52.247	2	27342	C14H16N2O	1-(4-amino-2-methyl-5-(3-methylphenyl)-1H-py*	56463-70-8	411.15	35.417	2
27220	C14H15N	4-(3-phenylpropyl)pyridine	2057-49-0	595.15	53.097	1,2	27343	C14H16N2O	1-(4-amino-2-methyl-5-(4-methylphenyl)-1H-py*	56463-61-7	411.15	35.417	2
27221	C14H15N	2,2-diphenylethylamine	3963-62-0	586.42	52.247	2	27344	C14H16N2O	3-isonipecotylindole	5275-02-5	411.15	35.417	1,2
27222	C14H15N	N-methyl-N-phenylbenzylamine	614-30-2	591.15	52.707	1,2	27356	C14H16N2O6	bis(2-isocyanatoethyl)-4-cyclohexene-1,2-dic*	15481-65-9	478.65	41.837	1,2
27223	C14H15N	4-biphenyldimethylamine	1137-79-7	586.42	52.247	2	27358	C14H16N4	N,N-dimethyl-4,4'-azodianiline	539-17-3	472.05	41.205	2
27224	C14H15N	(m,o'-bitolyl)-4-amine	13394-86-0	586.42	52.247	2	27359	C14H16N4	1-(2-(1,3-dimethyl-2-butenylidene)hydrazino)*	36798-79-5	472.05	41.205	2
27225	C14H15N	3,3'-dimethyl-4-aminobiphenyl	13629-82-8	586.42	52.247	2	27360	C14H16N4	2'-methyl-2,4-diamino-3-methylazobenzene	84434-45-7	472.05	41.205	1,2
27236	C14H15NO7	laetrile	1332-94-1	416.15	35.890	1,2	27361	C14H16N4	4-methyl-6-((2-methylphenyl)azo)-1,3-benzene*	7467-29-0	472.05	41.205	2
27249	C14H15N3O	4-amino-3',5'-dimethyl-4'-hydroxyazobenzene	21554-20-1	438.20	37.979	2	27362	C14H16N4	2-methylpyridine-4-azo-p-dimethylaniline	63019-78-3	472.05	41.205	2
27250	C14H15N3O	N,N-dimethyl-p-phenylazoaniline-N-oxide	2747-31-1	438.15	37.975	1,2	27363	C14H16N4O	2-amino-5-methoxy-2'(or 3')-methylindiamine	78279-15-9	553.15	49.014	1,2
27251	C14H15N3O	N-hydroxy-N-ethyl-p-(phenylazo) aniline	58989-02-9	438.25	37.984	1,2	27364	C14H16N4O	4-((4-(dimethylamino)-m-tolyl)azo)-2-picolin*	7347-47-9	553.15	49.014	2
27252	C14H15N3O	N-methyl-4-(phenylazo)-o-anisidine	10121-94-5	438.20	37.979	2	27365	C14H16N4O	N,N-dimethyl-4-(2-methyl-4-pyridylazo)anilin*	7347-46-8	553.15	49.014	2
27253	C14H15N3O2	3,4'-dimethoxy-4-aminoazobenzene	17210-48-9	443.15	38.450	1,2	27366	C14H16N4O	N-methyl-N-ethyl-4-(4'-(pyridyl-1'oxide)azo)*	14551-09-8	553.15	49.014	2
27255	C14H15N5O6S	metsulfuron-methyl	74223-64-6	454.15	39.497	1,2	27367	C14H16N4O	3-methylpyridine-1-oxide-4-azo-p-dimethyl-an*	31932-35-1	553.15	49.014	2
27266	C14H15P	ethyldiphenylphosphine	607-01-2	566.15	50.275	1,2	27374	C14H16O	isobutyl 2-naphthyl ether	2173-57-1	578.90	51.514	1,2
27267	C14H16	1-butylnaphthalene	1634-09-9	562.54	52.561	1,2	27375	C14H16O2Si	dimethoxydiphenylsilane	6843-66-9	559.15	49.595	1,2
27268	C14H16	2-butylnaphthalene	1134-62-9	562.16	53.597	1,2	27376	C14H16O2Si	dimethyldiphenoxysilane	3440-02-6	559.15	49.595	2
27269	C14H16	1-sec-butylnaphthalene	1680-58-6	575.00	53.306	2	27379	C14H16O3	dihydrokavain	587-63-3	393.15	33.720	2
27270	C14H16	2-sec-butylnaphthalene	4614-03-3	585.41	52.148	2	27380	C14H16O3	fraxinellone	28808-62-0	393.15	33.720	1,2
27271	C14H16	1-isobutylnaphthalene	16727-91-6	552.65	48.965	1,2	27381	C14H16O3	mexicanine E	5945-40-4	393.15	33.720	2
27272	C14H16	2-isobutylnaphthalene	26490-07-3	585.41	52.148	2	27382	C14H16O3	piperonyl cyclohexanone	12261-99-3	393.15	33.720	2
27273	C14H16	1-tert-butylnaphthalene	17085-91-5	551.45	48.849	1,2	27387	C14H16Si	dimethyldiphenylsilane	778-24-5	550.15	48.723	1,2
27274	C14H16	2-tert-butylnaphthalene	2876-35-9	553.25	49.023	1,2	27394	C14H17N	N,N-diethyl-1-naphnhalenamine	84-95-7	558.15	49.498	1,2
27275	C14H16	1-methyl-2-propylnaphthalene	39036-65-2	585.41	52.148	2	27395	C14H17N	cyclohexylphenylacetonitrile	3893-23-0	511.48	44.989	2
27276	C14H16	2-methyl-1-propylnaphthalene	54774-89-9	585.41	52.148	2	27396	C14H17N	(R)-(+)-N,N-dimethyl-1-(1-naphthyl)ethylamine	119392-95-9	491.15	43.034	1,2
27277	C14H16	3-methyl-2-propylnaphthalene	66577-19-3	585.41	52.148	2	27397	C14H17N	(S)-(-)-N,N-dimethyl-1-(1-naphthyl)ethylamine	121045-73-6	485.15	42.459	1,2
27278	C14H16	2-methyl-1-isopropylnaphthalene	32114-79-7	585.41	52.148	2	27398	C14H17N	1-(4-methylphenyl)-1-cyclohexanecarbonitrile	1206-13-9	511.48	44.989	2
27279	C14H16	3-methyl-2-isopropylnaphthalene	66577-18-2	585.41	52.148	2	27402	C14H17N3O4	10-decarbamoylmitomycin C	26909-37-5	499.15	43.802	1,2
27280	C14H16	1-methyl-3-isopropylnaphthalene	66577-16-0	585.41	52.148	2	27412	C14H17NO5	2,2-dimethyl-1,3-benzodioxol-4-yl methyl(1-o*	40373-42-0	489.15	42.843	1,2
27281	C14H16	1-methyl-4-isopropylnaphthalene	1680-53-1	585.41	52.148	2	27416	C14H18	1,2,3,4,5,6,7,8-octahydroanthracene	1079-71-6	567.15	50.372	1,2
27282	C14H16	1-methyl-6-isopropylnaphthalene	10136-83-1	585.41	52.148	2	27417	C14H18	1,2,3,4,4a,9,10,10a-octahydrophenanthrene	16306-39-1	567.65	50.421	2
27283	C14H16	1-methyl-7-isopropylnaphthalene	490-65-3	554.15	49.111	1,2	27418	C14H18	1,2,3,4,5,6,7,8-octahydrophenanthrene	5325-97-3	568.15	50.469	1,2
27284	C14H16	2-methyl-8-isopropylnaphthalene	---	555.15	49.207	1,2	27419	C14H18	endo,endo-dihydrodi(norbornadiene)	66289-74-5	567.65	50.421	2
27285	C14H16	1,2-diethylnaphthalene	19182-11-7	585.41	52.148	2	27433	C14H18ClN3S	chloropyrilene	148-65-2	428.65	37.073	1,2
27286	C14H16	1,4-diethylnaphthalene	37796-58-0	585.41	52.148	2	27444	C14H18Fe	tert-butylferrocene	1316-98-9	557.15	49.401	2
27287	C14H16	1,6-diethylnaphthalene	19182-13-9	585.41	52.148	2	27445	C14H18Fe	butylferrocene	31904-29-7	557.15	49.401	2
27288	C14H16	1,7-diethylnaphthalene	66577-37-5	585.41	52.148	2	27446	C14H18Fe	1,1'-diethylferrocene	1273-97-8	557.15	49.401	1,2
27289	C14H16	2,3-diethylnaphthalene	66610-91-1	585.41	52.148	2	27468	C14H18N2O7	dessin	973-21-7	376.55	32.161	1,2
27289.1	C14H16	2,6-diethylnaphthalene	59919-41-4	576.00	53.209	1,2	27472	C14H18N3Na5O10	detapac	140-01-2	379.15	32.405	1,2
27290	C14H16	2,4-dimethyl-1-ethylnaphthalene	66577-14-8	585.41	52.148	2	27473	C14H18N3O3P	m-(allyloxy)-N-(bis(1-aziridinyl)phosphinyl)*	15044-98-1	463.35	40.374	1,2
27291	C14H16	4,6-dimethyl-1-ethylnaphthalene	66577-15-9	585.41	52.148	2	27474	C14H18N3O3P	p-(allyloxy)-N-(bis(1-aziridinyl)phosphinyl)*	15044-99-2	463.35	40.374	2
27292	C14H16	2,5-dimethyl-3-ethylnaphthalene	---	585.41	52.148	2	27476	C14H18N4O3	benomyl	17804-35-2	435.15	37.690	2
27293	C14H16	1,2-dimethyl-4-ethylnaphthalene	66577-38-6	585.41	52.148	2	27477	C14H18N4O3	5-(3,4,5-trimethoxybenzyl)-2,4-diaminopyrimi*	738-70-5	435.15	37.690	1,2
27294	C14H16	1,3-dimethyl-5-ethylnaphthalene	66577-40-0	585.41	52.148	2	27478	C14H18N4O4S2	diethyl-4,4'-o-phenylenebis(3-thioallophanat*	23564-06-9	392.15	33.626	1,2
27295	C14H16	1,4-dimethyl-5-ethylnaphthalene	66309-90-8	585.41	52.148	2	27479	C14H18N6O4	adenosine-5'-(N-cyclobutyl)carboxamide	---	376.65	32.171	1,2
27296	C14H16	1,3-dimethyl-6-ethylnaphthalene	39622-45-2	585.41	52.148	2	27480	C14H18N6O4	adenosine-5'-(N-cyclopropylmethyl)carboxamide	58048-25-2	366.75	31.244	1,2
27297	C14H16	1,4-dimethyl-6-ethylnaphthalene	66610-92-2	585.41	52.148	2	27484	C14H18O2	pentyl cinnamate	3487-99-8	371.32	31.671	2
27298	C14H16	1,2-dimethyl-7-ethylnaphthalene	66577-39-7	585.41	52.148	2	27487	C14H18O2	amyl cinnamate	3487-99-8	371.32	31.671	2
27299	C14H16	1,2,3,4-tetramethylnaphthalene	3031-15-0	585.41	52.148	2	27488	C14H18O2	cinnamyl isovalerate	140-27-2	371.35	31.674	1,2
27300	C14H16	1,2,3,6-tetramethylnaphthalene	66577-20-6	585.41	52.148	2	27489	C14H18O2	cis-3-hexenyl phenylacetate	42436-07-7	369.15	31.468	1,2
27301	C14H16	1,2,4,6-tetramethylnaphthalene	66577-21-7	585.41	52.148	2	27490	C14H18O2	3-phenylallyl isovalerate	140-27-2	373.45	31.871	1,2
27302	C14H16	1,2,4,7-tetramethylnaphthalene	16020-17-0	585.41	52.148	2	27494	C14H18O4	diethyl benzylmalonate	607-81-8	573.15	50.955	1,2
27303	C14H16	1,2,4,8-tetramethylnaphthalene	66577-22-8	585.41	52.148	2	27495	C14H18O4	cinnamic acid, p-methoxy, 2-ethoxyethyl ester	104-28-9	578.70	51.495	2
27304	C14H16	1,2,5,6-tetramethylnaphthalene	2131-43-3	585.41	52.148	2	27496	C14H18O4	diethyl 2-(p-tolyl)malonate	29148-27-4	578.70	51.495	2
27305	C14H16	1,2,5,8-tetramethylnaphthalene	3031-16-1	585.41	52.148	2	27497	C14H18O4	dipropyl phthalate	131-16-8	584.25	52.035	1,2
27306	C14H16	1,2,6,8-tetramethylnaphthalene	66577-00-2	585.41	52.148	2	27498	C14H18O4	6-hydroxy-2,5,7,8-tetramethylchroman-2-carbo*	53188-07-1	578.70	51.495	2
27307	C14H16	1,3,5,8-tetramethylnaphthalene	14558-12-4	585.41	52.148	2	27499	C14H18O4	phthalic acid, diisopropyl ester	605-45-8	578.70	51.495	2
27308	C14H16	1,3,6,7-tetramethylnaphthalene	7435-50-9	585.41	52.148	2	27500	C14H18O4	6-hydroxy-2,5,7,8-tetramethylchroman-3-carbo*	---	578.70	51.495	2
27309	C14H16	1,4,5,8-tetramethylnaphthalene	2717-39-7	585.41	52.148	2	27506.1	C14H18O8	di-1-glyceryl terephthalate	66032-51-76	715.00	104.065	1,2
27310	C14H16	1,4,6,7-tetramethylnaphthalene	13764-18-6	585.41	52.148	2	27514	C14H19IO3	carbonic acid 3-(p-iodophenyl)-3-methylpropy*	60075-83-4	419.65	36.221	2
27311	C14H16	2,3,6,7-tetramethylnaphthalene	1134-40-3	585.41	52.148	2	27515	C14H19IO3	3-hexyl-p-iodobenzyl carbonate	60075-69-6	419.65	36.221	2
27312	C14H16	1,2,3,4,5,6-hexahydroanthracene	6109-22-4	576.21	51.253	2	27516	C14H19IO3	N-hexyl-p-iodobenzyl carbonate	60075-68-5	419.65	36.221	1,2
27313	C14H16	7-methyl-1-isopropylnaphthalene	66577-17-1	555.15	45.453	1,2	27517	C14H19IO3	p-iodobenzyl-4-methyl-2-pentyl carbonate	60075-70-9	419.65	36.221	2
27314	C14H16	1,3,6,8-tetramethylnaphthalene	14558-14-6	576.21	51.253	2	27560	C14H20	1-butyl-[1,2,3,4-tetrahydronaphthalene]	38857-76-0	546.28	48.348	1,2
27315	C14H16	1,4-dimethyl-7-ethylazulene	529-05-5	576.21	51.253	2	27561	C14H20	2-butyl-[1,2,3,4-tetrahydronaphthalene]	36230-28-1	551.65	48.868	1,2
27316	C14H16	1,4,5,8,9,10-hexahydroanthracene	5910-28-1	429.15	37.121	1,2	27562	C14H20	1,2,3,4-tetrahydro-1,1,2,6-tetramethylnaphth*	1681-22-7	546.31	48.351	2
27324	C14H16ClO6P	3-chloro-4-methyl-7-coumarinyl diethylphosph*	321-54-0	499.65	43.850	1,2	27563	C14H20	(1-cyclohexylethyl)benzene	4413-16-5	538.15	47.561	1,2
27327	C14H16FeO	butyrylferrocene	1271-94-9	602.15	53.780	1,2	27564	C14H20	(3-cyclopentylpropyl)benzene	2883-12-7	545.15	48.239	1,2
27330	C14H16N2	4,4'-diaminostilbene	621-95-4	474.65	41.454	2	27565	C14H20	5-butyl-1,2,3,4-tetrahydronaphthalene	66325-42-6	553.05	49.004	1,2
27331	C14H16N2	N,N'-diphenyl-1,2-ethanediamine	150-61-8	474.65	41.454	2	27566	C14H20	1,2,3,4-tetrahydro-5-isobutylnaphthalene	5458-54-8	543.55	48.084	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
27566.1	C14H20	diamantane	2292-79-7	529.00	39.371	1,2	27698	C14H22O2	4-(n-octyloxy)phenol	3780-50-5	528.15	46.595	2
27590	C14H20O	1-phenyl-1-octanone	1674-37-9	558.15	49.498	1,2	27699	C14H22O2	4-propylbenzaldehyde diethyl acetal	89557-35-7	528.15	46.595	2
27591	C14H20O	4'-tert-butyl-2',6'-dimethylacetophenone	2040-10-0	558.15	49.498	2	27700	C14H22O2	2,5-di-tert-butylhydroquinone	88-58-4	528.15	46.595	2
27592	C14H20O	a-amylcinnamic alcohol	101-85-9	558.15	49.498	2	27701	C14H22O2	3,7-dimethyl-2-trans-6-octadienyl crotonate	56172-46-4	528.15	46.595	2
27593	C14H20O	1-benzyl dipropyl ketone	7492-37-7	558.15	49.498	2	27702	C14H22O2	1-ethynyl-2-(1-methylpropyl)cyclohexyl aceta*	37172-05-7	528.15	46.595	2
27594	C14H20O	lilial	80-54-6	558.15	49.498	2	27703	C14H22O2	lactoscatone	21280-29-5	528.15	46.595	2
27595	C14H20O	4-(octahydro-4,7-methano-5H-inden-5-ylidene)*	30168-23-1	558.15	49.498	2	27716	C14H22O8	tetraethyl 1,1,2,2-ethanetetracarboxylate	632-56-4	578.15	51.441	2
27596	C14H20O2	isobutyl 4-isopropylbenzoate	6315-03-3	379.15	32.405	2	27717	C14H22O8	triethyl 2-acetoxy-1,2,3-propanetricarboxyla*	77-89-4	578.15	51.441	2
27597	C14H20O2	2,6-di-tert-butyl-1,4-benzoquinone	719-22-2	333.15	28.115	1,2	27720	C14H23N	4-(1-butylpentyl)pyridine	2961-47-9	538.15	47.561	1,2
27598	C14H20O2	4-heptylbenzoic acid	38350-87-7	379.15	32.405	2	27721	C14H23N	N,N-dibutylaniline	613-29-6	547.95	48.510	1,2
27600	C14H20O2	4-(heptyloxy)benzaldehyde	27893-41-0	425.15	36.741	1,2	27722	C14H23N	4-octylaniline	16245-79-7	583.15	51.928	1,2
27601	C14H20O2	benzyl dimethylcarbinyl n-butyrate	10094-34-5	379.15	32.405	2	27723	C14H23N	2,6-di-tert-butyl-4-methylpyridine	38222-83-2	506.15	44.475	1,2
27602	C14H20O2	2,5-di-tert-butyl-1,4-benzoquinone	2460-77-7	379.15	32.405	2	27724	C14H23N	2,6-diisopropyl-N,N-dimethylaniline	2909-77-5	543.85	48.113	2
27603	C14H20O2	1-phenyl-3-methyl-3-pentanyl acetate	72007-81-9	379.15	32.405	2	27725	C14H23N	N-(2-ethylhexyl)aniline	10137-80-1	543.85	48.113	2
27604	C14H20O2	2-(phenylmethyl)-4,4,6-trimethyl-1,3-dioxane	67633-94-7	379.15	32.405	2	27726	C14H23N	b-sec-butyl-N,N-dimethylphenethylamine	33132-61-5	543.85	48.113	2
27612	C14H20O6	diglycidyl hexahydrophthalate	5493-45-8	398.15	34.191	1,2	27727	C14H23NO	4-(octyloxy)aniline	39905-45-8	410.15	35.323	2
27613	C14H20O8	tetraethyl ethylenetetracarboxylate	6174-95-4	601.15	53.683	2	27728	C14H23NO	4-(1-sec-butyl-2-(dimethylamino)ethyl)phenol	69745-66-0	410.15	35.323	2
27614	C14H20O8	(-)-bis[(S)-1-(ethoxycarbonyl)ethyl] fumarate	111293-23-3	601.15	53.683	2	27729	C14H23NO	deacetylthymoxamine	35231-36-8	410.15	35.323	2
27616	C14H20Si	phenyltriallylsilane	2633-57-0	415.15	35.795	1,2	27730	C14H23NO	2-methyl-1-((6-methyl-3-cyclohexen-1-yl)carb*	69462-51-7	401.15	34.474	1,2
27618	C14H21Cl	3,5-di-tert-butyl chlorobenzene	80438-67-1	530.00	46.774	2	27731	C14H23NO	3-methyl-1-((6-methyl-3-cyclohexen-1-yl)carb*	69462-52-8	410.15	35.323	2
27619	C14H21ClN2O2	2-(p-chlorophenoxy)-N-(2-(diethylamino)ethyl*	1223-36-5	397.65	34.144	1,2	27732	C14H23NO	4-methyl-1-((6-methyl-3-cyclohexen-1-yl)carb*	69462-53-9	419.15	36.173	1,2
27620	C14H21ClN2O3S	N-a-tosyl-L-lysyl-chloromethyl ketone	2364-87-6	417.15	35.984	1,2	27743	C14H24	dispiro[5.1.5.1]tetradecane	184-97-4	543.15	48.045	2
27623	C14H21NO2	amyl-p-dimethylaminobenzoate	14779-78-3	438.15	37.975	1,2	27744	C14H24	tetradecahydrophenanthrene	5743-97-5	543.15	48.045	1,2
27624	C14H21NO2	amylocaine	644-26-8	408.65	35.181	1,2	27749	C14H24N2	N,N,N',N'-tetraethyl-1,3-benzenediamine	64287-26-9	383.15	32.780	2
27625	C14H21NO2	3,5-diisopropylphenyl-N-methylcarbamate	330-64-3	417.15	35.984	1,2	27750	C14H24N2	N,N'-di-sec-butyl-p-phenylenediamine	101-96-2	383.15	32.780	1,2
27626	C14H21NO3	2-nitrophenyl octyl ether	37682-29-4	393.15	33.720	2	27751	C14H24N2	tetradecanedinitrile	7735-44-6	383.15	32.780	2
27627	C14H21NO3	4-nitrophenyl octyl ether	49562-76-7	393.15	33.720	2	27761	C14H24O2	geranol 2-methylpropanoate	2345-26-8	468.65	40.880	2
27628	C14H21NO3	(R)-(+)-2-(tert-butoxycarbonylamino)-3-pheny*	106454-69-7	393.15	33.720	2	27762	C14H24O2	geranyl N-butyrate	106-29-6	468.65	40.880	2
27629	C14H21NO3	(S)-(-)-2-(tert-butoxycarbonylamino)3-phenyl*	66605-57-0	393.15	33.720	2	27763	C14H24O2	citronellyl-2-butenoate	68039-38-3	468.65	40.880	2
27630	C14H21NO3	butyl-3-((dimethylamino)methyl)-4-hydroxyben*	6279-54-5	393.15	33.720	2	27764	C14H24O2	4-(1-ethoxyethenyl)-3,3,5,5-tetramethylcyclo*	36306-87-3	468.65	40.880	1,2
27632	C14H21NO3	ethyl-3-((diethylamino)methyl)-4-hydroxybenz*	78329-97-2	393.15	33.720	1,2	27765	C14H24O2	linalyl isobutyrate	78-35-3	468.65	40.880	2
27635	C14H21N2O4P	dimorpholinophosphinic acid phenyl ester	4881-17-8	423.65	36.599	1,2	27766	C14H24O2	p-menth-1-en-8-yl isobutyrate	7774-65-4	468.65	40.880	2
27636	C14H21N3O2S	3-(2-(dimethylamino)ethyl)-N-methyl-1H-indol*	103628-46-2	425.95	36.817	1,2	27767	C14H24O2	neryl isobutyrate	2345-24-6	468.65	40.880	2
27637	C14H21N3O3	m-(3,3-dimethylureido)phenyl-tert-butyl carb*	4849-32-5	424.65	36.694	2	27772	C14H24S	3-decylthiophene	65016-55-9	570.15	50.663	2
27638	C14H21N3O3	oxamniquine	21738-42-1	424.65	36.694	1,2	27773	C14H25NO	2-methyl-1-((2-methylcyclohexyl)carbonyl)pip*	68162-93-6	362.95	30.889	2
27639	C14H21N3O3S	tolazamide	1156-19-0	573.15	50.955	1,2	27774	C14H25NO	3-methyl-1-((2-methylcyclohexyl)carbonyl)pip*	64387-78-6	362.95	30.889	1,2
27640	C14H21N3O3S	3-amino-4-methylbenzenesulfonylcyclohexylurea	565-33-3	573.15	50.955	2	27775	C14H25NO	4-methyl-1-((2-methylcyclohexyl)carbonyl)pip*	64387-77-5	362.95	30.889	2
27642	C14H21N5O3	1-(3-(dimethylamino)propyl)-3-((1-methyl-5-n*	123794-07-0	440.65	38.212	1,2	27777	C14H26	1,1-dicyclohexylethane	2319-61-1	544.32	48.158	1,2
27644	C14H22	octylbenzene	2189-60-8	537.55	48.924	1,2	27778	C14H26	1,2-dicyclohexylethane	3321-50-4	545.65	48.287	1,2
27645	C14H22	1,2,3,4-tetraethylbenzene	642-32-0	524.16	48.844	1,2	27779	C14H26	1-nonylcyclopentene	62184-74-1	527.15	46.499	1,2
27646	C14H22	1,2,3,5-tetraethylbenzene	38842-05-6	523.66	48.798	1,2	27780	C14H26	1-tetradecyne	765-10-6	525.15	46.306	1,2
27647	C14H22	1,2,4,5-tetraethylbenzene	635-81-4	523.16	48.752	1,2	27781	C14H26	3-tetradecyne	60212-32-0	528.15	46.595	1,2
27648	C14H22	1,4-di-tert-butylbenzene	1012-72-2	511.15	44.956	1,2	27782	C14H26	7-tetradecyne	35216-11-6	535.60	47.314	2
27649	C14H22	(1-methylheptyl)benzene	777-22-0	523.94	46.189	2	27783	C14H26	(3-cyclopentylpropyl)cyclohexane	2883-07-0	543.15	48.045	1,2
27650	C14H22	1,3-di-tert-butylbenzene	1014-60-4	523.94	46.189	2	27784	C14H26	1,13-tetradecadiene	21964-49-8	535.60	47.314	2
27651	C14H22	dodecahydrophenanthrene	1322-67-4	523.94	46.189	2	27787	C14H26F3O6P	3,3,3-trifluorolactic acid methyl ester dipe*	108682-54-8	371.67	31.704	1,2
27652	C14H22	6,8-tetradecadiyne	16387-72-7	523.94	46.189	2	27791	C14H26N4O	2-amino-4-dibutylaminoethoxypyrimidine	102207-73-8	363.15	30.908	1,2
27656	C14H22ClN	b-sec-butyl-p-chloro-N,N-dimethylphenethylam*	33132-71-7	418.55	36.117	1,2	27792	C14H26N4O	2-amino-4-di-isobutylaminoethoxypyrimidine	102207-76-1	363.15	30.908	2
27657	C14H22ClNO	clobutinol	14860-49-2	406.65	34.992	1,2	27797	C14H26O2	methyl 12-tridecenoate	29780-00-5	513.00	45.135	2
27658	C14H22ClNO2	1-chloro-3-adamantyl ethoxymethyl ketone	73599-94-7	496.15	43.514	1,2	27798	C14H26O2	4-tetradecenoic acid	544-65-0	590.00	52.595	2
27661	C14H22NO4P	p-nitrophenyldi-N-butylphosphinate	1224-64-2	482.25	42.181	1,2	27799	C14H26O2	5-tetradecenoic acid	544-66-1	590.00	52.595	2
27662	C14H22N2	p-amino-b-sec-butyl-N,N-dimethylphenethylami*	33132-75-1	415.15	35.795	1,2	27800	C14H26O2	9-tetradecenoic acid	13147-06-3	590.00	52.595	2
27664	C14H22N2O2	2',6'-dimethyl-2-(2-ethoxyethylamino)acetani*	67262-78-6	408.15	35.134	1,2	27801	C14H26O2	decyl methacrylate	3179-47-3	513.00	45.135	2
27665	C14H22N2O2	2',6'-dimethyl-2-(2-methoxypropylamino)aceta*	67262-79-7	409.15	35.228	2	27802	C14H26O2	(R,R)-(-)-1,2-dicyclohexyl-1,2-ethanediol	120850-92-2	513.00	45.135	2
27666	C14H22N2O2	2-(2-ethoxyethylamino)-o-propionotoluidide	67262-62-8	409.15	35.228	2	27803	C14H26O2	isodecyl methacrylate	29964-84-9	513.00	45.135	2
27667	C14H22N2O2	2'-ethyl-2-(2-methoxyethylamino)propionanili*	67262-64-0	409.15	35.228	2	27804	C14H26O2	myristoleic acid	544-64-9	513.00	45.135	2
27668	C14H22N2O2	2-(2-methoxyethylamino)-2',6'-propionoxylidi*	67262-80-0	410.15	35.323	1,2	27805	C14H26O2	2,4,7,9-tetramethyl-5-decyne-4,7-diol, (±) a*	126-86-3	528.15	46.595	1,2
27669	C14H22N2O2	2,N-pentylaminoethyl-p-aminobenzoate	2188-67-2	409.15	35.228	2	27806	C14H26O2	citral diethyl acetal	7492-66-2	513.00	45.135	2
27670	C14H22N2O2	tutocaine	891-33-8	409.15	35.228	2	27807	C14H26O2	citronellyl butyrate	141-16-2	513.00	45.135	2
27675	C14H22N2O4S2	butylmercaptomethylpenicillin	6192-29-6	443.25	38.459	1,2	27808	C14H26O2	citronellyl isobutyrate	97-89-2	513.00	45.135	2
27676	C14H22N2O5	5,5-dimethyl-3-(2-(oxiranylmethoxy)propyl)-1*	32568-89-1	408.15	35.134	1,2	27809	C14H26O2	2,6-dimethyl-2-octen-8-yl butyrate	141-16-2	513.00	45.135	2
27679	C14H22O	p-tert-octylphenol	140-66-9	563.60	54.508	1,2	27810	C14H26O2	cis-7-dodecenyl acetate	14959-86-5	513.00	45.135	2
27680	C14H22O	2,4-di-tert-butylphenol	96-76-4	536.65	47.416	1,2	27811	C14H26O2	ethyllinalyl acetal	40910-49-4	497.85	43.678	1,2
27681	C14H22O	2,6-di-sec-butylphenol	5510-99-6	530.65	43.128	1,2	27812	C14H26O2	grapemone	16974-11-1	513.00	45.135	2
27682	C14H22O	2,6-di-tert-butylphenol	128-39-2	527.81	42.233	2	27813	C14H26O3	heptanoic anhydride	626-27-7	542.65	47.997	1,2
27683	C14H22O	alpha-irone	79-69-6	527.81	46.562	2	27814	C14H26O3	5-methyl-2-isopropylcyclohexyl ethoxyacetate*	579-94-2	542.65	47.997	2
27684	C14H22O	beta-irone	79-70-9	527.81	46.562	2	27815	C14H26O4	dibutyl adipate	105-99-7	572.15	50.858	2
27685	C14H22O	octyl phenyl ether	1818-07-1	558.15	49.498	1,2	27816	C14H26O4	diethyl sebacate	110-40-7	578.15	51.441	1,2
27686	C14H22O	g-irone	79-68-5	527.81	46.562	2	27817	C14H26O4	diisobutyl adipate	141-04-8	566.15	50.275	1,2
27687	C14H22O	4-octylphenol	1806-26-4	423.15	21.567	1,2	27818	C14H26O4	dimethyl 1,12-dodecanedioate	1731-79-9	572.15	50.858	2
27688	C14H22O	tert-octylphenol	27193-28-8	554.65	49.159	1,2	27819	C14H26O4	dipentyl succinate	645-69-2	572.15	50.858	2
27689	C14H22O	3,5-bis(1,1-dimethylethyl)phenol	1138-52-9	527.81	42.233	2	27820	C14H26O4	1,12-dodecanedicarboxylic acid	821-38-5	572.15	50.858	2
27690	C14H22O	2,6-dimethyldodeca-2,6,8-trien-10-one	26651-96-7	527.81	46.562	2	27821	C14H26O4S	bis(3-methylbutyl) mercaptosuccinate	68084-03-7	418.15	36.079	1,2
27691	C14H22O	2-isopropyl-6-(1-methylbutyl)phenol	74926-98-0	527.81	42.233	2	27825	C14H27Br	cis-1-bromo-1-tetradecene	66827-02-9	567.15	50.372	1,2
27692	C14H22O	3,6,10-trimethyl-3,5,9-undecatrien-2-one	1117-41-5	527.81	46.562	2	27826	C14H27Br	trans-1-bromo-1-tetradecene	66827-03-0	567.15	50.372	1,2
27693	C14H22O2	bis(1-hydroxycyclohexyl)acetylene	78-54-6	528.15	46.595	2	27828	C14H27Br3	1,1,1-tribromotetradecane	62155-25-3	640.15	57.500	1,2
27694	C14H22O2	1,4-dibutoxybenzene	104-36-9	528.15	46.595	2	27829	C14H27Cl	cis-1-chloro-1-tetradecene	66827-04-1	571.15	50.761	1,2
27695	C14H22O2	1-(diethoxymethyl)-4-isopropylbenzene	35364-90-0	538.15	47.561	1,2	27830	C14H27Cl	trans-1-chloro-1-tetradecene	66827-05-2	571.15	50.761	1,2
27696	C14H22O2	3,5-di-tert-butylcatechol	1020-31-1	528.15	46.595	2	27832	C14H27Cl3	1,1,1-trichlorotetradecane	62108-58-1	601.15	53.683	1,2
27697	C14H22O2	isobornyl methacrylate	7534-94-3	518.15	45.631	1,2	27833	C14H27F	cis-1-fluoro-1-tetradecene	66827-06-3	523.15	46.113	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
27834	C14H27F	trans-1-fluoro-1-tetradecene	66827-07-4	523.15	46.113	2	27932	C14H30O2	1,4-tetradecanediol	---	641.15	57.598	2
27835	C14H27F3	1,1,1-trifluorotetradecane	62126-99-2	515.15	45.342	1,2	27933	C14H30O2	1,14-tetradecanediol	19812-64-7	628.15	56.323	2
27836	C14H27I	cis-1-iodo-1-tetradecene	66827-08-5	590.15	52.610	1,2	27934	C14H30O2	1,1-dimethoxydodecane	14620-52-1	624.65	55.980	2
27837	C14H27I	trans-1-iodo-1-tetradecene	66827-09-6	590.15	52.610	1,2	27935	C14H30O2	1,12-dimethoxydodecane	73120-52-2	624.65	55.980	2
27838	C14H27I3	1,1,1-triiodotetradecane	---	795.91	72.932	2	27936	C14H30O2	ethylene glycol mono-2,6,8-trimethyl-4-nonyl*	10137-98-1	624.65	55.980	2
27839	C14H27N	tetradecanenitrile	629-63-0	581.15	51.733	1,2	27937	C14H30O2	methyl nonyl acetaldehyde dimethyl acetal	68141-17-3	624.65	55.980	2
27840	C14H27N	ethyldicyclohexylamine	7175-49-7	581.15	51.733	2	27938	C14H30O2	2,2,9,9-tetramethyl-1,10-decanediol	35449-36-6	624.65	55.980	2
27841	C14H27NO	N-Decyl-2-pyrrolidone	55257-88-0	476.65	41.645	1,2	27946	C14H30S	1-tetradecanethiol	2079-95-0	579.36	55.229	1,2
27842	C14H27NO	lauroylethyleneimine	48163-10-6	476.65	41.645	2	27947	C14H30S	2-tetradecanethiol	62155-04-8	571.15	50.761	1,2
27843	C14H27NO2	N-decanoylmorpholine	5299-65-0	445.15	38.640	1,2	27948	C14H30S	diheptyl sulfide	629-65-2	571.15	59.549	1,2
27844	C14H27NO3	(S)-(-)-2-(tert-butoxycarbonylamino)-3-cyclo*	103322-56-1	487.15	42.651	1,2	27949	C14H30S	methyl tridecyl sulfide	62155-09-3	569.00	59.802	2
27845	C14H27NO3	octyl N,N-diethyloxamate	60254-67-3	487.15	42.651	2	27950	C14H30S	ethyl dodecyl sulfide	2851-83-4	569.00	59.802	2
27846	C14H27NS	dodecylthioacetonitrile	51956-42-4	448.15	38.925	1,2	27951	C14H30S	propyl undecyl sulfide	66826-84-4	569.00	59.802	2
27847	C14H28	nonylcyclopentane	2882-98-6	535.26	47.237	1,2	27952	C14H30S	butyl decyl sulfide	19313-57-6	569.00	59.802	2
27848	C14H28	octylcyclohexane	1795-15-9	536.76	46.819	1,2	27953	C14H30S2	diheptyl disulfide	10496-16-9	593.86	58.576	1,2
27849	C14H28	cyclotetradecane	295-17-0	544.15	48.142	1,2	27955	C14H30Sn2	bis(triethyl tin)acetylene	---	433.55	37.538	1,2
27850	C14H28	1-tetradecene	1120-36-1	524.25	48.121	1,2	27956	C14H31N	tetradecylamine	2016-42-4	564.45	55.660	1,2
27851	C14H28	2-tetradecene	638-60-8	536.15	47.368	1,2	27957	C14H31N	methyltridecylamine	45165-81-9	550.15	48.723	1,2
27852	C14H28	2-methyl-1-tridecene	18094-01-4	523.15	46.113	1,2	27958	C14H31N	ethyldodecylamine	35902-57-9	549.15	48.626	1,2
27853	C14H28	trans-7-tetradecene	41446-63-3	523.15	46.113	1,2	27959	C14H31N	diheptylamine	2470-68-0	545.15	48.239	1,2
27854	C14H28Br2	1,1-dibromotetradecane	62168-31-4	612.15	54.757	1,2	27960	C14H31N	dimethyldodecylamine	112-18-5	544.15	48.142	1,2
27855	C14H28Br2	1,14-dibromotetradecane	37688-96-3	612.15	54.757	2	27961	C14H31N	diethyldecylamine	6308-94-7	520.15	45.824	1,2
27856	C14H28Cl2	1,1-dichlorotetradecane	4168-40-5	588.15	52.415	1,2	27962	C14H31NO	dimethyldodecylamine-N-oxide	1643-20-5	429.35	37.140	1,2
27857	C14H28F2	1,1-difluorotetradecane	62127-03-1	524.15	46.209	1,2	27963	C14H31O3P	tetradecyl phosphonic acid	4671-75-4	448.95	39.002	1,2
27858	C14H28I2	1,1-diiodotetradecane	66826-79-7	705.56	63.946	2	27969	C14H32O3Si	triethoxy(octyl)silane	2943-75-1	371.15	31.656	1,2
27859	C14H28NO3PS2	piperophos	24151-93-7	523.15	46.113	1,2	27971	C14H34O6Si2	1,2-bis(triethoxysilyl)ethane	16068-37-4	392.15	33.626	1,2
27862	C14H28O	tetradecanal	124-25-4	556.15	49.304	1,2	27973	C14H42O5Si6	tetradecamethylhexasiloxane	107-52-8	518.65	45.679	1,2
27863	C14H28O	2-tetradecanone	2345-27-9	551.15	48.820	1,2	27999	C15H9NO2	1,3-dioxo-2-(3-pyridylmethylene)indan	31083-55-3	471.15	41.119	1,2
27864	C14H28O	7-ethyl-2-methyl-4-undecanone	6976-00-7	525.65	46.354	1,2	28005	C15H10	cyclopenta[def]phenanthrene	203-64-5	626.15	56.127	1,2
27865	C14H28O	2-methyl-3-tridecanone	40239-35-8	540.15	47.755	1,2	28010	C15H10ClFO	2-chloro-4'-fluorochalcone	28081-11-0	407.15	35.039	2
27866	C14H28O	3-tetradecanone	629-23-2	512.95	45.130	2	28011	C15H10ClFO	4-chloro-4'-fluorochalcone	28081-12-1	407.15	35.039	1,2
27867	C14H28O	dodecyl vinyl ether	765-14-0	510.00	44.846	2	28029	C15H10N2O2	diphenylmethane-4,4'-diisocyanate	101-68-8	609.00	76.890	1,2
27868	C14H28O	(R)-(+)-1,2-epoxytetradecane	116619-64-8	512.95	45.130	2	28036	C15H10O2	1-anthracenecarboxylic acid	607-42-1	633.15	56.813	2
27869	C14H28O	1,2-epoxytetradecane	3234-28-4	512.95	45.130	2	28037	C15H10O2	2-anthracenecarboxylic acid	613-08-1	633.15	56.813	2
27870	C14H28O	cis-9-tetradecenol	35153-15-2	512.95	45.130	2	28038	C15H10O2	9-anthracenecarboxylic acid	723-62-6	633.15	56.813	2
27871	C14H28O	1-methoxy-1-methylcyclododecane	37514-30-0	512.95	45.130	2	28039	C15H10O2	2-benzofuranylphenylmethanone	6272-40-8	633.15	56.813	1,2
27872	C14H28O	vinyl-2,6,8-trimethylnonyl ether	10141-19-2	512.95	45.130	2	28040	C15H10O2	2-methyl-9,10-anthracenedione	84-54-8	633.15	56.813	2
27873	C14H28O2	tetradecanoic acid	544-63-8	599.35	63.937	1,2	28041	C15H10O2	9-phenanthrenecarboxylic acid	837-45-6	633.15	56.813	2
27874	C14H28O2	tridecyl formate	42875-41-2	577.24	51.353	2	28042	C15H10O2	2-phenyl-4H-1-benzopyran-4-one	525-82-6	633.15	56.813	2
27875	C14H28O2	dodecyl acetate	112-66-3	538.15	56.470	1,2	28043	C15H10O2	3-phenyl-4H-1-benzopyran-4-one	574-12-9	633.15	56.813	2
27876	C14H28O2	undecyl propanoate	5458-33-3	577.94	51.421	2	28044	C15H10O2	2-phenyl-1H-indene-1,3(2H)-dione	83-12-5	633.15	56.813	2
27877	C14H28O2	decyl butanoate	5454-09-1	553.15	49.014	1,2	28045	C15H10O2	benzalphthalide	575-61-1	633.15	56.813	2
27878	C14H28O2	octyl hexanoate	4887-30-3	548.15	48.529	1,2	28076	C15H11ClF3NO4	oxyfluorfen	42874-03-3	631.35	56.637	2
27879	C14H28O2	heptyl heptanoate	624-09-9	550.15	48.723	1,2	28082	C15H11ClO	2-chloroacetylfluorene	24040-34-4	440.65	38.212	1,2
27880	C14H28O2	hexyl octanoate	1117-55-1	550.55	48.762	1,2	28083	C15H11ClO	4-chlorostyryl phenyl ketone	956-04-7	440.65	38.212	2
27881	C14H28O2	pentyl nonanoate	61531-45-1	559.87	49.665	2	28084	C15H11ClO	o-chlorostyryl phenyl ketone	3300-67-2	440.65	38.212	2
27882	C14H28O2	ethyl laurate	106-33-2	544.15	48.142	1,2	28097	C15H11I4NO4	thyroxine	7488-70-2	382.15	32.687	1,2
27883	C14H28O2	methyl tridecanoate	1731-88-0	559.87	49.665	2	28098	C15H11N	2-phenylquinoline	612-96-4	636.15	57.107	1,2
27884	C14H28O2	(R)-(+)-glycidyl undecyl ether	122608-92-8	559.87	49.665	2	28099	C15H11N	3-phenylquinoline	1666-96-2	636.15	57.107	2
27885	C14H28O2	3,7-dimethyloctanyl butyrate	67874-80-0	559.87	49.665	2	28100	C15H11N	4-phenylquinoline	605-03-8	636.15	57.107	2
27886	C14H28O2	formaldehyde cyclododecyl methyl acetal	42604-12-6	559.87	49.665	2	28101	C15H11N	6-phenylquinoline	612-95-3	636.15	57.107	2
27893	C14H28S	thiacyclopentadecane	295-51-2	580.15	51.636	1,2	28102	C15H11N	cis-4-(2-phenylvinyl)benzonitrile	14064-68-7	636.15	57.107	2
27895	C14H29Br	1-bromotetradecane	112-71-0	580.15	51.636	1,2	28103	C15H11N	1-phenylisoquinoline	3297-72-1	636.15	57.107	2
27896	C14H29Br	1-bromo-12-methyltridecane	111772-90-8	580.15	51.636	2	28104	C15H11N	a-(phenylmethylene)benzeneacetonitrile	2510-95-4	636.15	57.107	2
27897	C14H29Cl	1-chlorotetradecane	2425-54-9	569.99	50.648	1,2	28105	C15H11NO	2,4-diphenyloxazole	838-41-5	612.15	54.757	1,2
27899	C14H29F	1-fluorotetradecane	73180-09-3	531.15	46.885	1,2	28106	C15H11NO	2,5-diphenyloxazole	92-71-7	633.15	56.813	1,2
27901	C14H29I	1-iodotetradecane	19218-94-1	603.15	53.878	1,2	28107	C15H11NO	4,5-diphenyloxazole	4675-18-7	622.65	55.785	2
27903	C14H29N	N-(2-ethylhexyl)cyclohexanamine	5432-61-1	543.15	48.045	1,2	28108	C15H11NO	b-oxo-a-phenylbenzenepropanenitrile	5415-07-6	622.65	55.785	2
27904	C14H29N	1-nonylpiperidine	30538-80-8	543.15	48.045	2	28123	C15H11N3O	1-(2-pyridylazo)-2-naphthol, indicator	85-85-8	493.15	43.226	2
27905	C14H29NO	tetradecanamide	638-58-4	453.15	39.402	2	28124	C15H11N3O	5,6-diphenyl-as-triazin-3-ol	34177-12-3	493.15	43.226	2
27906	C14H29NO	N,N-dimethyldodecanamide	3007-53-2	453.15	39.402	1,2	28129	C15H12	1-methylanthracene	610-48-0	631.18	55.000	2
27907	C14H29NO	N-laurylacetamide	3886-80-4	453.15	39.402	2	28130	C15H12	2-methylanthracene	613-12-7	631.18	55.000	2
27908	C14H29NO2	1-nitrotetradecane	31241-42-6	598.15	53.390	1,2	28131	C15H12	9-methylanthracene	779-02-2	631.18	55.000	2
27912	C14H30	tetradecane	629-59-4	526.73	47.788	1,2	28132	C15H12	1-methylphenanthrene	832-69-9	627.15	56.225	1,2
27913	C14H30	2-methyltridecane	1560-96-9	521.05	45.910	1,2	28133	C15H12	3-methylphenanthrene	832-71-3	623.15	55.834	1,2
27914	C14H30	3-methyltridecane	6418-41-3	521.85	45.987	1,2	28134	C15H12	4-methylphenanthrene	832-64-4	625.00	56.000	2
27915	C14H30	2,2-dimethyldodecane	49598-54-1	513.15	45.149	1,2	28135	C15H12	2-methylphenanthrene	2531-84-2	625.00	56.000	2
27916	C14H30	2,3-dimethyldodecane	6117-98-2	520.15	45.824	1,2	28135.1	C15H12	1-phenylindene	1961-96-2	610.00	58.007	1,2
27917	C14H30	2,4-dimethyldodecane	6117-99-3	507.15	44.572	1,2	28136	C15H12Br4O2	3,3',5,5'-tetrabromobisphenol a	79-94-7	589.15	52.512	1,2
27918	C14H30	7-methyltridecane	26730-14-3	518.35	45.650	2	28140	C15H12Cl4O2	4,4'-isopropylidenebis(2,6-dichlorophenol)	79-95-8	392.95	33.701	1,2
27922	C14H30O	1-tetradecanol	112-72-1	560.15	56.176	1,2	28141	C15H12FNO	7-fluoro-2-acetamido-fluorene	343-89-5	408.65	35.181	2
27923	C14H30O	2-tetradecanol	4706-81-4	557.15	49.401	1,2	28142	C15H12FNO	1-fluoro-2-acetylaminofluorene	2824-10-4	408.65	35.181	2
27924	C14H30O	3-tetradecanol	1653-32-3	552.35	48.936	2	28143	C15H12FNO	3-fluoro-2-acetylaminofluorene	2823-93-0	408.65	35.181	2
27925	C14H30O	12-methyl-1-tridecanol	21987-21-3	552.35	48.936	2	28144	C15H12FNO	4-fluoro-2-acetylaminofluorene	2823-91-8	408.65	35.181	2
27926	C14H30O	2-methyl-3-tridecanol	98930-89-3	547.15	48.432	1,2	28145	C15H12FNO	5-fluoro-2-acetylaminofluorene	2823-90-7	408.65	35.181	2
27927	C14H30O	2-methyl-4-tridecanol	36691-77-7	552.35	48.936	2	28146	C15H12FNO	6-fluoro-2-acetylaminofluorene	2823-94-1	408.65	35.181	1,2
27928	C14H30O	diheptyl ether	629-64-1	535.15	47.271	1,2	28147	C15H12FNO	8-fluoro-2-acetylaminofluorene	2823-95-2	408.65	35.181	2
27929	C14H30O	tetradecanol; mixed isomers	27196-00-5	562.15	49.886	1,2	28148	C15H12FNO2	7-fluoro-2-N-(fluorenyl)acethydroxamic acid	2508-18-1	479.15	41.884	1,2
27930	C14H30O2	1,2-tetradecanediol	21129-09-9	609.15	54.464	2	28150	C15H12INO	N-(3-iodo-2-fluorenyl)acetamide	14722-22-6	496.15	43.514	1,2
27931	C14H30O2	1,3-tetradecanediol	---	620.15	55.540	2	28152	C15H12I3NO4	liothyronine	6893-02-3	505.15	44.379	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
28153	C15H12N2	1,3-diphenyl-1H-pyrazole	4492-01-7	558.40	49.523	2	28303	C15H14O2	3-benzyloxyacetophenone	34068-01-4	571.40	50.785	2
28154	C15H12N2	1,5-diphenyl-1H-pyrazole	6831-89-6	611.15	54.660	1,2	28304	C15H14O2	2-bibenzylcarboxylic acid	4890-85-1	532.15	46.982	1,2
28155	C15H12N2	4,5-diphenylimidazole	668-94-0	558.40	49.523	2	28305	C15H14O2	2-biphenylyl glycidyl ether	7144-65-2	571.40	50.785	2
28156	C15H12N2	N-(diphenylmethylene)aminoacetonitrile	70591-20-7	558.40	49.523	2	28306	C15H14O2	3,3-diphenylpropionic acid	606-83-7	571.40	50.785	2
28157	C15H12N2	3,5-diphenylpyrazole	1145-01-3	558.40	49.523	2	28307	C15H14O2	4-ethylbiphenyl-4'-carboxylic acid	5731-13-5	571.40	50.785	2
28158	C15H12N2	2-cyano-4-stilbenamine	41427-34-3	505.65	44.427	1,2	28308	C15H14O2	benzyl phenylacetate	102-16-9	571.40	50.785	2
28159	C15H12N2O	5H-dibenz[b,f]azepine-5-carboxamide	298-46-4	558.25	49.508	2	28309	C15H14O2	2-phenylethyl benzoate	94-47-3	571.40	50.785	2
28160	C15H12N2O	1-benzyl-2(1H)-cycloheptimidazolone	363-13-3	558.25	49.508	1,2	28345	C15H15F3N2O2	a-isopropyl-a-(p-(trifluoromethoxy)phenyl)-5*	56425-91-3	537.15	47.465	1,2
28161	C15H12N2O	1,3-diphenyl-5-pyrazolone	4845-49-2	558.25	49.508	2	28356	C15H15NO2	ethyl diphenylcarbamate	603-52-1	633.15	56.813	1,2
28162	C15H12N2OS	5,5-diphenyl-2-thiohydantoin	21083-47-6	477.15	41.693	1,2	28357	C15H15NO2	anthranilic acid, phenethyl ester	133-18-6	633.15	56.813	2
28163	C15H12N2O2	1,4-diphenyl-3,5-pyrazolidinedione	3426-01-5	554.15	49.111	2	28358	C15H15NO2	N-(2,3-xylyl)anthranilic acid	61-68-7	633.15	56.813	2
28165	C15H12N2O2	4-amino-1-methylaminoanthraquinone	1220-94-6	554.15	49.111	1,2	28372	C15H15N5	N,N-dimethyl-p-(4-benzimidazolyazo)aniline	18463-86-0	494.15	43.322	2
28166	C15H12N2O2	N-9H-fluoren-2-yl-N-nitrosoacetamide	114119-92-5	554.15	49.111	2	28373	C15H15N5	N,N-dimethyl-p-(6-indazylazo)aniline	17309-87-4	494.15	43.322	1,2
28173	C15H12O	10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-o*	1210-35-1	618.48	55.377	2	28379	C15H16	1,1-diphenylpropane	1530-03-6	556.37	49.326	1,2
28174	C15H12O	5,11-dihydro-10H-dibenzo[a,d]cyclohepten-10-*	6374-70-5	618.48	55.377	2	28380	C15H16	1,2-diphenylpropane	5814-85-7	556.81	49.368	1,2
28175	C15H12O	2,3-dihydro-2-phenyl-1H-inden-1-one	16619-12-8	617.15	55.246	1,2	28381	C15H16	1,3-diphenylpropane	1081-75-0	571.85	50.829	1,2
28176	C15H12O	1,3-diphenyl-2-propen-1-one	94-41-7	619.15	55.442	2	28382	C15H16	2,2-diphenylpropane	778-22-3	554.34	49.129	1,2
28177	C15H12O	trans-1,3-diphenyl-2-propen-1-one	614-47-1	619.15	55.442	2	28383	C15H16	2-methyl-1,1-diphenylethane	32341-92-7	562.15	49.886	1,2
28178	C15H12O	2-acetylfluorene	781-73-7	618.48	55.377	2	28384	C15H16	3-methyl-1,1-diphenylethane	32341-91-6	561.15	49.789	1,2
28179	C15H12O	9-anthracenemethanol	1468-95-7	618.48	55.377	2	28385	C15H16	4-methyl-1,1-diphenylethane	3717-68-8	563.15	49.984	1,2
28180	C15H12O	1,1-diphenyl-2-propyn-1-ol	3923-52-2	618.48	55.377	2	28386	C15H16	2-methyl-1,2-diphenylethane	34403-05-9	570.15	50.663	1,2
28181	C15H12O	3-phenyl-1-indanone	16618-72-7	618.48	55.377	2	28387	C15H16	3-methyl-1,2-diphenylethane	34403-06-0	569.15	50.566	1,2
28182	C15H12O	5,7-dihydro-6H-dibenzo(a,c)cyclohepten-6-one	1139-82-8	618.48	55.377	2	28388	C15H16	4-methyl-1,2-diphenylethane	14310-20-4	561.15	49.789	1,2
28183	C15H12O	a-(phenylmethylene)benzeneacetaldehyde	13702-35-7	618.48	55.377	2	28389	C15H16	2-ethyldiphenylmethane	28122-25-0	564.01	50.067	1,2
28184	C15H12O	bicyclo(4.2.0)octa-1,3,5-trien-7-yl phenyl k*	6809-94-5	618.48	55.377	2	28390	C15H16	3-ethyldiphenylmethane	28122-24-9	564.69	50.133	1,2
28193	C15H12O3	methyl 2-benzoylbenzoate	606-28-0	624.15	55.931	1,2	28391	C15H16	4-ethyldiphenylmethane	620-85-9	570.18	50.666	1,2
28194	C15H12O3	2-(4-methylbenzoyl)benzoic acid	85-55-2	551.15	48.820	2	28392	C15H16	2',3'-dimethyldiphenylmethane	62155-16-2	570.15	50.663	1,2
28195	C15H12O3	2-acetyl-7-methoxynaphtho(2,1-b)furan	77523-56-9	551.15	48.820	2	28393	C15H16	2',4'-dimethyldiphenylmethane	28122-28-3	569.15	50.566	1,2
28196	C15H12O3	o-benzoyl phenylacetic acid	23107-96-2	551.15	48.820	2	28394	C15H16	2',5'-dimethyldiphenylmethane	13540-50-6	568.15	50.469	1,2
28197	C15H12O3	chrysarobin	491-59-8	478.15	41.789	1,2	28395	C15H16	2',6'-dimethyldiphenylmethane	---	570.15	50.663	1,2
28198	C15H12O4	2-(4-methoxybenzoyl)benzoic acid	1151-15-1	498.15	43.706	2	28396	C15H16	3',4'-dimethyldiphenylmethane	13540-56-2	571.15	50.761	1,2
28199	C15H12O4	methylene glycol dibenzoate	5342-31-4	498.15	43.706	2	28397	C15H16	3',5'-dimethyldiphenylmethane	28122-27-2	567.15	50.372	1,2
28200	C15H12O4	phenyl 2-(acetyloxy)benzoate	134-55-4	498.15	43.706	2	28398	C15H16	2',2"-dimethyldiphenylmethane	28122-29-4	570.15	50.663	1,2
28201	C15H12O4	mono(phenylmethyl) 1,2-benzenedicarboxylate	2528-16-7	498.15	43.706	2	28399	C15H16	2',3"-dimethyldiphenylmethane	21895-13-6	568.15	50.469	1,2
28202	C15H12O4	3-oxo-3H-naphtho(2,1-b)pyran-2-carboxylic ac*	734-88-3	498.15	43.706	2	28400	C15H16	2',4"-dimethyldiphenylmethane	21895-17-0	571.15	50.761	1,2
28210	C15H13ClN2	chlormidazole	3689-76-7	514.15	45.245	1,2	28401	C15H16	3',3"-dimethyldiphenylmethane	---	567.15	50.372	1,2
28212	C15H13ClO4	2-(4-(4-chlorophenoxy)phenoxy)propionic acid	26129-32-8	475.95	41.578	1,2	28402	C15H16	3',4"-dimethyldiphenylmethane	21895-16-9	570.15	50.663	1,2
28229	C15H13NO2	2-benzoylacetanilide	85-99-4	558.90	49.571	2	28403	C15H16	4',4"-dimethyldiphenylmethane	4957-14-6	573.15	50.955	1,2
28230	C15H13NO2	2-acetylamino-9-fluorenol	57229-41-1	567.15	50.372	1,2	28404	C15H16	4-isopropylbiphenyl	7116-95-2	559.05	49.586	1,2
28231	C15H13NO2	1-fluorenyl acethydroxamic acid	22251-01-0	558.90	49.571	2	28405	C15H16	2-(1-methylethyl)-1,1'-biphenyl	19486-60-3	542.95	48.026	1,2
28232	C15H13NO2	3-fluorenyl acethydroxamic acid	22225-32-7	558.90	49.571	2	28406	C15H16	4-n-propylbiphenyl	10289-45-9	564.76	50.140	2
28233	C15H13NO2	1-hydroxy-2-acetamidofluorene	2784-86-3	558.90	49.571	2	28407	C15H16	2-propyl-1,1'-biphenyl	20282-28-4	550.35	48.742	1,2
28234	C15H13NO2	7-hydroxy-2-acetaminofluorene	363-49-5	558.90	49.571	2	28408	C15H16	isopropylbiphenyl	25640-78-2	564.76	50.140	2
28235	C15H13NO2	3-hydroxy-N-acetyl-2-aminofluorene	1838-56-8	550.65	48.771	1,2	28416	C15H16N2O	N,N'-dimethyl-N,N'-diphenylurea	611-92-7	623.15	55.834	1,2
28236	C15H13NO2	N-hydroxy-N-acetyl-2-aminofluorene	53-95-2	558.90	49.571	2	28417	C15H16N2O	N'-ethyl-N,N-diphenylurea	18168-01-9	623.15	55.834	2
28237	C15H13NO2	5-hydroxy-N-2-fluorenylacetamine	1147-55-3	558.90	49.571	2	28418	C15H16N2O	2-(p-aminophenyl)-2-phenylpropionamide	61706-44-3	623.15	55.834	2
28245	C15H13N3O	7-amino-1,3-dihydro-5-phenyl-2H-1,4-benzodia*	4928-02-3	501.15	43.995	2	28419	C15H16N2O	neuralex	7654-03-7	623.15	55.834	2
28246	C15H13N3O	1-(2-isoquinolyl)-5-methyl-4-pyrazolyl methy*	21621-78-3	501.15	43.995	1,2	28420	C15H16N2O	phenylacetic acid 2-benzylhydrazide	1087-35-0	623.15	55.834	2
28247	C15H13N3O	methyl 5-methyl-1-(2-quinolyl)-4-pyrazolyl k*	21621-75-0	501.15	43.995	2	28428	C15H16N4O5S	sulfometuron methyl	74222-97-2	470.15	41.024	1,2
28250	C15H14	1,1-diphenyl-1-propene	778-66-5	562.15	49.886	1,2	28429	C15H16O	p-cumylphenol	599-64-4	608.15	61.170	1,2
28251	C15H14	1,2-diphenyl-1-propene	779-51-1	558.65	49.547	1,2	28430	C15H16O	1-methoxy-4-(1-phenylethyl)benzene	2605-18-7	585.00	52.108	2
28252	C15H14	1,3-diphenyl-1-propene	5209-18-7	575.15	51.149	1,2	28431	C15H16O	beta-phenylbenzenepropanol	3536-29-6	583.15	51.928	1,2
28253	C15H14	2,3-diphenyl-1-propene	948-97-0	562.15	49.886	1,2	28432	C15H16O	3,3-diphenyl-1-propanol	20017-67-8	585.00	52.108	2
28254	C15H14	2,3-dihydro-2-phenyl-1H-indene	22253-11-8	523.65	46.161	2	28433	C15H16O	1,1-diphenyl-2-propanol	29338-49-6	585.00	52.108	2
28255	C15H14	dibenzosuberane	833-48-7	435.65	37.737	1,2	28434	C15H16O	a-methyl-a-phenylbenzeneethanol	5342-87-0	563.70	50.037	1,2
28256	C15H14	trans-a-methylstilbene	833-81-8	558.65	49.547	1,2	28435	C15H16O	a-(phenylmethyl)benzeneethanol	5381-92-0	585.00	52.108	2
28257	C15H14	trans-1,2-diphenylcyclopropane	1138-47-2	523.65	46.161	2	28436	C15H16O2	bisphenol a	80-05-7	633.65	72.178	1,2
28258	C15H14	cis-1,2-diphenylcyclopropane	1138-48-3	523.65	46.161	2	28437	C15H16O2	1,1-bis(4-hydroxyphenyl)propane	1576-13-2	622.90	55.809	2
28259	C15H14	1,2-diphenylcyclopropane	29881-14-9	413.15	35.606	1,2	28438	C15H16O2	1,2-diphenoxypropane	69813-63-4	622.90	55.809	2
28260	C15H14	9-ethylfluorene	2294-82-8	523.65	46.161	2	28439	C15H16O2	1,3-diphenoxypropane	726-44-3	612.15	54.757	1,2
28261	C15H14	1,9-dimethylfluorene	17057-98-6	523.65	46.161	2	28440	C15H16O2	4-(6-methoxy-2-naphthyl)-2-butanone	42924-53-8	622.90	55.809	2
28267	C15H14Cl2F3N3O3	carfentrazone-ethyl	128639-02-1	625.65	56.078	1,2	28446	C15H16O6	picrotoxinin	17617-45-7	486.65	42.603	1,2
28285	C15H14O	3,4-dihydro-2-phenyl-2H-1-benzopyran	494-12-2	605.15	54.073	1,2	28463	C15H17N	N-benzyl-N-ethylaniline	92-59-1	561.15	49.789	1,2
28286	C15H14O	4,4'-dimethylbenzophenone	611-97-2	607.15	54.269	1,2	28464	C15H17N	(S)-(-)-N-benzyl-a-methylbenzylamine	17480-69-2	580.90	51.709	2
28287	C15H14O	(2,4-dimethylphenyl)phenylmethanone	1140-14-3	594.65	53.048	1,2	28465	C15H17N	(R)-(+)-N-benzyl-a-methylbenzylamine	38235-77-7	580.90	51.709	2
28288	C15H14O	(3,4-dimethylphenyl)phenylmethanone	2571-39-3	614.15	54.953	1,2	28466	C15H17N	N-benzyl-2-phenethylamine	3647-71-0	600.65	53.634	1,2
28289	C15H14O	1,1-diphenyl-2-propanone	781-35-1	580.15	51.636	1,2	28467	C15H17N	3,3-diphenylpropylamine	5586-73-2	580.90	51.709	2
28290	C15H14O	1,3-diphenyl-2-propanone	102-04-5	604.15	53.976	1,2	28468	C15H17N	3,2',5'-trimethyl-4-aminodiphenyl	73728-79-7	580.90	51.709	2
28291	C15H14O	(2-methylphenyl)(4-methylphenyl)methanone	1140-16-5	590.15	52.610	1,2	28482	C15H17N3O	4-amino-4'-hydroxy-2,3',5'-trimethylazobenze*	21644-95-1	464.15	40.451	2
28292	C15H14O	trans-1-methoxy-4-(2-phenylvinyl)benzene	1694-19-5	599.36	53.508	2	28483	C15H17N3O	N,N-dimethyl-p-(2-methoxyphenylazo)aniline	3009-55-0	464.15	40.451	2
28293	C15H14O	dibenzosuberol	1210-34-0	599.36	53.508	2	28484	C15H17N3O	N,N-dimethyl-p-(3-methoxyphenylazo)aniline	20691-83-2	464.15	40.451	2
28294	C15H14O	3,4'-dimethylbenzophenone	13152-94-8	599.36	53.508	2	28485	C15H17N3O	N,N-dimethyl-p-(4-methoxyphenylazo)aniline	3009-50-5	464.15	40.451	2
28295	C15H14O	9,9-dimethylxanthene	19814-75-6	599.36	53.508	2	28486	C15H17N3O	N,N-dimethyl-4-phenylazo-o-anisidine	2438-49-5	464.15	40.451	2
28296	C15H14O	4-ethylbenzophenone	18220-90-1	599.36	53.508	2	28487	C15H17N3O	2'-hydroxymethyl-N,N-dimethyl-4-aminoazobenz*	35282-68-9	464.15	40.451	2
28297	C15H14O	4-methoxystilbene	1142-15-0	599.36	53.508	2	28488	C15H17N3O	3'-hydroxymethyl-N,N-dimethyl-4-aminoazobenz*	35282-69-0	464.15	40.451	1,2
28298	C15H14O	4-biphenylyl ethylketone	37940-57-1	599.36	53.508	2	28495	C15H18	2-pentylnaphthalene	93-22-1	583.16	56.287	1,2
28299	C15H14O	phenyl xylyl ketone	1322-78-7	599.36	53.508	2	28496	C15H18	1,6-dimethyl-4-isopropylnaphthalene	483-78-3	567.15	50.372	1,2
28300	C15H14O2	2-methoxy-1,2-diphenylethanone	3524-62-7	571.40	50.785	2	28497	C15H18	1-pentylnaphthalene	86-89-5	580.15	56.012	1,2
28301	C15H14O2	alpha-methyl-alpha-phenylbenzeneacetic acid	5558-66-7	571.40	50.785	2	28498	C15H18	1,4-dimethyl-7-isopropylazulene	489-84-9	576.82	51.312	2
28302	C15H14O2	alpha-phenylbenzenepropanoic acid, (±)	94942-89-9	610.65	54.611	1,2	28499	C15H18	4,8-dimethyl-2-isopropylazulene	529-08-8	576.82	51.312	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
28500	C15H18ClN3O	cyproconazole	94361-06-5	523.15	46.113	1,2	28732	C15H24	copaene	3856-25-5	521.65	45.968	1,2
28503	C15H18N2	N-isopropyl-N'-phenyl-1,4-phenylenediamine	101-72-4	434.15	37.595	1,2	28733	C15H24	alpha-farnesene	502-61-4	530.01	46.774	2
28504	C15H18N2	4,4'-methylenebis(N-methylaniline)	1807-55-2	434.15	37.595	2	28734	C15H24	beta-farnesene	18794-84-8	530.01	46.774	2
28505	C15H18N2	4,4'-methylenebis(2-methylaniline)	838-88-0	434.15	37.595	2	28735	C15H24	1,2,4a,5,8,8a-hexahydro-4,7-dimethyl-1-isopr*	523-47-7	547.15	48.432	1,2
28506	C15H18N2O	1-(4-amino-1-ethyl-2-methyl-5-phenyl-1H-pyrr*	56464-20-1	513.15	45.149	2	28736	C15H24	cis-1,2,3,5,6,8a-hexahydro-4,7-dimethyl-1-is*	483-76-1	530.01	46.774	2
28507	C15H18N2O	1-(4-(dimethylamino)-2-methyl-5-phenyl-1H-py*	56464-05-2	513.15	45.149	2	28737	C15H24	humulene	6753-98-6	530.01	46.774	2
28508	C15H18N2O	indolyl-3-piperidinomethyl ketone	30256-73-6	513.15	45.149	2	28738	C15H24	longifolene	475-20-7	531.15	46.885	1,2
28509	C15H18N2O	quinpyrrolidine	32226-69-0	513.15	45.149	2	28739	C15H24	1-methyl-4-(5-methyl-1-methylene-4-hexenyl)c*	495-61-4	530.01	46.774	2
28518	C15H18N2O6Pt	4-carboxyphthalato(1,2-diaminocyclohexane)pl*	65296-81-3	423.15	36.552	2	28740	C15H24	6-vinyl-6-methyl-1-isopropyl-3-(1-methylethy*	5951-67-7	530.01	46.774	2
28520	C15H18N4O	4-((4-(diethylamino)phenyl)azo)pyridine-1-ox*	7347-49-1	443.65	38.497	2	28741	C15H24	thujopsene	470-40-6	530.01	46.774	2
28521	C15H18N4O	4-((p-(dimethylamino)phenyl)azo)-2,5-lutidin*	19471-27-3	443.65	38.497	2	28742	C15H24	1-vinyl-1-methyl-2,4-bis(1-methylvinyl)cyclo*	33880-83-0	530.01	46.774	2
28522	C15H18N4O	4-((p-(dimethylamino)phenyl)azo)-3,5-lutidin*	19456-77-0	460.15	40.069	2	28743	C15H24	(-)-a-cubebene	17699-14-8	518.65	45.679	1,2
28523	C15H18N4O	4-((4-(dimethylamino)phenyl)azo)-2,6-lutidin*	7349-99-7	456.15	39.687	1,2	28744	C15H24	(+)-cyclosativene	22469-52-9	530.01	46.774	2
28524	C15H18N4O	4-((4-(dimethylamino)-o-tolyl)azo)-2-picolin*	7347-48-0	422.15	36.457	1,2	28745	C15H24	(-)-isocaryophyllene	118-65-0	545.15	48.239	1,2
28525	C15H18N4O	4-((4-(dimethylamino)-m-tolyl)azo)-3-picolin*	19456-74-7	436.15	37.785	1,2	28746	C15H24	trimethyl-1,5,9-cyclododecatriene, isomers	27193-69-7	530.01	46.774	2
28526	C15H18N4O	4-((4-(dimethylamino)-o-tolyl)azo)-3-picolin*	19471-28-4	443.65	38.497	2	28747	C15H24	valencene	4630-07-3	530.01	46.774	2
28527	C15H18N4O	4-((4-(dimethylamino)-2,3-xylyl)azo)pyridine*	19456-73-6	443.65	38.497	2	28748	C15H24	a-cedrene	469-61-4	530.01	46.774	2
28528	C15H18N4O	4-((4-(dimethylamino)-2,5-xylyl)azo)pyridine*	19456-75-8	443.65	38.497	2	28749	C15H24	guaia-1(5),7(11)-diene	88-84-6	530.01	46.774	2
28529	C15H18N4O	4-((4-(dimethylamino)-3,5-xylyl)azo)pyridine*	19595-66-5	443.65	38.497	2	28751	C15H24N2O	aphylline	577-37-7	473.15	41.310	2
28530	C15H18N4O5	mitomycin c	50-07-7	807.15	74.056	1,2	28752	C15H24N2O	matridin-15-one	519-02-8	468.90	40.904	2
28532	C15H18O	1-(3-methylbutoxy)naphthalene	20213-30-3	591.15	52.707	1,2	28753	C15H24N2O	lupanine	550-90-3	464.65	40.498	1,2
28533	C15H18O	2-(3-methylbutoxy)naphthalene	635-88-1	598.15	53.390	2	28756	C15H24O	2,6-di-tert-butyl-p-cresol	128-37-0	538.00	52.724	1,2
28534	C15H18O	1-naphthyl pentyl ether	108438-40-0	595.15	53.097	1,2	28757	C15H24O	nonylphenol	25154-52-3	581.00	61.937	1,2
28535	C15H18O	2-(pentyloxy)naphthalene	31059-19-5	608.15	54.366	1,2	28758	C15H24O	2,4-di-tert-butyl-5-methylphenol	497-39-2	555.15	49.207	1,2
28552	C15H19NO	a-((isopropylamino)methyl)-2-naphthalenemeth*	54-80-8	494.15	43.322	1,2	28759	C15H24O	2,4-di-tert-butyl-6-methylphenol	616-55-7	542.15	47.948	1,2
28553	C15H19NO2	o-benzoyltropine	19145-60-9	450.65	39.163	1,2	28760	C15H24O	alpha-santalol	115-71-9	574.65	51.101	1,2
28554	C15H19NO2	tropacocaine	537-26-8	450.65	39.163	2	28761	C15H24O	beta-santalol	77-42-9	553.43	49.040	2
28576	C15H19N5O7S	cinosulfuron	94593-91-6	497.15	43.610	1,2	28762	C15H24O	3,7,11-trimethyl-2,6,10-dodecatrienal	19317-11-4	553.43	49.040	2
28590	C15H20N6O4	adenosine-5'-(N-cyclopentyl)carboxamide	35920-40-2	487.15	42.651	1,2	28763	C15H24O	(-)-caryophyllene oxide	1139-30-6	553.43	49.040	2
28593	C15H20O2	alantolactone	546-43-0	548.15	48.529	1,2	28764	C15H24O	4-nonylphenol	104-40-5	568.15	50.469	1,2
28594	C15H20O2	helenine	1407-14-3	548.15	48.529	1,2	28765	C15H24O	4-nonylphenol, isomers	84852-15-3	568.15	50.469	1,2
28604	C15H21AlO6	aluminum acetylacetonate	13963-57-0	588.15	52.415	1,2	28766	C15H24O	(-)-8-phenylmenthol	65253-04-5	553.43	49.040	2
28609	C15H21CrO6	chromium acetylacetonate	21679-31-2	618.15	55.344	1,2	28767	C15H24O	a-cyclocitrylidene-4-methylbutan-3-one	72117-72-7	500.15	43.899	1,2
28637	C15H21N3O	primaquine	90-34-6	450.15	39.116	1,2	28768	C15H24O	epoxyguaiene	68071-23-8	553.43	49.040	2
28638	C15H21N3O	5-(3-(dimethylamino)propoxy)-3-methyl-1-phen*	15083-53-1	450.15	39.116	2	28769	C15H24O	oil of sandalwood, east indian	8006-87-9	553.43	49.040	2
28647	C15H22	1-pentyl-[1,2,3,4-tetrahydronaphthalene]	66359-06-6	562.78	49.948	1,2	28770	C15H24O2	4-butylbenzaldehyde diethyl acetal	83803-80-9	523.15	46.113	1,2
28648	C15H22	2-pentyl-[1,2,3,4-tetrahydronaphthalene]	66359-07-7	568.15	50.469	1,2	28771	C15H24O2	3,5-di-tert-butyl-4-hydroxybenzyl alcohol	88-26-6	523.15	46.113	2
28649	C15H22	1-(1,5-dimethyl-4-hexenyl)-4-methylbenzene	644-30-4	565.39	50.201	2	28772	C15H24O2	2,6-di-tert-butyl-4-methoxyphenol	489-01-0	523.15	46.113	2
28650	C15H22	5-hexyl-2,3-dihydro-1H-indene	54889-55-3	565.25	50.187	1,2	28773	C15H24O2	cyclamen aldehyde dimethyl acetal	29886-96-2	523.15	46.113	2
28652	C15H22ClNO2	meperidine hydrochloride	50-13-5	555.15	49.207	2	28774	C15H24O2	geranyl tiglate	7785-33-3	523.15	46.113	2
28653	C15H22ClNO2	metolachlor	51218-45-2	555.15	49.207	2	28775	C15H24O2	germacr-1(10)-ene-5,8-dione	13657-68-6	523.15	46.113	2
28654	C15H22ClNO2	S-metolachlor	87392-12-9	555.15	49.207	1,2	28776	C15H24O2	a-ionyl acetate	52210-18-1	523.15	46.113	2
28655	C15H22ClNO2	N-isobutoxymethyl-2-chloro-2',6'-dimethylace*	24353-58-0	555.15	49.207	2	28778	C15H24O8	tetraethyl 1,1,2,3-propanetetracarboxylate	635-03-0	578.15	51.441	2
28664	C15H22O	alpha-vetivone	15764-04-2	573.15	50.955	2	28779	C15H24O8	tetraethyl 1,1,3,3-propanetetracarboxylate	2121-66-6	578.15	51.441	2
28665	C15H22O	beta-vetivone	18444-79-6	573.15	50.955	2	28785	C15H26N2	sparteine	90-39-1	598.15	53.390	1,2
28666	C15H22O	3,5-bis(tert-butyl)benzaldehyde	17610-00-3	573.15	50.955	2	28786	C15H26N2	pachycarpine	492-08-0	598.15	53.390	2
28667	C15H22O	(1R,2S)-(-)-trans-2-(1-methyl-1-phenylethyl)*	109527-43-7	573.15	50.955	1,2	28787	C15H26O	cedrol	77-53-2	510.98	44.940	2
28668	C15H22O	(1S,2R)-(+)-trans-2-(1-methyl-1-phenylethyl)*	109527-45-9	573.15	50.955	1,2	28788	C15H26O	2-cis,6-trans-farnesol	3790-71-4	510.98	44.940	2
28669	C15H22O	n-nonaphenone	6008-36-2	573.15	50.955	2	28789	C15H26O	2-trans,6-trans-farnesol	106-28-5	510.98	44.940	2
28670	C15H22O	4-octylbenzaldehyde	49763-66-8	573.15	50.955	2	28790	C15H26O	guaiol	489-86-1	561.15	49.789	2
28671	C15H22O2	4-octylbenzoic acid	3575-31-3	462.15	40.260	2	28791	C15H26O	juniperol	465-24-7	560.15	49.692	2
28672	C15H22O2	p-(octyloxy)benzaldehyde	24083-13-4	462.15	40.260	2	28792	C15H26O	ledol	577-27-5	565.15	50.178	1,2
28673	C15H22O2	3,5-di-tert-butyl-4-hydroxybenzaldehyde	1620-98-0	462.15	40.260	2	28793	C15H26O	cis-nerolidol	142-50-7	549.15	48.626	1,2
28674	C15H22O2	3,5-di-tert-butylbenzoic acid	16225-26-6	462.15	40.260	2	28794	C15H26O	patchouli alcohol	5986-55-0	510.98	44.940	2
28675	C15H22O2	amylisoeugenol	10484-36-3	462.15	40.260	2	28795	C15H26O	bisabolol	515-69-5	427.15	36.931	1,2
28676	C15H22O2	3-(3-cyclohexenyl)-2,4-dioxaspiro(5.5)undec-*	1820-50-4	462.15	40.260	2	28796	C15H26O	farnesol	4602-84-0	403.15	34.662	1,2
28677	C15H22O2	eudesma-3,11(13)-dien-12-oic acid	28399-17-9	462.15	40.260	1,2	28797	C15H26O	trans-nerolidol	40716-66-3	510.98	44.940	2
28678	C15H22O2	p-tolyl octanoate	59558-23-5	462.15	40.260	2	28798	C15H26O	nerolidol	7212-44-4	510.98	44.940	2
28679	C15H22O3	2-[2-(benzyloxy)ethyl]-5,5-dimethyl-1,3-diox*	116376-29-5	446.90	38.806	2	28799	C15H26O2	bornyl 3-methylbutanoate, (1R)	53022-14-3	530.65	46.837	1,2
28680	C15H22O3	ethyl 3-(1-adamantyl)-3-oxopropionate	19386-06-2	446.90	38.806	2	28800	C15H26O2	geranyl isovalerate	109-20-6	530.65	46.837	2
28681	C15H22O3	2-ethylhexyl salicylate	118-60-5	462.15	40.260	1,2	28801	C15H26O2	hysterol	76-50-6	530.65	46.837	2
28682	C15H22O3	gemfibrozil	25812-30-0	431.65	37.358	1,2	28802	C15H26O2	isoamyl geranate	68133-73-3	530.65	46.837	2
28683	C15H22O3	4-octyloxybenzoic acid	2493-84-7	446.90	38.806	2	28803	C15H26O2	linalyl isovalerate	1118-27-0	530.65	46.837	2
28685	C15H22O3	all-trans-fecapentaene 12	91423-46-0	446.90	38.806	2	28804	C15H26O2	neryl isovalerianate	3915-83-1	530.65	46.837	2
28686	C15H22O3	salicylic acid octyl ester	6969-49-9	446.90	38.806	2	28808	C15H26O6	tributyrin	60-01-5	580.65	51.685	1,2
28687	C15H22O5	artemisinine	63968-64-9	548.90	48.602	2	28811	C15H27NO2S	lauric acid, 2-thiocyanatoethyl ester	301-11-1	452.15	39.306	1,2
28688	C15H22O5	hymenovin	57074-51-8	548.90	48.602	2	28813	C15H27N3O	2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	405.65	34.898	1,2
28689	C15H22O5	hymenoxon	57377-32-9	562.15	49.886	1,2	28814	C15H27O7P	furfuryl alcohol phosphate (3:1)	10427-00-6	522.15	46.016	1,2
28690	C15H22O5	octyl gallate	1034-01-1	535.65	47.320	1,2	28815	C15H28	1,1-dicyclohexylpropane	54934-91-7	556.71	49.359	1,2
28700	C15H23NO3	4-nitrophenyl nonyl ether	86702-46-7	449.15	39.021	1,2	28816	C15H28	1,2-dicyclohexylpropane	41851-34-7	557.65	49.450	1,2
28701	C15H23NO3	coretal	6452-71-7	449.15	39.021	2	28817	C15H28	1,3-dicyclohexylpropane	3178-24-3	564.65	50.129	1,2
28704	C15H24ClNO	b-sec-butyl-3-chloro-N,N-dimethyl-4-methoxyp*	27778-78-5	573.15	50.955	1,2	28818	C15H28	2,2-dicyclohexylpropane	54934-90-6	559.15	49.595	1,2
28705	C15H24ClNO	b-sec-butyl-5-chloro-N,N-dimethyl-2-methoxyp*	33132-85-3	573.15	50.955	2	28819	C15H28	1-decylcyclopentene	62184-75-2	542.15	47.948	1,2
28725	C15H24	nonylbenzene	1081-77-2	555.20	51.572	1,2	28820	C15H28	1-pentadecyne	765-13-9	541.16	50.869	1,2
28726	C15H24	1,2,4-triisopropylbenzene	948-32-3	517.15	39.055	1,2	28821	C15H28	2-pentadecyne	52112-25-1	553.15	49.014	1,2
28727	C15H24	1,3,5-triisopropylbenzene	717-74-8	511.15	37.300	1,2	28822	C15H28	3-pentadecyne	61886-61-1	544.15	48.142	1,2
28728	C15H24	3,5-di-tert-butyltoluene	15181-11-0	517.15	39.055	1,2	28827	C15H28O2	menthol 3-methylbutanoate	16409-46-4	547.08	48.425	2
28729	C15H24	gamma-cadinene	39029-41-9	530.01	46.774	2	28829	C15H28O2	butyl 10-undecenoate	109-42-2	547.08	48.426	2
28730	C15H24	caryophyllene	87-44-5	530.01	46.774	2	28830	C15H28O3	lauric acid 2,3-epoxypropyl ester	1984-77-6	445.65	38.688	2
28731	C15H24	cedrene	11028-42-5	535.65	47.320	1,2	28831	C15H28O3	11-oxahexadecanolide	3391-83-1	445.65	38.688	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
28832	C15H28O3	12-oxahexadecanolide	6707-60-4	445.65	38.688	2	28929	C15H33BO3	tri-n-pentyl borate	621-78-3	283.15	23.513	1,2
28833	C15H28O3	oxalide	1725-01-5	445.65	38.688	1,2	28931	C15H33N	pentadecylamine	2570-26-5	586.15	52.220	1,2
28834	C15H28O4	diethyl dibutylmalonate	596-75-8	602.10	53.775	2	28932	C15H33N	methyltetradecylamine	29369-63-9	566.15	50.275	1,2
28835	C15H28O4	dimethyl brassylate	1472-87-3	602.10	53.775	1,2	28933	C15H33N	ethyltridecylamine	59570-06-8	565.15	50.178	1,2
28836	C15H28O4S2Sn	2,2-dibutyl-1,3-dioxa-2-stanna-7,9-dithiacyc*	3231-93-4	469.65	40.976	1,2	28934	C15H33N	dimethyltridecylamine	17373-29-4	560.15	49.692	1,2
28837	C15H29Br	cis-1-bromo-1-pentadecene	66374-76-3	582.15	51.831	1,2	28935	C15H33N	diethylundecylamine	54334-64-4	536.15	47.368	1,2
28838	C15H29Br	trans-1-bromo-1-pentadecene	66374-77-4	582.15	51.831	1,2	28936	C15H33N	tripentylamine	621-77-2	516.15	45.438	1,2
28839	C15H29Br3	1,1,1-tribromopentadecane	62127-71-3	652.15	58.679	1,2	28937	C15H33N	triisopentylamine	645-41-0	508.15	44.668	1,2
28840	C15H29Cl	cis-1-chloro-1-pentadecene	66374-78-5	587.15	52.317	1,2	28938	C15H33N	tris(2-methylbutyl)amine	620-43-9	505.15	44.379	1,2
28841	C15H29Cl	trans-1-chloro-1-pentadecene	66374-79-6	587.15	52.317	1,2	28939	C15H33NO	laurixamine	7617-74-5	588.15	52.415	1,2
28842	C15H29Cl3	1,1,1-trichloropentadecane	62108-59-2	616.15	55.148	1,2	28940	C15H33NO6	tris[2-(2-methoxyethoxy)ethyl]amine	70384-51-9	603.15	53.878	1,2
28843	C15H29F	cis-1-fluoro-1-pentadecene	66291-42-7	546.03	48.324	2	28964	C16H8N2O4	3,7-dinitrofluoranthene	105735-71-5	1,060.15	99.672	2
28844	C15H29F	trans-1-fluoro-1-pentadecene	66291-43-8	546.03	48.324	2	28965	C16H8N2O4	3,9-dinitrofluoranthene	22506-53-2	1,060.15	99.672	2
28845	C15H29F3	1,1,1-trifluoropentadecane	62127-00-8	530.15	46.788	1,2	28966	C16H8N2O4	1,3-dinitropyrene	75321-20-9	1,060.15	99.672	2
28846	C15H29I	cis-1-iodo-1-pentadecene	66291-44-9	604.15	53.976	1,2	28967	C16H8N2O4	1,6-dinitropyrene	42397-64-8	1,060.15	99.672	2
28847	C15H29I	trans-1-iodo-1-pentadecene	66291-45-0	604.15	53.976	1,2	28968	C16H8N2O4	1,8-dinitropyrene	42397-65-9	1,060.15	99.672	2
28848	C15H29I3	1,1,1-triiodopentadecane	---	818.79	75.221	2	28969	C16H8N2O4	2,7-dinitropyrene	117929-15-4	1,060.15	99.672	2
28849	C15H29N	pentadecanenitrile	18300-91-9	595.15	53.097	1,2	28978	C16H9NO2	3-nitrofluoranthene; (purity)	892-21-7	431.15	37.310	1,2
28855	C15H30	decylcyclopentane	1795-21-7	552.54	48.995	1,2	28979	C16H9NO2	1-nitropyrene	5522-43-0	431.15	37.310	2
28856	C15H30	nonylcyclohexane	2883-02-5	554.66	48.618	1,2	28980	C16H9NO2	2-nitrofluoranthene	13177-29-2	431.15	37.310	2
28857	C15H30	1-ethyl-1-methyl-2,4-diisopropylcyclohexane,*	515-12-8	549.62	48.672	2	28984	C16H10	fluoranthene	206-44-0	655.95	57.560	1,2
28858	C15H30	cyclopentadecane	295-48-7	559.15	49.595	1,2	28985	C16H10	pyrene	129-00-0	667.95	58.050	1,2
28859	C15H30	1-pentadecene	13360-61-7	541.61	49.335	1,2	28986	C16H10	1,4-diphenylbutadiyne	886-66-8	661.95	59.642	2
28860	C15H30	2-methyl-1-tetradecene	52254-38-3	540.15	47.755	1,2	28991	C16H10FNS	4-fluoro-6H-(1)benzothiopyrano(4,3-b)quinoli*	52831-58-0	432.15	37.405	1,2
28861	C15H30	7-pentadecene	15430-98-5	549.62	48.672	2	28996	C16H10N2Na2O7S2	FD&C yellow No. 6	2783-94-0	435.55	37.728	1,2
28862	C15H30	8-pentadecene	15430-98-5	549.62	48.672	2	29002	C16H10S	benzo[b]naphtho[2,3-d]thiophene	243-46-9	673.15	60.745	1,2
28862.1	C15H30	trans-2-pentadecene	74392-36-2	537.00	50.891	1,2	29007	C16H11N	7H-benzo[c]carbazole	205-25-4	721.15	65.490	1,2
28864	C15H30Br2	1,1-dibromopentadecane	62168-32-5	626.15	56.127	1,2	29008	C16H11N	3-aminofluoranthene	2693-46-1	721.15	65.490	2
28865	C15H30Cl2	1,1-dichloropentadecane	822-15-1	603.15	53.878	1,2	29009	C16H11N	1-aminopyrene	1606-67-3	721.15	65.490	2
28866	C15H30F2	1,1-difluoropentadecane	62127-04-2	539.15	47.658	1,2	29010	C16H11N	11H-benzo(a)carbazole	239-01-0	721.15	65.490	2
28867	C15H30I2	1,1-diiodopentadecane	66325-78-8	728.44	66.213	2	29011	C16H11N	1-fluoranthenamine	13177-25-8	721.15	65.490	2
28868	C15H30N2	1,3-bis(1-methyl-4-piperidyl)propane	64168-11-2	369.65	31.515	2	29024	C16H12	1-phenylnaphthalene	605-02-7	607.15	57.478	1,2
28869	C15H30N2	4,4'-methylenebis(2-methylcyclohexylamine), *	6864-37-5	369.65	31.515	1,2	29025	C16H12	2-phenylnaphthalene	612-94-2	618.65	55.393	1,2
28873	C15H30O	pentadecanal	2765-11-9	570.15	50.663	1,2	29026	C16H12	9-vinylanthracene	2444-68-0	612.90	54.831	2
28874	C15H30O	2-pentadecanone	2345-28-0	565.15	50.178	1,2	29029	C16H12ClF4N3O4	flumetraline	62924-70-3	496.65	43.562	1,2
28875	C15H30O	8-pentadecanone	818-23-5	564.15	50.081	1,2	29036	C16H12Cl3NO3	1-(3-chlorophenyl)-2-((4-(dichloroacetyl)phe*	27695-55-2	508.15	44.668	1,2
28876	C15H30O	cyclopentadecanol	4727-17-7	566.48	50.307	2	29039	C16H12FN3O3	flunitrazepam	1622-62-4	442.15	38.355	1,2
28877	C15H30O	1-pentadecen-3-ol	99814-65-0	566.48	50.307	2	29047	C16H12N2O4	dianisidine diisocyanate	91-93-0	389.65	33.391	2
28878	C15H30O	(R)-(+)-1,2-epoxypentadecane	96938-06-6	566.48	50.307	2	29048	C16H12N2O4	4,5,9,10-tetrahydro-2,7-dinitropyrene	117929-13-2	389.65	33.391	1,2
28879	C15H30O2	pentadecanoic acid	1002-84-2	612.05	63.174	1,2	29049	C16H12O	2,5-diphenylfuran	955-83-9	617.15	55.246	1,2
28880	C15H30O2	tetradecyl formate	5451-63-8	600.12	53.582	2	29050	C16H12O	1-phenoxynaphthalene	3402-76-4	622.65	55.785	1,2
28881	C15H30O2	tridecyl acetate	1072-33-9	555.00	60.119	2	29051	C16H12O	2-phenoxynaphthalene	19420-29-2	608.15	54.366	1,2
28882	C15H30O2	dodecyl propanoate	6221-93-8	600.82	53.650	2	29052	C16H12O	9-acetylanthracene	784-04-3	615.98	55.132	2
28883	C15H30O2	undecyl butanoate	5461-02-9	600.82	53.650	2	29053	C16H12O	10-methylanthracene-9-carboxaldehyde	7072-00-6	615.98	55.132	2
28884	C15H30O2	octyl heptanoate	5132-75-2	563.15	49.984	1,2	29078	C16H13ClN2O2	7-chloro-1,3-dihydro-3-hydroxy-1-methyl-5-ph*	846-50-4	484.15	42.363	1,2
28885	C15H30O2	heptyl octanoate	4265-97-8	563.65	50.032	1,2	29079	C16H13ClN2O2	7-chloro-1-methyl-5-phenyl-1H-1,5-benzodiaze*	22316-47-8	484.15	42.363	2
28886	C15H30O2	propyl dodecanoate	3681-78-5	588.70	52.468	2	29087	C16H13N	3-benzylisoquinoline	90210-56-3	638.40	57.328	2
28887	C15H30O2	isopropyl dodecanoate	10233-13-3	588.70	52.468	2	29088	C16H13N	N-phenyl-2-naphthalenamine	135-88-6	668.65	60.302	1,2
28888	C15H30O2	methyl tetradecanoate	124-10-7	568.15	50.469	1,2	29089	C16H13N	N-phenyl-1-naphthylamine	90-30-2	608.15	54.366	1,2
28889	C15H30O2	ethyl tridecanoate	28267-29-0	588.70	52.468	2	29090	C16H13N	6-benzylquinoline	54884-99-0	638.40	57.328	2
28890	C15H30O2	formaldehyde cyclododecyl ethyl acetal	58567-11-6	588.70	52.468	2	29091	C16H13N	1-(phenylmethyl)isoquinoline	6907-59-1	638.40	57.328	2
28895	C15H30S	thiacyclohexadecane	295-68-1	592.15	52.805	1,2	29107	C16H14	1,3-dimethylanthracene	610-46-8	647.18	56.400	2
28896	C15H30Sn	allenyltributyltin	53915-69-8	538.15	47.561	1,2	29108	C16H14	2,10-dimethylanthracene	27532-76-9	647.18	56.400	2
28897	C15H30Sn	tributyl(1-propynyl)tin	64099-82-7	550.15	48.723	1,2	29109	C16H14	9,10-dimethylanthracene	781-43-1	647.18	56.400	2
28898	C15H31Br	1-bromopentadecane	629-72-1	595.15	53.097	1,2	29110	C16H14	9-ethylanthracene	605-83-4	647.18	56.400	2
28899	C15H31Cl	1-chloropentadecane	4862-03-1	585.15	52.123	1,2	29111	C16H14	9,10-dimethylphenanthrene	604-83-1	641.00	56.400	2
28900	C15H31F	1-fluoropentadecane	1555-17-5	547.15	48.432	1,2	29112	C16H14	9-ethylphenanthrene	3674-75-7	641.00	56.400	2
28901	C15H31I	1-iodopentadecane	35599-78-1	617.15	55.246	1,2	29113	C16H14	cis,cis-1,4-diphenyl-1,3-butadiene	5807-76-1	629.43	56.448	2
28902	C15H31IO2Sn	tributyltin-b-iodopropionate	73927-95-4	363.15	30.908	2	29114	C16H14	trans,trans-1,4-diphenyl-1,3-butadiene	538-81-8	625.15	56.029	1,2
28903	C15H31NO2	1-nitropentadecane	39220-65-0	611.15	54.660	1,2	29115	C16H14	3,6-dimethylphenanthrene	1576-67-6	641.00	56.400	2
28904	C15H32	pentadecane	629-62-9	543.83	49.571	1,2	29116	C16H14	1,4-dimethylphenanthrene	22349-59-3	641.00	56.400	2
28905	C15H32	2-methyltetradecane	1560-95-8	538.35	47.581	1,2	29117	C16H14	1,4-diphenylbuta-1,3-diene	886-65-7	623.15	55.834	1,2
28906	C15H32	3-methyltetradecane	18435-22-8	539.45	47.687	1,2	29118	C16H14	2-methyl-7-phenyl-1H-indene	153733-75-6	629.43	56.448	2
28907	C15H32	2,2-dimethyltridecane	61869-04-3	530.15	46.788	1,2	29119	C16H14	1-phenyl-3,4-dihydronaphthalene	7469-40-1	629.43	56.448	2
28908	C15H32	2,3-dimethyltridecane	18435-20-6	538.15	47.561	1,2	29120	C16H14	2,7-dimethylphenanthrene	1576-69-8	641.00	56.400	2
28909	C15H32	2,4-dimethyltridecane	61868-05-1	524.15	46.209	1,2	29121	C16H14	2,5-dimethylphenanthrene	3674-66-6	641.00	56.400	2
28912	C15H32O	1-pentadecanol	629-76-5	578.01	68.982	1,2	29122	C16H14	4,5-dimethylphenanthrene	3674-69-9	641.00	56.400	2
28913	C15H32O	2-pentadecanol	1653-34-5	572.15	50.858	1,2	29123	C16H14	4,5,9,10-tetrahydropyrene	781-17-9	629.43	56.448	2
28914	C15H32O	3-pentadecanol	53346-71-7	661.15	59.564	1,2	29124	C16H14	dimethylanthracene	29063-00-1	647.18	56.400	2
28915	C15H32O	2,8-dimethyl-6-isobutylnonanol-4	10143-20-1	603.77	53.938	2	29139	C16H14N2O2	coumarin 337	55804-68-7	529.15	46.692	2
28916	C15H32O2	1,2-pentadecanediol	33968-47-7	623.15	55.834	2	29140	C16H14N2O2	5-(4-methylphenyl)-5-phenylhydantoin	51169-17-6	529.15	46.692	2
28917	C15H32O2	1,3-pentadecanediol	---	634.15	56.911	2	29141	C16H14N2O2	1,4-bis(methylamino)-9,10-anthracenedione	2475-44-7	529.15	46.692	1,2
28918	C15H32O2	1,4-pentadecanediol	---	655.15	58.973	2	29142	C16H14N2O2	4-imidazo(1,2-a)pyridin-2-yl-a-methylbenzene*	55843-86-2	529.15	46.692	2
28919	C15H32O2	1,15-pentadecanediol	14722-40-8	642.15	57.696	2	29143	C16H14N2O2	2-(p-(2H-indazol-2-yl)phenyl)propionic acid	81265-54-5	529.15	46.692	2
28921	C15H32S	1-pentadecanethiol	25276-70-4	593.86	59.266	1,2	29149	C16H14N4	4-(1-naphthylazo)-m-phenylenediamine	6416-57-5	493.15	43.226	1,2
28922	C15H32S	2-pentadecanethiol	62155-05-9	586.15	52.220	1,2	29152	C16H14O	1,3-diphenyl-2-buten-1-one	495-45-4	615.65	55.100	1,2
28923	C15H32S	methyl tetradecyl sulfide	7289-45-4	583.00	62.104	2	29153	C16H14O	bicyclo(4.2.0)octa-1,3,5-trien-7-yl benzyl k*	6809-95-6	615.65	55.100	2
28924	C15H32S	ethyl tridecyl sulfide	66271-81-6	583.00	62.104	2	29154	C16H14O	4-methylchalcone	4224-87-7	615.65	55.100	2
28925	C15H32S	propyl dodecyl sulfide	66271-82-7	583.00	62.104	2	29155	C16H14O	methyl styrylphenyl ketone	1322-90-3	615.65	55.100	2
28926	C15H32S	butyl undecyl sulfide	66271-83-8	583.00	62.104	2	29156	C16H14O2	benzyl trans-cinnamate	78277-23-3	623.15	55.834	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
29157	C16H14O2	3-(3-methoxyphenyl)-1-phenyl-2-propen-1-one	5470-91-7	623.15	55.834	2	29286	C16H16O2	4'-benzyloxypropiophenone	4495-66-3	598.15	53.390	2
29158	C16H14O2	3-(4-methoxyphenyl)-1-phenyl-2-propen-1-one	959-33-1	623.15	55.834	2	29287	C16H16O2	4-n-propylbiphenyl-4'-carboxylic acid	88038-94-2	598.15	53.390	2
29159	C16H14O2	benzyl cinnamate	103-41-3	623.15	55.834	2	29288	C16H16O2	dimethylstilbestrol	552-80-7	598.15	53.390	2
29160	C16H14O2	4,4'-diacetylbiphenyl	787-69-9	623.15	55.834	2	29289	C16H16O2	a-ethyl-4,4'-stilbenediol	3691-71-2	598.15	53.390	2
29161	C16H14O2	1,4-dimethoxyanthracene	13076-29-4	623.15	55.834	2	29290	C16H16O2	2-ethyl-5,6,7,8-tetrahydroanthraquinone	15547-17-8	598.15	53.390	2
29162	C16H14O2	4,4'-dimethylbenzil	3457-48-5	623.15	55.834	2	29290.1	C16H16O2	trans-3,5-dimethoxystilbene	21956-56-9	668.00	66.903	1,2
29163	C16H14O2	benz(a)anthracene-5,6-cis-dihydrodiol	32373-17-4	623.15	55.834	2	29291	C16H16O3	ethyl alpha-hydroxydiphenylacetate	52182-15-7	568.48	50.501	2
29164	C16H14O2	cinnamyl benzoate	5320-75-2	623.15	55.834	2	29292	C16H16O3	phenyl 2-phenoxybutanoate	116836-19-2	568.48	50.501	2
29165	C16H14O3	benzeneacetic anhydride	1555-80-2	561.15	49.789	2	29293	C16H16O3	benzyl (S)-(-)-2-hydroxy-3-phenylpropionate	7622-21-1	561.15	49.789	1,2
29166	C16H14O3	ethyl 2-benzoylbenzoate	604-61-5	561.15	49.789	2	29294	C16H16O3	benzyl (R)-(+)-2-hydroxy-3-phenylpropionate	7622-22-2	501.15	43.995	1,2
29167	C16H14O3	2-methylbenzoic anhydride	607-86-3	561.15	49.789	2	29295	C16H16O3	4-benzyloxy-3,5-dimethylbenzoic acid	97888-80-7	568.48	50.501	2
29168	C16H14O3	3-methylbenzoic anhydride	21436-44-2	561.15	49.789	2	29296	C16H16O3	desoxyanisoin	120-44-5	568.48	50.501	2
29169	C16H14O3	4-methylbenzoic acid anhydride	13222-85-0	561.15	49.789	2	29297	C16H16O3	2,2-dimethoxy-2-phenylacetophenone	24650-42-8	568.48	50.501	2
29170	C16H14O3	2-(m-benzoylphenyl)propionic acid	22071-15-4	561.15	49.789	2	29298	C16H16O3	4-methoxybenzyl phenylacetate	102-17-0	643.15	57.794	1,2
29171	C16H14O3	3-(4-biphenylylcarbonyl)propionic acid	36330-85-5	561.15	49.789	2	29299	C16H16O3	ethoxydiphenylacetic acid	7495-45-6	568.48	50.501	2
29172	C16H14O3	trans-3-(o-methoxyphenyl)-2-phenylacrylic ac*	21140-85-2	561.15	49.789	2	29300	C16H16O3	salicylic acid 3-phenylpropyl ester	24781-13-3	568.48	50.501	2
29173	C16H14O3	xyloltenin	13164-03-9	561.15	49.789	2	29340	C16H17N3O5S	duricef	50370-12-2	511.15	44.956	1,2
29174	C16H14O4	dimethyl diphenate	5807-64-7	618.15	55.344	2	29342	C16H18	1,1-diphenylbutane	719-79-9	557.44	49.430	1,2
29175	C16H14O4	diphenyl succinate	621-14-7	603.15	53.878	1,2	29343	C16H18	1,2-diphenylbutane	5223-59-6	564.15	50.081	1,2
29176	C16H14O4	ethylene glycol dibenzoate	94-49-5	633.15	56.813	2	29344	C16H18	1,4-diphenylbutane	1083-56-3	590.15	52.610	1,2
29177	C16H14O4	imperatorin	482-44-0	618.15	55.344	2	29345	C16H18	1-benzyl-4-propylbenzene	62155-41-3	584.15	52.025	1,2
29178	C16H14O4	dibenzyl oxalate	7579-36-4	618.15	55.344	2	29346	C16H18	1,3-diphenylbutane, (±)	116783-21-2	566.15	50.275	1,2
29179	C16H14O4	4,4'-dimethoxybenzil	1226-42-2	618.15	55.344	2	29347	C16H18	1,3-diphenyl-2-methylpropane	1520-46-3	576.15	51.247	1,2
29180	C16H14O4	dimethyl biphenyl-4,4'-dicarboxylate	792-74-5	618.15	55.344	2	29348	C16H18	2-butyl-1,1'-biphenyl	54532-97-7	570.25	50.673	2
29181	C16H14O4	phenylhydroquinone diacetate	58244-28-3	618.15	55.344	2	29349	C16H18	2,2',4,4'-tetramethyl-1,1'-biphenyl	3976-36-1	560.15	49.692	1,2
29182	C16H14O4	bis(4-methylbenzoyl)peroxide	895-85-2	618.15	55.344	2	29350	C16H18	2,2',5,5'-tetramethyl-1,1'-biphenyl	3075-84-1	558.15	49.498	1,2
29183	C16H14O4	peroxide, bis(2-methylbenzoyl)	3034-79-5	618.15	55.344	2	29351	C16H18	1,2-di(m-tolyl)ethane	4662-96-8	571.15	50.761	1,2
29203	C16H15NO	bicyclo(4.2.0)octa-1,3,5-trien-7-yl benzyl k*	6813-90-7	543.15	48.045	1,2	29352	C16H18	1,2-di(p-tolyl)ethane	538-39-6	570.25	50.673	2
29204	C16H15NO	cyheptamide	7199-29-3	543.15	48.045	2	29353	C16H18	1-isopropyl-4-benzylbenzene	886-58-8	583.15	51.928	1,2
29205	C16H15NO	N-(9,10-dihydro-2-phenanthryl)acetamide	18264-88-5	543.15	48.045	2	29354	C16H18	1,1'-(1-methylpropylidene)bisbenzene	5223-61-0	569.35	50.586	1,2
29206	C16H15NO	trans-4'-styrylacetanilide	841-18-9	543.15	48.045	2	29355	C16H18	1,1-di-p-tolylethane	530-45-0	555.85	49.275	1,2
29207	C16H15NO2	cinnamyl anthranilate	87-29-6	605.15	54.073	1,2	29356	C16H18	DL-2,3-diphenylbutane	2726-21-8	577.20	51.349	1,2
29208	C16H15NO2	N-(2-fluorenyl)propionohydroxamic acid	52663-84-0	605.15	54.073	2	29357	C16H18	1,1'-(1,2-ethanediyl)bis[2-methylbenzene	952-80-7	570.25	50.673	2
29209	C16H15NO2	trans-4'-hydroxy-4-acetamidostilbene	843-34-5	605.15	54.073	2	29358	C16H18	meso-2,3-diphenylbutane	4613-11-0	570.25	50.673	2
29210	C16H15NO2	N-(1-methoxyfluoren-2-yl)acetamide	6893-20-5	605.15	54.073	2	29359	C16H18	ditolylethane	27755-15-3	570.25	50.673	2
29211	C16H15NO2	N-(7-methoxy-2-fluorenyl)acetamide	16690-44-1	605.15	54.073	2	29359.1	C16H18	4-ethyl-bibenzyl	7439-15-8	565.15	53.135	1,2
29212	C16H15NO2	N-(p-styrylphenyl)acetohydroxamic acid	18559-95-0	605.15	54.073	2	29371	C16H18N2	1,4-diphenylpiperazine	613-39-8	573.15	50.955	2
29213	C16H15NO2	trans-N-(p-styrylphenyl)acetohydroxamic acid	843-23-2	605.15	54.073	2	29372	C16H18N2	agroclavine	548-42-5	573.15	50.955	2
29218	C16H15N3	3,5-bis(o-tolyl)-S-triazole	85681-49-8	477.15	41.693	1,2	29373	C16H18N2	nomifensine	24526-64-5	573.15	50.955	2
29219	C16H15N3	N,5-dimethyl-3-phenyl-6-quinoxalinamine	161697-02-5	505.05	44.370	1,2	29376	C16H18N2O2	2,2'-diethoxyazobenzene	613-43-4	513.15	45.149	2
29220	C16H15N3O	6-aminomethaqualone	963-34-8	503.45	44.216	2	29377	C16H18N2O2	4,4'-diethoxyazobenzene	588-52-3	513.15	45.149	2
29221	C16H15N3O	p-(5-benzofurylazo)-N,N-dimethylaniline	42242-59-1	495.45	43.447	1,2	29389	C16H18O	bis(2-ethylphenyl) ether	56911-77-4	591.65	52.756	1,2
29222	C16H15N3O	p-(7-benzofurylazo)-N,N-dimethylaniline	42242-58-0	511.45	44.985	1,2	29390	C16H18O	bis(1-phenylethyl)ether, (±)	53776-69-5	553.35	49.033	1,2
29223	C16H15N3O	5-(m-methoxyphenyl-3-(o-tolyl))-S-triazole	69095-72-3	503.45	44.216	2	29391	C16H18O	bis(2-phenylethyl)ether	2396-53-4	591.65	52.756	1,2
29224	C16H15N3O	N-nicotinoyltryptamide	29876-14-0	503.45	44.216	2	29392	C16H18O	beta-phenylbenzenebutanol, (R)	17297-04-0	560.36	49.713	2
29229	C16H15N5	N,N-dimethyl-p-(5-quinoxalylazo)aniline	23521-13-3	550.15	48.723	2	29393	C16H18O	a-methyl benzyl ether	93-96-9	504.80	44.346	1,2
29230	C16H15N5	N,N-dimethyl-p-(6-quinoxalyazo)aniline	23521-14-4	550.15	48.723	1,2	29394	C16H18O	3-(1,1-dimethylethyl)-[1,1'-biphenyl]-2-ol	2416-98-0	560.36	49.713	2
29231	C16H15N5O4	4-nitro-5-(4-phenyl-1-piperazinyl)benzofuraz*	61785-70-4	547.15	48.432	1,2	29408	C16H19ClO2	6-chloro-5-cyclohexyl-1-indancarboxylic acid	28968-07-2	424.65	36.694	1,2
29232	C16H16	1,1-diphenyl-1-butene	1726-14-3	567.85	50.440	1,2	29409	C16H19ClO2	clidanac	34148-01-1	424.65	36.694	2
29233	C16H16	1,3-diphenyl-1-butene	7614-93-9	584.15	52.025	1,2	29413	C16H19N	bis(1-phenylethyl)amine	10024-74-5	569.65	50.615	1,2
29234	C16H16	cis-2,3-diphenyl-2-butene	782-05-8	582.82	51.895	2	29414	C16H19N	bis(2-phenylethyl)amine	6308-98-1	633.15	56.813	1,2
29235	C16H16	trans-2,3-diphenyl-2-butene	782-06-9	582.82	51.895	2	29415	C16H19N	2-ethyl-N-(2-ethylphenyl)aniline	64653-59-4	601.40	53.707	2
29236	C16H16	2,2'-dimethylstilbene	10311-74-7	582.82	51.895	2	29416	C16H19N	3,2',4',6'-tetramethylaminodiphenyl	73728-78-6	601.40	53.707	2
29237	C16H16	9-ethyl-9,10-dihydroanthracene	605-82-3	594.65	53.048	1,2	29417	C16H19NO	1-nitrosopyrene	86674-51-3	436.15	37.785	1,2
29238	C16H16	alpha-ethylstilbene	22692-70-2	569.65	50.615	1,2	29421	C16H19N3	2,4'-dimethyl-4-dimethylaminoazobenzene	35653-70-4	458.52	39.913	2
29239	C16H16	1,2,3,6,7,8-hexahydropyrene	1732-13-4	582.82	51.895	2	29422	C16H19N3	N,N-dimethyl-p-(2,3,xylylazo)aniline	18997-62-1	458.52	39.913	2
29240	C16H16	[2.2]paracyclophane	1633-22-3	582.82	51.895	2	29423	C16H19N3	N,N-dimethyl-p-(3,4-xylylazo)aniline	3025-73-8	458.52	39.913	2
29241	C16H16	2,3,9-trimethylfluorene	96563-06-3	582.82	51.895	2	29424	C16H19N3	2'-ethyl-4-dimethylaminoazobenzene	93023-34-8	458.52	39.913	2
29242	C16H16ClN	2'-chloro-N,N-dimethyl-4-stilbenamine	63020-91-7	363.45	30.936	2	29425	C16H19N3	p-((m-ethylphenyl)azo)-N,N-dimethylaniline	17010-65-0	426.95	36.912	1,2
29243	C16H16ClN	3'-chloro-N,N-dimethyl-4-stilbenamine	63040-27-7	363.45	30.936	2	29426	C16H19N3	p-((p-ethylphenyl)azo)-N,N-dimethylaniline	5302-41-0	478.45	41.817	1,2
29244	C16H16ClN	4'-chloro-N,N-dimethyl-4-stilbenamine	7378-50-9	363.45	30.936	1,2	29427	C16H19N3	oil yellow DEA	2481-94-9	470.15	41.024	1,2
29245	C16H16ClN3O3S	indapamide	26807-65-8	383.55	32.818	1,2	29428	C16H19N3O	2-(benzhydryloxyethyl)guanidine	16136-32-6	475.95	41.578	1,2
29262	C16H16N2O2	N,N'-bis(salicylidene)ethylenediamine	94-93-9	486.15	42.555	2	29429	C16H19N3O	N,N-dimethyl-p-((3-ethoxyphenyl)azo)aniline	3837-54-5	464.15	40.451	1,2
29263	C16H16N2O2	4',4'''-biacetanilide	613-35-4	486.15	42.555	1,2	29431	C16H19N3O4S	aminobenzylpenicillin	69-53-4	474.95	41.483	1,2
29264	C16H16N2O2Se2	2,2'-diselenobis(N-phenylacetamide)	64046-56-6	478.15	41.789	1,2	29432	C16H19N3O4S	sefril	38821-53-3	474.95	41.483	2
29265	C16H16N2O3	N-a-acetoxybenzyl-N-benzylnitrosamine	70490-99-2	518.15	45.631	1,2	29433	C16H19N3O5S	cefroxadin	51762-05-1	524.15	46.209	1,2
29266	C16H16N2O3	4'-carbomethoxy-2,3'-dimethylazobenzene	63042-08-0	514.53	45.281	2	29434	C16H19N3O5S	3-(4-diethylamino-2-hydroxyphenylazo)-4-hydr*	1563-01-5	478.65	41.837	1,2
29267	C16H16N2O3	N-hydroxy-N,N'-diacetylbenzidine	71609-22-8	510.90	44.932	1,2	29435	C16H19N3O6	mitomycin A	4055-39-4	519.15	45.727	2
29274	C16H16O	3,3-diphenyl-2-butanone	2575-20-4	583.65	51.977	1,2	29436	C16H19N3O6	mitomycin B	4055-40-7	519.15	45.727	1,2
29275	C16H16O	cyclopropyl diphenyl carbinol	5785-66-0	583.65	51.977	2	29440	C16H20	1-hexylnaphthalene	2876-53-1	595.15	56.550	1,2
29276	C16H16O	1,4-diphenyl-1-butanone	5407-91-0	583.65	51.977	2	29441	C16H20	2-hexylnaphthalene	2876-46-2	596.15	53.195	1,2
29277	C16H16O2	alpha-benzylbenzenepropanoic acid	618-68-8	598.15	53.390	2	29442	C16H20	1-isopropyl-2,4,7-trimethylnaphthalene	6995-30-8	581.25	51.743	2
29278	C16H16O2	benzyl 3-phenylpropanoate	22767-96-0	598.15	53.390	1,2	29443	C16H20	1,2,5-trimethyl-8-isopropylnaphthalene	6897-76-3	581.25	51.743	2
29279	C16H16O2	[1,1'-biphenyl]-4-butanoic acid	6057-60-9	598.15	53.390	2	29444	C16H20	1,3,8-trimethyl-5-isopropylnaphthalene	6897-88-7	581.25	51.743	2
29280	C16H16O2	4,4'-dimethoxystilbene	4705-34-4	598.15	53.390	2	29445	C16H20	2,6-diisopropylnaphthalene	24157-81-1	552.45	41.995	1,2
29281	C16H16O2	2-ethoxy-1,2-diphenylethanone	574-09-4	598.15	53.390	2	29446	C16H20	bis(isopropyl)naphthalene	38640-62-9	581.25	51.743	2
29282	C16H16O2	ethyl diphenylacetate	3468-99-3	598.15	53.390	2	29447	C16H20ClN3	chloropyramine	59-32-5	427.65	36.978	1,2
29283	C16H16O2	2-phenylethyl phenylacetate	102-20-5	598.15	53.390	2	29460	C16H20N4O2	apazone	13539-59-8	561.65	49.838	2
29284	C16H16O2	4-benzyloxy-3,5-dimethylbenzaldehyde	144896-51-5	598.15	53.390	2	29461	C16H20N4O2	4-(p-butoxyphenyl)semicarbazone-1H-pyrrole-2*	119034-03-6	561.65	49.838	1,2
29285	C16H16O2	4-benzyloxy-3-methoxystyrene	55708-65-1	598.15	53.390	2	29462	C16H20N4O5	N-methylmitomycin C	801-52-5	517.15	45.534	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
29465	C16H20O2	4,4,10-trimethyl-tricyclo[7,3,1,0(1-6)]-6,10*	---	488.15	42.747	2	29670	C16H30O3	octanoic anhydride	623-66-5	555.65	49.256	1,2
29466	C16H20O2	fenestrel	7698-97-7	488.15	42.747	1,2	29671	C16H30O3	2-ethylhexanoic anhydride	36765-89-6	521.65	45.968	2
29467	C16H20O2Si	diethoxydiphenylsilane	2553-19-7	575.15	51.149	1,2	29672	C16H30O3	tridecanoic acid 2,3-epoxypropyl ester	63978-73-4	487.65	42.699	1,2
29468	C16H20O4	marasmic acid	2212-99-9	468.15	40.833	1,2	29673	C16H30O4	dibutyl suberate	16090-77-0	472.40	41.239	2
29469	C16H20O4	methyl marasmate	2213-00-5	468.15	40.833	2	29674	C16H30O4	diethyl dodecanedioate	10471-28-0	472.40	41.239	2
29494	C16H22ClNO4	lipenan	26717-47-5	468.15	40.833	1,2	29675	C16H30O4	hexadecanedioic acid	505-54-4	472.40	41.239	2
29495	C16H22Cl2N2O	1-((bis(2-chloroethyl)amino)benzoyl)piperidi*	24813-03-4	468.15	40.833	1,2	29676	C16H30O4	2,2,4-trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	553.15	49.014	1,2
29496	C16H22Cl2N2O2	1-(3-(bis(2-chloroethyl)amino)-4-methylbenzo*	21447-39-2	467.95	40.813	1,2	29677	C16H30O4	adipic acid diisopentyl ester	6624-70-0	472.40	41.239	2
29497	C16H22Cl2O3	2,4-d, isooctyl ester	25168-26-7	590.15	52.610	1,2	29678	C16H30O4	caprolyl peroxide	762-16-3	472.40	41.239	2
29498	C16H22Cl2O3	2,4-D 2-ethylhexyl ester	1928-43-4	516.15	45.438	1,2	29679	C16H30O4	2,5-dimethyl-2,5-di(tert-butylperoxy)hexyne-3	1068-27-5	391.65	33.579	1,2
29500	C16H22HgN6O7	theophylline methoxyoximercuripropyl succiny*	8069-64-5	459.15	39.973	1,2	29684	C16H31Br	cis-1-bromo-1-hexadecene	66271-67-8	596.15	53.195	1,2
29506	C16H22N2O4S	N-(morpholinosulfenyl)carbofuran	55285-05-7	446.65	38.783	1,2	29685	C16H31Br	trans-1-bromo-1-hexadecene	66271-68-9	596.15	53.195	1,2
29510	C16H22N2O7	dinocton-O	8069-76-9	458.15	39.878	1,2	29688	C16H31Br3	1,1,1-tribromohexadecane	62127-72-4	664.15	59.859	1,2
29514	C16H22OSi2	1,1,3,3-tetramethyl-1,3-diphenyldisiloxane	56-33-7	565.15	50.178	1,2	29689	C16H31Cl	cis-1-chloro-1-hexadecene	66271-69-0	603.15	53.878	1,2
29515	C16H22O2	amyl cinnamic acetate	7493-78-9	429.35	37.140	1,2	29690	C16H31Cl	trans-1-chloro-1-hexadecene	66271-70-3	603.15	53.878	1,2
29517	C16H22O3Si3	trans-2,4-diphenyl-2,4,6,6-tetramethylcyclot*	31751-59-4	437.15	37.880	1,2	29692	C16H31Cl3	1,1,1-trichlorohexadecane	62108-60-5	630.15	56.519	1,2
29518	C16H22O4	dibutyl phthalate	84-74-2	613.15	62.436	1,2	29693	C16H31F	cis-1-fluoro-1-hexadecene	66271-71-4	568.91	50.543	2
29519	C16H22O4	diisobutyl phthalate	84-69-5	569.65	50.615	1,2	29694	C16H31F	trans-1-fluoro-1-hexadecene	66271-72-5	568.91	50.543	2
29520	C16H22O4	diisobutyl terephthalate	18699-48-4	550.48	48.755	2	29695	C16H31F3	1,1,1-trifluorohexadecane	62127-01-9	545.15	48.239	1,2
29521	C16H22O4	diethyl 2-ethyl-2-(p-tolyl)malonate	68692-80-8	550.48	48.755	2	29696	C16H31I	cis-1-iodo-1-hexadecene	66271-73-6	618.15	55.344	1,2
29522	C16H22O4	1,4-benzenedicarboxylic acid, dibutyl ester	1962-75-0	550.48	48.755	2	29697	C16H31I	trans-1-iodo-1-hexadecene	66271-74-7	618.15	55.344	1,2
29523	C16H22O4	dibutyl isophthalate	3126-90-7	550.48	48.755	2	29698	C16H31I3	1,1,1-triiodohexadecane	---	841.67	77.516	2
29524	C16H22O4	monoethylhexyl phthalate	4376-20-9	468.65	40.880	1,2	29699	C16H31N	hexadecanenitrile	629-79-8	609.15	54.464	1,2
29526	C16H22O6	bis(2-ethoxyethyl) phthalate	605-54-9	618.15	55.344	1,2	29702	C16H31NO4	diglycidyl ether of N,N-bis(2-hydroxypropyl)*	63041-01-0	409.35	35.247	1,2
29527	C16H22O6	colibil	41826-92-0	618.15	55.344	2	29704	C16H32	undecylcyclopentane	6785-23-5	568.76	50.877	1,2
29528	C16H22O6	di-tert-butyl diperoxyphthalate	2155-71-7	618.15	55.344	2	29705	C16H32	decylcyclohexane	1795-16-0	570.75	50.373	1,2
29534	C16H22Si2	diphenyltetramethyldisilane	1145-98-8	419.65	36.221	1,2	29706	C16H32	cyclohexadecane	295-65-8	573.15	50.955	1,2
29535	C16H22SiSn	trimethylstannylmethyldiphenylsilan	149013-84-3	400.65	34.426	1,2	29707	C16H32	1-hexadecene	629-73-2	558.02	52.028	1,2
29537	C16H23ClN2O2	alloclamide	5486-77-1	474.15	41.406	1,2	29708	C16H32	2-methyl-1-pentadecene	29833-69-0	557.15	49.401	1,2
29540	C16H23Cl2NO2	2-(N,N-bis(2-chloroethyl)aminophenyl) acetic*	66232-25-5	476.45	41.626	1,2	29709	C16H32	2-methyl-1-propene, tetramer	15220-85-6	517.15	45.534	1,2
29559	C16H24	1-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-11-9	578.15	51.441	1,2	29710	C16H32Br2	1,16-dibromohexadecane	45223-18-5	639.15	57.402	2
29560	C16H24	2-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-09-5	583.15	51.928	1,2	29711	C16H32Br2	1,1-dibromohexadecane	62168-33-6	639.15	57.402	1,2
29561	C16H24	1,2,3,4-tetrahydro-6-ethyl-1,1,4,4-tetrameth*	80-81-9	580.65	51.685	2	29712	C16H32Cl2	1,1-dichlorohexadecane	62017-19-0	617.15	55.246	1,2
29566	C16H24N2O	1-dipropylaminoacetylindoline	64140-51-8	508.65	44.716	2	29713	C16H32F2	1,1-difluorohexadecane	62127-05-3	553.15	49.014	1,2
29567	C16H24N2O	oxymethazoline	1491-59-4	498.15	43.706	1,2	29714	C16H32I2	1,1-diiodohexadecane	66271-75-8	751.32	68.486	2
29568	C16H24N2O	tochergamine	---	519.15	45.727	1,2	29717	C16H32O	hexadecanal	629-80-1	584.15	52.025	1,2
29575	C16H24O	decanophenone	6048-82-4	425.15	36.741	2	29718	C16H32O	2-hexadecanone	18787-63-8	580.15	51.636	1,2
29576	C16H24O	p-octylacetophenone	10541-56-7	425.15	36.741	1,2	29719	C16H32O	3-hexadecanone	18787-64-9	569.98	50.647	2
29577	C16H24O	allyl a-ionone	79-78-7	425.15	36.741	2	29720	C16H32O	1,2-epoxyhexadecane	7320-37-8	545.65	48.287	1,2
29595	C16H26	decylbenzene	104-72-3	571.04	53.535	1,2	29721	C16H32O2	hexadecanoic acid	57-10-3	624.15	65.610	1,2
29596	C16H26	pentaethylbenzene	605-01-6	550.16	52.229	1,2	29722	C16H32O2	2-hexyldecanoic acid	25354-97-6	586.63	52.266	2
29597	C16H26	6,9-dimethyl-5,9-tetradecadien-7-yne	101427-54-7	561.28	49.802	2	29723	C16H32O2	pentadecyl formate	66271-76-9	623.00	55.819	2
29598	C16H26	6,10-hexadecadiyne	10160-99-3	561.28	49.802	2	29724	C16H32O2	tetradecyl acetate	638-59-5	570.00	64.371	2
29599	C16H26	(1-methylnonyl)benzene	4537-13-7	562.65	49.935	1,2	29725	C16H32O2	tridecyl propanoate	66271-77-0	623.70	55.887	2
29608	C16H26O	2,6-di-tert-butyl-4-ethylphenol	4130-42-1	545.15	48.239	1,2	29726	C16H32O2	dodecyl butanoate	3724-61-6	623.70	55.887	2
29609	C16H26O	2,4-di-tert-amylphenol	120-95-6	545.15	48.239	2	29727	C16H32O2	octyl octanoate	2306-88-9	579.95	51.616	1,2
29610	C16H26O	(S)-(-)-1-phenyl-1-decanol	112419-76-8	545.15	48.239	2	29728	C16H32O2	heptyl nonanoate	71605-85-1	586.63	52.266	2
29611	C16H26O	2,6-bis(1-methylbutyl)phenol	74927-02-9	545.15	48.239	2	29729	C16H32O2	ethyl myristate	124-06-1	568.15	50.469	1,2
29612	C16H26O	diamylphenol	28652-04-2	545.15	48.239	2	29730	C16H32O2	methyl pentadecanoate	7132-64-1	426.65	36.884	1,2
29617	C16H26O3	(2-dodecen-1-yl)succinic anhydride	19780-11-1	568.00	50.455	2	29731	C16H32O2	n-butyl laurate	106-18-3	586.63	52.266	2
29618	C16H26O3	dodecenylsuccinic anhydride	25377-73-5	568.00	50.455	2	29732	C16H32O2	2-ethylhexyl-2-ethylhexanoate	7425-14-1	586.63	52.266	2
29619	C16H26O3	2-dodecen-1-ylsuccinic anhydride, isomers	26544-38-7	568.00	50.455	2	29733	C16H32O2Sn	tributyl(methacryloxy)stannane	2155-70-6	411.65	35.464	1,2
29622	C16H27N	4-decylaniline	37529-30-9	568.00	50.455	2	29735	C16H32O4Pb	dihexyl lead diacetate	18279-21-5	412.15	35.512	1,2
29623	C16H27N	bis(2,5-endomethylenecyclohexylmethyl)amine	10171-76-3	568.00	50.455	2	29736	C16H32O4Sn	di-n-butyl(dibutyryloxy)stannane	28660-63-1	417.55	36.022	1,2
29634	C16H28O4	dihexyl fumarate	19139-31-2	469.15	40.928	1,2	29738	C16H32S	thiacycloheptadecane	296-00-4	603.15	53.878	1,2
29635	C16H28O4	dihexyl maleate	105-52-2	469.15	40.928	2	29739	C16H33Br	1-bromohexadecane	112-82-3	609.15	54.464	1,2
29637	C16H28S	3-dodecylthiophene	104934-52-3	563.15	49.984	1,2	29740	C16H33Cl	1-chlorohexadecane	4860-03-1	599.75	53.546	1,2
29640	C16H30	1-hexadecyne	629-74-3	557.16	52.802	1,2	29742	C16H33ClO2Sn	tributyltin-g-chlorobutyrate	33550-22-0	411.45	35.445	1,2
29641	C16H30	2-hexadecyne	629-75-4	569.15	50.566	1,2	29743	C16H33Cl3Si	hexadecyltrichlorosilane	5894-60-0	542.15	47.948	1,2
29642	C16H30	3-hexadecyne	61886-62-2	559.15	49.595	1,2	29744	C16H33F	1-fluorohexadecane	408-38-8	562.15	49.886	1,2
29643	C16H30	1,1-dicyclohexylbutane	54890-00-5	566.12	50.272	1,2	29746	C16H33I	1-iodohexadecane	544-77-4	630.15	56.519	1,2
29644	C16H30	1,4-dicyclohexylbutane	6165-44-2	578.15	51.441	1,2	29750	C16H33NO2	1-nitrohexadecane	66271-50-9	623.15	55.834	1,2
29645	C16H30	1,3-dicyclohexyl-2-methylpropane	2883-08-1	568.35	50.489	1,2	29751	C16H33NO2	4-dodecylmorpholine-4-oxide	2530-46-3	526.45	46.431	1,2
29646	C16H30	1-undecylcyclopentene	62184-76-3	557.15	49.401	1,2	29752	C16H33NO2	lauryl-N-betaine	683-10-3	574.80	51.115	2
29647	C16H30	1,1'-(1-methylpropylidene)biscyclohexane	54890-02-7	575.35	51.169	1,2	29753	C16H33NO3	N,N-bis(2-hydroxyethyl)dodecan amide	120-40-1	537.15	47.465	1,2
29648	C16H30	1,3-dicyclohexylbutane	41851-35-8	576.34	51.265	1,2	29754	C16H34	hexadecane	544-76-3	560.01	51.310	1,2
29655	C16H30O	2-methylcyclopentadecanone	52914-66-6	602.15	53.780	2	29755	C16H34	2-methylpentadecane	1560-93-6	554.75	49.169	1,2
29656	C16H30O	3-methylcyclopentadecanone	541-91-3	602.15	53.780	1,2	29756	C16H34	3-methylpentadecane	2882-96-4	555.15	49.207	1,2
29657	C16H30O	2-dodecylcyclobutanone	35493-46-0	602.15	53.780	2	29757	C16H34	2,2-dimethyltetradecane	59222-86-5	547.15	48.432	1,2
29658	C16H30O	(Z)-11-hexadecenal	53939-28-9	602.15	53.780	2	29758	C16H34	2,3-dimethyltetradecane	18435-23-9	555.15	49.207	1,2
29660	C16H30O2	7-hexadecenoic acid	1191-75-9	610.00	54.547	2	29759	C16H34	2,4-dimethyltetradecane	61868-06-2	539.15	47.658	1,2
29661	C16H30O2	9-hexadecenoic acid	2091-29-4	610.00	54.547	2	29760	C16H34	2,2,4,4,6,8,8-heptamethylnonane	4390-04-9	519.45	45.756	1,2
29662	C16H30O2	cis-9-hexadecenoic acid	373-49-9	610.00	54.547	2	29761	C16H34Cl2Sn	di-n-octyltindichloride	3542-36-7	500.15	43.899	2
29663	C16H30O2	lauryl methacrylate	142-90-5	581.15	51.733	1,2	29762	C16H34Cl2Sn	di-2-ethylhexyltin dichloride	25430-97-1	500.15	43.899	1,2
29664	C16H30O2	oxacycloheptadecan-2-one	109-29-5	581.15	51.733	2	29766	C16H34O	1-hexadecanol	36653-82-4	585.15	59.073	1,2
29665	C16H30O2	cis-9-tetradecenyl acetate	16725-53-4	581.15	51.733	2	29767	C16H34O	2-hexadecanol	14852-31-4	587.15	52.317	1,2
29666	C16H30O2	cis-tetradec-11-en-1-yl acetate	20711-10-8	581.15	51.733	2	29768	C16H34O	3-hexadecanol	593-03-3	568.53	50.506	2
29667	C16H30O2	trans-tetradec-11-en-1-yl acetate	33189-72-9	581.15	51.733	2	29769	C16H34O	2-methyl-1-pentadecanol	25354-98-7	568.53	50.506	2
29668	C16H30O2	acrylic acid tridecyl ester	3076-04-8	581.15	51.733	2	29770	C16H34O	6-methyl-6-pentadecanol	108836-86-8	568.53	50.506	2
29669	C16H30O2	2-butyloctyl ester methacrylic acid	10097-26-4	581.15	51.733	2	29771	C16H34O	dioctyl ether	629-82-3	559.65	56.722	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
29772	C16H34O	bis(2-ethylhexyl) ether	10143-60-9	542.15	47.948	1,2	29940	C17H14O	1,5-diphenyl-1,4-pentadien-3-one	538-58-9	633.15	56.813	2
29773	C16H34O	2-hexyl-1-decanol	2425-77-6	568.53	50.506	2	29941	C17H14O	dibenzylideneacetone	35225-79-7	633.15	56.813	2
29776	C16H34O2	1,2-hexadecanediol	6920-24-7	637.15	57.206	2	29946	C17H14O3	5-methyl-7-methoxyisoflavone	82517-12-2	503.15	44.187	2
29777	C16H34O2	1,3-hexadecanediol	34014-79-4	648.15	58.285	2	29947	C17H14O3	methyl 4-(3-oxo-3-phenyl-1-propenyl) benzoate	98258-72-1	503.15	44.187	2
29778	C16H34O2	1,4-hexadecanediol	---	669.15	60.351	2	29948	C17H14O3	benzarone	1477-19-6	503.15	44.187	1,2
29779	C16H34O2	1,1-dimethoxytetradecane	14620-53-2	651.48	58.613	2	29949	C17H14O4	10-propionyl dithranol	75464-10-7	519.65	45.775	1,2
29780	C16H34O2	1,16-hexadecanediol	7735-42-4	651.48	59.772	2	29950	C17H14O5	3-(a-acetonylfurfuryl)-4-hydroxycoumarin	117-52-2	476.15	41.597	1,2
29781	C16H34O2	octylperoxide	7530-07-6	651.48	58.613	2	29951	C17H14O5	1,3-dihydroxy-2-ethoxymethylanthraquinone	17526-17-9	476.15	41.597	2
29782	C16H34O3	triisopentyl orthoformate	5337-70-2	541.15	47.852	2	29953	C17H14O6	aflatoxin Ro	29611-03-8	461.15	40.164	1,2
29785	C16H34O5	3,6,9,12-tetraoxaeicosan-1-ol	19327-39-0	498.35	43.726	2	29954	C17H14O7	aflatoxin G2	7241-98-7	493.15	43.226	1,2
29786	C16H34O5	tetraethylene glycol, dibutyl ether	112-98-1	498.35	43.726	1,2	29957	C17H15ClN4S	etizolam	40054-69-1	537.65	47.513	1,2
29789	C16H34S	1-hexadecanethiol	2917-26-2	607.16	60.856	1,2	29959	C17H15Cl2N	6-allyl-6,7-dihydro-3,9-dichloro-5H-dibenz(c*	63918-66-1	515.15	45.342	1,2
29790	C16H34S	2-hexadecanethiol	66271-53-2	600.15	53.585	1,2	29963	C17H15FO3	2,4-dimethoxy-4'-fluorochalcone	336101-27-0	392.15	33.626	1,2
29791	C16H34S	dioctyl sulfide	2690-08-6	597.00	64.039	2	29964	C17H15FO3	3,4-dimethoxy-4'-fluorochalcone	28081-14-3	366.15	31.188	1,2
29792	C16H34S	methyl pentadecyl sulfide	62155-10-6	597.00	64.039	2	29965	C17H15N	N-benzyl-2-naphthalenamine	13672-18-9	678.15	61.238	1,2
29793	C16H34S	ethyl tetradecyl sulfide	66271-54-3	597.00	60.682	2	29966	C17H15N	N-(2-methylphenyl)-1-naphthalenamine	634-41-3	676.90	61.115	2
29794	C16H34S	propyl tridecyl sulfide	66271-55-4	597.00	64.039	2	29967	C17H15N	N-(2-methylphenyl)-2-naphthalenamine	644-15-5	675.65	60.992	1,2
29795	C16H34S	butyl dodecyl sulfide	16900-08-6	597.00	64.039	2	29968	C17H15N	N-(4-methylphenyl)-1-naphthalenamine	634-43-5	676.90	61.115	2
29797	C16H34S2	dioctyl disulfide	822-27-5	619.16	63.618	1,2	29986	C17H16	2,9,10-trimethylanthracene	63018-94-0	663.18	58.000	2
29798	C16H35N	hexadecylamine	143-27-1	601.15	53.683	1,2	29991	C17H16Cl2O3	chloropropylate	5836-10-2	422.15	36.457	1,2
29799	C16H35N	ethyltetradecylamine	66271-56-5	580.15	51.636	1,2	29999	C17H16N2OS	bentazepam	29462-18-8	470.65	41.071	1,2
29800	C16H35N	dioctylamine	1120-48-5	575.15	51.149	1,2	30000	C17H16N2O2	2,7-bis(acetamido)fluorene	304-28-9	466.25	40.651	1,2
29801	C16H35N	methylpentadecylamine	29664-53-7	580.15	51.636	1,2	30001	C17H16N2O2	2,5-bis(acetylamino)fluorene	22750-65-8	477.15	41.693	1,2
29802	C16H35N	N-(1-methylheptyl)-2-octanamine	5412-92-0	556.15	49.304	1,2	30002	C17H16N2O2	3-(3,5-dimethyl-4-hydroxyphenyl)-2-methyl-4(*	27945-43-3	488.15	42.747	1,2
29803	C16H35N	dimethyltetradecylamine	112-75-4	575.15	51.149	1,2	30003	C17H16N2O2	ionethyl	1897-96-7	486.65	42.603	1,2
29804	C16H35N	diethyldodecylamine	4271-27-6	550.15	48.723	1,2	30004	C17H16N2O3	3-methoxy-6-methyl-7,8,9,10-tetrahydro-11H-i*	113698-18-3	447.15	38.830	2
29805	C16H35N	bis(2-ethylhexyl)amine	106-20-7	574.01	51.038	2	30005	C17H16N2O3	1-methylamino-4-ethanolaminoanthraquinone	2475-46-9	447.15	38.830	1,2
29809	C16H35O4P	bis(2-ethylhexyl) phosphate	298-07-7	321.15	27.005	1,2	30008	C17H16N4	4-((p-(dimethylamino)phenyl)azo)isoquinoline	63040-63-1	492.65	43.178	1,2
29810	C16H35O4P	diisooctyl acid phosphate	27215-10-7	529.15	46.692	1,2	30009	C17H16N4	5-((p-(dimethylamino)phenyl)azo)isoquinoline	63040-64-2	493.15	43.226	1,2
29824	C16H36O4Si	tetrabutyl silicate	4766-57-8	529.15	46.692	1,2	30010	C17H16N4	7-((p-(dimethylamino)phenyl)azo)isoquinoline	63040-65-3	487.15	42.651	1,2
29826	C16H36O4Ti	titanium(iv) butoxide	5593-70-4	585.15	52.123	1,2	30011	C17H16N4	5-((p-(dimethylamino)phenyl)azo)quinoline	17416-17-0	487.15	42.651	1,2
29827	C16H36O4Ti	titanium(iv)tert-butoxide	119279-48-0	585.15	52.123	2	30012	C17H16N4	6-((p-(dimethylamino)phenyl)azo)quinoline	30041-69-1	489.65	42.891	1,2
29830	C16H37NO	tetrabutylammonium hydroxide	2052-49-5	373.15	31.843	1,2	30013	C17H16N4	N,N-dimethyl-4-(4'-quinolylazo)aniline	17025-30-8	499.15	43.802	1,2
29832	C16H38NO4P	tetrabutylammonium phosphate monobasic	5574-97-0	373.15	31.843	1,2	30014	C17H16N4O	5-((p-(dimethylamino)phenyl)azo)isoquinoline*	10318-23-7	494.65	43.370	1,2
29839	C16H48O6Si7	hexadecamethylheptasiloxane	541-01-5	543.15	48.045	1,2	30015	C17H16N4O	5-((p-(dimethylamino)phenyl)azo)quinoline-1-*	22750-85-2	494.65	43.370	2
29840	C16H48O8Si8	hexadecamethylcyclooctasiloxane	556-68-3	563.15	49.984	1,2	30016	C17H16N4O	6-((p-(dimethylamino)phenyl)azo)quinoline-1-*	22750-86-3	494.65	43.370	2
29862	C17H12	11H-benzo[a]fluorene	238-84-6	678.15	61.238	1,2	30017	C17H16N4O	N,N-dimethyl-4-((4'-quinolyl-1'-oxide)azo)an*	63042-68-2	494.65	43.370	2
29863	C17H12	11H-benzo[b]fluorene	243-17-4	674.15	60.844	1,2	30018	C17H16O2	ethyl 2,3-diphenylacrylate	24446-63-7	480.15	41.980	2
29864	C17H12	benzo[a]fluorene	30777-18-5	686.15	62.028	1,2	30019	C17H16O2	1,5-diphenyl-1,5-pentanedione	6263-83-8	480.15	41.980	2
29865	C17H12	1-methylpyrene	2381-21-7	683.15	61.732	1,2	30020	C17H16O2	benzylcarbinyl cinnamate	103-53-7	480.15	41.980	1,2
29866	C17H12	2-methylpyrene	3442-78-2	683.15	61.732	1,2	30046	C17H17NO6	2-(3,4-(methylenedioxy)phenoxy)-1-((3,4-(met*	64245-99-4	541.15	47.852	1,2
29867	C17H12	benzo(b)fluorene	30777-19-6	680.95	61.514	2	30056	C17H18	1,1-diphenyl-1-pentene	1530-11-6	581.91	51.807	1,2
29868	C17H12	7H-benzo(c)fluorene	205-12-9	680.95	61.514	2	30060	C17H18F3N	N-benzyl-a-methyl-m-trifluoromethylphenethyl*	62064-66-8	451.15	39.211	1,2
29869	C17H12	3H-cyclopenta(c)phenanthrene	183249-37-8	680.95	61.514	2	30065	C17H18N2O4	1,3-propanediol bis(4-aminobenzoate)	57609-64-0	508.15	44.668	2
29870	C17H12	2-methylfluoranthene	33543-31-6	680.95	61.514	2	30066	C17H18N2O4	4-ethyl-6,7-dimethoxy-9H-pyrido(3,4-b)indole*	82499-00-1	508.15	44.668	2
29871	C17H12	3-methylfluoranthene	1706-01-0	680.95	61.514	2	30067	C17H18N2O4	methylenedianthranilic acid dimethyl ester	34481-84-0	508.15	44.668	1,2
29895	C17H12O3	1-naphthyl 2-hydroxybenzoate	550-97-0	532.15	46.982	2	30068	C17H18N2O5S	4-phenoxy-3-(pyrrolidinyl)-5-sulfamoylbenzoi*	55837-27-9	526.15	46.402	1,2
29896	C17H12O3	2-naphthyl salicylate	613-78-5	532.15	46.982	2	30071	C17H18O	1,5-diphenyl-3-pentanone	5396-91-8	625.15	56.029	1,2
29897	C17H12O3	phenyl 1-hydroxy-2-naphthoate	132-54-7	532.15	46.982	2	30072	C17H18O	2,2',4,4'-tetramethylbenzophenone	3478-88-4	610.15	54.562	1,2
29898	C17H12O3	phenyl 3-hydroxy-2-naphthoate	7260-11-9	532.15	46.982	1,2	30073	C17H18O2	3-(4-tert-butylphenoxy)benzaldehyde	69770-23-6	425.15	36.741	1,2
29905	C17H13N	2,6-diphenylpyridine	3558-69-8	670.15	60.450	1,2	30074	C17H18O2	tert-butyl 4-phenoxyphenyl ketone	55814-54-5	425.15	36.741	2
29906	C17H13N	N-benzylidene-1-napthylamine	890-51-7	670.15	60.450	2	30075	C17H18O2	cyclopropyl-4-methoxydiphenylcarbinol	62587-03-5	425.15	36.741	2
29907	C17H13N	6-methyl-3,4-benzocarbazole	21064-50-6	670.15	60.450	2	30076	C17H18O2	benzyl isoeugenol ether	120-11-6	425.15	36.741	2
29908	C17H13N	9-methyl-1:2-benzocarbazole	13127-50-9	670.15	60.450	2	30095	C17H19NO3	chavicine	495-91-0	521.15	45.920	2
29909	C17H13NO2	naphthol AS	92-77-3	490.65	42.986	2	30096	C17H19NO3	coclaurine	486-39-5	521.15	45.920	2
29910	C17H13NO2	N-2-naphthylanthranilic acid	4800-34-4	490.65	42.986	1,2	30098	C17H19NO3	piperine	94-62-2	521.15	45.920	2
29911	C17H13NS	7-methyl-6H-(1)benzothiopyrano(4,3-b)quinoli*	1541-60-2	493.15	43.226	1,2	30099	C17H19NO3	(R)-(+)-carbobenzyloxyamino-3-phenyl-1-propa*	58917-85-4	521.15	45.920	2
29912	C17H13N3O	2-(m-methoxyphenyl)-S-triazolo(5,1-a)isoquin*	55309-14-3	448.65	38.973	1,2	30100	C17H19NO3	(S)-(-)-2-(carbobenzyloxyamino)-3-phenyl-1-p*	6372-14-1	521.15	45.920	2
29913	C17H13N3O3	1-((4-methyl-2-nitrophenyl)azo)-2-naphthalen*	2425-85-6	490.15	42.939	1,2	30101	C17H19NO3	dihydromorphinone	466-99-9	521.15	45.920	1,2
29915	C17H14	1-benzylnaphthalene	611-45-0	623.15	55.834	1,2	30103	C17H19NO4	fenoxycarb	79127-80-3	489.65	42.891	2
29916	C17H14	2-benzylnaphthalene	613-59-2	623.15	55.834	1,2	30105	C17H19NO4	4,5a-epoxy-3-hydroxy-17-methylmorphinan-6-on*	37764-28-6	489.65	42.891	1,2
29917	C17H14	16,17-dihydro-15H-cyclopenta[a]phenanthrene	482-66-6	555.15	49.207	2	30106	C17H19NO4	ethyl (2-(4-phenoxyphenoxy)ethyl)carbamate	72490-01-8	489.65	42.891	2
29918	C17H14	9-(1-methylvinyl)phenanthrene	58873-44-2	555.15	49.207	2	30117	C17H20	1,1-diphenylpentane	1726-12-1	581.04	51.723	1,2
29919	C17H14	2,3-dihydro-1H-cyclopenta(c)phenanthrene	7258-52-8	419.15	36.173	1,2	30118	C17H20	1,3-diphenylpentane	838-45-9	577.15	51.344	1,2
29920	C17H14BrFN2O2	haloxazolam	59128-97-1	477.15	41.693	1,2	30119	C17H20	1,5-diphenylpentane	1718-50-9	600.15	53.585	1,2
29922	C17H14ClFN2O3	1,3-dihydro-7-chloro-5-(o-fluorophenyl)-3-hy*	40762-15-0	477.67	41.743	1,2	30120	C17H20	1,1-dibenzylpropane	1520-45-2	577.65	51.393	1,2
29923	C17H14Cl2N2O2	cloxazolazepam	24166-13-0	445.15	38.640	1,2	30121	C17H20	4-pentylbiphenyl	7116-96-3	584.00	52.010	2
29927	C17H14N2	elliptisine	519-23-3	491.15	43.034	1,2	30122	C17H20	amyl biphenyl	63990-96-5	584.00	52.010	2
29928	C17H14N2	2-phenyl-5,6-dihydropyrazolo(5,1-a)isoquinol*	61001-31-8	491.15	43.034	2	30127	C17H20N2O	N,N'-diethylcarbanilide	85-98-3	633.15	56.813	2
29929	C17H14N2O	9-hydroxyellipticine	51131-85-2	485.65	42.507	1,2	30128	C17H20N2O	N,N,N',N'-tetramethyl-4,4'-diaminobenzopheno*	90-94-8	633.15	56.813	2
29930	C17H14N2O	1-(4-N-methyl-N-nitrosaminobenzylidene)indene	16699-07-3	476.15	41.597	1,2	30129	C17H20N2O	1-(a,a-dimethylbenzyl)-3-methyl-3-phenylurea	42609-52-9	633.15	56.813	2
29931	C17H14N2O	1-(o-tolylazo)-2-naphthol	2646-17-5	498.15	43.706	1,2	30135	C17H20N2S	promethazine	60-87-7	479.65	41.932	2
29932	C17H14N2O2	4-benzoyl-3-methyl-1-phenyl-2-pyrazolin-5-one	4551-69-3	492.65	43.178	2	30136	C17H20N2S	promazine	58-40-2	479.65	41.932	1,2
29933	C17H14N2O2	2-acetamido-4,5-diphenyloxazole	35629-39-1	492.65	43.178	2	30141	C17H20N6O6	1-(6-amino-9H-purin-9-yl)-N-cyclopropyl-1-de*	58048-24-1	465.15	40.546	1,2
29934	C17H14N2O2	C.I. solvent red	1229-55-6	492.65	43.178	1,2	30150	C17H21ClN2O2S	trans-5-(4-chlorophenyl)-N-cyclohexyl-4-meth*	78587-05-0	401.15	34.474	1,2
29935	C17H14N2O2	5,5'-methylenebis(2-isocyanato)toluene	139-25-3	492.65	43.178	2	30156	C17H21NO2	apoatropine	500-55-0	562.15	49.886	2
29936	C17H14N2O4	2-acetyloxy-N-(3,4-dimethyl-5-isoxazolyl)-1,*	141723-90-2	485.75	42.517	1,2	30157	C17H21NO2	napropamide	15299-99-7	562.15	49.886	2
29937	C17H14O	1-benzyl-2-naphthalenol	36441-31-3	633.15	56.813	2	30158	C17H21NO2	(S)-(-)-(3,4-dimethoxy)benzyl-1-phenylethyla*	308273-67-8	562.15	49.886	2
29938	C17H14O	2-benzyl-1-naphthalenol	36441-32-4	633.15	56.813	2	30159	C17H21NO2	(R)-(+)-(3,4-dimethoxy)benzyl-1-phenylethyla*	134430-93-6	562.15	49.886	2
29939	C17H14O	alpha-phenyl-1-naphthalenemethanol	642-28-4	633.15	56.813	1,2	30160	C17H21NO2	dihydrodeoxymorphine	427-00-9	562.15	49.886	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
30161	C17H21NO2	1-methyl-1-phenyl-2-propynyl cyclohexanecarb*	20921-41-9	562.15	49.886	2	30315	C17H34Br2	1,1-dibromoheptadecane	62168-34-7	652.15	58.679	1,2
30166	C17H21N3	4,4'-dimethylaminobenzophenonimide	492-80-8	424.65	36.694	2	30316	C17H34Br2	1,17-dibromoheptadecane	81726-82-1	652.15	58.679	2
30167	C17H21N3	N,N-dimethyl-p-((p-propylphenyl)azo)aniline	24690-46-8	424.65	36.694	2	30317	C17H34Cl2	1,1-dichloroheptadecane	62046-36-0	630.15	56.519	1,2
30168	C17H21N3	N,N-dimethyl-4-(3,4,5-trimethylphenyl)azoani*	34522-40-2	424.65	36.694	1,2	30318	C17H34F2	1,1-difluoroheptadecane	62127-06-4	566.15	50.275	1,2
30169	C17H21N3	4'-ethyl-2-methyl-4-dimethylaminoazobenzene	6030-03-1	424.65	36.694	2	30319	C17H34I2	1,1-diiodoheptadecane	66577-55-7	774.20	70.764	2
30170	C17H21N3	p-((3-ethyl-p-tolyl)azo)-N,N-dimethylaniline	17010-63-8	424.65	36.694	2	30322	C17H34O	9-heptadecanone	540-08-9	524.65	46.258	1,2
30171	C17H21N3	p-((4-ethyl-m-tolyl)azo)-N,N-dimethylaniline	17010-62-7	424.65	36.694	2	30323	C17H34O	2-heptadecanone	2922-51-2	592.15	52.805	1,2
30172	C17H21N3	4'-isopropyl-4-dimethylaminoazobenzene	24596-38-1	424.65	36.694	2	30324	C17H34O	heptadecanal	629-90-3	598.15	53.390	1,2
30177	C17H22	1-heptylnaphthalene	2876-52-0	610.15	54.562	1,2	30325	C17H34O2	heptadecanoic acid	506-12-7	635.75	57.068	1,2
30178	C17H22	2-heptylnaphthalene	2876-45-1	612.15	54.757	1,2	30326	C17H34O2	hexadecyl formate	4113-08-0	645.88	58.062	2
30180	C17H22ClN3O	metconazole	125116-23-6	558.15	49.498	1,2	30327	C17H34O2	pentadecyl acetate	629-58-3	585.00	69.145	2
30181	C17H22I3N3O8	iopamidol	60166-93-0	535.15	47.271	1,2	30328	C17H34O2	tetradecyl propanoate	6221-95-0	646.58	58.131	2
30182	C17H22N2	bis[4-(dimethylamino)phenyl]methane	101-61-1	663.15	59.760	2	30329	C17H34O2	tridecyl butanoate	56164-20-6	646.58	58.131	2
30183	C17H22N2	N,N-dimethyl-N'-phenyl-N'-benzyl-1,2-ethaned*	961-71-7	663.15	59.760	2	30330	C17H34O2	isopropyl tetradecanoate	110-27-0	651.92	58.656	2
30184	C17H22N2	4,4'-methylenebis(2-ethylbenzenamine)	19900-65-3	663.15	59.760	2	30331	C17H34O2	propyl tetradecanoate	14303-70-9	651.92	58.656	2
30185	C17H22N2	1-(a-methylphenethyl)-2-phenethylhydrazine	2598-76-7	663.15	59.760	2	30332	C17H34O2	methyl palmitate	112-39-0	690.15	62.423	1,2
30192	C17H22O2	cicutoxin	505-75-9	437.15	37.880	2	30336	C17H34S	thiacyclooctadecane	296-21-9	614.15	54.953	1,2
30193	C17H22O2	enanthotoxin	20311-78-8	411.15	35.417	1,2	30337	C17H35Br	1-bromoheptadecane	3508-00-7	622.15	55.736	1,2
30194	C17H22O2	geranyl benzoate	94-48-4	463.15	40.355	1,2	30338	C17H35Cl	1-chloroheptadecane	62016-75-5	613.15	54.855	1,2
30195	C17H22O2	linalyl benzoate	126-64-7	437.15	37.880	2	30339	C17H35F	1-fluoroheptadecane	1545-17-1	576.15	51.247	1,2
30196	C17H22O3	carbestrol	1755-52-8	519.65	45.775	1,2	30340	C17H35I	1-iodoheptadecane	26825-83-2	644.15	57.893	1,2
30206	C17H23NO2	8-hydroxy-1,1,7,7-tetramethyljulolidine-9-ca*	115662-09-4	573.15	50.955	2	30343	C17H35NO2	1-nitroheptadecane	39220-66-1	635.15	57.009	1,2
30207	C17H23NO2	anthranilic acid, linalyl ester	7149-26-0	573.15	50.955	1,2	30346	C17H36	heptadecane	629-78-7	575.30	52.483	1,2
30208	C17H23NO2	1-butylamino-3-(naphthyloxy)-2-propanol	4618-24-0	573.15	50.955	2	30347	C17H36	2-methylhexadecane	1560-92-5	570.15	50.663	1,2
30223	C17H24O	formylethyltetramethyltetralin	58243-85-9	453.15	39.402	2	30348	C17H36	3-methylhexadecane	6418-43-5	571.15	50.761	1,2
30224	C17H24O	1,1,2,3,3,6-hexamethylindan-5-yl methyl keto*	64058-43-1	453.15	39.402	1,2	30349	C17H36	2,2-dimethylpentadecane	61869-05-4	563.15	49.984	1,2
30225	C17H24O3	cyclandelate	456-59-7	466.15	40.641	1,2	30350	C17H36	2,3-dimethylpentadecane	2882-97-5	571.15	50.761	1,2
30226	C17H24O3	terallethrin	15589-31-8	466.15	40.641	2	30351	C17H36	2,4-dimethylpentadecane	61868-07-3	554.15	49.111	1,2
30232	C17H25NO	(E)-5-((3,7-dimethyl-2,6-octadienyl)oxy)-2-e*	61750-69-4	442.15	38.355	1,2	30352	C17H36O	1-heptadecanol	1454-85-9	597.15	60.259	1,2
30233	C17H25NO	2-octanoyl-1,2,3,4-tetrahydroisoquinoline	63937-47-3	442.15	38.355	2	30353	C17H36O	2-heptadecanol	16813-18-6	601.15	53.683	1,2
30234	C17H25NO2	MGK 264	113-48-4	430.15	37.215	1,2	30354	C17H36O	9-heptadecanol	624-08-8	599.15	53.487	2
30235	C17H25NO2	menthyl anthranilate	134-09-8	430.15	37.215	2	30355	C17H36O	heptadecanol (mixed primary isomers)	52783-44-5	599.15	53.487	2
30236	C17H25NO2	isopromedol	64-39-1	430.15	37.215	2	30356	C17H36O2	1,2-heptadecanediol	34719-63-6	651.15	58.580	2
30241	C17H26	1-heptyl-[1,2,3,4-tetrahydronaphthalene]	66563-99-3	594.15	53.000	1,2	30357	C17H36O2	1,3-heptadecanediol	---	662.15	59.662	2
30242	C17H26	2-heptyl-[1,2,3,4-tetrahydronaphthalene]	26438-24-4	598.15	53.390	1,2	30358	C17H36O2	1,4-heptadecanediol	---	683.15	61.732	2
30243	C17H26ClNO2	butachlor	23184-66-9	408.15	35.134	2	30359	C17H36O2	1,17-heptadecanediol	66577-59-1	670.15	60.450	2
30244	C17H26ClNO2	pretilachlor	51218-49-6	408.15	35.134	1,2	30361	C17H36O6	bis(butylcarbitol)formal	143-29-3	353.15	29.974	1,2
30253	C17H26O3	11-phenoxyundecanoic acid	7170-44-7	490.15	42.939	1,2	30362	C17H36S	1-heptadecanethiol	53193-22-9	621.16	62.316	1,2
30255	C17H27BN2	myborin	34513-77-4	432.15	37.405	1,2	30363	C17H36S	2-heptadecanethiol	66577-60-4	614.15	54.953	1,2
30257	C17H27NO2	2-ethylhexyl 4-(dimethylamino)benzoate	21245-02-3	598.15	53.390	1,2	30364	C17H36S	methyl hexadecyl sulfide	27563-68-4	611.00	65.548	2
30258	C17H27NO2	amyldimethyl-p-amino benzoic acid	58817-05-3	598.15	53.390	2	30365	C17H36S	ethyl pentadecyl sulfide	64919-20-6	611.00	65.548	2
30261	C17H27NO4	2,3-bistrimethylacetoxymethyl-1-methylpyrrole	---	500.15	43.899	1,2	30366	C17H36S	propyl tetradecyl sulfide	66577-61-5	611.00	65.548	2
30262	C17H27NO4	corgard	42200-33-9	500.15	43.899	2	30367	C17H36S	butyl tridecyl sulfide	66577-62-6	611.00	65.548	2
30264	C17H28	undecylbenzene	6742-54-7	586.40	56.056	1,2	30368	C17H36Sn	tributyl(3-methyl-2-butenyl)tin	53911-92-5	556.15	49.304	1,2
30267	C17H28O	2,6-di-tert-pentyl-4-methylphenol	56103-67-4	556.15	49.304	1,2	30369	C17H37N	heptadecylamine	4200-95-7	616.15	55.148	1,2
30268	C17H28O2	trans,trans-farnesyl acetate	4128-17-0	494.90	43.394	2	30370	C17H37N	methylhexadecylamine	13417-08-8	594.15	53.000	1,2
30269	C17H28O2	caryophyllene acetate	57082-24-3	494.90	43.394	2	30371	C17H37N	ethylpentadecylamine	56392-13-3	595.15	53.097	1,2
30270	C17H28O2	8b-H-cedran-8-ol acetate	77-54-3	491.65	43.082	1,2	30372	C17H37N	dimethylpentadecylamine	17678-60-3	590.15	52.610	1,2
30271	C17H28O2	cyclamen aldehyde diethyl acetal	7149-24-8	498.15	43.706	1,2	30373	C17H37N	diethyltridecylamine	66577-48-8	564.15	50.081	1,2
30272	C17H28O2	5-(1-methylethenyl)-b,b,2-trimethyl-1-cyclop*	84012-64-6	494.90	43.394	2	30374	C17H37N	methyldioctylamine	4455-26-9	591.95	52.785	2
30273	C17H28O2	nerolidyl acetate	56001-43-5	494.90	43.394	2	30399	C18H10O7	Z-(-)-4,6,8-trihydroxy-3a,12a-dihydroanthra(*	6807-96-1	389.15	33.344	1,2
30281	C17H30O	9-cycloheptadecene-1-one	74244-64-7	616.15	55.148	1,2	30403	C18H11NO	benz(c)acridine-7-carboxaldehyde	3301-75-5	402.15	34.568	1,2
30282	C17H30O	cis-9-cycloheptadecen-1-one	542-46-1	616.15	55.148	1,2	30406	C18H12	chrysene	218-01-9	714.15	68.900	1,2
30284	C17H32	1-heptadecyne	26186-00-5	572.16	54.580	1,2	30407	C18H12	benz[a]anthracene	56-55-3	711.15	64.499	1,2
30285	C17H32	2-heptadecyne	61847-96-9	584.15	52.025	1,2	30408	C18H12	benzo[c]phenanthrene	195-19-7	707.82	64.169	2
30286	C17H32	3-heptadecyne	61886-63-3	573.15	50.955	1,2	30409	C18H12	naphthacene	92-24-0	707.82	64.169	2
30287	C17H32	1,1-dicyclohexylpentane	54833-30-6	580.15	51.636	1,2	30410	C18H12	triphenylene	217-59-4	698.15	63.213	1,2
30288	C17H32	1,3-dicyclohexyl-2-ethylpropane	54833-34-0	579.15	51.539	1,2	30411	C18H12	1-ethenyl pyrene	17088-21-0	707.82	64.169	2
30289	C17H32	1,5-dicyclohexylpentane	54833-31-7	598.15	53.390	1,2	30412	C18H12	4-ethenyl pyrene	73529-25-6	707.82	64.169	2
30290	C17H32	1-dodecylcyclopentene	62184-77-4	571.15	50.761	1,2	30436	C18H12O2	benz(a)anthracene-3,9-diol	56614-97-2	469.15	40.928	1,2
30292	C17H32O2	9-heptadecenoic acid	10136-52-4	620.00	55.525	2	30437	C18H12O2	3-methoxybenzanthrone	3688-79-7	469.15	40.928	2
30294	C17H33Br	cis-1-bromo-1-heptadecene	66563-89-1	610.15	54.562	1,2	30439	C18H12O7	versicolorin B	4331-22-0	448.15	38.925	1,2
30295	C17H33Br	trans-1-bromo-1-heptadecene	66563-90-4	610.15	54.562	1,2	30442	C18H13ClF3NO7	fluoroglycofen	77501-90-7	446.65	38.783	1,2
30296	C17H33Br3	1,1,1-tribromoheptadecane	62127-73-5	676.15	61.041	1,2	30446	C18H13N	benz(a)anthracen-7-amine	2381-18-2	466.65	40.689	2
30297	C17H33Cl	cis-1-chloro-1-heptadecene	66563-91-5	617.15	55.246	1,2	30447	C18H13N	benz(a)anthracen-8-amine	56961-60-5	450.15	39.116	1,2
30298	C17H33Cl	trans-1-chloro-1-heptadecene	66563-92-6	617.15	55.246	1,2	30448	C18H13N	7-methylbenz(c)acridine	3340-94-1	466.65	40.689	2
30300	C17H33Cl3	1,1,1-trichloroheptadecane	62108-61-6	643.15	57.794	1,2	30449	C18H13N	12-methylbenz(a)acridine	3340-93-0	483.15	42.268	1,2
30301	C17H33F	cis-1-fluoro-1-heptadecene	66577-63-7	591.79	52.770	2	30456.1	C18H13N3O4	4,4'-dinitrotriphenylamine	1100-1-3	743.00	84.115	1,2
30302	C17H33F	trans-1-fluoro-1-heptadecene	66577-51-3	591.79	52.770	2	30457	C18H14	m-terphenyl	92-06-8	650.00	64.091	1,2
30303	C17H33F3	1,1,1-trifluoroheptadecane	62126-84-5	560.15	49.692	1,2	30458	C18H14	o-terphenyl	84-15-1	609.00	58.580	1,2
30304	C17H33I	cis-1-iodo-1-heptadecene	66577-52-4	632.15	56.715	1,2	30459	C18H14	p-terphenyl	92-94-4	649.15	63.431	1,2
30305	C17H33I	trans-1-iodo-1-heptadecene	66577-53-5	632.15	56.715	1,2	30460	C18H14	(2,4-cyclopentadien-1-ylidenephenylmethyl)be*	2175-90-8	586.08	52.213	2
30306	C17H33I3	1,1,1-triiocloheptadecane	---	864.55	79.816	2	30461	C18H14	5,12-dihydronaphthacene	959-02-4	586.08	52.213	2
30307	C17H33N	heptadecanenitrile	5399-02-0	622.15	55.736	1,2	30462	C18H14	1,2-dihydrobenzo(a)anthracene	60968-08-3	586.08	52.213	2
30309	C17H33N3	6-(dibutylamino)-1,8-diazabicyclo[5.4.0]unde*	106847-76-1	585.15	52.123	1,2	30463	C18H14	3,4-dihydrobenzo(a)anthracene	60968-01-6	586.08	52.213	2
30310	C17H34	dodecylcyclopentane	5634-30-0	584.06	52.593	1,2	30464	C18H14	1,2-dihydrochrysene	41593-31-1	586.08	52.213	2
30311	C17H34	undecylcyclohexane	54105-66-7	586.26	52.049	1,2	30465	C18H14	3,4-dihydrochrysene	71435-43-3	586.08	52.213	2
30312	C17H34	cycloheptadecane	295-97-6	586.15	52.220	1,2	30466	C18H14	16,17-dihydro-17-methylene-15H-cyclopenta(a)*	5837-17-2	586.08	52.213	2
30313	C17H34	1-heptadecene	6765-39-5	573.48	53.555	1,2	30467	C18H14	2,3-dimethylfluoranthene	23339-04-0	586.08	52.213	2
30314	C17H34	2-methyl-1-hexadecene	61868-19-7	573.15	50.955	1,2	30468	C18H14	7,8-dimethylfluoranthene	38048-87-2	586.08	52.213	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
30469	C18H14	8,9-dimethylfluoranthene	25889-63-8	586.08	52.213	2	30666	C18H18N4	5-((4-(dimethylamino)-o-tolyl)azo)quinoline	17416-21-6	439.15	38.070	1,2
30470	C18H14	17-methyl-15H-cyclopenta(a)phenanthrene	3353-08-0	436.15	37.785	1,2	30667	C18H18N4	3'-methyl-5'-(p-dimethylaminophenylazo)quino*	17400-69-0	499.65	43.850	1,2
30471	C18H14	terphenyls	26140-60-3	586.08	52.213	2	30668	C18H18N4	6'-methyl-5'-(p-dimethylaminophenylazo)quino*	17400-70-3	469.40	40.952	2
30478	C18H14N2O	4-(3-carbazolylamino)phenol	86-72-6	487.15	42.651	1,2	30669	C18H18N4	8'-methyl-5'-(p-dimethylaminophenylazo)quino*	17416-20-5	469.40	40.952	2
30479	C18H14N2O	2,3-dihydro-2-(1-naphthyl)-4(1H)-quinazolino*	31785-60-1	487.15	42.651	2	30671	C18H18N6O5S2	antibiotic BL-640	51627-14-6	436.15	37.785	1,2
30480	C18H14N2O	2-(m-methoxyphenyl)-pyrazolo(5,1-a)isoquinol*	61001-40-9	487.15	42.651	2	30672	C18H18N6O5S2	cephamandole	34444-01-4	436.15	37.785	2
30486	C18H14O	(2-methylphenyl)-1-naphthylmethanone	68723-25-1	638.15	57.304	1,2	30673	C18H18O2	dienestrol	84-17-3	545.15	48.239	2
30487	C18H14O	1-(1-naphthyl)-2-phenylethanone	605-85-6	638.15	57.304	2	30674	C18H18O2	3-hydroxyestra-1,3,5,7,9-pentaen-17-one	517-09-9	545.15	48.239	2
30488	C18H14O	2,6-diphenylphenol	2432-11-3	638.15	57.304	2	30675	C18H18O2	9,10-diethoxyanthracene	68818-86-0	545.15	48.239	2
30489	C18H14O	15,16-dihydro-7-methylcyclopenta(a)phenanthr*	30835-65-5	638.15	57.304	2	30676	C18H18O2	(E,E)-dienestrol	13029-44-2	545.15	48.239	1,2
30490	C18H14O	16,17-dihydro-11-methylcyclopenta(a)phenanth*	24684-42-2	638.15	57.304	2	30677	C18H18O2	3-phenylpropyl cinnamate	122-68-9	545.15	48.239	2
30491	C18H14O	trans-1,2-dihydroxy-anti-3,4-epoxy-1,2,3,4-t*	---	638.15	57.304	2	30678	C18H18O3	4-allyl-2-methoxyphenylphenylacetate	10402-33-2	444.65	38.592	1,2
30492	C18H14O	1,2-epoxy-1,2,3,4-tetrahydrobenz(a)anthracene	64521-16-0	638.15	57.304	2	30679	C18H18O3	3,4-bis(p-methoxyphenyl)-3-buten-2-one	56622-38-9	419.45	36.202	1,2
30493	C18H14O	3,4-epoxy-1,2,3,4-tetrahydrochrysene	67694-88-6	638.15	57.304	2	30682	C18H18O6	dibenzyl tartrate	622-00-4	2,377.65	239.505	2
30494	C18H14O	1,2-epoxy-1,2,3,4-tetrahydrotriphenylene	74444-59-0	638.15	57.304	2	30683	C18H18O6	triallyl 1,3,5-benzenetricarboxylate	17832-16-5	2,377.65	239.505	2
30495	C18H14O	1-(1-hydroxyethyl)pyrene	65954-42-9	638.15	57.304	2	30684	C18H18O6	triallyl trimellitate	2694-54-4	2,377.65	239.505	1,2
30496	C18H14O	11-methyl-15,16-dihydro-17-oxocyclopenta(a)p*	892-17-1	638.15	57.304	2	30685	C18H18O6	succinic acid, (4-ethoxy-1-napthylcarbonylme*	60634-59-5	2,377.65	239.505	2
30497	C18H14O	a-methyl-2-pyrenemethanol	86470-99-7	638.15	57.304	2	30688	C18H19Cl2N3O2	o-(4-bis(b-chloroethyl)amino-o-tolylazo)benz*	4213-40-5	420.65	36.315	1,2
30498	C18H14O2	1,4-dipenoxybenzene	3061-36-7	455.15	39.592	1,2	30701	C18H19N3	3-(o-butylphenyl)-5-phenyl-S-triazole	85303-88-4	513.15	45.149	1,2
30499	C18H14O2	1,3-diphenoxybenzene	3379-38-2	473.00	41.296	2	30702	C18H19N3O	N-(2-(dimethylamino)ethyl)-1-acridinecarboxa*	106626-55-5	494.65	43.370	2
30500	C18H14O2	benz(a)anthracene-1,2-dihydrodiol	60967-88-6	473.00	41.296	2	30703	C18H19N3O	5-(m-ethoxyphenyl)-3-(o-ethylphenyl)-S-triaz*	85303-98-6	494.65	43.370	1,2
30501	C18H14O2	benz(a)anthracene-3,4-dihydrodiol	60967-89-7	473.00	41.296	2	30704	C18H19N3O	ondansetron	99614-02-5	494.65	43.370	2
30502	C18H14O2	benz(a)anthracene-5,6-dihydrodiol	3719-37-7	490.85	43.006	1,2	30706	C18H19N3O3	2'-methoxy-4'-allylphenyl 4-guanidinobenzoate	89022-12-8	483.15	42.268	1,2
30503	C18H14O2	trans-benz(a)anthracene-8,9-dihydrodiol	34501-24-1	473.00	41.296	2	30707	C18H19N3O3	4'-succinylamino-2,3'-dimethylazobenzol	63042-13-7	465.45	40.575	1,2
30504	C18H14O2	benz(a)anthracene-10,11-dihydrodiol	60967-90-0	473.00	41.296	2	30710	C18H19N3O6S	cefaloglycin	3577-01-3	490.55	42.977	1,2
30505	C18H14O2	trans-1,2-dihydro-1,2-dihydroxychrysene	64920-31-6	473.00	41.296	2	30713	C18H20	2,3-dihydro-1,1,3-trimethyl-3-phenyl-1H-inde*	3910-35-8	581.65	51.782	1,2
30506	C18H14O2	15,16-dihydro-16-hydroxy-11-methylcyclopenta*	24684-56-8	473.00	41.296	2	30714	C18H20	1,1-diphenyl-1-hexene	1530-19-4	594.95	53.078	1,2
30507	C18H14O2	15,16-dihydro-11-methoxycyclopenta(a)phenant*	5836-85-1	473.00	41.296	2	30715	C18H20	2,4-diphenyl-4-methyl-1-pentene	6362-80-7	588.30	52.430	2
30508	C18H14O2	trans-1,2,-dihydroxy-1,2-dihydrotriphenylene	68151-04-2	473.00	41.296	2	30718	C18H20ClN3O	clodazone	4755-59-3	474.65	41.454	1,2
30509	C18H14O3	3-phenyl-2-propenoic anhydride	538-56-7	444.15	38.545	2	30719	C18H20FN3O4	ofloxacin	82419-36-1	446.05	38.726	1,2
30510	C18H14O3	ethyl 2-(9-anthryl)-2-oxoacetate	---	444.15	38.545	2	30728	C18H20N2O6	syringaldazine	14414-32-5	498.15	43.706	2
30511	C18H14O3	(+)-benzo(c)phenanthrene-3,4-diol-1,2-epoxid*	---	444.15	38.545	2	30729	C18H20N2O6	ethylenediamine-di(o-hydroxyphenyl)acetic ac*	1170-02-1	498.15	43.706	2
30512	C18H14O3	(+)-benzo(c)phenanthrene-3,4-diol-1,2-epoxid*	---	444.15	38.545	2	30730	C18H20N2O6	ethyl methyl 1,4-dihydro-2,6-dimethyl-4-(m-n*	39562-70-4	498.15	43.706	1,2
30513	C18H14O3	(-)-benzo(c)phenanthrene-3,4-diol-1,2-epoxid*	---	444.15	38.545	2	30735	C18H20N4O2	N,N'-dimethyl-4,4'-azodiacetanilide	35077-51-1	437.15	37.880	2
30514	C18H14O3	B(c)PH diol epoxide-1	75410-89-8	444.15	38.545	2	30736	C18H20N4O2	1-nitro-9-(3'-dimethylaminopropylamino)-acri*	4533-39-5	437.15	37.880	2
30515	C18H14O3	B(c)PH diol epoxide-2	---	444.15	38.545	2	30737	C18H20N4O2	3-nitro-9-(3'-dimethylaminopropylamino)acrid*	6237-24-7	437.15	37.880	1,2
30516	C18H14O3	syn-chrysene-3,4-diol 1,2-oxide	77255-40-4	444.15	38.545	2	30743	C18H20O3	3,4-bis(p-hydroxyphenyl)-2-hexanone	101564-54-9	439.40	38.093	2
30517	C18H14O3	(±)-(1R,2S,3R,4R)-3,4-dihydro-3,4-dihydroxy-*	64598-80-7	444.15	38.545	2	30744	C18H20O3	diethylstilboestrol-3,4-oxide	6052-82-0	439.40	38.093	1,2
30518	C18H14O3	(±)-(1S,2R,3R,4R)-3,4-dihydro-3,4-dihydroxy-*	64598-81-8	444.15	38.545	2	30745	C18H20O4	diofenolan	63837-33-2	523.15	46.113	1,2
30519	C18H14O3	(±)trans-8b,9a-dihydroxy-10a,11a-epoxy-8,9,1*	64598-83-0	444.15	38.545	2	30749	C18H21ClN2	chlorcyclizine	82-93-9	414.15	35.701	1,2
30520	C18H14O3	(±)-trans-1,b,2,a-dihydroxy-3,a,4,a-epoxy-1,*	64838-75-1	444.15	38.545	1,2	30750	C18H21ClN4O9	rfcnu	55102-44-8	397.65	34.144	1,2
30521	C18H14O3	(±)-trans-8b,9a-dihydroxy-10b,11b-epoxy-8,9,*	64598-82-9	444.15	38.545	2	30753	C18H21NO	alpha,alpha-diphenyl-2-piperidinemethanol	467-60-7	448.15	38.925	2
30522	C18H14O3	(±)-1,b,2,a-dihydroxy-3,a,4,a-epoxy-1,2,3,4-*	72074-67-0	444.15	38.545	2	30754	C18H21NO	a,a-diphenyl-4-piperidinomethanol	115-46-8	448.15	38.925	2
30523	C18H14O3	(±)-1,b,2,a-dihydroxy-3,b,4,b-epoxy-1,2,3,4-*	72074-66-9	444.15	38.545	2	30755	C18H21NO	N-(4-methoxybenzylidene)-4-butylaniline	26227-73-6	448.15	38.925	1,2
30524	C18H14O3	(±)-1,b,2,a-dihydroxy-3,a,4,a-epoxy-1,2,3,4-*	74465-39-7	444.15	38.545	2	30756	C18H21NO	N-pivaloyl-o-benzylaniline	85864-33-1	448.15	38.925	2
30525	C18H14O3	(±)-1,b,2,a-dihydroxy-3,b,4,b-epoxy-1,2,3,4-*	74465-38-6	444.15	38.545	2	30757	C18H21NO	1-((4-methoxy(1,1'-biphenyl)-3-yl)methyl)pyr*	66839-98-3	448.15	38.925	2
30526	C18H14O3	(1aa,2b,3a,11ba)-1a,2,3,11b-tetrahydrochryse*	70951-83-6	444.15	38.545	2	30772	C18H21N3O	dibenzepin	4498-32-2	385.65	33.015	1,2
30532	C18H15As	triphenylarsine	603-32-7	633.15	56.813	1,2	30773	C18H21N3O	D-lysergic acid dimethylamide	4238-84-0	385.65	33.015	2
30542	C18H15ClSi	chlorotriphenylsilane	76-86-8	651.15	58.580	1,2	30774	C18H21N3O	lysergic acid ethylamide	478-99-9	385.65	33.015	2
30548	C18H15N	triphenylamine	603-34-9	638.15	57.304	1,2	30777	C18H22	2,2',4,4',6,6'-hexamethyl-1,1'-biphenyl	4482-03-5	570.15	50.663	1,2
30549	C18H15N	diphenyl-2-pyridylmethane	3678-70-4	638.15	57.304	2	30778	C18H22	1,1-diphenylhexane	1530-04-7	594.18	53.003	1,2
30554	C18H15NO3	N-acetoxy-2-acetamidophenanthrene	26541-57-1	459.15	39.973	1,2	30779	C18H22	2,3-dimethyl-2,3-diphenylbutane	1889-67-4	589.00	52.991	1,2
30555	C18H15NO3	oxaprozin	21256-18-8	459.15	39.973	2	30780	C18H22	1,1-bis(3,4-dimethylphenyl)ethane	1742-14-9	593.05	52.892	2
30559	C18H15N3O	4-(4-N-methyl-N-nitrosaminostyryl)quinoline	16699-10-8	468.15	40.833	1,2	30781	C18H22	1,1'-(1,6-hexanediyl)bisbenzene	1087-49-6	618.85	55.413	1,2
30564	C18H15O3P	triphenyl phosphite	101-02-0	633.15	56.813	1,2	30782	C18H22	4-hexylbiphenyl	59662-31-6	593.05	52.892	2
30565	C18H15O3P	triphenyl phosphonate	3049-24-9	633.15	56.813	2	30795	C18H22N2O	N,N-diethyl-1,2,3,4-tetrahydroacridine-9-car*	7101-57-7	389.15	33.344	1,2
30566	C18H15O4P	triphenyl phosphate	115-86-6	686.65	62.077	1,2	30796	C18H22N2O	(3,5-di-tert-butyl-4-hydroxybenzylidene)malo*	10537-47-0	382.15	32.687	1,2
30567	C18H15P	triphenylphosphine	603-35-0	650.15	67.933	1,2	30798	C18H22N2O2	N,N'-bis(p-ethoxyphenyl)acetamidine	101-93-9	398.95	34.266	1,2
30583	C18H16ClNO5	fenoxaprop-ethyl	66441-23-4	573.15	50.955	1,2	30799	C18H22N2O2S	alimemazine-S,S-dioxide	3689-50-7	372.35	31.768	1,2
30586	C18H16F4O2	3,5,3',5'-tetrafluorodiethylstilbestrol	71292-84-7	392.65	33.673	1,2	30800	C18H22N2O2S	pyributicarb	88678-67-5	372.35	31.768	2
30588	C18H16N2	N,N'-diphenyl-p-phenylenediamine	74-31-7	688.00	73.977	1,2	30806	C18H22O2	dicumyl peroxide	80-43-3	669.00	51.265	1,2
30589	C18H16N2	triphenylhydrazine	606-88-2	688.00	62.210	2	30807	C18H22O2	estrone	53-16-7	669.00	60.337	2
30594	C18H16N2O3	1-((2,5-dimethoxyphenyl)azo)-2-naphthol	6358-53-8	393.15	33.720	1,2	30808	C18H22O2	hexestrol	84-16-2	669.00	60.337	2
30595	C18H16N6	1,3-bis((phenyl)triazeno)benzene	---	377.65	32.265	1,2	30809	C18H22O2	8-isoestrone	517-06-6	669.00	60.337	2
30609	C18H17NO2	(3R-cis)-3,7a-diphenyltetrahydropyrrolo-[2,1*	132959-39-8	423.15	36.552	2	30810	C18H22O2	hydroxymethyl 1-phenyl-3-adamantyl ketone	73599-93-6	669.00	60.337	2
30610	C18H17NO2	(3S-cis)-(+)-3,7a-diphenyltetrahydropyrrolo-*	161970-71-4	423.15	36.552	2	30811	C18H22O2	5,7,11,13-octadecatetrayne-1,18-diol	76379-67-4	669.00	60.337	2
30611	C18H17NO2	1,1-diphenyl-2-propynyl-N-ethylcarbamate	10473-64-0	423.15	36.552	2	30822	C18H23NO	orphenadrine	83-98-7	468.15	40.833	1,2
30612	C18H17NO2	2-nitro-7,8,9,10,11,12-hexahydrochrysene	141511-29-7	423.15	36.552	2	30823	C18H23NO	N,N-dimethyl-2-(a-methyl-a-phenylbenzyloxy)e*	3572-74-5	468.15	40.833	2
30640	C18H18	1-methyl-7-isopropylphenanthrene	483-65-8	673.00	59.500	2	30824	C18H23NO2	citral methylanthranilate, schiffs base	67801-47-2	508.15	44.668	1,2
30641	C18H18	2-(tert-butyl)anthracene	18801-00-8	663.18	59.800	2	30836	C18H24	1-octylnaphthalene	2876-51-9	625.15	56.029	1,2
30642	C18H18	2,3,9,10-tetramethylanthracene	66552-77-0	663.18	59.800	2	30837	C18H24	2-octylnaphthalene	2876-44-0	628.15	56.323	1,2
30643	C18H18	1:2:3:4-tetramethylphenanthrene	4466-77-7	673.00	59.500	2	30838	C18H24	2,6-bis(1,1-dimethylethyl)-naphthalene	3905-64-4	603.05	53.868	1,2
30652	C18H18ClN3S	2-chloro-11-(4-methylpiperazino)dibenzo(b,f)*	2058-52-8	436.55	37.823	1,2	30839	C18H24	dodecahydrotriphenylene	1610-39-5	618.78	55.406	2
30653	C18H18ClOSi	7-chloro-1,3-dihydro-5-phenyl-1-trimethylsil*	55299-24-6	432.65	37.453	1,2	30843	C18H24N2	santoflex 13	793-24-8	533.15	47.078	1,2
30660	C18H18N2O4S	2,5-bis(3,4-dimethoxyphenyl)-1,3,4-thiadiazo*	49773-64-0	436.55	37.823	1,2	30861	C18H24O4	butyl cyclohexyl phthalate	84-64-0	478.65	41.837	1,2
30661	C18H18N2O6	5,8-dihydroxy-1,4-dihydroxyethylaminoanthraq*	3179-90-6	446.65	38.783	1,2	30863	C18H24O6	butyl glycolyl butyl phthalate	85-70-1	618.15	55.344	1,2
30662	C18H18N3O4P	triaminophenyl phosphate	4232-84-2	432.65	37.453	1,2	30865	C18H25NO	2-allyl-5-ethyl-2'-hydroxy-9-methyl-6,7-benz*	6654-31-5	436.40	37.808	2
30663	C18H18N4	5-((p-(dimethylamino)phenyl)azo)-7-methylqui*	17400-65-6	469.40	40.952	2	30866	C18H25NO	cyclazocine	3572-80-3	415.15	35.795	1,2
30664	C18H18N4	5-((p-(dimethylamino)phenyl)azo)quinaldine	17416-18-1	469.40	40.952	2	30867	C18H25NO	dextromethorphan	125-71-3	436.40	37.808	2
30665	C18H18N4	5-((4-(dimethylamino)-m-tolyl)azo)quinoline	17400-68-9	469.40	40.952	2	30868	C18H25NO	indolene	68527-79-7	457.65	39.830	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
30869	C18H25NO	phenyl (1-piperidinocyclohexyl) ketone	13441-36-6	436.40	37.808	2	31049	C18H34O6	bis(2-butoxyethyl) adipate	141-18-4	459.15	39.973	2
30874	C18H25NO6	jacobine	6870-67-3	449.90	39.092	1,2	31050	C18H34O6	di(2-ethylhexyl) peroxydicarbonate	16111-62-9	459.15	39.973	2
30876	C18H25NO7	retrorsine-N-oxide	15503-86-3	467.65	40.785	1,2	31051	C18H34O6	sorbitan monolaurate	1338-39-2	459.15	39.973	1,2
30885	C18H26N2O5S	furathiocarb	65907-30-4	470.15	41.024	1,2	31054	C18H35Br	cis-1-bromo-1-octadecene	66292-44-2	623.15	55.834	1,2
30891	C18H26O2	cinmethylin	87818-31-3	586.15	52.220	1,2	31055	C18H35Br	trans-1-bromo-1-octadecene	66292-45-3	623.15	55.834	1,2
30892	C18H26O2	(R,S)-(E)-1-ethynyl-2-methyl-2-pentenyl(1R)-*	54406-48-3	568.65	50.518	1,2	31057	C18H35Br3	1,1,1-tribromooctadecane	62127-74-6	687.15	62.126	1,2
30893	C18H26O2	citronellyl phenylacetate	139-70-8	538.13	47.559	2	31058	C18H35Cl	cis-1-chloro-1-octadecene	66292-46-4	631.15	56.617	1,2
30894	C18H26O2	(-)-menthyl phenylacetate	26171-78-8	516.25	45.448	1,2	31059	C18H35Cl	trans-1-chloro-1-octadecene	66292-47-5	631.15	56.617	1,2
30895	C18H26O2	nortestonate	434-22-0	481.45	42.105	1,2	31061	C18H35Cl3	1,1,1-trichlorooctadecane	62108-62-7	656.15	59.072	1,2
30896	C18H26O3	2-ethylhexyl 4-methoxycinnamate	5466-77-3	471.15	41.119	1,2	31062	C18H35F	cis-1-fluoro-1-octadecene	66292-48-6	614.67	55.004	2
30897	C18H26O3	2-ethylhexyl trans-4-methoxycinnamate	83834-59-7	471.15	41.119	2	31063	C18H35F	trans-1-fluoro-1-octadecene	66292-49-7	614.67	55.004	2
30898	C18H26O4	diisopentyl phthalate	605-50-5	607.15	54.269	2	31064	C18H35F3	1,1,1-trifluorooctadecane	1511-82-6	569.15	50.566	1,2
30899	C18H26O4	dipentyl phthalate	131-18-0	607.15	54.269	2	31065	C18H35I	cis-1-iodo-1-octadecene	66292-50-0	645.15	57.991	1,2
30906	C18H27ClO2	2,4-di-2-amylphenoxyacetyl chloride	63990-57-8	462.15	40.260	1,2	31066	C18H35I	trans-1-iodo-1-octadecene	66292-51-1	645.15	57.991	1,2
30907	C18H27NO2	(±)-1-(2-(1-cyclopenten-1-yl)phenoxy)-3-((1,*	121010-10-4	503.75	44.245	1,2	31067	C18H35I3	1,1,1-triiodooctadecane	---	887.43	82.121	2
30913	C18H28	1-octyl-[1,2,3,4-tetrahydronaphthalene]	29138-91-8	608.15	54.366	1,2	31069	C18H35N	octadecanenitrile	638-65-3	635.15	57.009	1,2
30914	C18H28	2-octyl-[1,2,3,4-tetrahydronaphthalene]	66553-10-4	612.15	54.757	1,2	31071	C18H36	1-octadecene	112-88-9	587.97	55.597	1,2
30918	C18H28N2O	d(+)-bupivacaine	27262-45-9	483.90	42.339	2	31072	C18H36	9-octadecene	5557-31-3	594.74	53.057	2
30919	C18H28N2O	l(-)-bupivacaine	27262-47-1	534.15	47.175	1,2	31073	C18H36	2-methyl-1-heptadecene	42764-74-9	588.15	52.415	1,2
30920	C18H28N2O	1-butyl-2',6'-pipecoloxylidide	2180-92-9	433.65	37.547	1,2	31074	C18H36	tridecylcyclopentane	6006-34-4	598.56	54.308	1,2
30925	C18H28O2	phenyl laurate	4228-00-6	508.85	44.735	2	31075	C18H36	dodecylcyclohexane	1795-17-1	600.86	53.555	1,2
30926	C18H28O2	4'-decyloxyacetophenone	18099-59-7	508.85	44.735	2	31076	C18H36	cyclooctadecane	296-18-4	598.15	53.390	1,2
30927	C18H28O2	kinoprene	42588-37-4	508.85	44.735	2	31079	C18H36Br2	1,1-dibromooctadecane	62168-35-8	664.15	59.859	1,2
30928	C18H28O2	carvacryl 2-propylvalerate	30129-30-7	508.85	44.735	2	31080	C18H36Cl2	1,1-dichlorooctadecane	62017-20-3	643.15	57.794	1,2
30929	C18H28O2	2-propynyl(2E,4E)-3,7,11-trimethyl-2,4-dodec*	37882-31-8	528.55	46.634	1,2	31082	C18H36Cl4Cr2O3	chromic chloride stearate	15242-96-3	547.15	48.432	1,2
30930	C18H28O2	2-propylvaleric acid thymyl ester	30129-29-4	489.15	42.843	1,2	31083	C18H36F2	1,1-difluorooctadecane	62127-07-5	579.15	51.539	1,2
30941	C18H29Br2NO2	2-(3,5-dibromo-2-pentyloxybenzyloxy)triethyl*	---	600.45	53.614	1,2	31084	C18H36I2	1,1-diiodooctadecane	66292-27-1	797.08	73.049	2
30947	C18H30	dodecylbenzene	123-01-3	600.76	56.796	1,2	31090	C18H36O	octadecanal	638-66-4	610.15	54.562	1,2
30948	C18H30	hexaethylbenzene	604-88-6	571.16	54.836	1,2	31091	C18H36O	2-octadecanone	7373-13-9	606.15	54.171	1,2
30949	C18H30	1,2,4,5-tetraisopropylbenzene	635-11-0	532.15	46.982	1,2	31092	C18H36O	3-octadecanone	18261-92-2	607.48	54.301	2
30950	C18H30	7,11-octadecadiyne	103697-14-9	570.29	50.677	2	31093	C18H36O	hexadecyl vinyl ether	822-28-6	607.48	54.301	2
30951	C18H30	octadecahydrochrysene	2090-14-4	626.15	56.127	1,2	31094	C18H36O	cis-9-octadecen-1-ol	143-28-2	607.48	54.301	2
30952	C18H30	1,3,5-tri-tert-butylbenzene	1460-02-2	521.25	33.312	1,2	31095	C18H36O	trans-9-octadecen-1-ol	506-42-3	606.15	54.171	1,2
30953	C18H30	1,2,4-tri-tert-butylbenzene	1459-11-6	570.29	50.677	2	31096	C18H36O	1,2-epoxyoctadecane	7390-81-0	607.48	54.301	2
30957	C18H30HgS	(dodecylthio)phenylmercury	5416-74-0	458.40	39.902	1,2	31097	C18H36O2	octadecanoic acid	57-11-4	648.35	65.687	1,2
30958	C18H30N2	5',6',7',8'-tetrahydrodispiro(cyclohexane-1,*	53378-71-5	435.65	37.737	1,2	31098	C18H36O2	2-octyldecanoic acid	619-39-6	665.10	59.952	2
30960	C18H30O	2,4,6-tri-tert-butylphenol	732-26-3	551.15	48.820	1,2	31099	C18H36O2	heptadecyl formate	66292-28-2	668.76	60.313	2
30961	C18H30O	4-sec-butyl-2,6-di-tert-butylphenol	17540-75-9	562.15	49.886	2	31100	C18H36O2	hexadecyl acetate	629-70-9	600.00	74.634	2
30962	C18H30O	4-dodecylphenol	104-43-8	573.15	50.955	1,2	31101	C18H36O2	pentadecyl propanoate	66292-29-3	669.46	60.382	2
30963	C18H30O	dodecylphenols	27193-86-8	562.15	49.886	2	31102	C18H36O2	tetradecyl butanoate	6221-98-3	669.46	60.382	2
30991	C18H32O2	linoleic acid	60-33-3	628.00	68.997	1,2	31103	C18H36O2	ethyl palmitate	628-97-7	665.10	59.952	2
30992	C18H32O2	2-cyclopentene-1-tridecanoic acid, (S)	29106-32-9	628.00	56.309	2	31104	C18H36O2	methyl heptadecanoate	1731-92-6	665.10	59.952	2
30993	C18H32O2	trans,trans-10,12-octadecadienoic acid	1072-36-2	628.00	56.309	2	31105	C18H36O2	n-butyl myristate	110-36-1	665.10	59.952	2
30994	C18H32O2	9-octadecynoic acid	506-24-1	628.00	56.309	2	31113	C18H36S	thiacyclononadecane	296-47-9	624.15	55.931	1,2
30995	C18H32O2	gossyplure	53042-79-8	628.00	56.309	2	31115	C18H37Br	1-bromooctadecane	112-89-0	635.15	57.009	1,2
30997	C18H32O4Sn	dibutyltin bis(acetylacetonate)	22673-19-4	423.15	36.552	1,2	31116	C18H37Cl	1-chlorooctadecane	3386-33-2	625.15	56.029	1,2
30999	C18H32O6	glycerol tri-3-methylbutanoate	620-63-3	605.65	54.122	1,2	31118	C18H37F	1-fluorooctadecane	1649-73-6	589.15	52.512	1,2
31007	C18H33ClN2O5S	clindamycin	18323-44-9	407.15	35.039	1,2	31119	C18H37I	1-iodooctadecane	629-93-6	656.15	59.072	1,2
31009	C18H33N	cis-9-octadecenenitrile	112-91-4	605.15	54.073	2	31120	C18H37N	oleylamine	112-90-3	612.15	54.757	1,2
31012	C18H33P	tricyclohexylphosphine	2622-14-2	383.15	32.780	1,2	31124	C18H37NO2	1-nitrooctadecane	66292-30-6	646.15	58.089	1,2
31013	C18H34	9-octadecyne	35365-59-4	593.12	52.899	2	31125	C18H37NO2	ammonium oleate	544-60-5	646.15	58.089	2
31014	C18H34	1-octadecyne	629-89-0	586.16	56.095	1,2	31126	C18H37NO2	D-erythro-spinghosine, synthetical	123-78-4	646.15	58.089	2
31015	C18H34	2-octadecyne	61847-97-0	598.15	53.390	1,2	31131	C18H38	octadecane	593-45-3	589.86	52.737	1,2
31016	C18H34	3-octadecyne	61886-64-4	587.15	52.317	1,2	31132	C18H38	9-methylheptadecane	18869-72-2	582.27	51.842	2
31017	C18H34	1,1-dicyclohexylhexane	55030-20-1	593.15	52.902	1,2	31133	C18H38	2-methylheptadecane	1560-89-0	585.15	52.123	1,2
31018	C18H34	1-tridecylcyclopentene	62184-78-5	584.15	52.025	1,2	31134	C18H38	3-methylheptadecane	6418-44-6	586.15	52.220	1,2
31019	C18H34	1,1'-(1,6-hexanediyl)bis(cyclohexane)	1610-23-7	613.75	54.914	1,2	31135	C18H38	2,2-dimethylhexadecane	19486-08-9	578.15	51.441	1,2
31020	C18H34	1,1'-(1,1,3-trimethyl-1,3-propanediyl)biscyc*	38970-72-8	593.12	52.899	2	31136	C18H38	2,3-dimethylhexadecane	61868-02-8	586.15	52.220	1,2
31021	C18H34	1,1'-(2-propyl-1,3-propanediyl)biscyclohexane	55030-21-2	589.30	52.527	1,2	31137	C18H38	2,4-dimethylhexadecane	61868-08-4	568.15	50.469	1,2
31022	C18H34ClN2O8PS	clindamycin-2-phosphate	24729-96-2	432.15	37.405	1,2	31140	C18H38O	1-octadecanol	112-92-5	608.15	62.170	1,2
31026	C18H34N2O6S	lincomycin	154-21-2	412.15	35.512	1,2	31141	C18H38O	2-octadecanol	593-32-8	614.15	54.953	1,2
31030	C18H34O2	oleic acid	112-80-1	633.00	69.908	1,2	31142	C18H38O	3-octadecanol, (±)	111897-18-8	604.43	54.003	2
31031	C18H34O2	elaidic acid	112-79-8	630.00	56.505	2	31143	C18H38O	dinonyl ether	2456-27-1	591.00	52.693	1,2
31032	C18H34O2	trans-2-octadecenoic acid	2825-79-8	630.00	56.505	2	31144	C18H38O2	1,2-octadecanediol	20294-76-2	665.15	59.957	2
31033	C18H34O2	trans-11-octadecenoic acid	693-72-1	630.00	56.505	2	31145	C18H38O2	1,3-octadecanediol	---	676.15	61.041	2
31034	C18H34O2	petroselinic acid	593-39-5	630.00	56.505	2	31146	C18H38O2	1,4-octadecanediol	---	697.15	63.114	2
31035	C18H34O2	g-stearolactone	502-26-1	633.00	56.799	2	31147	C18H38O2	1,18-octadecanediol	3155-43-9	684.15	61.830	2
31036	C18H34O3	12-hydroxy-cis-9-octadecenoic acid, (R)	141-22-0	499.95	43.879	2	31148	C18H38O2	1,1-dimethoxyhexadecane	2791-29-9	680.65	61.485	2
31037	C18H34O3	castor oil	8001-79-4	586.15	52.220	1,2	31149	C18H38S	1-octadecanethiol	2885-00-9	633.16	63.371	1,2
31038	C18H34O3	nonan-1-oic anhydride	1680-36-0	543.15	48.045	1,2	31150	C18H38S	2-octadecanethiol	62155-06-0	627.15	56.225	1,2
31039	C18H34O3	4-ketostearic acid	16694-30-7	442.35	38.374	1,2	31151	C18H38S	2-thianonadecane	62155-11-7	646.15	58.089	1,2
31040	C18H34O3	cis-9,10-epoxyoctadecanoic acid	24560-98-3	428.15	37.026	1,2	31152	C18H38S	dinonyl sulfide	929-98-6	625.00	66.815	2
31041	C18H34O4	dibutyl sebacate	109-43-3	622.15	66.448	1,2	31153	C18H38S	methyl heptadecyl sulfide	---	625.00	66.815	2
31042	C18H34O4	dihexyl adipate	110-33-8	621.15	65.089	1,2	31154	C18H38S	ethyl hexadecyl sulfide	66292-31-7	625.00	66.815	2
31043	C18H34O4	bis(2-ethylbutyl) adipate	10022-60-3	621.65	55.687	2	31155	C18H38S	propyl pentadecyl sulfide	66292-32-8	625.00	66.815	2
31044	C18H34O4	diethyl tetradecanedioate	19812-63-6	621.65	55.687	2	31156	C18H38S	butyl tetradecyl sulfide	66292-33-9	625.00	66.815	2
31045	C18H34O4	nonanoyl peroxide	762-13-0	621.65	55.687	2	31157	C18H38S2	dinonyl disulfide	4485-77-2	642.16	65.475	1,2
31046	C18H34O6	9,10-dihydroxyoctadecanedioic acid, (R*,R*)-*	23843-52-9	459.15	39.973	2	31162	C18H39N	octadecylamine	124-30-1	630.15	56.519	1,2
31047	C18H34O6	bis(2-ethoxyethyl) sebacate	624-10-2	459.15	39.973	2	31163	C18H39N	methylheptadecylamine	66292-34-0	607.15	54.269	1,2
31048	C18H34O6	triethylene glycol bis(2-ethylbutyrate)	95-08-9	459.15	39.973	2	31164	C18H39N	ethylhexadecylamine	5877-76-9	608.15	54.366	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
31165	C18H39N	dinonylamine	2044-21-5	607.15	54.269	1,2	31357	C19H16O2	11-ethoxy-15,16-dihydro-17-cyclopenta(a)phen*	83053-57-0	498.65	43.754	1,2
31166	C18H39N	dimethylhexadecylamine	112-69-6	603.15	53.878	1,2	31358	C19H16O2	6-methoxy-11-methyl-15,16-dihydro-17H-cyclop*	24684-49-9	500.40	43.923	2
31167	C18H39N	diethyltetradecylamine	7307-58-6	577.15	51.344	1,2	31359	C19H16O3	triphenoxymethane	16737-44-3	610.15	54.562	2
31168	C18H39N	trihexylamine	102-86-3	537.15	47.465	1,2	31360	C19H16O3	(1a,2b,2aa,3aa)-(±)-1,2,2a,3a-tetrahydro-4-m*	96790-39-5	610.15	54.562	2
31171	C18H39OP	tri-n-hexylphosphine oxide	3084-48-8	436.15	37.785	1,2	31361	C19H16O3	(1a,2b,2ab,3ab)-1,2,2a,3a-tetrahydro-4-methy*	97170-07-5	610.15	54.562	2
31172	C18H39O6P	1,1',1"-(phosphinidynetris((1-methylethylen*	25727-08-6	460.65	40.117	1,2	31362	C19H16O3	(1a,2b,2ab,3ab)-(±)-1,2,2a,3a-tetrahydro-4-m*	96790-40-8	610.15	54.562	2
31175	C18H40Si	octadecylsilane	18623-11-5	433.90	37.571	2	31363	C19H16O3	(1a,2b,2ab,3ab)-1,2,2a,3a-tetrahydro-10-meth*	97170-08-6	610.15	54.562	1,2
31176	C18H40Si	trihexylsilane	2929-52-4	433.90	37.571	1,2	31364	C19H16O3	endrocide	5836-29-3	610.15	54.562	2
31187	C19H10FNS	2-fluoro-benzo(e)(1)benzothiopyrano(4,3-b)in*	52831-45-5	454.15	39.497	2	31365	C19H16O3	anti-5-methylchrysene-1,2-diol-3,4-epoxide	81851-68-5	610.15	54.562	2
31188	C19H10FNS	3-fluoro-benzo(e)(1)benzothiopyrano(4,3-b)in*	52831-56-8	454.15	39.497	2	31432	C19H19NO8	N-fluoren-2-yl-hydroxylamine-o-glucuronide	34461-49-9	519.65	45.775	1,2
31189	C19H10FNS	3-fluoro-benzo(g)(1)benzothiopyrano(4,3-b)in*	52831-53-5	454.15	39.497	2	31443	C19H20N2	mebhydroline	524-81-2	536.15	47.368	2
31190	C19H10FNS	4-fluoro-benzo(e)(1)benzothiopyrano(4,3-b)in*	52831-68-2	454.15	39.497	2	31444	C19H20N2	N,N-dimethyl-N'-ethyl-N'-phenylethylenediami*	27692-91-7	536.15	47.368	2
31191	C19H10FNS	4-fluoro-benzo(g)(1)benzothiopyrano(4,3-b)in*	52831-65-9	454.15	39.497	1,2	31445	C19H20N2	mebhydrolin napadisylate	6153-33-9	536.15	47.368	1,2
31193	C19H11ClO2	dibenzofuran-2-yl (4-chlorophenyl) ketone	50468-61-6	438.65	38.022	1,2	31450	C19H20N6OS	10,11-dihydro-2-(4-methyl-1-piperazinyl)-11-*	70301-54-1	428.15	37.026	2
31194	C19H11Cl2N7O10S2	4-(4,6-dichloro-S-triazin-2-ylamino)-5-hydro*	73826-58-1	431.15	37.310	1,2	31452	C19H20O4	benzyl butyl phthalate	85-68-7	643.15	57.794	1,2
31196	C19H11N	benz(e)indeno(1,2-b)indole	208-07-1	380.15	32.499	2	31453	C19H20O4	bisphenol A diacetate	10192-62-8	643.15	57.794	2
31197	C19H11N	10-cyano-1,2-benzanthracene	7476-08-6	380.15	32.499	2	31460	C19H21N	N-3-(5H-dibenzo(a,d)cyclohepten-5-yl)propyl-*	438-60-8	461.75	40.221	1,2
31198	C19H11N	fluoreno(9,1-gh)quinoline	206-00-8	380.15	32.499	1,2	31461	C19H21N	nortriptyline	72-69-5	461.75	40.221	2
31201	C19H11NO2	5,13-dihydro-5-oxobenzo(e)(2)benzopyrano(4,3*	7374-66-5	473.15	41.310	1,2	31477	C19H22	1,1-diphenyl-1-heptene	1530-20-7	613.15	54.855	1,2
31202	C19H11NO3S	2-dibenzothienyl p-nitrophenyl ketone	91100-28-6	454.15	39.497	1,2	31481	C19H22FN3O	4'-fluoro-4-(4-(2-pyridyl)-1-piperazinyl)but*	1649-18-9	509.15	44.764	1,2
31210	C19H12BrF	7-bromomethyl-6-fluorobenz(a)anthracene	34346-97-9	606.15	54.171	1,2	31497	C19H22N2O3	1-(4-cyclopropylcarbonylphenoxy)-3-(1,2-dihy*	67239-28-5	488.15	42.747	1,2
31212	C19H12Cl2N6O7S2	5-(3,5-dichloro-S-triazinylamino)-4-hydroxy-*	6522-86-7	599.85	53.556	1,2	31507	C19H23ClN2O2	5-chloro-2-(2-(diethylamino)ethoxy)benzanili*	7432-27-1	516.40	45.462	2
31231	C19H12O8S	pyrogallol red	32638-88-3	422.15	36.457	1,2	31508	C19H23ClN2O2	2-(2-(diethylamino)ethoxy)-2'-chloro-benzani*	17822-72-9	516.40	45.462	2
31233	C19H13Cl	5-chloro-10-methyl-1,2-benzanthracene	63018-67-7	549.15	48.626	1,2	31509	C19H23ClN2O2	2-(2-(diethylamino)ethoxy)-3'-chloro-benzani*	17822-73-0	526.15	46.402	1,2
31234	C19H13Cl	7-chloromethyl benz(a)anthracene	6325-54-8	539.15	47.658	1,2	31510	C19H23ClN2O2	2-(2-(diethylamino)ethoxy)-4'-chloro-benzani*	17822-71-8	506.65	44.523	1,2
31235	C19H13Cl	7-chloro-10-methyl-1,2-benzanthracene	6366-24-1	544.15	48.142	2	31512	C19H23ClN2S	chlorproethazine	84-01-5	484.15	42.363	1,2
31236	C19H13F	2-fluoro-7-methylbenz(a)anthracene	1994-57-6	389.30	33.358	2	31513	C19H23FN2O3	8-(4-p-fluoro phenyl-4-oxobutyl)-2-methyl-2,*	2804-00-4	478.35	41.808	1,2
31237	C19H13F	3-fluoro-7-methylbenz(a)anthracene	2606-87-3	389.30	33.358	2	31521	C19H23NS	hydrothiadene	1886-45-9	443.15	38.450	2
31238	C19H13F	6-fluoro-7-methylbenz(a)anthracene	2541-68-6	389.30	33.358	2	31522	C19H23N2O	7,8,9,10-tetrahydro-N,N-diethyl-6H-cycloheptº	7101-64-6	490.75	42.996	1,2
31239	C19H13F	9-fluoro-7-methylbenz(a)anthracene	1881-75-0	389.30	33.358	2	31535	C19H24	1,1-diphenylheptane	1530-05-8	607.15	54.269	1,2
31240	C19H13F	7-fluoro-10-methyl-1,2-benzanthracene	1881-76-1	389.30	33.358	2	31536	C19H24	dicumylmethane	25566-92-1	607.15	54.269	2
31241	C19H13F	1-fluoro-5-methylchrysene	64977-44-2	389.30	33.358	2	31540	C19H24N2O	cinchonamine	482-28-0	496.40	43.538	2
31242	C19H13F	6-fluoro-5-methylchrysene	64977-46-4	389.30	33.358	2	31543	C19H24N2O	4-(dimethylamino)-2,2-diphenylvaleramide	60-46-8	519.15	45.727	1,2
31243	C19H13F	7-fluoro-5-methylchrysene	64977-47-5	389.30	33.358	1,2	31544	C19H24N2O	5-(3-(dimethylamino)propyl)-2-hydroxy-10,11-*	303-70-8	473.65	41.358	1,2
31244	C19H13F	9-fluoro-5-methylchrysene	64977-48-6	389.30	33.358	2	31545	C19H24N2O	impiramine-N-oxide	2207-85-4	496.40	43.538	2
31245	C19H13F	11-fluoro-5-methylchrysene	64977-49-7	389.30	33.358	2	31555	C19H24O2	linalyl cinnamate	78-37-5	475.15	41.502	1,2
31246	C19H13F	12-fluoro-5-methylchrysene	61413-38-5	389.30	33.358	2	31556	C19H24O3	androst-4-ene-3,11,17-trione	382-45-6	586.65	52.269	2
31247	C19H13N	9-phenylacridine	602-56-2	677.15	61.140	1,2	31557	C19H24O3	prallethrin	23031-36-9	586.65	52.269	1,2
31257	C19H14	1-methylchrysene	3351-28-8	730.15	60.000	2	31558	C19H24O3	proparthrin	27223-49-0	586.65	52.269	2
31258	C19H14	5-methylchrysene	3697-24-3	730.15	60.000	2	31568	C19H26	1-nonylnaphthalene	26438-26-6	639.00	58.366	1,2
31259	C19H14	6-methyl-3:4-benzphenanthrene	2606-85-1	574.98	51.133	2	31569	C19H26	2-nonylnaphthalene	61886-67-7	642.15	57.696	1,2
31267	C19H14	5-methylbenzo(c)phenanthrene	652-04-0	574.98	51.133	2	31574	C19H26N2S2	N,N-dicyclohexyl-2-benzothiazolesulfenamide	4979-32-2	503.15	44.187	1,2
31268	C19H14	6-methylbenzo(c)phenanthrene	2381-34-2	557.15	49.401	1,2	31575	C19H26OS	17b-(methylthio)estra-1,3,5(10)-trien-3-ol	---	419.15	36.173	1,2
31269	C19H14	7-methyl-3,4-benzphenanthrene	2381-19-3	574.98	51.133	2	31579	C19H26O3	allethrin	584-79-2	476.65	41.645	2
31270	C19H14	8-methyl-3:4-benzphenanthrene	4076-40-8	574.98	51.133	2	31580	C19H26O3	(+)-cis-allethrin	34624-48-1	476.65	41.645	2
31271	C19H14	2-methylchrysene	3351-32-4	730.15	60.000	2	31581	C19H26O3	trans-(+)-allethrin	28434-00-6	503.15	44.187	1,2
31272	C19H14	3-methylchrysene	3351-31-3	730.15	60.000	2	31582	C19H26O3	bioallethrin	22431-63-6	476.65	41.645	2
31273	C19H14	4-methylchrysene	3351-30-2	730.15	60.000	2	31583	C19H26O3	E 785	55620-97-8	511.15	44.956	1,2
31274	C19H14	6-methylchrysene	1705-85-7	730.15	60.000	2	31584	C19H26O3	18-homo-oestriol	19882-03-2	476.65	41.645	2
31281	C19H14O	4-benzoylbiphenyl	2128-93-0	692.65	62.670	1,2	31585	C19H26O3	4-hydroxy-4-androstene-3,17-dione	566-48-3	415.65	35.842	1,2
31282	C19H14O	9-phenyl-9-fluorenol	25603-67-2	692.65	62.670	2	31586	C19H26O3	4-(methyloxymethyl)benzyl chrysanthemum mono*	34388-29-9	476.65	41.645	2
31283	C19H14O	benz(a)anthracene-7-methanol	16110-13-7	692.65	62.670	2	31600	C19H28NO6	2,12-dihydroxy-4-methyl-11,16-dioxoseneciona*	2318-18-5	527.15	46.499	1,2
31284	C19H14O	3-methoxy-1,2-benzanthracene	56183-20-1	692.65	62.670	2	31605	C19H28O2	17-hydroxyandrost-4-en-3-one, (17beta)	58-22-0	513.15	45.149	2
31285	C19H14O	5-methoxy-1,2-benzanthracene	63019-69-2	692.65	62.670	2	31606	C19H28O2	(+)-dehydroisoandrosterone	53-43-0	513.15	45.149	2
31286	C19H14O	10-methoxy-1,2-benzanthracene	6366-20-7	692.65	62.670	2	31607	C19H28O2	metalutin	514-61-4	513.15	45.149	2
31287	C19H14O	5-methoxychrysene	61413-39-6	692.65	62.670	2	31608	C19H28O2	17a-methyl-B-nortestosterone	3570-10-3	513.15	45.149	1,2
31288	C19H14O	7-methylbenz(a)anthracene-5,6-oxide	1155-38-0	692.65	62.670	2	31609	C19H28O4	3,9,di-(3-cyclohexenyl)-2,4,8,10-tetraoxaspi*	6600-31-3	515.65	45.390	1,2
31297	C19H15Cl	chlorotriphenylmethane	76-83-5	583.15	51.928	1,2	31610	C19H28O5S	3-o-sulfodehydroepiandrosterone	651-48-9	495.15	43.418	1,2
31320	C19H15NO3S	N-hydroxy-2-fluorenylbenzenesulfonamide	26630-60-4	415.15	35.795	1,2	31621	C19H30	1-nonyl-[1,2,3,4-tetrahydronaphthalene]	33425-49-9	621.15	55.638	1,2
31326	C19H16	2-benzyl-1,1'-biphenyl	606-97-3	573.65	51.004	2	31622	C19H30	2-nonyl-[1,2,3,4-tetrahydronaphthalene]	26437-45-6	624.15	55.931	1,2
31327	C19H16	4-benzyl-1,1'-biphenyl	613-42-3	573.65	51.004	2	31626	C19H30N2O3	feldene	4551-59-1	458.15	39.878	1,2
31328	C19H16	triphenylmethane	519-73-3	632.15	56.715	1,2	31629	C19H30O2	benzyl dodecanoate	140-25-0	438.15	37.975	2
31329	C19H16	1,2-cyclopenteno-5,10-aceanthrene	7129-91-1	573.65	51.004	2	31633	C19H30O2	4-dodecyloxybenzaldehyde	24083-19-0	438.15	37.975	1,2
31330	C19H16	11,17-dimethyl-15H-cyclopenta(a)phenanthrene	5831-10-7	573.65	51.004	2	31634	C19H30O2	17b-hydroxy-5b-androstan-3-one	571-22-2	438.15	37.975	2
31331	C19H16	12,17-dimethyl-15H-cyclopenta(a)phenanthrene	5831-09-4	515.15	45.342	1,2	31641	C19H31Cl	dodecylbenzyl chloride	28061-21-4	580.00	51.621	2
31339	C19H16N2O3	N-acetyl-N-(4,5-diphenyl-2-oxazolyl)acetamide	35629-40-4	522.15	46.016	2	31644	C19H31N	fenpropidin	67306-00-7	523.15	46.113	1,2
31340	C19H16N2O3	5-allyl-1,3-diphenylbarbituric acid	743-45-3	522.15	46.016	2	31646	C19H32	tridecylbenzene	123-02-4	614.43	57.415	1,2
31344	C19H16O	triphenylmethanol	76-84-6	653.15	58.777	1,2	31647	C19H32	(1-hexylheptyl)benzene	2400-01-3	614.43	54.980	2
31345	C19H16O	15,16-dihydro-7,11-dimethyl-17H-cyclopenta(a*	85616-56-4	653.15	58.777	2	31648	C19H32	androstane	24887-75-0	614.43	54.980	2
31346	C19H16O	15,16-dihydro-11,12-dimethylcyclopenta(a)phe*	894-52-0	653.15	58.777	2	31657	C19H34	tricyclohexylmethane	1610-24-8	598.65	53.439	1,2
31347	C19H16O	15,16-dihydro-11-ethylcyclopenta(a)phenanthr*	42028-27-3	653.15	58.777	2	31669	C19H34O4Si	methyl (R)-(+)-3-(tert-butyldimethylsilyloxy*	41138-69-6	483.15	42.268	1,2
31348	C19H16O	3-methoxy-17-methyl-15H-cyclopentaphenanthre*	5831-08-3	653.15	58.777	2	31670	C19H36	1-nonadecyne	26186-01-6	600.16	57.463	1,2
31349	C19H16O	11-methoxy-17-methyl-15H-cyclopenta(a)phenan*	5831-12-9	653.15	58.777	2	31671	C19H36	2-nonadecyne	61847-98-1	612.15	54.757	1,2
31350	C19H16O	11-methyl-1-oxo-1,2,3,4-tetrahydrochrysene	27343-29-9	653.15	58.777	2	31672	C19H36	3-nonadecyne	61886-65-5	600.15	53.585	1,2
31351	C19H16O2	trans-(±)-1,2-dihydro-5-methyl-1,2-chrysened*	96741-20-7	500.40	43.923	2	31673	C19H36	1,1-dicyclohexylheptane	2090-15-5	605.15	54.073	1,2
31352	C19H16O2	trans-(±)-1,2-dihydro-11-methyl-1,2-chrysene*	96741-21-8	500.40	43.923	2	31674	C19H36	1-tetradecylcyclopentene	62184-79-6	596.15	53.195	1,2
31353	C19H16O2	1,2-dihydro-1,2-dihydroxy-5-methylchrysene	67411-81-8	500.40	43.923	2	31675	C19H36O2	methyl oleate	112-62-9	617.00	63.625	1,2
31354	C19H16O2	7,8-dihydro-7,8-dihydroxy-5-methylchrysene	67523-22-2	500.40	43.923	2	31676	C19H36O2	methyl trans-9-octadecenoate	1937-62-8	617.00	55.232	2
31355	C19H16O2	15,16-dihydro-11-methoxy-7-methylcyclopenta(*	30835-61-1	500.40	43.923	2	31678	C19H37Br	cis-1-bromo-1-nonadecene	66359-51-1	636.15	57.107	1,2
31356	C19H16O2	15,16-dihydro-11-methyl-15-methoxycyclopenta*	83053-62-7	502.15	44.091	1,2	31679	C19H37Br	trans-1-bromo-1-nonadecene	66359-52-2	636.15	57.107	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
31680	C19H37Br3	1,1,1-tribromononadecane	62127-75-7	697.15	63.114	1,2	31810	C20H12	naphth(2,1-d)acenaphthylene	202-33-5	668.65	60.302	2
31681	C19H37Cl	cis-1-chloro-1-nonadecene	66359-53-3	644.15	57.893	1,2	31820	C20H12O	benz(j)aceanthrylen-10-ol	93673-39-3	493.65	43.274	2
31682	C19H37Cl	trans-1-chloro-1-nonadecene	66359-54-4	644.15	57.893	1,2	31821	C20H12O	benzo(a)pyrene-4,5-oxide	37574-47-3	493.65	43.274	2
31683	C19H37Cl3	1,1,1-trichlorononadecane	62108-63-8	668.15	60.253	1,2	31822	C20H12O	benzo(a)pyrene-7,8-oxide	36504-65-1	493.65	43.274	2
31684	C19H37F	cis-1-fluoro-1-nonadecene	66359-55-5	637.55	57.245	2	31823	C20H12O	benzo(a)pyrene-9,10-oxide	36504-66-2	493.65	43.274	2
31685	C19H37F	trans-1-fluoro-1-nonadecene	66359-56-6	637.55	57.245	2	31824	C20H12O	benzo(a)pyrene-11,12-oxide	60448-19-3	493.65	43.274	2
31686	C19H37F3	1,1,1-trifluorononadecane	62126-85-6	585.15	52.123	1,2	31825	C20H12O	benzo(a)pyren-1-ol	13345-23-8	493.65	43.274	2
31687	C19H37I	cis-1-iodo-1-nonadecene	66359-57-7	657.15	59.170	1,2	31827	C20H12O	benzo(a)pyren-3-ol	13345-21-6	475.45	41.530	1,2
31688	C19H37I	trans-1-iodo-1-nonadecene	66359-58-8	657.15	59.170	1,2	31828	C20H12O	benzo(a)pyren-5-ol	24027-84-7	493.65	43.274	2
31689	C19H37I3	1,1,1-triiodononadecane	---	910.31	84.431	2	31829	C20H12O	benzo(a)pyren-6-ol	33953-73-0	467.35	40.756	1,2
31690	C19H37N	nonadecanenitrile	28623-46-3	647.15	58.187	1,2	31830	C20H12O	benzo(a)pyren-7-ol	37994-82-4	493.65	43.274	2
31695	C19H38	tetradecylcyclopentane	1795-22-8	612.16	55.982	1,2	31831	C20H12O	benzo(a)pyren-9-ol	17573-21-6	493.65	43.274	2
31696	C19H38	tridecylcyclohexane	6006-33-3	614.66	55.103	1,2	31832	C20H12O	benzo(a)pyren-10-ol	56892-31-0	493.65	43.274	2
31697	C19H38	cyclononadecane	296-44-6	610.15	54.562	1,2	31833	C20H12O	benzo(a)pyren-11-ol	56892-32-1	493.65	43.274	2
31698	C19H38	1-nonadecene	18435-45-5	602.17	57.535	1,2	31834	C20H12O	benzo(a)pyren-12-ol	56892-33-2	511.15	44.956	1,2
31699	C19H38	2-methyl-1-octadecene	61868-20-0	602.15	53.780	1,2	31835	C20H12O	9,10-epoxy-9,10-dihydrobenz(j)aceanthrylene	130933-92-5	520.65	45.872	1,2
31700	C19H38Br2	1,1-dibromononadecane	62168-36-9	675.15	60.943	1,2	31846	C20H13ClO	(3-chlorophenyl)-9H-fluoren-2-ylmethanone	62093-52-1	472.75	41.272	1,2
31701	C19H38Cl2	1,1-dichlorononadecane	62017-21-4	655.15	58.973	1,2	31847	C20H13N	13H-dibenzo[a,i]carbazole	239-64-5	498.48	43.738	2
31702	C19H38F2	1,1-difluorononadecane	62127-08-6	591.15	52.707	1,2	31848	C20H13N	benz(a)anthracen-7-acetonitrile	63018-69-9	498.48	43.738	2
31703	C19H38I2	1,1-diiodononadecane	66359-60-2	819.96	75.339	2	31849	C20H13N	benzo(a)pyrene-4,5-imine	71382-50-8	498.48	43.738	2
31704	C19H38O	nonadecanal	17352-32-8	623.15	55.834	1,2	31850	C20H13N	7H-dibenzo(a,g)carbazole	207-84-1	488.15	42.747	2
31705	C19H38O	2-nonadecanone	629-66-3	616.15	55.148	1,2	31851	C20H13N	7H-dibenzo(c,g)carbazole	194-59-2	468.65	40.880	1,2
31706	C19H38O	10-nonadecanone	504-57-4	619.65	55.491	2	31852	C20H13N	7-methylbenz(a)anthracene-10-carbonitrile	6366-23-0	538.65	47.610	1,2
31707	C19H38O	cis-7,8-epoxy-2-methyloctadecane	29804-22-6	619.65	55.491	2	31854	C20H13NO4	1-amino-4-hydroxy-2-phenoxyanthraquinone	17418-58-5	546.15	48.336	1,2
31708	C19H38O2	nonadecanoic acid	646-30-0	659.15	65.888	1,2	31859	C20H14	1,1'-binaphthalene	604-53-5	654.32	58.891	2
31709	C19H38O2	14-methyloctadecanoic acid	94434-64-7	690.66	62.473	2	31860	C20H14	2,2'-binaphthalene	612-78-2	725.15	65.887	1,2
31710	C19H38O2	17-methyloctadecanoic acid	2724-59-6	690.66	62.473	2	31861	C20H14	1,2-dihydrobenz[j]aceanthrylene	479-23-2	654.32	58.891	2
31711	C19H38O2	9-methyloctadecanoic acid	86073-38-3	690.66	62.473	2	31862	C20H14	9,10-dihydro-9,10[1',2']-benzenoanthracene	477-75-8	654.32	58.891	2
31712	C19H38O2	octadecyl formate	5451-75-2	691.64	62.570	2	31863	C20H14	9-phenylanthracene	602-55-1	690.15	62.423	1,2
31713	C19H38O2	heptadecyl acetate	822-20-8	615.00	81.196	2	31864	C20H14	4,10-ace-1,2-benzanthracene	3697-25-4	654.32	58.891	2
31714	C19H38O2	hexadecyl propanoate	6221-96-1	692.34	62.639	2	31865	C20H14	acenaphthanthracene	5779-79-3	654.32	58.891	2
31715	C19H38O2	pentadecyl butanoate	125164-51-4	692.34	62.639	2	31866	C20H14	benz(1)aceanthrene	7093-10-9	547.65	48.481	1,2
31716	C19H38O2	ethyl heptadecanoate	14010-23-2	690.66	62.473	2	31867	C20H14	7,8-dihydrobenzo(a)pyrene	17573-23-8	654.32	58.891	2
31717	C19H38O2	isopropyl palmitate	142-91-6	690.66	62.473	2	31868	C20H14	9,10-dihydrobenzo(e)pyrene	66788-01-0	654.32	58.891	2
31718	C19H38O2	propyl palmitate	2239-78-3	690.66	62.473	2	31869	C20H14	10-methyl-1',9-methylene-1,2-benzanthracene	63041-88-3	654.32	58.891	2
31719	C19H38O2	methyl stearate	112-61-8	716.15	64.994	1,2	31870	C20H14	7-vinylbenz(a)anthracene	61695-70-3	654.32	58.891	2
31726	C19H38S	thiacycloeicosane	66359-61-3	634.15	56.911	1,2	31885	C20H14O	bis(1-naphthyl) ether	607-52-3	539.73	47.714	2
31727	C19H39Br	1-bromononadecane	4434-66-6	647.15	58.187	1,2	31886	C20H14O	di-2-naphthyl ether	613-80-9	539.73	47.714	2
31728	C19H39Cl	1-chlorononadecane	62016-76-6	636.15	57.107	1,2	31887	C20H14O	1-(2-naphthyloxy)naphthalene	611-49-4	539.73	47.714	2
31729	C19H39F	1-fluorononadecane	1480-63-3	602.15	53.780	1,2	31888	C20H14O	9,10-dihydrobenzo[a]pyren-7(8H)-one	3331-46-2	539.73	47.714	2
31730	C19H39I	1-iodononadecane	62127-51-9	668.15	60.253	1,2	31889	C20H14O	1,3-diphenylisobenzofuran	5471-63-6	539.73	47.714	2
31732	C19H39NO2	1-nitrononadecane	66359-36-2	656.15	59.072	1,2	31890	C20H14O	2-acetyl-3:4-benzphenanthrene	63018-98-4	539.73	47.714	2
31733	C19H40	7-hexyltridecane	7225-66-3	592.14	52.803	2	31891	C20H14O	7,8-epoxy-7,8,9,10-tetrahydrobenzo(a)pyrene	36504-67-3	548.15	48.529	1,2
31734	C19H40	2,6,10,14-tetramethylpentadecane	1921-70-6	569.15	50.566	1,2	31892	C20H14O	9,10-epoxy-7,8,9,10-tetrahydrobenzo(a)pyrene	36504-68-4	539.73	47.714	2
31735	C19H40	nonadecane	629-92-5	603.05	56.073	1,2	31893	C20H14O	9,10-epoxy-9,10,11,12-tetrahydrobenzo(e)pyre*	66788-11-2	539.73	47.714	2
31736	C19H40	2-methyloctadecane	1560-88-9	599.15	53.487	1,2	31894	C20H14O	1-fluorenyl phenyl ketone	15860-31-8	539.73	47.714	2
31737	C19H40	3-methyloctadecane	6561-44-0	600.15	53.585	1,2	31895	C20H14O	7-formyl-12-methylbenz(a)anthracene	13345-61-4	496.45	43.543	1,2
31738	C19H40	2,2-dimethylheptadecane	53594-82-4	592.15	52.805	1,2	31896	C20H14O	7-methylbenz(a)anthracene-12-carboxaldehyde	17513-40-5	558.15	49.498	2
31739	C19H40	2,3-dimethylheptadecane	61868-03-9	600.15	53.585	1,2	31897	C20H14O	7-oxiranylbenz(a)anthracene	61695-72-5	556.15	49.304	1,2
31740	C19H40	2,4-dimethylheptadecane	61868-09-5	581.15	51.733	1,2	31899	C20H14O2	3,3-diphenyl-1(3H)-isobenzofuranone	596-29-2	528.98	46.676	2
31742	C19H40O	1-nonadecanol	1454-84-8	631.00	70.534	1,2	31900	C20H14O2	1,2-dibenzoylbenzene	1159-86-0	528.98	46.676	2
31743	C19H40O	2-nonadecanol	26533-36-8	627.15	56.225	1,2	31901	C20H14O2	(R)-(+)-1,1'-bi-2-naphthol	18531-94-7	528.98	46.676	2
31744	C19H40O2	1,2-nonadecanediol	39516-65-9	679.15	61.337	2	31902	C20H14O2	(S)-(-)-1,1'-bi-2-naphthol	18531-99-2	528.98	46.676	2
31745	C19H40O2	1,3-nonadecanediol	66359-38-4	690.15	62.423	2	31903	C20H14O2	1,1'-bi-2-naphthol	602-09-5	528.98	46.676	2
31746	C19H40O2	1,4-nonadecanediol	---	711.15	64.499	2	31904	C20H14O2	chiral binaphthol	41024-90-2	528.98	46.676	2
31747	C19H40O2	1,19-nonanecanediol	---	698.15	63.213	2	31905	C20H14O2	4,5-dihydrobenzo(j)fluoranthene-4,5-diol	151258-40-1	558.15	49.498	1,2
31750	C19H40S	1-nonadecanethiol	62155-07-1	645.16	64.153	1,2	31906	C20H14O2	4,5-dihydro-4,5-dihydroxybenzo(a)pyrene	28622-84-6	528.98	46.676	2
31751	C19H40S	2-nonadecanethiol	---	639.15	57.402	1,2	31907	C20H14O2	trans-4,5-dihydro-4,5-dihydroxybenzo(a)pyrene	37571-88-3	528.98	46.676	2
31752	C19H40S	methyl octadecyl sulfide	40289-98-3	635.00	68.067	2	31908	C20H14O2	9,10-dihydro-9,10-dihydroxybenzo(a)pyrene	24909-09-9	528.98	46.676	2
31753	C19H40S	ethyl heptadecyl sulfide	66359-40-8	635.00	68.067	2	31909	C20H14O2	(±)-trans-9,10-dihydro-9,10-dihydroxybenzo(a*	58030-91-4	542.15	47.948	1,2
31754	C19H40S	propyl hexadecyl sulfide	66359-41-9	635.00	68.067	2	31910	C20H14O2	trans-7,8-dihydro-7,8-dihydroxybenzo(a)pyrene	57404-88-3	528.98	46.676	2
31755	C19H40S	butyl pentadecyl sulfide	66359-42-0	635.00	68.067	2	31911	C20H14O2	trans-4,5-dihydroxy-4,5-dihydrobenzo(e)pyrene	24961-49-7	528.98	46.676	2
31756	C19H41N	nonadecylamine	14130-05-3	643.15	57.794	1,2	31912	C20H14O2	trans-9,10-dihydroxy-9,10-dihydrobenzo(e)pyr*	66788-06-5	528.98	46.676	2
31757	C19H41N	methyloctadecylamine	2439-55-6	620.15	55.540	1,2	31913	C20H14O2	(+,-)-trans-7,8-dihydroxy-7,8-dihydrobenzo(a*	61443-57-0	528.98	46.676	2
31758	C19H41N	ethylheptadecylamine	66359-43-1	621.15	55.638	1,2	31914	C20H14O2	(-)-trans-7,8-dihydroxy-7,8-dihydrobenzo(a)p*	60864-95-1	528.98	46.676	2
31759	C19H41N	dimethylheptadecylamine	3002-57-1	617.15	55.246	1,2	31915	C20H14O2	(+)-trans-7,8-dihydroxy-7,8-dihydrobenzo(a)p*	62314-67-4	486.65	42.603	1,2
31760	C19H41N	diethylpentadecylamine	36555-73-4	590.15	52.610	1,2	31916	C20H14O3	anti-benzo(a)pyrene-7,8-dihydrodiol-9,10-oxi*	60268-85-1	477.73	41.748	2
31762	C19H42ClN	hexadecyltrimethylammonium chloride	112-02-7	355.35	30.180	1,2	31917	C20H14O3	bindon ethyl ether	69382-20-3	477.73	41.748	2
31766	C20H4F24O8Zr	zirconium hexafluoroacetylacetonate	19530-02-0	498.05	43.697	1,2	31918	C20H14O3	(+)-BP-7b,8a-diol-9a,10a-epoxide 2	63323-31-9	464.15	40.451	1,2
31789	C20H11Cl3O	10-trichloroacetyl-1,2-benzanthracene	63041-25-8	473.15	41.310	1,2	31919	C20H14O3	gamma-oxo-1-pyrenebutyric acid	7499-60-7	457.45	39.811	1,2
31800	C20H12	perylene	198-55-0	668.65	60.302	2	31920	C20H14O3	R-4,T-5-dihydroxy-C-6,6a-epoxy-4,5,6,6a-tetr*	151378-32-4	474.15	41.406	1,2
31801	C20H12	benzo[j]fluoranthene	205-82-3	668.65	60.302	2	31921	C20H14O3	R-4,T-5-dihydroxy-T-6,6a-epoxy-4,5,6,6a-tetr*	151378-31-3	477.73	41.748	2
31802	C20H12	benzo[k]fluoranthene	207-08-9	753.15	68.668	1,2	31922	C20H14O3	(+)cis-7,a,8,b-dihydroxy-9,a,10,a-epoxy-7,8,*	63323-29-5	515.15	45.342	1,2
31803	C20H12	benzo[b]fluoranthene	205-99-2	668.65	60.302	2	31924	C20H14O3	(±)-(E)-7,8-dihydroxy-9,10-epoxy-7,8,9,10-te*	58917-67-2	477.73	41.748	2
31804	C20H12	benzo[a]pyrene	50-32-8	668.65	60.302	2	31925	C20H14O3	(±)-7,b,8,a-dihydroxy-9,b,10,b-epoxy-7,8,9,1*	58917-91-2	477.73	41.748	2
31805	C20H12	benzo[e]pyrene	192-97-2	584.15	52.025	1,2	31926	C20H14O3	(±)-9a-10b-dihydroxy-11b,12b-epoxy-9,10,11,1*	---	477.73	41.748	2
31806	C20H12	azuleno(5,6,7-cd)phenalene	6580-41-2	668.65	60.302	2	31927	C20H14O3	(±)-9,b,10,a-dihydroxy-11,a,12,a-epoxy-9,10,*	---	477.73	41.748	2
31807	C20H12	benz(1)aceanthrylene	211-91-6	668.65	60.302	2	31928	C20H14O3	(±)-9,b,10,a-dihydroxy-11,b,12,b-epoxy-9,10,*	74465-36-4	477.73	41.748	2
31808	C20H12	benz(a)aceanthrylene	203-33-8	668.65	60.302	2	31929	C20H14O3	1,3-diphenyl-1,3-epidioxy-1,3-dihydroisobenz*	---	477.73	41.748	2
31809	C20H12	benzo(de)cyclopent(a)anthracene	198-46-9	668.65	60.302	2	31930	C20H14O4	diphenyl phthalate	84-62-8	489.15	42.843	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
31932	C20H14O4	1,3-bis(benzoyloxy)benzene	94-01-9	430.15	37.215	1,2	32214	C20H24	1,1-diphenyl-1-octene	1530-21-8	629.15	56.421	1,2
31933	C20H14O4	diphenyl isophthalate	744-45-6	548.15	48.529	1,2	32215	C20H24	trans-4,4'-dimethyl-a-a'-diethylstilbene	34983-45-4	629.15	56.421	2
31956	C20H15F	7,12-dimethyl-4-fluorobenz(a)anthracene	737-22-4	578.15	51.441	2	32216	C20H24	a-ethyl-a',sec-butylstilbene	63019-12-5	629.15	56.421	2
31957	C20H15F	7,12-dimethyl-5-fluorobenz(a)anthracene	794-00-3	578.15	51.441	2	32259	C20H26	1,1-diphenyloctane	1530-06-9	619.15	55.442	1,2
31958	C20H15F	7,12-dimethyl-8-fluorobenz(a)anthracene	2023-60-1	578.15	51.441	2	32260	C20H26	2,5-dimethyl-2,5-diphenylhexane	17648-05-4	619.15	55.442	2
31959	C20H15F	7,12-dimethyl-11-fluorobenz(a)anthracene	2023-61-2	578.15	51.441	2	32261	C20H26	4,4'-di-tert-butyl-biphenyl	1625-91-8	619.15	55.442	2
31960	C20H15F	1-fluoro-7,12-dimethylbenz(a)anthracene	68141-57-1	578.15	51.441	1,2	32262	C20H26	3,4-dimethyl-3,4-diphenylhexane	10192-93-5	619.15	55.442	2
31962	C20H15N	N-1-naphthyl-1-naphthalenamine	737-89-3	744.15	67.773	2	32296	C20H27N3O3	calpurnine	6874-80-2	505.65	44.427	1,2
31963	C20H15N	N-2-naphthyl-2-naphthalenamine	532-18-3	744.15	67.773	1,2	32302	C20H28	1-decylnaphthalene	26438-27-7	652.15	58.679	1,2
31964	C20H15N	3,4-dihydro-1,2,5,6-dibenzcarbazole	63077-00-9	744.15	67.773	2	32303	C20H28	2-decylnaphthalene	14188-79-5	656.15	59.072	1,2
31965	C20H15NO	N-(2-fluorenyl)benzamide	3671-78-1	524.15	46.209	1,2	32315	C20H28O2	methandrostenolone	72-63-9	569.15	50.566	2
31966	C20H15NO	10-methyl-1,2-benzanthracene-5-carbonamide	64082-43-5	524.15	46.209	1,2	32316	C20H28O2	all-trans-retinoic acid	302-79-4	569.15	50.566	2
31967	C20H15NO2	4-acetoxy-7-methylbenz(c)acridine	83876-62-4	564.15	50.081	1,2	32317	C20H28O2	13-cis-retinoic acid	4759-48-2	569.15	50.566	2
31968	C20H15NO2	N-fluoren-1-yl benzohydroxamic acid	29968-64-7	564.15	50.081	2	32318	C20H28O2	11b-ethylestradiol	64109-72-4	569.15	50.566	2
31969	C20H15NO2	N-fluoren-2-yl benzohydroxamic acid	3671-71-4	564.15	50.081	2	32319	C20H28O2	ethynodiol	1231-93-2	569.15	50.566	2
31975	C20H15N3O8S2	sulfoparablue	81-69-6	567.15	50.372	1,2	32320	C20H28O2	neoprogestin	6795-60-4	569.15	50.566	2
31976	C20H16	triphenylethylene	58-72-0	669.00	63.073	1,2	32321	C20H28O2	19-norpregn-4-ene-3,20-dione	472-54-8	569.15	50.566	2
31978	C20H16	5,6-dimethylchrysene	3697-27-6	746.15	60.000	2	32322	C20H28O2	19-nor-17a-pregn-5(10)-en-20-yne-3a,17-diol	21466-08-0	569.15	50.566	2
31980	C20H16	1,12-dimethylbenzo[c]phenanthrene	4076-43-1	559.60	49.639	2	32323	C20H28O2	19-nor-17a-pregn-5(10)-en-20-yne-3b, 17-diol	2307-97-3	569.15	50.566	1,2
31981	C20H16	5,8-dimethylbenzo[c]phenanthrene	54986-63-9	559.60	49.639	2	32327	C20H28O9	8-acetylneosolaniol	65041-92-1	580.15	51.636	1,2
31982	C20H16	meso-dihydrocholanthrene	63041-49-6	559.60	49.639	2	32328	C20H28Sn	di-n-butyldiphenyltin	6452-61-5	543.15	48.045	1,2
31992	C20H16	1,2-dimethylchrysene	15914-23-5	746.15	60.000	2	32331	C20H29NO3	1-methyl-3-piperidyl-a-phenylcyclohexaneglyc*	4354-45-4	526.15	46.402	1,2
31993	C20H16	1,11-dimethylchrysene	52171-92-3	746.15	60.000	2	32346	C20H30O2	abietic acid	514-10-3	649.70	72.477	1,2
31994	C20H16	4,5-dimethylchrysene	63019-23-8	746.15	60.000	2	32347	C20H30O2	17-hydroxy-17-methylandrost-4-en-3-one, (17b*	58-18-4	579.33	51.556	2
31995	C20H16	5,11-dimethylchrysene	14207-78-4	746.15	60.000	2	32348	C20H30O2	levopimaric acid	79-54-9	579.33	51.556	2
31999	C20H16	2-ethyl-3:4-benzphenanthrene	59965-27-4	559.60	49.639	2	32349	C20H30O2	palustric acid	1945-53-5	579.33	51.556	2
32000	C20H16	7,8,9,10-tetrahydrobenzo(a)pyrene	17750-93-5	559.60	49.639	2	32350	C20H30O2	pimaric acid	127-27-5	579.33	51.556	2
32011	C20H16N2O4	(+)-camptothecin	7689-03-4	537.15	47.465	1,2	32351	C20H30O2	cis-5,8,11,14,17-eicosapentaenoic acid	10417-94-4	579.33	51.556	2
32016	C20H16O	benz(a)anthracene-7-ethanol	63020-45-1	445.65	38.688	2	32352	C20H30O2	7,8-dihydroretinoic acid	51077-50-0	579.33	51.556	2
32017	C20H16O	7,12-dimethylbenz(a)anthracene-5,6-oxide	39834-38-3	445.65	38.688	2	32353	C20H30O2	2b,17b-dihydroxy-2a-ethinyl-A-nor(5a)androst*	1038-19-3	579.33	51.556	2
32018	C20H16O	9:10-dimethyl-1:2-benzanthracene-9:10-oxide	63019-25-0	445.65	38.688	2	32354	C20H30O2	16-ethyl-17-hydroxyester-4-en-3-one	33765-68-3	577.15	51.344	1,2
32019	C20H16O	7-hydroxymethyl-12-methylbenz(a)anthracene	568-75-2	449.65	39.068	1,2	32355	C20H30O2	17-ethyl-19-nortestosterone	52-78-8	579.33	51.556	2
32020	C20H16O	12-hydroxymethyl-7-methylbenz(a)anthracene	568-70-7	441.65	38.307	1,2	32356	C20H30O2	17b-hydroxy-7a-methylandrost-5-ene-3-one	50880-57-4	511.15	44.956	2
32021	C20H16O	3-methoxy-10-methyl-1,2-benzanthracene	966-48-3	445.65	38.688	2	32357	C20H30O2	mibolerone	3704-09-4	579.33	51.556	2
32022	C20H16O	5-methoxy-10-methyl-1,2-benzanthracene	63020-61-1	445.65	38.688	2	32358	C20H30O2	neoabietic acid	471-77-2	579.33	51.556	2
32023	C20H16O	7-methoxy-12-methylbenz(a)anthracene	16354-47-5	445.65	38.688	2	32358.1	C20H30O2	isopimaric acid	5835-26-7	623.10	61.114	1,2
32024	C20H16O	1,2,2-triphenylethanone	1733-63-7	445.65	38.688	2	32359	C20H30O4	dihexyl phthalate	84-75-3	623.15	55.834	2
32025	C20H16O2	naphthol	1321-67-1	558.65	49.547	1,2	32360	C20H30O4	2-ethylhexyl butyl phthalate	85-69-8	623.15	55.834	1,2
32026	C20H16O2	1-pyrenebutyric acid	3443-45-6	558.65	49.547	2	32361	C20H30O4	adipic acid 3-cyclohexenylmethanol diester	63905-29-3	623.15	55.834	2
32027	C20H16O2	triphenylacetic acid	595-91-5	558.65	49.547	2	32362	C20H30O4	medullin	13345-50-1	623.15	55.834	2
32028	C20H16O2	benz(a)anthracene-7,12-dimethanol	2564-65-0	558.65	49.547	2	32363	C20H30O6	bis(2-butoxyethyl) phthalate	117-83-9	543.15	48.045	1,2
32029	C20H16O2	trans-9,10-dihydroxy-9,10,11,12-tetrahydrobe*	66788-03-2	558.65	49.547	2	32364	C20H30O6	bis((3,4-epoxycyclohexyl)methyl)adipate	3130-19-6	543.15	48.045	2
32030	C20H16O2	7,12-dimethoxybenz(a)anthracene	16354-53-3	558.65	49.547	2	32367	C20H31N	dehydroabietylamine	1446-61-3	660.00	63.982	1,2
32031	C20H16O2	7,12-dimethylbenz(a)anthracene-3,4-diol	71964-72-2	558.65	49.547	2	32371	C20H31NO6	symphytine	22571-95-5	528.15	46.595	1,2
32058	C20H18	1,4-dibenzylbenzene	793-23-7	630.15	56.519	2	32374	C20H31N3O6S	bacmecillinam	50846-45-2	529.15	46.692	1,2
32059	C20H18	diphenyl-m-tolylmethane	603-26-9	630.15	56.519	1,2	32376	C20H32	1-decyl-[1,2,3,4-tetrahydronaphthalene]	55255-57-7	634.15	56.911	1,2
32060	C20H18	1,1,1-triphenylethane	5271-39-6	630.15	56.519	2	32377	C20H32	2-decyl-[1,2,3,4-tetrahydronaphthalene]	66455-67-2	636.15	57.107	1,2
32061	C20H18	1,1',1"-(1-ethanyl-2-ylidene)trisbenzene	1520-42-9	630.15	56.519	2	32378	C20H32	cembrene	1898-13-1	635.15	57.009	2
32062	C20H18	5,6-dihydro-7,12-dimethylbenz(a)anthracene	35281-29-9	630.15	56.519	2	32380	C20H32N2O3S	carbosulfan	55285-14-8	399.15	34.285	1,2
32063	C20H18	3,4-dihydro-1,11-dimethylchrysene	52171-93-4	630.15	56.519	2	32391.1	C20H32O2	isoagatholal	17990-11-3	628.00	68.330	1,2
32064	C20H18	1,2,4,5,6,7-hexahydrobenz(e)aceanthrylene	63041-92-9	630.15	56.519	2	32395	C20H33NO	4-(3-(4-(1,1-dimethylethyl)phenyl)-2-methylp*	67306-03-0	573.15	50.955	2
32065	C20H18	11,12-17-trimethyl-15H-cyclopenta(a)phenanth*	5831-11-8	630.15	56.519	2	32396	C20H33NO	cis-fenpropimorph	67564-91-4	573.15	50.955	1,2
32098	C20H19N	N-phenyl-N-benzylbenzenemethanamine	91-73-6	612.15	54.757	2	32397	C20H33NO	myristanilide	622-56-0	573.15	50.955	2
32099	C20H19N	N,N-dimethyl-p-(2-(1-naphthyl)vinyl)aniline	63019-14-7	612.15	54.757	1,2	32399	C20H34	1-phenyltetradecane	1459-10-5	627.16	57.739	1,2
32130	C20H20N2O4S2	N,N'-1,4-phenylenebis(4-methylbenzenesulfona*	41595-29-3	392.65	33.673	1,2	32406	C20H34O	geranyl linalool	1113-21-9	523.15	46.113	1,2
32133	C20H20OSi	ethoxytriphenylsilane	1516-80-9	617.15	55.246	1,2	32407.1	C20H34O2	agathadiol	1857-24-5	640.00	74.574	1,2
32141	C20H21AlCl2O7	aluminum clofibrate	24818-79-9	503.15	44.187	1,2	32416	C20H34O8	tributyl 2-acetylcitrate	77-90-7	446.15	38.735	1,2
32142	C20H21F3N2OS	fluoracizine	30223-48-4	466.65	40.689	1,2	32424	C20H36O2Sn	acetoxytricyclohexylstannane	13121-71-6	425.15	36.741	1,2
32144	C20H21N	proheptatriene	303-53-7	523.15	46.113	1,2	32425	C20H36O4	bis(2-ethylhexyl) maleate	142-16-5	488.65	42.795	2
32152	C20H21NO5	isoamyl 5,6-dihydro-7,8-dimethyl-4,5-dioxo-4*	73080-51-0	498.15	43.706	1,2	32426	C20H36O4	dioctyl fumarate	141-02-6	488.65	42.795	1,2
32156	C20H21N7O6	bremfol	2179-16-0	491.15	43.034	1,2	32427	C20H36O4	dioctyl maleate	2915-53-9	488.65	42.795	2
32157	C20H21N7O6	homofolate	3566-25-4	495.65	43.466	1,2	32429	C20H36O5	prostaglandin F1-a	745-62-0	437.25	37.889	1,2
32165	C20H22N2O	5-benzyloxy-3-(1-methyl-2-pyrrolidinyl)indole	14226-68-7	521.15	45.920	1,2	32430	C20H36O6	dicyclohexano-18-crown-6	16069-36-6	617.15	55.246	1,2
32166	C20H22N2O	fenazaquin	120928-09-8	486.55	42.593	1,2	32433	C20H37N3O13	antihelmycin	31282-04-9	435.35	37.709	1,2
32171	C20H22N4O6S	N-(2-(2,3-bis-(methoxycarbonyl)-guanidino)-5*	58306-30-2	488.15	42.747	1,2	32434	C20H37N3O13	destomycin A	14918-35-5	432.35	37.424	1,2
32174	C20H22N8O6	7-hydroxymethotrexate	5939-37-7	485.65	42.507	1,2	32435	C20H37NaO7S	dioctyl sulfosuccinate sodium salt	577-11-7	355.85	30.226	1,2
32175	C20H22N4O10S	cefuroxime axetil	64544-07-6	523.15	46.113	1,2	32436	C20H38	1-eicosyne	765-27-5	613.16	58.526	1,2
32176	C20H22O	6,6'-butylidenebis(2,4-xylenol)	3772-23-4	490.15	42.939	1,2	32437	C20H38	2-eicosyne	61847-99-2	625.15	56.029	1,2
32178	C20H22O3	ethyl 2,2-dibenzyl-3-oxobutanoate	42597-26-2	506.15	44.475	1,2	32438	C20H38	3-eicosyne	61886-66-6	603.15	53.878	1,2
32179	C20H22O3	MB pyrethroid	---	506.15	44.475	2	32439	C20H38	1,1-dicyclohexyloctane	62016-87-9	617.15	55.246	1,2
32180	C20H22O3	nafenopin	3771-19-5	506.15	44.475	2	32440	C20H38	1-pentadecylcyclopentene	62184-80-9	608.15	54.366	1,2
32183	C20H22O6	columbin	546-97-4	450.15	39.116	2	32442	C20H38N6O4	(S)-2-(2-acetamido-4-methylvaleramido)-N-(1-*	55123-66-5	449.25	39.030	2
32184	C20H22O6	4-ethoxyphenyl 4-[(butoxycarbonyl)oxy]benzoa*	16494-24-9	450.15	39.116	1,2	32443	C20H38N6O4	leupeptin Ac-LL	24365-47-7	449.25	39.030	1,2
32190	C20H23N	elavil	50-48-6	528.65	46.644	1,2	32445	C20H38O2	cis-9-eicosenoic acid	29204-02-2	650.00	58.467	2
32191	C20H23N	ludiomil	10262-69-8	528.65	46.644	2	32446	C20H38O2	9-eicosenoic acid	506-31-0	650.00	58.467	2
32205	C20H23NO5	N-acetyl colchinol	38838-26-5	554.15	49.111	2	32447	C20H38O2	11-eicosenoic acid	2462-94-4	650.00	58.467	2
32206	C20H23NO5	trimethylcolchicinic acid methyl ether	3476-50-4	554.15	49.111	1,2	32450	C20H38O2	cis-11-eicosenoic acid	5561-99-9	650.00	58.467	2
32209	C20H23N3O2	D-1-acetyllysergic acid monoethylamide	50485-03-5	570.65	50.712	1,2	32450.1	C20H38O2	cetyl methacrylate	2495-27-4	641.00	64.135	1,2
32210	C20H23N3O2	lysergic acid morpholide	4314-63-0	570.65	50.712	1,2	32455	C20H38O6	bis(2-(2-ethoxybutoxy)ethyl) succinic acid e*	25724-60-1	442.04	38.344	1,2
32211	C20H23N3O2	sibutol	55179-31-2	349.65	29.648	1,2	32456	C20H38O6	succinic acid, bis(2-(hexyloxy)ethyl) ester	10058-20-5	437.85	37.946	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
32457	C20H39Br	cis-1-bromo-1-eicosene	66455-60-5	648.15	58.285	1,2	32550	C20H43N	dimethyloctadecylamine	124-28-7	629.15	56.421	1,2
32458	C20H39Br	trans-1-bromo-1-eicosene	66455-61-6	648.15	58.285	1,2	32551	C20H43N	diethylhexadecylamine	30951-88-3	602.15	53.780	1,2
32459	C20H39Br3	1,1,1-tribromoeicosane	62127-76-8	708.15	64.202	1,2	32559	C20H48O4Si4	2,4,6,8-tetrabutyl-2,4,6,8-tetramethylcyclot*	14685-29-1	564.15	50.081	1,2
32460	C20H39Cl	cis-1-chloro-1-eicosene	66455-62-7	656.15	59.072	1,2	32560	C20H60O8Si9	eicosamethylnonasiloxane	2652-13-3	580.65	51.685	1,2
32461	C20H39Cl	trans-1-chloro-1-eicosene	66455-41-2	656.15	59.072	1,2	32582	C21H14	13H-dibenzo[a,g]fluorene	207-83-0	485.78	42.519	2
32462	C20H39Cl3	1,1,1-trichloroeicosane	62108-64-9	680.15	61.436	1,2	32583	C21H14	1,2-dehydro-3-methylcholanthrene	3343-10-0	485.78	42.519	2
32463	C20H39F	cis-1-fluoro-1-eicosene	66455-42-3	660.43	59.493	2	32584	C21H14	1,2,3,4-dibenzfluorene	201-65-0	485.78	42.519	2
32464	C20H39F	trans-1-fluoro-1-eicosene	66455-43-4	660.43	59.493	2	32586	C21H14	13H-indeno(1,2-c)phenanthrene	212-54-4	485.78	42.519	2
32465	C20H39F3	1,1,1-trifluoroeicosane	62126-86-7	597.15	53.292	1,2	32587	C21H14	methyl-azuleno(5,6,7-c,d)phenalene	28390-42-3	485.78	42.519	2
32466	C20H39I	cis-1-iodo-1-eicosene	66455-45-6	669.15	60.351	1,2	32588	C21H14	3-methylbenz(e)acephenanthrylene	---	485.78	42.519	2
32467	C20H39I	trans-1-iodo-1-eicosene	66455-44-5	669.15	60.351	1,2	32589	C21H14	7-methylbenz(e)acephenanthrylene	---	485.78	42.519	2
32468	C20H39I3	1,1,1-triiodoeicosane	---	933.19	86.746	2	32590	C21H14	8-methylbenz(e)acephenanthrylene	---	485.78	42.519	2
32469	C20H39N	eicosanenitrile	4616-73-3	659.15	59.367	1,2	32591	C21H14	12-methylbenz(e)acephenanthrylene	---	485.78	42.519	2
32472	C20H39N5O7	G-52	51909-61-6	410.15	35.323	1,2	32604	C21H14O	1-naphthyl-2-naphthylmethanone	605-79-8	488.90	42.819	2
32473	C20H40	pentadecylcyclopentane	4669-01-6	625.00	57.656	1,2	32605	C21H14O	2,3-diphenyl-1-indenone	1801-42-9	488.90	42.819	2
32474	C20H40	tetradecylcyclohexane	1795-18-2	627.16	56.610	1,2	32606	C21H14O	9-anthracenyl phenyl ketone	1564-53-0	488.90	42.819	2
32475	C20H40	cycloeicosane	296-56-0	621.15	55.638	1,2	32607	C21H14O	benzo(a)pyrene-6-methanol	21247-98-3	496.65	43.562	1,2
32476	C20H40	1-eicosene	3452-07-1	615.54	57.532	1,2	32608	C21H14O	11,12-epoxy-3-methylcholanthrene	67195-51-1	504.15	44.283	1,2
32476.1	C20H40	trans-2-eicosene	42448-85-1	592.00	55.783	1,2	32609	C21H14O	6-methoxybenzo(a)pyrene	52351-96-9	462.65	40.307	1,2
32477	C20H40	2-methyl-1-nonadecene	52254-50-9	615.15	55.051	1,2	32610	C21H14O	8-methoxy-3,4-benzpyrene	63059-68-7	492.15	43.130	1,2
32479	C20H40Br2	1,1-dibromoeicosane	62168-37-0	686.15	62.028	1,2	32611	C21H14O	3-methylcholanthrene-2-one	3343-08-6	488.90	42.819	2
32480	C20H40Cl2	1,1-dichloroeicosane	62017-22-5	667.15	60.154	1,2	32612	C21H14O	20-methylcholanthren-15-one	3343-07-5	488.90	42.819	2
32481	C20H40F2	1,1-difluoroeicosane	62127-09-7	603.15	53.878	1,2	32615	C21H15F	2-fluoro-3-methylcholanthrene	73771-72-9	426.15	36.836	1,2
32482	C20H40I2	1,1-diiodoeicosane	66455-47-8	842.84	77.634	2	32616	C21H15F	6-fluoro-3-methylcholanthrene	73771-73-0	544.15	48.142	1,2
32486	C20H40O	eicosanal	2400-66-0	634.15	56.911	1,2	32617	C21H15F	9-fluoro-3-methylcholanthrene	73771-74-1	485.15	42.459	2
32487	C20H40O	2-eicosanone	29703-52-4	625.00	56.015	2	32622	C21H15NO3	11R,10S-dihydroxy-9S,8R-epoxide-8,9,10,11-te*	140460-98-6	528.15	46.595	1,2
32488	C20H40O	octadecyl vinyl ether	930-02-9	629.58	56.463	2	32623	C21H15NO3	11S,10R-dihydroxy-9S,8R-epoxide-8,9,10,11-te*	140461-57-0	528.15	46.595	2
32489	C20H40O	3,7,11,15-tetramethyl-1-hexadecen-3-ol	505-32-8	629.58	56.463	2	32624	C21H15NO3	11R,10S-dihydroxy-9R,8S-epoxide-8,9,10,11-te*	140460-97-5	528.15	46.595	2
32490	C20H40O	phytol	7541-49-3	629.58	56.463	2	32625	C21H15NO3	11S,10R-dihydroxy-9R,8S-epoxide-8,9,10,11-te*	140460-96-4	528.15	46.595	2
32491	C20H40O2	eicosanoic acid	506-30-9	670.15	60.450	1,2	32626	C21H15NO3	N-fluorenyl-2-phthalimic acid	2485-10-1	528.15	46.595	2
32492	C20H40O2	3,7,11,15-tetramethylhexadecanoic acid	14721-66-5	706.07	63.996	2	32627	C21H15NO3	1-hydroxy-4-(p-toluidino)anthraquinone	81-48-1	528.15	46.595	2
32493	C20H40O2	nonadecyl formate	66455-49-0	714.52	64.833	2	32651	C21H16O	1-hydroxy-3-methylcholanthrene	3342-98-1	476.15	41.597	2
32494	C20H40O2	octadecyl acetate	822-23-1	630.00	89.415	2	32652	C21H16O	2-hydroxy-3-methylcholanthrene	3308-64-3	476.15	41.597	2
32495	C20H40O2	heptadecyl propanoate	---	715.22	64.902	2	32653	C21H16O	3-methylcholanthrene-11,12-oxide	3416-21-5	476.15	41.597	1,2
32496	C20H40O2	hexadecyl butanoate	6221-99-4	715.22	64.902	2	32655	C21H16O2	1,2-benzanthracene-10-acetic acid, methyl es*	63018-40-6	456.05	39.678	2
32497	C20H40O2	decyl decanoate	1654-86-0	706.07	63.996	2	32656	C21H16O2	benz(a)anthracene-7-methanol acetate	17526-24-8	456.05	39.678	2
32498	C20H40O2	butyl palmitate	111-06-8	706.07	63.996	2	32657	C21H16O2	2-(4'-methoxybenzoyl)fluorene	33207-59-9	454.15	39.497	1,2
32499	C20H40O2	ethyl stearate	111-61-5	706.07	63.996	2	32658	C21H16O2	cis-3-methylcholanthrene-1,2-diol	3342-99-2	457.95	39.859	1,2
32500	C20H40O2	methyl nonadecanoate	1731-94-8	706.07	63.996	2	32662	C21H17FN2O4	1-((4-fluorophenyl)methyl)-5-oxo-N-(4-oxo-4H*	59749-50-7	480.15	41.980	1,2
32502	C20H40O4Sn	bis(hexanoyloxy)di-n-butylstannane	19704-60-0	367.65	31.328	1,2	32664	C21H18	5:6-cyclopenteno-1:2-benzanthracene	7099-43-6	495.15	43.418	1,2
32503	C20H40O4Sn	diethylbis(octanoyloxy)stannane	2641-56-7	367.65	31.328	2	32665	C21H18	meso-dihydro-3-methylcholanthrene	63041-50-9	502.82	44.155	2
32504	C20H40S	thiacycloheneicosane	42425-07-0	644.15	57.893	1,2	32666	C21H18	11,12-dihydro-3-methylcholanthrene	25486-92-4	507.65	44.620	1,2
32505	C20H41Br	1-bromoeicosane	4276-49-7	659.15	59.367	1,2	32667	C21H18	7-ethyl-12-methylbenz(a)anthracene	16354-50-0	505.65	44.427	1,2
32506	C20H41Cl	1-chloroeicosane	42217-02-7	646.15	58.089	1,2	32671	C21H18	2-isopropyl-3:4-benzphenanthrene	63020-53-1	502.82	44.155	2
32507	C20H41F	1-fluoroeicosane	676-44-8	614.15	54.953	1,2	32673	C21H18	5-propylbenzo(c)phenanthrene	63020-32-6	502.82	44.155	2
32508	C20H41I	1-iodoeicosane	34994-81-5	680.15	61.436	1,2	32685	C21H18N2	cis-4,5-dihydro-2,4,5-triphenyl-1H-imidazole	573-33-1	471.15	41.119	2
32511	C20H41NO2	1-nitroeicosane	66455-50-3	667.15	60.154	1,2	32713	C21H19NO5	chelerythrine	34316-15-9	480.15	41.980	1,2
32512	C20H41NO2	g-aminobutyric acid cetyl ester	34562-99-7	667.15	60.154	2	32715	C21H19N3O2	N-benzoyloxy-N-ethyl-4-aminoazobenzene	55398-24-8	570.25	50.673	1,2
32513	C20H41NO2	cetyl betaine	693-33-4	667.15	60.154	2	32716	C21H19N3O2	N-benzoyloxy-3'-methyl-4-methylaminoazobenze*	67371-65-7	570.25	50.673	2
32515	C20H42	eicosane	112-95-8	616.93	59.015	1,2	32717	C21H19N3O2	N-benzoyloxy-4'-methyl-N-methyl-4-aminoazobe*	55398-25-9	570.25	50.673	2
32516	C20H42	2-methylnonadecane	1560-86-7	612.15	54.757	1,2	32767	C21H21N	tribenzylamine	620-40-6	658.15	59.268	1,2
32517	C20H42	3-methylnonadecane	6418-45-7	613.15	54.855	1,2	32768	C21H21N	N,N-dimethyl-4-(diphenylmethyl)aniline	13865-57-1	683.15	61.732	2
32518	C20H42	2,2-dimethyloctadecane	61869-06-5	606.15	54.171	1,2	32769	C21H21N	periactinol	129-03-3	670.65	60.499	2
32519	C20H42	2,3-dimethyloctadecane	61868-04-0	614.15	54.953	1,2	32780	C21H21N3	hexahydro-1,3,5-triphenyl-1,3,5-triazine	91-78-1	458.15	39.878	1,2
32520	C20H42	2,4-dimethyloctadecane	61868-10-8	594.15	53.000	1,2	32781	C21H21N3	hydroethidine	38483-26-0	458.15	39.878	2
32522	C20H42O	1-eicosanol	629-96-9	629.15	64.799	1,2	32787	C21H21O4P	tri-o-cresyl phosphate	78-30-8	683.15	61.732	1,2
32523	C20H42O	2-eicosanol	4340-76-5	639.15	57.402	1,2	32788	C21H21O4P	tri-m-cresyl phosphate	563-04-2	642.65	57.745	2
32524	C20H42O	didecyl ether	2456-28-2	590.00	52.595	2	32789	C21H21O4P	tri-p-cresyl phosphate	78-32-0	642.65	57.745	2
32525	C20H42O	2-octyl-1-dodecanol	5333-42-6	619.43	55.470	2	32790	C21H21O4P	tricresyl phosphate	1330-78-5	602.15	53.780	1,2
32526	C20H42O2	1,2-eicosanediol	39825-93-9	693.15	62.719	2	32791	C21H21O4P	O-isopropylphenyl diphenyl phosphate	64532-94-1	642.65	57.745	2
32527	C20H42O2	1,3-eicosanediol	---	704.15	63.806	2	32792	C21H21O4P	p-isopropylphenyl diphenyl phosphate	55864-04-5	642.65	57.745	2
32528	C20H42O2	1,4-eicosanediol	---	725.15	65.887	2	32812	C21H23BrFNO2	bromoperidol	10457-90-6	488.35	42.766	1,2
32529	C20H42O2	1,20-eicosanediol	---	712.15	64.598	2	32815	C21H23F3O2	17-(3,3,3-trifluoro-1-propynyl)estra-1,3,5(1*	2061-56-5	471.65	41.167	1,2
32530	C20H42O2	1,1-dimethoxyoctadecane	14620-55-4	708.65	64.252	2	32836	C21H24N2O2	(+)-catharanthine	2468-21-5	531.15	46.885	1,2
32531	C20H42O2Sn	acetoxytrihexylstannane	2897-46-3	543.15	48.045	1,2	32841	C21H24OSi2	1,1,1-trimethyl-3,3,3-triphenyldisiloxane	799-53-1	622.15	55.736	1,2
32532	C20H42O2Sn	tributyltin-2-ethylhexanoate	5035-67-6	543.15	48.045	2	32851	C21H25NO	benzotropine	86-13-5	509.65	44.812	1,2
32533	C20H42O2Sn	triisopropyltin undecylenate	73928-00-4	543.15	48.045	2	32860	C21H26	1,1-diphenyl-1-nonene	1530-26-3	642.15	57.696	1,2
32537	C20H42S	1-eicosanethiol	13373-97-2	656.16	64.475	1,2	32862	C21H26ClNO	clemastine fumarate	14976-57-9	427.15	36.931	1,2
32538	C20H42S	2-eicosanethiol	62155-08-2	651.15	58.580	1,2	32868	C21H26N2O4	quinine formate	130-90-5	423.65	36.599	2
32539	C20H42S	didecyl sulfide	693-83-4	645.00	68.746	2	32869	C21H26N2O4	1-(m-tolyl)-4-(3,4,5-trimethoxybenzoyl)piper*	17766-74-4	423.65	36.599	2
32540	C20H42S	methyl nonadecyl sulfide	62155-12-8	645.00	68.746	2	32870	C21H26N2O4	1-(p-tolyl)-4-(3,4,5-trimethoxybenzoyl)piper*	17766-75-5	423.65	36.599	1,2
32541	C20H42S	ethyl octadecyl sulfide	41947-84-6	645.00	68.746	2	32880	C21H26O3	[2-hydroxy-4-(octyloxy)phenyl]phenylmethanone	1843-05-6	546.65	48.384	2
32542	C20H42S	propyl heptadecyl sulfide	66455-35-4	645.00	68.746	2	32881	C21H26O3	4-octylphenyl salicylate	2512-56-3	546.65	48.384	2
32543	C20H42S	butyl hexadecyl sulfide	18437-89-3	645.00	68.746	2	32882	C21H26O3	4-(2-ethylhexyloxy)-2-hydroxybenzophenone	2549-90-8	546.65	48.384	1,2
32544	C20H42S2	didecyl disulfide	10496-18-1	663.16	65.890	1,2	32884	C21H26O3	retinoid etretin	55079-83-9	546.65	48.384	2
32545	C20H43ClSi	chloro(dimethyl)octadecylsilane	18643-08-8	573.15	50.955	1,2	32893	C21H27ClN2S2	thioridazine hydrochloride	130-61-0	503.15	44.187	1,2
32546	C20H43N	eicosylamine	10525-37-8	656.15	59.072	1,2	32914	C21H28	1,1-diphenylnonane	1726-13-2	630.15	56.519	1,2
32547	C20H43N	methylnonadecylamine	66455-36-5	632.15	56.715	1,2	32931	C21H28O4	21-hydroxypregn-4-ene-3,11,20-trione	72-23-1	595.15	53.097	2
32548	C20H43N	ethyloctadecylamine	7317-85-3	634.15	56.911	1,2	32932	C21H28O4	formyldienolone	2454-11-7	595.15	53.097	2
32549	C20H43N	didecylamine	1120-49-6	632.15	56.715	1,2	32944	C21H30	1-undecylnaphthalene	7225-71-0	664.15	59.859	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
32945	C21H30	2-undecylnaphthalene	61886-68-8	669.15	60.351	1,2	33163	C22H18	3-ethylcholanthrene	7511-54-8	425.15	36.741	2
32949	C21H30N4O2	4-(p-octyloxyphenyl)semicarbazone 1-methyl-1*	119034-07-0	460.15	40.069	1,2	33164	C22H18	1,2,3,4-tetrahydrodibenz(a,h)anthracene	153-39-9	466.65	40.689	2
32998	C21H36	pentadecylbenzene	2131-18-2	639.16	59.413	1,2	33165	C22H18	1,2,3,4-tetrahydrodibenz(a,j)anthracene	16310-68-2	508.15	44.668	1,2
32999	C21H36	pregnane, (5alpha)	641-85-0	639.16	57.403	2	33182	C22H19Cl2NO3	cypermethrin	52315-07-8	473.15	41.310	2
33000	C21H36	pregnane, (5beta)	481-26-5	639.16	57.403	2	33183	C22H19Cl2NO3	a-cypermethrin	67375-30-8	473.15	41.310	1,2
33005	C21H36O	3-pentadecylphenol	501-24-6	627.85	56.294	2	33193	C22H19N3O4	4'-methoxycarbonyl-N-benzoyloxy-N-methyl-4-a*	55936-75-9	392.15	33.626	1,2
33006	C21H36O	1-(8-methoxy-4,8-dimethylnonyl)-4-(1-methyle*	53905-38-7	627.85	56.294	1,2	33198	C22H20	1,2,3,7,8,9-hexahydroanthanthrene	35281-34-6	409.15	35.228	1,2
33021	C21H40	1,1-dicyclohexylnonane	62155-19-5	629.15	56.421	1,2	33203	C22H20Cl2N2O3	2-(4-(2,4-dichloro-m-toluoyl)-1,3-dimethylpy*	82692-44-2	415.55	35.833	1,2
33022	C21H40	1-hexadecylcyclopentene	62184-81-0	619.15	55.442	1,2	33204	C22H20Cl2N2Sn	diphenyldichloro tin dipyridine complex	25868-47-7	423.85	36.618	1,2
33023	C21H40	1-heneicosyne	61847-81-2	627.15	56.225	1,2	33230	C22H22N6O2S	4'-(3-(3,3-dimethyl-1-triazeno)-9-acridinyla*	80266-48-4	452.15	39.306	1,2
33026	C21H40O3	methoxyethyl oleate	111-10-4	436.15	37.785	2	33231	C22H22O4	bis(1-hydroxycyclohexyl)peroxide	---	479.15	41.884	2
33027	C21H40O3	stearic acid 2,3-epoxypropyl ester	7460-84-6	436.15	37.785	1,2	33232	C22H22O4	dienestrol diacetate	84-19-5	479.15	41.884	1,2
33028	C21H40O4	bis(2-ethylbutyl) nonanedioate	105-03-3	555.15	49.207	2	33255	C22H24FN3O2	1-(1-(4-(4-fluorophenyl)-4-oxobutyl)-4-piper*	2062-84-2	503.45	44.216	1,2
33029	C21H40O4	glycerol 1-monooleate	111-03-5	555.15	49.207	2	33258	C22H24N2O3	1,5-bis(o-methoxyphenyl)-3,7-diazaadmantan-9*	69352-67-6	540.15	47.755	1,2
33030	C21H40O4	dihexyl azelate	109-31-9	555.15	49.207	1,2	33278	C22H25N3O4	3,4-dihydro-6-(4-(3,4-dimethoxybenzoyl)-1-pi*	81840-15-5	356.15	30.254	1,2
33031	C21H40O4	glyceryl monooleate	25496-72-4	555.15	49.207	2	33279	C22H25O2PS2Sn	3-ethoxy-1,1,1-triphenyl-4-oxa-2-thia-3-phos*	2117-78-4	414.85	35.767	1,2
33032	C21H41N	heneicosanenitrile	66326-13-4	670.15	60.450	1,2	33283	C22H26N2O2	ethyl apovincaminate	42971-09-5	449.15	39.021	1,2
33036	C21H42	hexadecylcyclopentane	6812-39-1	637.16	59.329	1,2	33284	C22H26N2O2	methyl 10-(3-piperidinopropyl)phenoxazin-2-y*	106742-36-3	406.15	34.945	1,2
33037	C21H42	pentadecylcyclohexane	6006-95-7	640.16	57.990	1,2	33288	C22H26N2OS	methylaminocolchicide	63917-71-5	451.15	39.211	1,2
33038	C21H42	1-heneicosene	1599-68-4	628.15	56.323	1,2	33289	C22H26N2OS	methyl 10-(3-piperidinopropyl)phenothiazin-2*	98271-51-3	535.15	47.271	1,2
33039	C21H42Br2	1,1-dibromoheneicosane	62168-38-1	697.15	63.114	1,2	33290	C22H26N3O3S2	2-methylsulfonyl-10-(3-(4'-carbamoylpiperidi*	---	432.75	37.462	1,2
33040	C21H42Cl2	1,1-dichloroheneicosane	62017-23-6	678.15	61.238	1,2	33291	C22H26N4O5	cyanocycline A	82423-05-0	429.15	37.121	1,2
33041	C21H42F2	1,1-difluoroheneicosane	62127-10-0	614.15	54.953	1,2	33302	C22H27NO4	corydaline	518-69-4	481.15	42.076	2
33042	C21H42I2	1,1-diiodoheneicosane	66326-14-5	865.72	79.934	2	33303	C22H27NO4	coumarin 314t	113869-06-0	481.15	42.076	1,2
33043	C21H42O2	eicosyl formate	66326-15-6	737.40	67.102	2	33304	C22H27BrO2	BDH 6140	7548-46-1	466.15	40.641	1,2
33044	C21H42O2	nonadecyl acetate	53939-51-8	645.00	100.517	2	33306	C22H27ClO2	BDH 2700	7548-44-9	578.15	51.441	1,2
33045	C21H42O2	octadecyl propanoate	52663-48-6	738.10	67.172	2	33313	C22H28	1,1-diphenyl-1-decene	1530-27-4	655.15	58.973	1,2
33046	C21H42O2	heptadecyl butanoate	84869-41-0	738.10	67.172	2	33322	C22H28N4O6	mitoxantrone	65271-80-9	490.15	42.939	1,2
33047	C21H42O2	isopropyl stearate	112-10-7	737.93	67.154	2	33323	C22H28O2	11b-ethyl-17a-ethinylestradiol	39845-47-1	505.15	44.379	1,2
33048	C21H42O2	propyl stearate	3634-92-2	737.93	67.154	2	33340	C22H29N3S2	ethylthioperazine	1420-55-9	500.15	43.899	1,2
33049	C21H42O2	methyl eicosanoate	1120-28-1	737.93	67.154	2	33343	C22H30	1,1-diphenyldecane	1530-07-0	634.15	56.911	1,2
33050	C21H42O2	heneicosanoic acid	2363-71-5	737.93	67.154	2	33361	C22H32	1-dodecylnaphthalene	26438-28-8	676.15	61.041	1,2
33051	C21H42O2	isopropyl isostearate	68171-33-5	737.93	67.154	2	33362	C22H32	2-dodecylnaphthalene	60899-39-0	682.15	61.633	1,2
33055	C21H43Br	1-bromoheneicosane	4276-50-0	670.15	60.450	1,2	33366	C22H32O2	20-(hydroxymethyl)pregna-1,4-dien-3-one	35525-27-0	593.15	52.902	2
33056	C21H43Cl	1-chloroheneicosane	66326-16-7	657.15	59.170	1,2	33367	C22H32O2	retinol, acetate	127-47-9	593.15	52.902	2
33057	C21H43F	1-fluoroheneicosane	62126-78-7	626.15	56.127	1,2	33368	C22H32O2	3-homotetra hydro cannibinol	117-51-1	593.15	52.902	1,2
33058	C21H43I	1-iodoheneicosane	62127-52-0	691.15	62.521	1,2	33369	C22H32O2	methallyl-19-nortestosterone	2529-46-6	593.15	52.902	2
33059	C21H44	heneicosane	629-94-7	629.65	56.470	1,2	33370	C22H32O2	17a-(1-methallyl)-19-nortestosterone	7359-80-0	593.15	52.902	2
33062	C21H44O	henicosanol	15594-90-8	642.00	57.682	2	33371	C22H32O3	medroxyprogesterone	520-85-4	496.65	43.562	2
33065	C21H45N	heneicosylamine	14130-15-5	668.15	60.253	1,2	33372	C22H32O3	17-(1-oxopropoxy)-androst-4-en-3-one, (17bet*	57-85-2	496.65	43.562	2
33066	C21H45N	methyleicosylamine	66326-20-3	643.15	57.794	1,2	33373	C22H32O3	16b-ethyl-17b-hydroxyester-4-en-3-one acetate	33765-80-9	496.65	43.562	1,2
33067	C21H45N	ethylnonadecylamine	66326-79-0	646.15	58.089	1,2	33374	C22H32O3	17b-hydroxy-5b,14b-androstan-3-one acrylate	66964-26-9	496.65	43.562	2
33068	C21H45N	isopropyloctadecylamine	13329-71-0	635.98	57.091	2	33375	C22H32O3	primobolan	434-05-9	496.65	43.562	2
33069	C21H45N	dimethylnonadecylamine	49859-87-2	641.15	57.598	1,2	33384	C22H34O4	diheptyl phthalate	3648-21-3	468.15	40.833	1,2
33070	C21H45N	diethylheptadecylamine	66326-18-9	614.15	54.953	1,2	33385	C22H34O4	bis((6-methyl-3-cyclohexen-1-yl)methyl) este*	68555-34-0	468.15	40.833	2
33071	C21H45N	triheptylamine	2411-36-1	603.15	53.878	1,2	33386	C22H34O4	butyl decyl phthalate	89-19-0	468.15	40.833	2
33072	C21H45NS2Sn	dibutyldithiocarbamic acid S-tributylstannyl*	67057-34-5	401.90	34.544	1,2	33387	C22H34O4	di(3-methylhexyl)phthalate	53306-53-9	468.15	40.833	2
33080	C22H12	benzo[ghi]perylene	191-24-2	809.15	74.256	2	33394	C22H35NO3	luciculine	5008-52-6	644.15	57.893	2
33081	C22H12	indeno[1,2,3-cd]pyrene	193-39-5	809.15	74.256	1,2	33395	C22H35NO3	p-hexoxybenzoic acid 3-(2'-methylpiperidino)*	63916-83-6	644.15	57.893	1,2
33082	C22H12	dibenzo[def,mno]chrysene	191-26-4	809.15	74.256	2	33401	C22H38	1-phenylhexadecane	1459-09-2	651.16	61.086	1,2
33083	C22H12	benzo(def)cyclopenta(hi)chrysene	196-77-0	809.15	74.256	2	33404	C22H38Cl2O4Ti	dichlorobis(2,2,6,6-tetramethyl-3,5-heptaned*	53293-32-6	488.15	42.747	1,2
33084	C22H12	benzo(L)cyclopenta(cd)pyrene	113779-16-1	809.15	74.256	2	33405	C22H38CuO4	copper bis(2,2,6,6-tetramethyl-3,5-heptanedi*	14040-05-2	588.15	52.415	1,2
33097	C22H14	benzo[b]triphenylene	215-58-7	792.15	72.556	2	33410	C22H38O4Zn	bis(2,2,6,6-tetramethyl-3,5-heptanedionato)z*	14363-14-5	523.15	46.113	1,2
33098	C22H14	dibenz[a,h]anthracene	53-70-3	792.15	72.556	2	33425	C22H42	1,1-dicyclohexyldecane	62155-20-8	640.15	57.500	1,2
33099	C22H14	dibenz[a,j]anthracene	224-41-9	792.15	72.556	2	33426	C22H42	1-docosyne	61847-82-3	639.15	57.402	1,2
33100	C22H14	pentacene	135-48-8	792.15	72.556	2	33431	C22H42O2	cis-13-docosenoic acid	112-86-7	665.00	59.943	2
33101	C22H14	pentaphene	222-93-5	792.15	72.556	2	33432	C22H42O2	trans-13-docosenoic acid	506-33-2	665.00	59.943	2
33102	C22H14	picene	213-46-7	792.15	72.556	1,2	33433	C22H42O2	13-docosenoic acid	1072-39-5	665.00	59.943	2
33103	C22H14	benzo[a]naphthacene	226-88-0	792.15	72.556	2	33437	C22H42O4	bis(2-ethylhexyl) adipate	103-23-1	633.15	56.813	2
33104	C22H14	benzo[b]chrysene	214-17-5	792.15	72.556	2	33438	C22H42O4	diethyl octadecanedioate	1472-90-8	633.15	56.813	2
33105	C22H14	1,2:5,6-dibenzophenanthrene	194-69-4	792.15	72.556	2	33439	C22H42O4	docosanedioic acid	505-56-6	633.15	56.813	2
33106	C22H14	1,2:3,4-dibenzophenanthrene	196-78-1	792.15	72.556	2	33440	C22H42O4	di-n-octyl adipate	123-79-5	633.15	56.813	1,2
33116	C22H14O	5,6-epoxy-5,6-dihydrodibenz(a,h)anthracene	1421-85-8	439.15	38.070	1,2	33441	C22H42O4	di-n-hexyl sebacate	2449-10-7	633.15	56.813	2
33117	C22H14O	6-oxiranylbenzo(a)pyrene	61695-69-0	439.15	38.070	2	33444	C22H42O6	tri(ethylene glycol) bis(2-ethylhexanoate)	94-28-0	617.15	55.246	1,2
33121	C22H15N	9-amino-1,2,5,6-dibenzanthracene	63041-30-5	464.15	40.451	2	33445	C22H42O6	adipic acid (di-2-(2-ethylbutoxy)ethyl) ester	7790-07-0	617.15	55.246	2
33122	C22H15N	7-methyldibenz(c,h)acridine	59652-21-0	464.15	40.451	2	33446	C22H42O6	adipic acid, di(2-hexyloxyethyl) ester	110-32-7	617.15	55.246	2
33123	C22H15N	14-methyldibenz(a,h)acridine	79543-29-6	464.15	40.451	2	33447	C22H42O6	monopalmitate sorbitan	26266-57-9	617.15	55.246	2
33124	C22H15N	14-methyldibenz(a,j)acridine	59652-20-9	464.15	40.451	1,2	33449	C22H42O8	bis(2-(2-butoxyethoxy)ethyl) adipate	141-17-3	513.15	45.149	1,2
33126	C22H15N3	2-(4-biphenylyl)-S-triazolo(5,1-a)isoquinoli*	75318-62-6	467.15	40.737	1,2	33450	C22H43NO	erucylamide	112-84-5	463.15	40.355	1,2
33127	C22H15N3S	benzo(a)pyrene-6-carboxyaldehyde thiosemicar*	64048-70-0	454.65	39.544	1,2	33454	C22H44	heptadecylcyclopentane	62016-52-8	650.15	58.482	1,2
33128	C22H16	5,6-dihydrodibenz(a,h)anthracene	153-34-4	471.15	41.119	1,2	33455	C22H44	hexadecylcyclohexane	6812-38-0	652.16	59.329	1,2
33129	C22H16	5,6-dihydrodibenz(a,j)anthracene	16361-01-6	456.25	39.697	2	33456	C22H44	1-docosene	1599-67-3	640.15	57.500	1,2
33130	C22H16	7,14-dihydrodibenz(a,h)anthracene	57816-08-7	459.55	40.012	1,2	33457	C22H44Br2	1,1-dibromodocosane	62168-39-2	707.15	64.103	1,2
33139	C22H16	1,2,5,6-tetrahydrobenzo(j)cyclopent(fg)acean*	3570-54-5	456.25	39.697	2	33458	C22H44Cl2	1,1-dichlorodocosane	62017-24-7	689.15	62.324	1,2
33141	C22H16N2O7	C.I. disperse blue 27	15791-78-3	527.15	46.499	1,2	33459	C22H44F2	1,1-difluorodocosane	62127-11-1	624.15	55.931	1,2
33153	C22H17Cl2NO3S	2-((4-(dichloroacetyl)phenyl)amino)-2-hydrox*	27700-43-2	403.15	34.662	1,2	33460	C22H44I2	1,1-diiododocosane	66326-05-4	888.60	82.239	2
33159	C22H18	1,3-dimethylbenz(e)acephenanthrylene	---	466.65	40.689	2	33462	C22H44O	cis-13-docosen-1-ol	629-98-1	652.58	58.720	2
33160	C22H18	2,3-dimethylcholanthrene	63041-62-3	425.15	36.741	1,2	33463	C22H44O2	eicosyl acetate	822-24-2	650.00	120.791	2
33161	C22H18	3,6-dimethylcholanthrene	85923-37-1	425.15	36.741	2	33464	C22H44O2	nonadecyl propanoate	66326-06-5	760.98	69.447	2
33162	C22H18	15,20-dimethylcholanthrene	63041-61-2	425.15	36.741	2	33465	C22H44O2	octadecyl butanoate	13373-83-6	760.98	69.447	2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
33466	C22H44O2	butyl stearate	123-95-5	623.15	58.351	1,2	33809	C24H22	tert-20-butylcholanthrene	67195-50-0	445.00	38.626	2
33467	C22H44O2	isobutyl stearate	646-13-9	726.52	66.023	2	33821	C24H24N2O4	codeine nicotinate (ester)	3688-66-2	470.65	41.071	1,2
33468	C22H44O2	docosanoic acid	112-85-6	726.52	66.023	2	33847	C24H27O4P	3,4-dimethylphenol phosphate (3:1)	3862-11-1	516.90	45.510	2
33469	C22H44O2	ethyl eicosanoate	18281-05-5	726.52	66.023	2	33848	C24H27O4P	tris(2,4-dimethylphenyl) phosphate	3862-12-2	506.65	44.523	1,2
33470	C22H44O2	methyl heneicosanoate	6064-90-0	726.52	66.023	2	33849	C24H27O4P	tris(2,5-dimethylphenyl) phosphate	19074-59-0	516.90	45.510	2
33473	C22H45Br	1-bromodocosane	6938-66-5	681.15	61.534	1,2	33850	C24H27O4P	tris(2,6-dimethylphenyl) phosphate	121-06-2	516.90	45.510	2
33474	C22H45Cl	1-chlorodocosane	42217-03-8	668.15	60.253	1,2	33851	C24H27O4P	trixylyl phosphate	25155-23-1	527.15	46.499	1,2
33475	C22H45F	1-fluorodocosane	62126-79-8	637.15	57.206	1,2	33852	C24H27O4P	p-hexylphenyl diphenyl phosphate	64532-96-3	516.90	45.510	2
33476	C22H45I	1-iododocosane	62127-53-1	701.15	63.510	1,2	33868	C24H30Cl2N5O7	cyclochlorotine	12663-46-6	522.15	46.016	1,2
33477	C22H46	docosane	629-97-0	641.75	57.657	1,2	33875	C24H30O4	3b,17b-diacetoxy-17a-ethinyl-19-nor-D3,5-and*	2205-78-9	553.65	49.062	1,2
33478	C22H46N2O	2-heptadecyl-2-imidazoline-1-ethanol	95-19-2	533.15	47.078	1,2	33887	C24H32	1,1-diphenyl-1-dodecene	1530-29-6	677.15	61.140	1,2
33479	C22H46O	1-docosanol	661-19-8	653.00	58.762	2	33906	C24H34	1,1-diphenyldodecane	1603-53-8	659.15	59.367	1,2
33483	C22H47N	docosylamine	14130-06-4	680.15	61.436	1,2	33919	C24H36O4	3b-acetoxy-bis nor-D5-cholenic acid	---	534.15	47.175	1,2
33484	C22H47N	methylheneicosylamine	66326-08-7	654.15	58.875	1,2	33924	C24H38O4	diisooctyl phthalate	27554-26-3	694.00	71.106	1,2
33485	C22H47N	ethyleicosylamine	66326-07-6	657.15	59.170	1,2	33925	C24H38O4	dioctyl phthalate	117-84-0	657.15	66.130	1,2
33486	C22H47N	diundecylamine	16165-33-6	655.15	58.973	1,2	33926	C24H38O4	bis(2-ethylhexyl) phthalate	117-81-7	657.15	59.170	1,2
33487	C22H47N	dimethyleicosylamine	45275-74-9	652.15	58.679	1,2	33927	C24H38O4	dioctyl terephthalate	6422-86-2	664.65	59.908	1,2
33488	C22H47N	diethyloctadecylamine	30427-51-1	625.15	56.029	1,2	33928	C24H38O4	apocholic acid	641-81-6	627.88	56.296	2
33495	C23H14Cl2N6O8S2	C.I. reactive blue 4	13324-20-4	564.15	50.081	1,2	33929	C24H38O4	bis(2-ethylhexyl) isophthalate	137-89-3	627.88	56.296	2
33525	C23H20	20-isopropylcholanthrene	63041-70-3	506.15	44.475	1,2	33930	C24H38O4	bis(2-ethylhexyl) terephthalate	4654-26-6	526.15	46.402	1,2
33528	C23H20Fe2O	1,3-bis(di-n-cyclopentadienyl iron)-2-propen*	---	516.15	45.438	1,2	33931	C24H38O4	bis(2-octyl)phthalate	131-15-7	568.15	50.469	1,2
33529	C23H20N2O2S	1,2-diphenyl-4-phenylthioethyl-3,5-pyrazolid*	3736-92-3	510.85	44.928	1,2	33931.1	C24H38O4	heptyl nonyl phthalate	19295-81-9	687.00	71.035	1,2
33551	C23H23N2S2	dithiazanine	7187-55-5	540.15	47.755	1,2	33933	C24H38O8	di(ethylene glycol monobutyl ether)phthalate	16672-39-2	536.15	47.368	1,2
33557	C23H24O2Sn	formyloxytribenzylstannane	17977-68-3	540.15	47.755	1,2	33938	C24H40N2O2	N,N-diethyl-4-methyl-3-oxo-5a-4-azaandrostan*	73671-86-0	504.90	44.355	1,2
33577	C23H26O3	D-phenothrin	26002-80-2	603.65	53.927	1,2	33940	C24H40O	octadecanophenone	6786-36-3	698.15	63.213	1,2
33585	C23H28Cl3N3O	quinacrine mustard	64046-79-3	454.75	39.554	1,2	33958	C24H42	cholane	548-98-1	673.15	60.745	2
33607	C23H30	1,1-diphenyl-1-undecene	1530-28-5	666.15	60.056	1,2	33959	C24H42	octadecylbenzene	4445-07-2	673.15	60.745	1,2
33624	C23H31ClO4	6a-chloro-17a-acetoxyprogesterone	---	519.15	45.727	2	33960	C24H42O	dinonylphenol	1323-65-5	722.00	73.966	1,2
33628	C23H31NO2	a-1-acetylmethadol	1477-40-3	573.15	50.955	1,2	33964	C24H44O6	sorbitan monooleate	1338-43-8	555.55	49.246	1,2
33629	C23H31NO2	2-diethylaminoethylpropyldiphenyl acetate	302-33-0	573.15	50.955	2	33967	C24H46	1,1-dicyclohexyldodecane	18254-57-4	660.15	59.465	1,2
33630	C23H31NO3	3,3-dimethyl-4-(dimethylamino)-4-(o-methoxyp*	3215-85-8	545.15	48.239	1,2	33968	C24H46	1-tetracosyne	61847-84-5	662.15	59.662	1,2
33631	C23H31NO3	3,3-dimethyl-4-(dimethylamino)-4-(p-methoxyp*	3215-84-7	495.15	43.418	1,2	33970	C24H46O2	cis-15-tetracosenoic acid	506-37-6	680.00	61.421	2
33632	C23H31NO7S	sulprostone	60325-46-4	347.15	29.416	1,2	33971	C24H46O2	trans-15-tetracosenoic acid	14490-79-0	680.00	61.421	2
33633	C23H32	1,1-diphenylundecane	1530-08-1	650.15	58.482	1,2	33977	C24H46O4S2Sn	di-n-octyltin-1,4-butanediol-bis-mercaptoace*	69226-46-6	557.15	49.401	1,2
33657	C23H33N2O2	N-propylajmaline	35080-11-6	366.15	31.188	1,2	33983	C24H48	nonadecylcyclopentane	62016-54-0	673.15	60.745	1,2
33674	C23H40	heptadecylbenzene	14752-75-1	662.15	59.662	1,2	33984	C24H48	octadecylcyclohexane	4445-06-1	675.15	60.943	1,2
33677	C23H44	1,1-dicyclohexylundecane	62155-21-9	650.15	58.482	1,2	33985	C24H48	1-tetracosene	10192-32-2	663.15	59.760	1,2
33678	C23H44	1-tricosyne	61847-83-4	651.15	58.580	1,2	33986	C24H48Br2	1,1-dibromotetracosane	62168-03-0	726.15	65.986	1,2
33684	C23H46	octadecylcyclopentane	62016-53-9	662.15	59.662	1,2	33987	C24H48Cl2	1,1-dichlorotetracosane	62017-26-9	709.15	64.301	1,2
33685	C23H46	heptadecylcyclohexane	19781-73-8	664.15	59.859	1,2	33988	C24H48F2	1,1-difluorotetracosane	62127-13-3	644.15	57.893	1,2
33686	C23H46	1-tricosene	18835-32-0	652.15	58.679	1,2	33989	C24H48I2	1,1-diiodotetracosane	66374-96-7	934.36	86.864	2
33687	C23H46	cis-9-tricosene	27519-02-4	612.15	54.757	1,2	33990	C24H48O2	eicosyl butanoate	41927-66-6	806.74	74.015	2
33688	C23H46Br2	1,1-dibromotricosane	62168-40-5	717.15	65.093	1,2	33991	C24H48O2	ethyl docosanoate	5908-87-2	806.74	74.015	2
33689	C23H46Cl2	1,1-dichlorotricosane	62017-25-8	699.15	63.312	1,2	33992	C24H48O2	tetracosanoic acid	557-59-5	806.74	74.015	2
33690	C23H46F2	1,1-difluorotricosane	62127-12-2	635.15	57.009	1,2	33993	C24H48O2	hexadecyl 2-ethylhexanoate	59130-69-7	806.74	74.015	2
33691	C23H46I2	1,1-diiodotricosane	66325-82-4	911.48	84.549	2	33994	C24H48O2	octyl palmitate	29806-73-3	806.74	74.015	2
33692	C23H46N6O13	neomycin B	119-04-0	534.15	47.175	2	33995	C24H48O2Pb	triethyl lead oleate	63916-98-3	551.15	48.820	1,2
33693	C23H46N6O13	neomycin C	66-86-4	534.15	47.175	1,2	33998	C24H49Br	1-bromotetracosane	6946-24-3	701.15	63.510	1,2
33694	C23H46O	12-tricosanone	540-09-0	673.00	60.731	2	33999	C24H49Cl	1-chlorotetracosane	6422-18-0	688.15	62.225	1,2
33695	C23H46O2	eicosyl propanoate	65591-14-2	783.86	71.728	2	34000	C24H49F	1-fluorotetracosane	62126-81-2	658.15	59.268	1,2
33696	C23H46O2	nonadecyl butanoate	84869-42-1	783.86	71.728	2	34001	C24H49I	1-iodotetracosane	62127-55-3	722.15	65.589	1,2
33697	C23H46O2	isopentyl stearate	627-88-3	783.86	71.728	2	34002	C24H50	tetracosane	646-31-1	664.45	59.888	1,2
33698	C23H46O2	pentyl stearate	6382-13-4	783.86	71.728	2	34003	C24H50	2-methyltricosane	1928-30-9	664.45	59.888	2
33699	C23H46O2	methyl docosanoate	929-77-1	783.86	71.728	2	34004	C24H50O	2-decyl-1-tetradecanol	58670-89-6	675.00	60.928	2
33700	C23H46O2	tricosanoic acid	2433-96-7	783.86	71.728	2	34005	C24H50O	tetracosanol	506-51-4	675.00	60.928	1,2
33701	C23H46O2	isostearyl neopentanoate	58958-60-4	783.86	71.728	2	34008	C24H50S	dodecyl sulfide	2469-45-6	680.00	61.421	2
33702	C23H47Br	1-bromotricosane	62108-44-5	691.15	62.521	1,2	34009	C24H51BO3	tri-n-octyl borate	2467-12-1	623.15	55.834	2
33703	C23H47Cl	1-chlorotricosane	62016-77-7	678.15	61.238	1,2	34010	C24H51BO3	tri(2-ethylhexyl) borate	2467-13-2	623.15	55.834	1,2
33704	C23H47F	1-fluorotricosane	62126-80-1	648.15	58.285	1,2	34011	C24H51BO3	tri(2-octyl)borate	24848-81-5	623.15	55.834	2
33705	C23H47I	1-iodotricosane	62127-54-2	712.15	64.598	1,2	34012	C24H51N	tetracosylamine	14130-08-6	702.15	63.609	1,2
33706	C23H48	tricosane	638-67-5	653.35	58.796	1,2	34013	C24H51N	methyltricosylamine	66374-99-0	675.15	60.943	1,2
33707	C23H48	9-hexylheptadecane	55124-79-3	653.35	58.796	2	34014	C24H51N	ethyldocosylamine	66374-98-9	678.15	61.238	1,2
33708	C23H48O	1-tricosanol	3133-01-5	664.00	59.844	2	34015	C24H51N	didodecylamine	3007-31-6	676.15	61.041	1,2
33710	C23H49N	tricosylamine	14130-07-5	691.15	62.521	1,2	34016	C24H51N	dimethyldocosylamine	21542-96-1	673.15	60.745	1,2
33711	C23H49N	methyldocosylamine	66375-05-1	665.15	59.957	1,2	34017	C24H51N	diethyleicosylamine	66374-97-8	646.15	58.089	1,2
33712	C23H49N	ethylheneicosylamine	66375-04-0	668.15	60.253	1,2	34018	C24H51N	trioctylamine	1116-76-3	630.15	56.519	1,2
33713	C23H49N	dimethylheneicosylamine	66375-03-9	663.15	59.760	1,2	34019	C24H51N	triisooctylamine	2757-28-0	668.72	60.309	2
33714	C23H49N	diethylnonadecylamine	66375-02-8	636.15	57.107	1,2	34023	C24H51O4P	trioctyl phosphate	1806-54-8	503.65	44.235	1,2
33717	C24H12	coronene	191-07-1	798.15	73.156	1,2	34024	C24H51O4P	tris(2-ethylhexyl) phosphate	78-42-2	489.15	42.843	1,2
33733	C24H16AsO3	phenarsazine oxide	58-36-6	505.65	44.427	1,2	34041	C24H72O10Si11	tetracosamethylundecasiloxane	107-53-9	595.95	53.175	1,2
33742	C24H16O3	(±)-1b,2a-dihydroxy-3a,4a-epoxy-1,2,3,4-tetr*	78919-11-6	564.65	50.129	1,2	34061	C25H20	tetraphenylmethane	630-76-2	704.15	63.806	1,2
33748	C24H18	5'-phenyl-1,1':3',1"-terphenyl	612-71-5	735.15	66.879	1,2	34084	C25H22ClNO3	fenvalerate	51630-58-1	432.15	37.405	2
33749	C24H18	1,1':2',1":2",1'"-quaterphenyl	641-96-3	693.15	62.719	1,2	34085	C25H22ClNO3	esfenvalerate	66230-04-4	432.15	37.405	1,2
33750	C24H18	1,1':4',1":4",1'"-quaterphenyl	135-70-6	714.15	64.796	2	34092	C25H22OSi	(2-methylphenoxy)triphenylsilane	18858-65-6	465.15	40.546	1,2
33751	C24H18	m-quaterphenyl	1166-18-3	714.15	64.796	2	34111	C25H27ClN2	meclizine	569-65-3	503.15	44.187	1,2
33752	C24H18	9,10-dimethyl-1,2,5,6-dibenzanthracene	35335-07-0	714.15	64.796	2	34128	C25H30N2O4	2-((3-o-methoxyphenylpiperazino)-propyl)-3-m*	69103-91-9	439.75	38.127	1,2
33781	C24H20Ge	tetraphenylgermanium	1048-05-1	673.15	60.745	1,2	34132	C25H31FO8	aristocort diacetate	67-78-7	464.65	40.498	1,2
33796	C24H20O4Si	tetraphenoxysilane	1174-72-7	690.15	62.423	1,2	34134	C25H31N3O	tri(p-dimethylaminophenyl)methanol	467-63-0	480.35	41.999	1,2
33800	C24H20S2Sn	diphenylbis(phenylthio)tin	1103-05-5	417.15	35.984	1,2	34140	C25H34	1,1-diphenyl-1-tridecene	62155-37-7	687.15	62.126	1,2
33802	C24H20Sn	tetraphenylstannane	595-90-4	693.15	62.719	1,2	34150	C25H36	1,1-diphenyltridecane	62155-14-0	668.15	60.253	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
34171	C25H44	nonadecylbenzene	29136-19-4	683.15	61.732	1,2	34367	C26H54	9-butyldocosane	55282-14-9	685.35	61.949	2
34172	C25H44	(3-octylundecyl)benzene	5637-96-7	683.15	61.732	2	34368	C26H54	11-butyldocosane	13475-76-8	685.35	61.949	2
34173	C25H44	9-(4-tolyl)octadecane	4445-08-3	683.15	61.732	2	34369	C26H54	11-(2,2-dimethylpropyl)heneicosane	55282-10-5	685.35	61.949	2
34178	C25H48	1,1-dicyclohexyltridecane	62155-22-0	670.15	60.450	1,2	34370	C26H54	6,11-dipentylhexadecane	15874-03-0	685.35	61.949	2
34179	C25H48	1-pentacosyne	61847-85-6	672.15	60.647	1,2	34371	C26H54	3-ethyl-5-(2-ethylbutyl)octadecane	55282-12-7	685.35	61.949	2
34182	C25H50	eicosylcyclopentane	22331-38-0	683.15	61.732	1,2	34372	C26H54	3-ethyltetracosane	55282-17-2	685.35	61.949	2
34183	C25H50	nonadecylcyclohexane	22349-03-7	685.15	61.929	1,2	34373	C26H54O	1-hexacosanol	506-52-5	697.00	63.099	2
34184	C26H52	heneicosylcyclopentane	6703-82-8	693.15	62.719	1,2	34377	C26H55N	hexacosylamine	14130-10-0	722.15	65.589	1,2
34185	C25H50	1-pentacosene	16980-85-1	674.15	60.844	1,2	34378	C26H55N	methylpentacosylamine	66291-92-7	694.15	62.818	1,2
34186	C25H50	9-octyl-8-heptadecene	24306-18-1	674.15	60.844	2	34379	C26H55N	ethyltetracosylamine	66291-91-6	698.15	63.213	1,2
34187	C25H50Br2	1,1-dibromopentacosane	62168-04-1	736.15	66.978	1,2	34380	C26H55N	ditridecylamine	5910-75-8	695.15	62.917	1,2
34188	C25H50Cl2	1,1-dichloropentacosane	62017-27-0	719.15	65.292	1,2	34381	C26H55N	dimethyltetracosylamine	66291-90-5	693.15	62.719	1,2
34189	C25H50F2	1,1-difluoropentacosane	62127-14-4	654.15	58.875	1,2	34382	C26H55N	diethyldocosylamine	66291-89-2	665.15	59.957	1,2
34190	C25H50I2	1,1-diiodopentacosane	66359-84-0	957.24	89.184	2	34385	C26H58ClNO3Si	dimethyloctadecyl[3-(trimethoxysilyl)propyl]*	27668-52-6	341.15	28.858	1,2
34192	C25H50O2	methyl tetracosanoate	2442-49-1	817.00	75.042	2	34393	C27H20O2	7-benzoyloxymethyl-12-methylbenz(a)anthracene	31012-29-0	536.15	47.368	1,2
34193	C25H51Br	1-bromopentacosane	62108-45-6	710.15	64.400	1,2	34408	C27H26O9	gilvocarcin V	77879-90-4	363.15	30.908	1,2
34194	C25H51Cl	1-chloropentacosane	62016-78-8	698.15	63.213	1,2	34416	C27H29ClN2O	b-(p-chlorophenyl)phenethyl 4-(m-methylbenzy*	23917-55-7	565.15	50.178	2
34195	C25H51F	1-fluoropentacosane	62126-82-3	668.15	60.253	1,2	34417	C27H29ClN2O	b-(p-chlorophenyl)phenethyl 4-phenethylpiper*	23902-89-8	565.15	50.178	1,2
34196	C25H51I	1-iodopentacosane	62127-56-4	731.15	66.482	1,2	34436	C27H32N4O8	pyridomycin	18791-21-4	437.15	37.880	1,2
34197	C25H52	pentacosane	629-99-2	675.05	60.933	1,2	34446	C27H33O4P	tris(isopropylphenyl)phosphate	26967-76-0	518.15	45.631	1,2
34198	C25H52	9-octylheptadecane	7225-64-1	675.05	60.933	2	34464	C27H38	1,1-diphenyl-1-pentadecene	62155-39-9	705.15	63.905	1,2
34199	C25H53N	pentacosylamine	14130-09-7	712.15	64.598	1,2	34465	C27H38N2O4	verapamil	52-53-9	517.65	45.583	1,2
34200	C25H53N	methyltetracosylamine	66359-78-2	684.15	61.830	1,2	34475	C27H40	1,1-diphenylpentadecane	62155-15-1	684.15	61.830	1,2
34201	C25H53N	ethyltricosylamine	66359-77-1	688.15	62.225	1,2	34507	C27H44O3	spirostan-3-ol, (3beta,5alpha,25R)	77-60-1	578.55	51.480	2
34202	C25H53N	dimethyltricosylamine	66359-76-0	683.15	61.732	1,2	34508	C27H44O3	spirostan-3-ol, (3beta,5beta,25R)	126-18-1	578.55	51.480	2
34203	C25H53N	diethylheneicosylamine	66359-75-9	656.15	59.072	1,2	34509	C27H44O3	spirostan-3-ol, (3beta,5beta,25S)	126-19-2	578.55	51.480	2
34204	C25H54ClN	methyltrioctylammonium chloride	5137-55-3	498.15	43.706	1,2	34510	C27H44O3	1a,25-dihydroxycholecalciferol	32222-06-3	578.55	51.480	1,2
34221	C26H20	tetraphenylethylene	632-51-9	693.20	80.599	1,2	34511	C27H44O3	6-hydroperoxy-4-cholesten-3-one	2207-76-3	578.55	51.480	2
34233	C26H22	1,1,1,2-tetraphenylethane	2294-94-2	633.15	56.813	2	34512	C27H44O3	(24R)-hydroxycalcidiol	55721-11-4	578.55	51.480	2
34234	C26H22	1,1,2,2-tetraphenylethane	632-50-8	633.15	56.813	1,2	34526	C27H46O	cholest-4-en-3-ol, (3beta)	517-10-2	610.65	54.611	2
34284	C26H32F2O7	diflorasone diacetate	33564-31-7	508.15	44.668	2	34527	C27H46O	cholest-5-en-3-ol, (3alpha)	474-77-1	610.65	54.611	2
34285	C26H32F2O7	fluocinolide	356-12-7	508.15	44.668	1,2	34528	C27H46O	cholesterol	57-88-5	633.15	56.813	2
34286	C26H32N2O2	alcoid	357-56-2	508.45	44.697	1,2	34529	C27H46O	5a-cholestan-3-one	15600-08-5	610.65	54.611	2
34289	C26H32O2	arotinoid ethyl ester	71441-09-3	509.65	44.812	1,2	34530	C27H46O	5a-cholest-7-en-3b-ol	80-99-9	588.15	52.415	1,2
34292	C26H34O9	aurovertin	11002-90-7	548.65	48.578	1,2	34536	C27H48	heneicosylbenzene	40775-09-5	702.15	63.609	1,2
34295	C26H35N3O5	2-(dimethylamino) reserpilinate	5585-67-1	413.15	35.606	1,2	34537	C27H48	11-phenylheneicosane	6703-80-6	702.15	63.609	2
34296	C26H36	1,1-diphenyl-1-tetradecene	62155-38-8	696.15	63.015	1,2	34538	C27H48	cholestane, (5alpha)	481-21-0	702.15	63.609	2
34299	C26H36O3	depofemin	313-06-4	536.15	47.368	1,2	34539	C27H48	cholestane, (5beta)	481-20-9	702.15	63.609	2
34302	C26H38	1,1-diphenyltetradecane	55268-63-8	676.15	61.041	1,2	34543	C27H50O6	1,2,3-propanetriyl octanoate	538-23-8	506.15	44.475	1,2
34303	C26H38	1,1-di(p-tolyl)dodecane	55268-62-7	676.15	61.041	2	34546	C27H51N9O14	myomycin B	52955-41-6	531.15	46.885	1,2
34306	C26H38O2	4,4'-butylidenebis(3-methyl-6-tert-butylphen*	85-60-9	501.15	43.995	1,2	34547	C27H52	1,1-dicyclohexylpentadecane	62155-23-1	688.15	62.225	1,2
34307	C26H38O3	estradiol-17-caprylate	63042-22-8	500.15	43.899	1,2	34548	C27H52	1-heptacosyne	61847-87-8	692.15	62.620	1,2
34311	C26H39NO3	12,b,13,a-dihydrojervine	21842-58-0	521.15	45.920	1,2	34549	C27H54	docosylcyclopentane	62016-55-1	703.15	63.708	1,2
34316	C26H42O4	diisononyl phthalate	28553-12-0	525.15	46.306	1,2	34550	C27H54	heneicosylcyclohexane	26718-82-1	705.15	63.905	1,2
34317	C26H42O4	dinonyl phthalate	84-76-4	556.15	49.304	1,2	34551	C27H54	(1-decylundecyl)cyclohexane	6703-99-7	700.82	63.477	2
34318	C26H42O4	isodecyl octyl phthalate	1330-96-7	720.15	65.391	1,2	34552	C27H54	1-heptacosene	15306-27-1	694.15	62.818	1,2
34319	C26H42O4	octyl decyl phthalate	119-07-3	512.15	45.053	1,2	34553	C27H54Br2	1,1-dibromoheptacosane	62168-06-3	753.15	68.668	1,2
34319.1	C26H42O4	heptyl undecyl phthalate	65185-88-8	717.00	71.050	1,2	34554	C27H54Cl2	1,1-dichloroheptacosane	62017-29-2	737.15	67.077	1,2
34320	C26H43Cl2NO2	2-(N,N-bis(2-chloroethyl)aminophenyl)acetic *	66232-28-8	539.15	47.658	1,2	34555	C27H54F2	1,1-difluoroheptacosane	62127-16-6	672.15	60.647	1,2
34321	C26H43NO4	N-((3a,5b)-3-hydroxy-24-oxocholan-24-yl)glyc*	474-74-8	492.15	43.130	1,2	34556	C27H54I2	1,1-diiodoheptacosane	66291-84-7	1,003.00	93.837	2
34323	C26H44O8Sn	bis(methoxymaleoyloxy)dioctylstannane	60494-19-1	505.15	44.379	1,2	34557	C27H54O	14-heptacosanone	542-50-7	733.00	66.665	2
34326	C26H46	eicosylbenzene	2398-68-7	693.15	62.719	1,2	34558	C27H54O2	methyl hexacosanoate	5802-82-4	837.00	77.047	2
34327	C26H46	(1-butylhexadecyl)benzene	2400-04-6	693.15	62.719	2	34559	C27H55Br	1-bromoheptacosane	62108-46-7	729.15	66.283	1,2
34328	C26H46	(1-ethyloctadecyl)benzene	2400-02-4	693.15	62.719	2	34560	C27H55Cl	1-chloroheptacosane	62016-79-9	716.15	64.994	1,2
34329	C26H46	(1-methylnonadecyl)benzene	2398-66-5	693.15	62.719	2	34561	C27H55F	1-fluoroheptacosane	62108-81-0	686.15	62.028	1,2
34330	C26H46	(1-octyldodecyl)benzene	2398-65-4	693.15	62.719	2	34562	C27H55I	1-iodoheptacosane	62127-57-5	743.15	67.673	1,2
34331	C26H46	(1-propylheptadecyl)benzene	2400-03-5	693.15	62.719	2	34563	C27H56	heptacosane	593-49-7	695.25	62.926	1,2
34338	C26H50	1,1-dicyclohexyltetradecane	55334-08-2	679.15	61.337	1,2	34566	C27H57N	heptacosylamine	14130-11-1	732.15	66.581	1,2
34339	C26H50	1-hexacosyne	61847-86-7	682.15	61.633	1,2	34567	C27H57N	methylhexacosylamine	66291-81-4	703.15	63.708	1,2
34340	C26H50	7-hexadecylspiro[4.5]decane	2307-06-4	680.65	61.485	2	34568	C27H57N	ethylpentacosylamine	66291-80-3	707.15	64.103	1,2
34341	C26H50O3	2-ethylhexyl epoxystearate	141-38-8	496.75	43.572	1,2	34569	C27H57N	dimethylpentacosylamine	66291-79-0	702.15	63.609	1,2
34348	C26H52	eicosylcyclohexane	4443-55-4	695.15	62.917	1,2	34570	C27H57N	diethyltricosylamine	66291-86-9	674.15	60.844	1,2
34349	C26H52	1-hexacosene	18835-33-1	684.15	61.830	1,2	34571	C27H57N	trinonylamine	2044-22-6	655.15	58.973	1,2
34350	C26H52	3-cyclohexyleicosane	4443-57-6	689.65	62.373	2	34575	C27H60	tripropylene	13987-01-4	429.15	37.121	1,2
34351	C26H52	9-cyclohexyleicosane	4443-61-2	689.65	62.373	2	34576	C28H4N2O9	antimycin A	1397-94-0	520.45	45.852	2
34352	C26H52Br2	1,1-dibromohexacosane	62168-05-2	744.15	67.773	1,2	34577	C28H12Cl2N2O4	3,3'-dichloroindanthrone	130-20-1	533.05	47.069	1,2
34353	C26H52Cl2	1,1-dichlorohexacosane	62017-28-1	728.15	66.184	1,2	34586	C28H17N3O4	1,1'-iminobis(4-aminoanthraquinone)	128-87-0	516.65	45.486	1,2
34354	C26H52F2	1,1-difluorohexacosane	62127-15-5	663.15	59.760	1,2	34588	C28H18	5-styryl-3,4-benzopyrene	63019-73-8	417.55	36.022	1,2
34355	C26H52I2	1,1-diiodohexacosane	66291-94-9	980.12	91.508	2	34594	C28H20O	tetraphenylfuran	1056-77-5	493.15	43.226	1,2
34356	C26H52O2	hexacosanoic acid	506-46-7	832.74	76.620	2	34644	C28H35FO7	cyclocort	51022-69-6	455.25	39.602	1,2
34357	C26H52O2	hexadecyl neodecanoate	67749-11-5	827.00	76.044	2	34645	C28H36O3	tingenone	50802-21-6	443.65	38.497	1,2
34358	C26H52O2	octyl stearate	22047-49-0	827.00	76.044	2	34646	C28H36O4	9-myristoyl-1,7,8-anthracenetriol	64817-78-3	449.15	39.021	1,2
34359	C26H52O6	tetraethylene glycol monostearate	106-07-0	601.15	53.683	1,2	34647	C28H36O11	bruceantin	41451-75-6	446.65	38.783	1,2
34360	C26H53Br	1-bromohexacosane	4276-51-1	720.15	65.391	1,2	34648	C28H37ClO7	alclometasone dipropionate	66734-13-2	456.95	39.764	1,2
34361	C26H53Cl	1-chlorohexacosane	56134-53-3	707.15	64.103	1,2	34649	C28H37ClO7	aldecin	5534-09-8	454.65	39.544	1,2
34362	C26H53F	1-fluorohexacosane	62126-83-4	677.15	61.140	1,2	34652	C28H37FO7	dexamethasone 17,21-dipropionate	55541-30-5	443.65	38.497	1,2
34363	C26H53I	1-iodohexacosane	52644-81-2	740.15	67.375	1,2	34654	C28H38O4	andordrin dipropionate	56470-64-5	471.05	41.110	1,2
34364	C26H54	hexacosane	630-01-3	685.35	61.949	1,2	34655	C28H38O7	acepreval	72064-79-0	469.15	40.928	1,2
34365	C26H54	5-butyldocosane	55282-16-1	685.35	61.949	2	34656	C28H38O7	daturalactone	41093-93-0	469.15	40.928	2
34366	C26H54	7-butyldocosane	55282-15-0	685.35	61.949	2	34661	C28H38N4O8	pactamycin	23668-11-3	478.15	41.789	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
34663	C28H40	1,1-diphenyl-1-hexadecene	13456-25-2	713.15	64.697	1,2	34934	C30H51N7O7	septacidin	62362-59-8	467.65	40.785	1,2
34672	C28H41NO3	N-methyljervine	64552-25-6	504.15	44.283	1,2	34936	C30H54	tetracosylbenzene	61828-05-5	727.15	66.085	1,2
34677	C28H42	1,1-diphenylhexadecane	13456-23-0	691.15	62.521	1,2	34938	C30H54O9	octyl phenol; EO(20)	9036-19-5	450.15	39.116	1,2
34688	C28H44O4	3-(1,3-benzodioxol-5-yl)-1-(1,1-dimethylethy*	58344-21-1	544.15	48.142	1,2	34940	C30H58	1-triacontyne	61847-90-3	719.15	65.292	1,2
34691	C28H46O4	diisodecyl phthalate	26761-40-0	723.00	71.205	1,2	34946	C30H60	pentacosylcyclopentane	62016-74-4	729.15	66.283	1,2
34692	C28H46O4	didecyl phthalate	84-77-5	723.00	65.673	2	34947	C30H60	tetracosylcyclohexane	61828-09-9	731.15	66.482	1,2
34693	C28H46O4	1,3-benzenedicarboxylic acid, diisodecyl est*	52284-35-2	723.00	65.673	2	34948	C30H60	1-triacontene	18435-53-5	721.15	65.490	1,2
34704	C28H50	docosylbenzene	5634-22-0	711.15	64.499	1,2	34949	C30H60Br2	1,1-dibromotriacontane	62168-09-6	777.15	71.059	1,2
34705	C28H50	ergostane, (5alpha)	511-20-6	711.15	64.499	2	34950	C30H60Cl2	1,1-dichlorotriacontane	62017-32-7	762.15	69.564	1,2
34706	C28H50	ergostane, (5beta)	511-21-7	711.15	64.499	2	34951	C30H60F2	1,1-difluorotriacontane	62127-19-9	696.15	63.015	1,2
34712	C28H54	1,1-dicyclohexylhexadecane	13287-09-7	697.15	63.114	1,2	34952	C30H60I2	1,1-diiodotriacontane	66213-98-7	1,071.64	100.848	2
34713	C28H54	1-octacosyne	61847-88-9	701.15	63.510	1,2	34954	C30H60O2	triacontanoic acid	506-50-3	884.74	81.850	2
34716	C28H56	tricosylcyclopentane	62016-56-2	712.15	64.598	1,2	34957	C30H61Br	1-bromotriacontane	4209-22-7	754.15	68.767	1,2
34717	C28H56	docosylcyclohexane	61828-07-7	714.15	64.796	1,2	34958	C30H61Cl	1-chlorotriacontane	62016-82-4	741.15	67.475	1,2
34718	C28H56	1-octacosene	18835-34-2	703.15	63.708	1,2	34959	C30H61F	1-fluorotriacontane	62108-84-3	711.15	64.499	1,2
34719	C28H56Br2	1,1-dibromooctacosane	62168-07-4	761.15	69.464	1,2	34960	C30H61I	1-iodotriacontane	62154-82-9	774.15	70.759	1,2
34720	C28H56Cl2	1,1-dichlorooctacosane	62017-30-5	746.15	67.972	1,2	34961	C30H62	triacontane	638-68-6	722.85	65.658	1,2
34721	C28H56F2	1,1-difluorooctacosane	62127-17-7	680.15	61.436	1,2	34962	C30H62	2,6,10,15,19,23-hexamethyltetracosane	111-01-3	653.00	58.762	2
34722	C28H56I2	1,1-diiodooctacosane	66291-74-5	1,025.88	96.170	2	34963	C30H62	9-octyldocosane	55319-83-0	673.00	60.731	2
34723	C28H56O2	octacosanoic acid	506-48-9	858.74	79.232	2	34964	C30H62O	1-triacontanol	593-50-0	741.00	67.460	2
34724	C28H56O4S2Sn	bis(isooctyloxycarbonylmethylthio)dibutyl st*	25168-24-5	571.15	50.761	1,2	34965	C30H63N	triacontylamine	66214-00-4	759.15	69.265	1,2
34725	C28H56O4S2Sn	dibutyldi(2-ethylhexyloxycarbonylmethylthio)*	10584-98-2	571.15	50.761	2	34966	C30H63N	methylnonacosylamine	66214-04-8	728.15	66.184	1,2
34726	C28H56O4S2Sn	di-n-octyltin bis(butyl mercaptoacetate)	27107-88-6	571.15	50.761	2	34967	C30H63N	ethyloctacosylamine	66214-03-7	733.15	66.680	1,2
34728	C28H57Br	1-bromooctacosane	16331-21-8	737.15	67.077	1,2	34968	C30H63N	dipentadecylamine	35551-81-6	730.15	66.383	1,2
34729	C28H57Cl	1-chlorooctacosane	62016-80-2	725.15	65.887	1,2	34969	C30H63N	dimethyloctacosylamine	66214-02-6	727.15	66.085	1,2
34730	C28H57F	1-fluorooctacosane	62108-82-1	695.15	62.917	1,2	34970	C30H63N	diethylhexacosylamine	66214-01-5	700.15	63.411	1,2
34731	C28H57I	1-iodooctacosane	62154-80-7	758.15	69.165	1,2	34971	C30H63N	tri-N-decylamine	1070-01-5	679.15	61.337	1,2
34732	C28H58	octacosane	630-02-4	704.75	63.866	1,2	34997	C31H38NO12	3'-morpholino-3'-deaminodaunorubicin	80790-68-7	498.15	43.706	2
34733	C28H58	2,2,4,10,12,12-hexamethyl-7-(3,5,5-trimethyl*	3035-75-4	704.75	63.866	2	35019	C31H56	pentacosylbenzene	61828-06-6	735.15	66.879	1,2
34734	C28H58	7-hexyldocosane	55373-86-9	704.75	63.866	2	35020	C31H56	13-phenylpentacosane	6006-90-2	735.15	66.879	2
34735	C28H58	9-octyleicosane	13475-77-9	704.75	63.866	2	35023	C31H60	1-hentriacontyne	61847-91-4	728.15	66.184	1,2
34737	C28H58O	1-octacosanol	557-61-9	719.00	65.277	2	35025	C31H62	hexacosylcyclopentane	62016-58-4	737.15	67.077	1,2
34738	C28H59N	octacosylamine	14130-12-2	741.15	67.475	1,2	35026	C31H62	pentacosylcyclohexane	61828-10-2	739.15	67.276	1,2
34739	C28H59N	methylheptacosylamine	66291-78-9	711.15	64.499	1,2	35027	C31H62	1-hentriacontene	18435-54-6	730.15	66.383	1,2
34740	C28H59N	ethylhexacosylamine	66291-77-8	716.15	64.994	1,2	35028	C31H62	13-cyclohexylpentacosane	6697-15-0	735.48	66.912	2
34741	C28H59N	ditetradecylamine	17361-44-3	713.15	64.697	1,2	35029	C31H62Br2	1,1-dibromohentriacontane	62168-10-9	785.15	71.857	1,2
34742	C28H59N	dimethylhexacosylamine	66291-76-7	711.15	64.499	1,2	35030	C31H62Cl2	1,1-dichlorohentriacontane	62017-33-8	770.15	70.361	1,2
34743	C28H59N	diethyltetracosylamine	66291-75-6	683.15	61.732	1,2	35031	C31H62F2	1,1-difluorohentriacontane	62127-20-2	704.15	63.806	1,2
34745	C28H60ClN	tetraheptylammonium chloride	10247-90-2	448.15	38.925	1,2	35032	C31H62I2	1,1-diiodohentriacontane	66214-07-1	1,094.52	103.193	2
34754	C29H24O6	5,5'-methylenebis(2-hydroxy-4-methoxybenzoph*	68716-15-4	499.65	43.850	1,2	35033	C31H62O	16-hentriacontanone	502-73-8	813.00	74.641	2
34790	C29H41NO4	temgesic	52485-79-7	648.15	58.285	1,2	35034	C31H63Br	1-bromohentriacontane	62108-48-9	761.15	69.464	1,2
34796	C29H43N5O3	1,3-bis(2-piperidinoethyl)-5-phenyl-5-piperi*	1639-79-8	508.65	44.716	1,2	35035	C31H63Cl	1-chlorohentriacontane	62016-83-5	749.15	68.270	1,2
34798	C29H44O10	convallatoxol	3253-62-1	521.15	45.920	1,2	35036	C31H63F	1-fluorohentriacontane	62108-85-4	719.15	65.292	1,2
34801	C29H46O2	7-dehydrocholesterol acetate	1059-86-5	510.15	44.860	1,2	35037	C31H63I	1-iodohentriacontane	57094-91-4	782.15	71.558	1,2
34804	C29H47N016	disnogalamycinic acid	64267-45-4	483.15	42.268	1,2	35039	C31H64	hentriacontane	630-04-6	731.15	66.482	1,2
34812	C29H52	tricosylbenzene	61828-04-4	719.15	65.292	1,2	35040	C31H64	11-decylheneicosane	55320-06-4	731.15	66.482	2
34814	C29H56	1-nonacosyne	61847-89-0	710.15	64.400	1,2	35041	C31H65N	hentriacontylamine	66214-08-2	768.15	70.161	1,2
34815	C29H58	tetracosylcyclopentane	62016-57-3	720.15	65.391	1,2	35042	C31H65N	methyltriacontylamine	66214-12-8	736.15	66.978	1,2
34816	C29H58	tricosylcyclohexane	61828-08-8	722.15	65.589	1,2	35043	C31H65N	ethylnonacosylamine	66214-11-7	741.15	67.475	1,2
34817	C29H58	1-nonacosene	18835-35-3	713.15	64.697	1,2	35044	C31H65N	dimethylnonacosylamine	66214-10-6	735.15	66.879	1,2
34818	C29H58Br2	1,1-dibrononanocosane	62168-08-5	769.15	70.261	1,2	35045	C31H65N	diethylheptacosylamine	66214-09-3	707.15	64.103	1,2
34819	C29H58Cl2	1,1-dichlorononanocosane	62017-31-6	754.15	68.767	1,2	35082	C32H42N10O16S4	4,4'-bis((4-(2-methoxyethoxy)-6-(N-methyl-N-*	60397-73-1	432.15	37.405	1,2
34820	C29H58F2	1,1-difluorononanocosane	62127-18-8	688.15	62.225	1,2	35087	C32H45NO10	picraconitine	466-24-0	448.90	38.997	1,2
34821	C29H58I2	1,1-diiodononacosane	66213-91-0	1,048.76	98.507	2	35088	C32H45O8	12-O-acetyl-phorbol-13-deca-(D-2)-enoate	---	456.15	39.687	2
34822	C29H58O4Sn2	bis(tributyltin) itaconate	25711-26-6	510.65	44.908	1,2	35089	C32H45O8	phorbol-12,13-dihexanoate	37558-17-1	456.15	39.687	1,2
34823	C29H59Br	1-bromononacosane	62108-47-8	746.15	67.972	1,2	35091	C32H46N8O6S2	bisibutiamine	3286-46-2	450.15	39.116	1,2
34824	C29H59Cl	1-chlorononacosane	62016-81-3	733.15	66.680	1,2	35092	C32H46O8	cucurbitacin B	6199-67-3	450.85	39.182	1,2
34825	C29H59F	1-fluorononacosane	62108-83-2	703.15	63.708	1,2	35094	C32H48O9	oleandrin	465-16-7	389.15	33.344	1,2
34826	C29H59I	1-iodononacosane	62154-81-8	766.15	69.962	1,2	35096	C32H49O6	9a-dodecenoate	56530-48-4	428.15	37.026	1,2
34827	C29H60	nonacosane	630-03-5	713.95	64.776	1,2	35098	C32H50O6	12-deoxy-phorbol-13-dodecanoate	56530-47-3	458.15	39.878	1,2
34828	C29H60O	1-nonacosanol	6624-76-6	730.00	66.368	2	35105	C32H58	hexacosylbenzene	13024-80-1	743.15	67.673	1,2
34829	C29H61N	nonacosylamine	66213-93-2	750.15	68.369	1,2	35108	C32H62	1-dotriacontyne	61847-92-5	736.15	66.978	1,2
34830	C29H61N	methyloctacosylamine	66213-97-6	720.15	65.391	1,2	35111	C32H64	heptacosylcyclopentane	61827-90-5	745.15	67.872	1,2
34831	C29H61N	ethylheptacosylamine	66213-96-5	725.15	65.887	1,2	35112	C32H64	hexacosylcyclohexane	61828-11-3	747.15	68.071	1,2
34832	C29H61N	dimethylheptacosylamine	66213-95-4	719.15	65.292	1,2	35113	C32H64	1-dotriacontene	18435-55-7	738.15	67.177	1,2
34833	C29H61N	diethylpentacosylamine	66213-94-3	691.15	62.521	1,2	35114	C32H64Br2	1,1-dibromodotriacontane	62168-11-0	792.15	72.556	1,2
34834	C30H11Na3O14S3	sulfo-3-naphthalenefurane	---	503.15	44.187	1,2	35115	C32H64Cl2	1,1-dichlorodotriacontane	62017-34-9	778.15	71.158	1,2
34843	C30H18O4	2,2'-dimethyl-1,1'-bianthraquinone	81-26-5	503.65	44.235	1,2	35116	C32H64F2	1,1-difluorodotriacontane	62127-21-3	711.15	64.499	1,2
34846	C30H20O10	rugulosin	23537-16-8	519.15	45.727	1,2	35117	C32H64I2	1,1-diiododotriacontane	66214-13-9	1,117.40	105.543	2
34850	C30H23BrO4	bromadialone	28772-56-7	488.15	42.747	1,2	35120	C32H64O4Sn	dibutyltin dilaurate	77-58-7	478.15	41.789	1,2
34856	C30H24N4O10	tetranicotylfructose	12041-87-1	488.65	42.795	1,2	35122	C32H65Br	1-bromodotriacontane	7596-92-1	769.15	70.261	1,2
34857	C30H24O4	3,6,11,14-tetramethoxydibenzo(g,p)chrysene	60223-52-1	506.15	44.475	1,2	35123	C32H65Cl	1-chlorodotriacontane	62016-84-6	757.15	69.066	1,2
34861	C30H26O6	viriditoxin	35483-50-2	500.65	43.947	1,2	35124	C32H65F	1-fluorodotriacontane	62108-86-5	727.15	66.085	1,2
34864	C30H27NO2	2-phenyl-3-p-(b-pyrrolidinoethoxy)phenyl-(2:*	24365-61-5	558.15	49.498	1,2	35125	C32H65I	1-iododotriacontane	62154-83-0	789.15	72.256	1,2
34871	C30H30	9,10-di-n-butyl-1,2,5,6-dibenzanthracene	63041-48-5	492.15	43.130	1,2	35126	C32H66	dotriacontane	544-85-4	740.15	67.375	1,2
34879	C30H31NO10	viridicatumtoxin	39277-41-3	513.65	45.197	1,2	35127	C32H66	3-methylhentriacontane	4981-99-1	740.15	67.375	2
34880	C30H32N4O8	octylphenoxypolyethoxyethanol	9002-93-1	543.15	48.045	1,2	35129	C32H67N	dotriacontylamine	66214-14-0	776.15	70.959	1,2
34916	C30H46O4	gypsogenin	639-14-5	522.15	46.016	1,2	35130	C32H67N	methylhentriacontylamine	66214-18-4	743.15	67.673	1,2
34922.1	C30H48O6	tri-n-heptyl trimellitate	1528-48-9	815.00	53.377	1,2	35131	C32H67N	ethyltriacontylamine	66214-17-3	749.15	68.270	1,2
34933	C30H51Cl2NO2	2-(N,N-bis(2-chloroethyl)aminophenyl)acetic *	66232-30-2	488.65	42.795	1,2	35132	C32H67N	dihexadecylamine	16724-63-3	746.15	67.972	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
35133	C32H67N	dimethyltriacontylamine	66214-16-2	743.15	67.673	1,2	35420	C36H72	1-hexatriacontene	61868-14-2	769.15	70.261	1,2
35134	C32H67N	diethyloctacosylamine	66214-15-1	714.15	64.796	1,2	35421	C36H72Br2	1,1-dibromohexatriacontane	62168-15-4	819.15	75.257	1,2
35136	C32H68O4Si	2-ethyl-1-hexanol silicate	115-82-2	633.15	56.813	1,2	35422	C36H72Cl2	1,1-dichlorohexatriacontane	62017-38-3	806.15	73.956	1,2
35147	C33H37NO	3-(bis(3,3-diphenylpropyl)amino)propane-1-ol	---	534.15	47.175	1,2	35424	C36H72F2	1,1-difluorohexatriacontane	62127-25-7	739.15	67.276	1,2
35150	C33H37N5O5	dihydroergotamine	511-12-6	533.15	47.078	1,2	35425	C36H72I2	1,1-diiodohexatriacontane	66576-72-5	1,208.92	114.979	2
35152	C33H38O8	a-2-guttiferin	11048-92-3	489.65	42.891	1,2	35430	C36H73Br	1-bromohexatriacontane	7461-19-0	797.15	73.056	1,2
35167	C33H54O6	trioctyl trimellitate	3319-31-1	687.15	62.126	1,2	35431	C36H73Cl	1-chlorohexatriacontane	62016-88-0	785.15	71.857	1,2
35178	C33H60	heptacosylbenzene	61828-25-9	750.15	68.369	1,2	35432	C36H73F	1-fluorohexatriacontane	62108-90-1	755.15	68.867	1,2
35179	C33H64	1-tritriacontyne	61847-93-6	744.15	67.773	1,2	35433	C36H73I	1-iodohexatriacontane	62154-87-4	817.15	75.057	1,2
35180	C33H66	octacosylcyclopentane	61827-91-6	753.15	68.668	1,2	35434	C36H74	hexatriacontane	630-06-8	770.15	70.361	1,2
35181	C33H66	heptacosylcyclohexane	61828-12-4	754.15	68.767	1,2	35435	C36H74	13-undecylpentacosane	55517-89-0	770.15	70.361	2
35182	C33H66	1-tritriacontene	61868-11-9	746.15	67.972	1,2	35437	C36H75N	hexatriacontylamine	45313-33-5	806.15	73.956	1,2
35183	C33H66Br2	1,1-dibromotritriacontane	62168-12-1	799.15	73.256	1,2	35438	C36H75N	methylpentatriacontylamine	66577-27-3	771.15	70.460	1,2
35184	C33H66Cl2	1,1-dichlorotritriacontane	62017-35-0	785.15	71.857	1,2	35439	C36H75N	ethyltetratriacontylamine	66577-26-2	778.15	71.158	1,2
35185	C33H66F2	1,1-difluorotritriacontane	62127-22-4	718.15	65.193	1,2	35440	C36H75N	dioctadecylamine	112-99-2	774.15	70.759	1,2
35186	C33H66I2	1,1-diiodotritriacontane	66214-19-5	1,140.28	107.896	2	35441	C36H75N	dimethyltetratriacontylamine	66577-25-1	771.15	70.460	1,2
35187	C33H67Br	1-bromotritriacontane	62108-49-0	776.15	70.959	1,2	35442	C36H75N	diethyldotriacontylamine	66577-24-0	743.15	67.673	1,2
35188	C33H67Cl	1-chlorotritriacontane	62016-85-7	764.15	69.763	1,2	35443	C36H75N	tridodecylamine	102-87-4	721.15	65.490	1,2
35189	C33H67F	1-fluorotritriacontane	62108-87-6	734.15	66.780	1,2	35445	C36H78B2O6S6Sn3	tris(dibutylbis(hydroxyethylthio)tin) bis(bo*	34333-07-8	485.15	42.459	1,2
35190	C33H67I	1-iodotritriacontane	62154-84-1	797.15	73.056	1,2	35458	C37H42N2O7	bendacort	53716-43-1	449.65	39.068	1,2
35191	C33H68	tritriacontane	630-05-7	748.15	68.170	1,2	35467	C37H52O3	4,4',4"-(1-methyl-1-propanyl-3-ylidene)tris*	1843-03-4	503.15	44.187	1,2
35192	C33H69N	tritriacontylamine	---	784.15	71.757	1,2	35468	C37H53N3O10	delsemine	6887-42-9	498.65	43.754	1,2
35193	C33H69N	methyldotriacontylamine	66214-25-3	751.15	68.469	1,2	35476	C37H68	hentriacontylbenzene	61828-28-2	777.15	71.059	1,2
35194	C33H69N	ethylhentriacontylamine	66214-24-2	756.15	68.966	1,2	35477	C37H72	1-heptatriacontyne	---	773.15	70.660	1,2
35195	C33H69N	dimethylhentriacontylamine	66214-23-1	750.15	68.369	1,2	35478	C37H74	dotriacontylcyclopentane	---	780.15	71.358	1,2
35196	C33H69N	diethylnonacosylamine	66214-22-0	722.15	65.589	1,2	35479	C37H74	hentriacontylcyclohexane	61828-16-8	781.15	71.458	1,2
35197	C33H69N	triundecylamine	42910-16-7	701.15	63.510	1,2	35480	C37H74	1-heptatriacontene	61868-15-3	776.15	70.959	1,2
35225	C34H36F3NO13	trifluoroacetyladriamycin-14-valerate	56124-62-0	477.15	41.693	1,2	35481	C37H74Br2	1,1-dibromoheptatriacontane	62168-16-5	826.15	75.959	1,2
35232	C34H43NO13	baumycin A1	64314-28-9	477.15	41.693	2	35482	C37H74Cl2	1,1-dichloroheptatriacontane	62017-39-4	813.15	74.656	1,2
35233	C34H43NO13	baumycin A2	64253-71-0	477.15	41.693	1,2	35483	C37H74F2	1,1-difluoroheptatriacontane	62127-26-8	745.15	67.872	1,2
35246	C34H52O7	12-deoxy-phorbol-20-acetate-13-dodecanoate	56530-49-5	506.15	44.475	1,2	35484	C37H74I2	1,1-diiodoheptatriacontane	66577-05-7	1,231.80	117.347	2
35257	C34H62	octacosylbenzene	61828-26-0	757.15	69.066	1,2	35486	C37H75Br	1-bromoheptatriacontane	62108-52-5	804.15	73.756	1,2
35260	C34H66	1-tetratriacontyne	26185-83-1	751.15	68.469	1,2	35487	C37H75Cl	1-chloroheptatriacontane	62016-89-1	792.15	72.556	1,2
35263	C34H67I	1-iodotetratriacontane	62154-85-2	804.15	73.756	1,2	35488	C37H75F	1-fluoroheptatriacontane	62108-91-2	762.15	69.564	1,2
35265	C34H68	nonacosylcyclopentane	61827-92-7	760.15	69.364	1,2	35489	C37H75I	1-iodoheptatriacontane	62154-88-5	824.15	75.758	1,2
35266	C34H68	octacosylcyclohexane	61828-13-5	761.15	69.464	1,2	35490	C37H76	heptatriacontane	7194-84-5	777.15	71.059	1,2
35267	C34H68	1-tetratriacontene	61868-12-0	754.15	68.767	1,2	35491	C37H77N	heptatriacontylamine	66577-08-0	813.15	74.656	1,2
35268	C34H68Br2	1,1-dibromotetratriacontane	62168-13-2	806.15	73.956	1,2	35492	C37H77N	methylhexatriacontylamine	66577-12-6	779.15	71.258	1,2
35269	C34H68Cl2	1,1-dichlorotetratriacontane	62017-36-1	792.15	72.556	1,2	35493	C37H77N	ethylpentatriacontylamine	66577-11-5	784.15	71.757	1,2
35270	C34H68F2	1,1-difluorotetratriacontane	62127-23-5	725.15	65.887	1,2	35494	C37H77N	dimethylpentatriacontylamine	66577-10-4	778.15	71.158	1,2
35271	C34H68I2	1,1-diiodotetratriacontane	66214-26-4	1,163.16	110.253	2	35495	C37H77N	diethyltritriacontylamine	66577-09-1	750.15	68.369	1,2
35274	C34H69Br	1-bromotetratriacontane	62108-50-3	783.15	71.657	1,2	35496	C37H77N	N-methyldioctadecylamine	4088-22-6	780.95	71.438	2
35275	C34H69Cl	1-chlorotetratriacontane	62016-86-8	771.15	70.460	1,2	35502	C38H30N2NiP2S2	bis(triphenyl phosphine)nickel dithiocyanate	15709-62-3	470.15	41.024	1,2
35276	C34H69F	1-fluorotetratriacontane	62108-88-7	741.15	67.475	1,2	35513	C38H70	dotriacontylbenzene	61828-29-3	783.15	71.657	1,2
35277	C34H70	tetratriacontane	14167-59-0	755.15	68.867	1,2	35514	C38H74	1-octatriacontyne	---	780.15	71.358	1,2
35278	C34H70	11-decyltetracosane	55429-84-0	755.15	68.867	2	35516	C38H74O6S3Sn	octyltris(2-ethylhexyloxycarbonylmethylthio)*	27107-89-7	485.15	42.459	1,2
35280	C34H71N	tetratriacontylamine	66214-29-7	791.15	72.456	1,2	35518	C38H76	tritriacontylcyclopentane	---	787.15	72.057	1,2
35281	C34H71N	methyltritriacontylamine	66214-33-3	758.15	69.165	1,2	35519	C38H76	dotriacontylcyclohexane	61828-17-9	788.15	72.157	1,2
35282	C34H71N	ethyldotriacontylamine	66214-32-2	764.15	69.763	1,2	35520	C38H76	1-octatriacontene	61868-16-4	783.15	71.657	1,2
35283	C34H71N	diheptadecylamine	16130-73-7	760.15	69.364	1,2	35521	C38H76Br2	1,1-dibromooctatriacontane	62168-17-6	832.15	76.561	1,2
35284	C34H71N	dimethyldotriacontylamine	66214-31-1	758.15	69.165	1,2	35522	C38H76Cl2	1,1-dichlorooctatriacontane	62017-40-7	819.15	75.257	1,2
35285	C34H71N	diethyltriacontylamine	66214-30-0	730.15	66.383	1,2	35523	C38H76F2	1,1-difluorooctatriacontane	62126-87-8	751.15	68.469	1,2
35312	C35H64	nonacosylbenzene	61828-27-1	764.15	69.763	1,2	35524	C38H76I2	1,1-diiodooctatriacontane	66577-13-7	1,254.68	119.718	2
35313	C35H68	1-pentatriacontyne	61847-94-7	759.15	69.265	1,2	35525	C38H76N2O2	N,N'-ethylene bis(stearamide)	110-30-5	533.15	47.078	1,2
35314	C35H70	triacontylcyclopentane	61827-93-8	767.15	70.062	1,2	35526	C38H77Br	1-bromooctatriacontane	62108-53-6	810.15	74.356	1,2
35315	C35H70	nonacosylcyclohexane	61828-14-6	768.15	70.161	1,2	35527	C38H77Cl	1-chlorooctatriacontane	62016-90-4	798.15	73.156	1,2
35316	C35H70	1-pentatriacontene	61868-13-1	762.15	69.564	1,2	35528	C38H77F	1-fluorooctatriacontane	62108-92-3	768.15	70.161	1,2
35317	C35H70Br2	1,1-dibromopentatriacontane	---	813.15	74.656	1,2	35529	C38H77I	1-iodooctatriacontane	62154-89-6	830.15	76.360	1,2
35318	C35H70Cl2	1,1-dichloropentatriacontane	62017-37-2	799.15	73.256	1,2	35530	C38H78	octatriacontane	7194-85-6	784.15	71.757	1,2
35319	C35H70F2	1,1-difluoropentatriacontane	62127-24-6	732.15	66.581	1,2	35531	C38H78	13-dodecylhexacosane	55517-73-2	784.15	71.757	2
35320	C35H70I2	1,1-diiodopentatriacontane	66576-85-0	1,186.04	112.614	2	35532	C38H79N	octatriacontylamine	66576-94-1	820.15	75.358	1,2
35321	C35H70O	18-pentatriacontanone	504-53-0	893.00	82.683	2	35533	C38H79N	methylheptatriacontylamine	66576-99-6	784.15	71.757	1,2
35322	C35H71Br	1-bromopentatriacontane	62108-51-4	790.15	72.356	1,2	35534	C38H79N	ethylhexatriacontylamine	66576-98-5	791.15	72.456	1,2
35323	C35H71Cl	1-chloropentatriacontane	---	778.15	71.158	1,2	35535	C38H79N	dinonadecylamine	66576-97-4	787.15	72.057	1,2
35324	C35H71F	1-fluoropentatriacontane	62108-89-8	748.15	68.170	1,2	35536	C38H79N	dimethylhexatriacontylamine	66576-96-3	784.15	71.757	1,2
35325	C35H71I	1-iodopentatriacontane	62154-86-3	811.15	74.456	1,2	35537	C38H79N	diethyltetratriacontylamine	66576-95-2	756.15	68.966	1,2
35326	C35H72	pentatriacontane	630-07-9	763.15	69.663	1,2	35538	C38H80BrN	dimethyldioctadecylammonium bromide	3700-67-2	432.65	37.453	1,2
35327	C35H73N	pentatriacontylamine	66576-87-2	799.15	73.256	1,2	35543	C39H53N3O9	1-(2-(diethylamino)ethyl)reserpine	53-18-9	492.65	43.178	1,2
35328	C35H73N	methyltetratriacontylamine	66576-91-8	765.15	69.862	1,2	35547	C39H54N10O12S	g-amanitine	13567-11-8	474.15	41.406	1,2
35329	C35H73N	ethyltritriacontylamine	66576-90-7	771.15	70.460	1,2	35553	C39H72	tritriacontylbenzene	61828-30-6	789.15	72.256	1,2
35330	C35H73N	dimethyltritriacontylamine	66576-89-4	765.15	69.862	1,2	35553.1	C39H72O5	glycerol dioleate	2465-32-9	920.00	106.998	1,2
35331	C35H73N	diethylhentriacontylamine	66576-88-3	737.15	67.077	1,2	35555	C39H76	1-nonatriacontyne	---	786.15	71.957	1,2
35380	C36H54O7	phorbol-9-myristate-9a-acetate-3-aldehyde	---	427.65	36.978	1,2	35556	C39H78	tetratriacontylcyclopentane	---	793.15	72.656	1,2
35383	C36H56O14	Digitalum verum	752-61-4	468.75	40.890	1,2	35557	C39H78	tritriacontylcyclohexane	55517-75-4	794.15	72.756	1,2
35395	C36H62O2	cholesteryl pelargonate	1182-66-7	633.15	56.813	1,2	35558	C39H78	1-nonatriacontene	61868-17-5	790.15	72.356	1,2
35400	C36H66	triacontylbenzene	50715-02-1	771.15	70.460	1,2	35559	C39H78Br2	1,1-dibrononatriacontane	62168-18-7	838.15	77.163	1,2
35402	C36H66HgO4	mercury oleate	1191-80-6	629.75	56.480	1,2	35560	C39H78Cl2	1,1-dichlorononatriacontane	62017-41-8	825.15	75.859	1,2
35408	C36H70	1-hexatriacontyne	61847-95-8	766.15	69.962	1,2	35561	C39H78F2	1,1-difluorononatriacontane	62126-88-9	758.15	69.165	1,2
35418	C36H72	hentriacontylcyclopentane	61827-94-9	774.15	70.759	1,2	35562	C39H78I2	1,1-diiodononatriacontane	66576-58-7	1,277.56	122.093	2
35419	C36H72	triacontylcyclohexane	61828-15-7	775.15	70.859	1,2	35563	C39H79Br	1-bromononatriacontane	62108-54-7	816.15	74.957	1,2

Table 9 Enthalpy of Vaporization at Boiling Point - Organic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
35564	C39H79Cl	1-chlorononatriacontane	62016-91-5	804.15	73.756	1,2	35817	C48H99N	trihexadecylamine	28947-77-5	789.15	72.256	1,2
35565	C39H79F	1-fluorononatriacontane	62108-93-4	775.15	70.859	1,2	35820	C49H76O19	lanatoside A	17575-20-1	447.15	38.830	1,2
35566	C39H79I	1-iodononatriacontane	62154-90-9	836.15	76.962	1,2	35823	C49H100	n-nonatetracontane	7098-27-3	847.15	78.067	1,2
35567	C39H80	nonatriacontane	7194-86-7	791.15	72.456	1,2	35831	C50H102	n-pentacontane	6596-40-3	852.15	78.569	1,2
35568	C39H81N	nonatriacontylamine	66576-42-9	827.15	76.059	1,2	35837	C51H98O6	glycerol tripalmitate	555-44-2	588.15	52.415	1,2
35569	C39H81N	methyloctatriacontylamine	66576-46-3	790.15	72.356	1,2	35838	C51H104	n-henpentacontane	7667-76-7	857.15	79.072	1,2
35570	C39H81N	ethylheptatriacontylamine	66576-45-2	797.15	73.056	1,2	35839	C51H105N	triheptadecylamine	66575-83-5	803.15	73.656	1,2
35571	C39H81N	dimethylheptatriacontylamine	66576-44-1	791.15	72.456	1,2	35847	C52H106	n-dopentacontane	7719-79-1	861.15	79.474	1,2
35572	C39H81N	diethylpentatriacontylamine	66576-43-0	763.15	69.663	1,2	35849	C53H108	n-tripentacontane	7719-80-4	866.15	79.977	1,2
35573	C39H81N	tritridecylamine	5910-77-0	740.15	67.375	1,2	35857	C54H78O3	1,3,5-trimethyl-2,4,6-tris(3,5-di-tert-butyl*	1709-70-2	493.15	43.226	1,2
35613	C40H72O8Sn	bis(isooctyloxymaleoyloxy)dioctylstannane	33568-99-9	458.35	39.897	2	35859	C54H83NO17	avermectin A1A, 4"-(acetylamino)-5-o-demeth*	148865-00-3	460.15	40.069	1,2
35614	C40H72O8Sn	di-n-octyltin bis(2-ethylhexyl maleate)	10039-33-5	458.35	39.897	1,2	35869	C54H110	n-tetrapentacontane	5856-66-6	870.15	80.380	1,2
35615	C40H74	tetratriacontylbenzene	61828-31-7	795.15	72.856	1,2	35871	C54H111N	trioctadecylamine	102-88-5	816.15	74.957	1,2
35616	C40H78	1-tetracontyne	---	793.15	72.656	1,2	35880	C55H112	n-pentapentacontane	5846-40-2	874.15	80.783	1,2
35617	C40H80	pentatriacontylcyclopentane	61827-98-3	799.15	73.256	1,2	35888	C56H96N12O13	circulin	9008-54-2	531.35	46.904	1,2
35618	C40H80	tetratriacontylcyclohexane	61828-19-1	800.15	73.356	1,2	35891	C56H114	n-hexapentacontane	7719-82-6	878.15	81.186	1,2
35619	C40H80	1-tetracontene	61868-18-6	796.15	72.956	1,2	35894	C57H82O26	chromomycin A3	7059-24-7	516.15	45.438	1,2
35620	C40H80Br2	1,1-dibromotetracontane	62168-19-8	844.15	77.765	1,2	35895	C57H86N18O21S2	bleomycin A5	11116-32-8	548.65	48.578	1,2
35621	C40H80Cl2	1,1-dichlorotetracontane	62017-42-9	831.15	76.460	1,2	35900	C57H116	n-heptapentacontane	5856-67-7	882.15	81.589	1,2
35622	C40H80F2	1,1-difluorotetracontane	62126-89-0	763.15	69.663	1,2	35901	C57H117N	trinonadecylamine	66575-72-2	829.15	76.260	1,2
35623	C40H80I2	1,1-diiodotetracontane	66576-47-4	1,300.44	124.472	2	35904	C58H118	n-octapentacontane	7667-78-9	886.15	81.992	1,2
35626	C40H81Br	1-bromotetracontane	62108-55-8	822.15	75.558	1,2	35908	C59H120	n-nonapentacontane	7667-79-0	890.15	82.396	1,2
35627	C40H81Cl	1-chlorotetracontane	62016-92-6	810.15	74.356	1,2	35909	C59H77N13O19	telomycin	19246-24-3	483.65	42.315	1,2
35628	C40H81F	1-fluorotetracontane	62108-94-5	781.15	71.458	1,2	35910	C59H90O4	ubiquinone 10	303-98-0	495.15	43.418	1,2
35629	C40H81I	1-iodotetracontane	62154-91-0	842.15	77.564	1,2	35922	C60H122	n-hexacontane	7667-80-3	893.15	82.698	1,2
35630	C40H82	tetracontane	4181-95-7	798.15	73.156	1,2	35923	C60H123N	trieicosylamine	45324-58-1	841.15	77.464	1,2
35631	C40H83N	tetracontylamine	66576-50-9	833.15	76.661	1,2	35925	C61H124	n-henhexacontane	7667-81-4	897.15	83.102	1,2
35632	C40H83N	methylnonatriacontylamine	66576-36-1	796.15	72.956	1,2	35932	C62H126	n-dohexacontane	7719-83-7	901.15	83.506	1,2
35633	C40H83N	ethyloctatriacontylamine	66576-53-2	803.15	73.656	1,2	35940	C63H128	n-trihexacontane	7719-84-8	904.15	83.809	1,2
35634	C40H83N	dieicosylamine	3071-00-9	799.15	73.256	1,2	35943	C64H130	n-tetrahexacontane	7719-87-1	907.15	84.112	1,2
35635	C40H83N	dimethyloctatriacontylamine	66576-52-1	797.15	73.056	1,2	35944	C65H132	n-pentahexacontane	7719-88-2	910.15	84.415	1,2
35636	C40H83N	diethylhexatriacontylamine	66576-51-0	769.15	70.261	1,2	35949	C66H134	n-hexahexacontane	7719-89-3	914.15	84.819	1,2
35656	C41H76	pentatriacontylbenzene	61828-32-8	801.15	73.456	1,2	35952	C67H136	n-heptahexacontane	7719-90-6	917.15	85.123	1,2
35658	C41H82	hexatriacontylcyclopentane	61827-99-4	805.15	73.856	1,2	35956	C68H138	n-octahexacontane	7719-91-7	920.15	85.426	1,2
35659	C41H82	pentatriacontylcyclohexane	61828-20-4	807.15	74.056	1,2	35958	C69H140	n-nonahexacontane	7719-92-8	923.15	85.729	1,2
35660	C41H84	n-hentetracontane	7194-87-8	804.15	73.756	1,2	35960	C70H142	n-heptacontane	7719-93-9	926.15	86.033	1,2
35686	C42H54O20	trioxacarcin C	81781-28-4	375.65	32.077	1,2	35961	C71H144	n-henheptacontane	7667-82-5	928.15	86.236	1,2
35695	C42H66O14	b-methyldigoxin	30685-43-9	447.15	38.830	1,2	35968	C72H146	n-doheptacontane	7667-83-6	931.15	86.539	1,2
35703	C42H78	hexatriacontylbenzene	61828-33-9	806.15	73.956	1,2	35970	C73H148	n-triheptacontane	7667-84-7	934.15	86.843	1,2
35705	C42H84	hexatriacontylcyclohexane	61828-21-5	811.15	74.456	1,2	35972	C74H150	n-tetraheptacontane	7667-85-8	936.15	87.046	1,2
35708	C42H86	n-dotetracontane	7098-20-6	810.15	74.356	1,2	35973	C75H70N6O6	pyrvinium pamoate	3546-41-6	438.15	37.975	1,2
35709	C42H87N	tritetradecylamine	27911-72-4	757.15	69.066	1,2	35975	C75H152	n-pentaheptacontane	7667-86-9	939.15	87.350	1,2
35715	C43H47N2NaO6S2	indocyanine green	3599-32-4	430.15	37.215	1,2	35976	C76H52O46	tannic acid	1401-55-4	473.15	41.310	1,2
35718	C43H54N2O14	tolylmycin Y	23412-26-2	481.15	42.076	1,2	35977	C76H154	n-hexaheptacontane	7667-87-0	941.15	87.552	1,2
35723	C43H66O14	acetyldigitoxin-a	1111-39-3	450.65	39.163	1,2	35979	C77H156	n-heptaheptacontane	7719-94-0	944.15	87.856	1,2
35724	C43H66O14	acetyldigitoxin-b	1264-51-3	450.65	39.163	2	35980	C78H158	n-octaheptacontane	7719-85-9	946.15	88.059	1,2
35725	C43H66O15	acetyldigoxin-a	5511-98-8	487.15	42.651	2	35982	C79H160	n-nonaheptacontane	7719-86-0	949.15	88.363	1,2
35726	C43H66O15	acetyldigoxin-b	5355-48-6	485.15	42.459	1,2	35984	C80H162	n-octacontane	7667-88-1	951.15	88.566	1,2
35727	C43H66O15	acetylgitoxin-a	29362-48-9	487.15	42.651	2	35985	C81H164	n-henoctacontane	7667-89-2	953.15	88.769	1,2
35728	C43H66O15	16-acetylgitoxin	7242-07-1	489.15	42.843	1,2	35986	C82H166	n-dooctacontane	7719-95-1	955.15	88.972	1,2
35729	C43H66O15	e-digoxin acetate	---	487.15	42.651	2	35987	C83H168	n-trioctacontane	7667-90-5	957.15	89.175	1,2
35735	C43H88	tritetracontane	7098-21-7	815.65	74.907	1,2	35990	C84H170	n-tetraoctacontane	7667-91-6	959.15	89.378	1,2
35745	C44H41ClN2O7	hydroxyzine pamoate	5978-92-7	543.15	48.045	1,2	35991	C85H172	n-pentaoctacontane	7719-96-2	961.15	89.581	1,2
35755	C44H76NbO8	tetrakis(2,2,6,6-tetramethyl-3,5-heptanedion*	41706-15-4	598.15	53.390	1,2	35992	C86H174	n-hexaoctacontane	7667-92-7	963.15	89.784	1,2
35763	C44H90	n-tetratetracontane	7098-22-8	821.15	75.458	1,2	35993	C87H176	n-heptaoctacontane	7667-93-8	965.15	89.987	1,2
35765	C45H54N8O10	virgimycin	3131-03-1	463.65	40.403	1,2	35998	C88H178	n-octaoctacontane	7667-94-9	967.15	90.190	1,2
35770	C45H77NO17	tylosin	1401-69-0	472.15	41.215	1,2	36000	C89H180	n-nonaoctacontane	7719-76-8	969.15	90.393	1,2
35773	C45H86O6	glycerol tritetradecanoate	555-45-3	584.15	52.025	1,2	36002	C90H182	n-nonacontane	7667-51-8	971.15	90.596	1,2
35774	C45H92	n-pentatetracontane	7098-23-9	827.15	76.059	1,2	36003	C91H184	n-hennonacontane	7719-97-3	973.15	90.800	1,2
35775	C45H93N	tripentadecylamine	66576-66-7	773.15	70.660	1,2	36004	C92H186	n-dononacontane	7667-95-0	975.15	91.003	1,2
35776	C46H56N4O10	leurocristine	57-22-7	483.15	42.268	1,2	36005	C93H188	n-trinonacontane	7667-96-1	977.15	91.206	1,2
35784	C46H75NO17	candidin	1405-90-9	520.15	45.824	1,2	36006	C94H190	n-tetrananacontane	1574-32-9	978.15	91.308	1,2
35787	C46H83NO18	nystatin	1400-61-9	274.95	22.765	1,2	36008	C95H192	n-pentanonacontane	7667-97-2	980.15	91.511	1,2
35788	C46H94	n-hexatetracontane	7098-24-0	832.15	76.561	1,2	36010	C96H194	n-hexanonacontane	7763-13-5	982.15	91.714	1,2
35797	C47H78O14	dianemycin	35865-33-9	480.15	41.980	1,2	36011	C97H196	n-heptanonacontane	7670-25-9	983.15	91.816	1,2
35798	C47H96	n-heptatetracontane	7098-25-1	837.15	77.062	1,2	36012	C98H198	n-octanonacontane	7670-26-0	985.15	92.020	1,2
35799	C48H102OSn2	1,1,1,3,3,3-hexaoctyldistannoxane	2787-93-1	420.15	36.268	1,2	36013	C99H200	n-nonanonacontane	7670-27-1	986.15	92.121	1,2
35802	C48H36O4Sn	tetrakis(p-phenoxyphenyl)tin	6452-62-6	382.90	32.757	1,2	36014	C100H202	n-hectane	6703-98-6	988.15	92.325	1,2
35816	C48H98	n-octatetracontane	7098-26-2	843.15	77.665	1,2							

Code: 1 - data, 2 - estimate

* Use ID or CAS No for complete name (See Chapther 1 of this book).

Chapter 10

ENTHALPY OF VAPORIZATION AT BOILING POINT – INORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 10 for enthalpy of vaporization at boiling point. The tabulation is arranged by alphabetical order (Ag, Al, Ar, ..., Zr) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. The next columns provides the normal boiling point and the enthalpy of vaporization at the boiling point. The last column gives the code for the tabulation.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-32). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (1-2), Daubert and Danner (3), Lange's Handbook (11-12), web sites (15-17), and Yaws (18-32) were used extensively for enthalpy of vaporization. The Kistiakowsky rule (11) and Riedel method (11) were primarily used for estimates of enthalpy of vaporization at the boiling point.

Example

In an engineering analysis, the enthalpy of vaporization is needed for ammonia (NH3) at the boiling point temperature of 239.72 K. Determine the enthalpy of vaporization of ammonia at the boiling point.

Inspection of the tabulation provides the following:

HVAP = 23.261 kjoule/mol

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Table 10 Enthalpy of Vaporization at Boiling Point - Inorganic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
1	Ac	actinium	7440-34-8	3471.15	400.000	1,2	791	CdCl2	cadmium chloride	10108-64-2	1233.15	124.300	1,2
13	Ag	silver	7440-22-4	2485.00	258.000	1,2	798	CdF2	cadmium fluoride	7790-79-6	2021.15	214.000	1,2
16	AgBr	silver bromide	7785-23-1	1775.15	198.000	1,2	804	CdI2	cadmium iodide	7790-80-9	1015.15	115.000	1,2
35	AgCl	silver (i) chloride	7783-90-6	1820.15	199.000	1,2	809	CdO	cadmium oxide	1306-19-0	1832.15	236.484	1,2
40	AgF	silver (i) fluoride	7775-41-9	1432.15	179.100	1,2	830	Ce	cerium	7440-45-1	3716.15	398.000	1,2
45	AgI	silver (i) iodide	7783-96-2	1779.15	143.900	1,2	842	CeCl3	cerium (iii) chloride	7790-86-5	2000.15	170.100	1,2
77	Al	aluminum	7429-90-5	2790.81	294.023	1,2	891	ClF	chlorine monofluoride	7790-89-8	172.05	24.000	1,2
80	AlB3H12	aluminum borohydride	16962-07-5	317.65	30.000	1,2	892	ClFO3	perchloryl fluoride	7616-94-6	226.49	19.325	1,2
82	AlBr3	aluminum bromide	7727-15-3	528.15	23.500	1,2	893	ClF3	chlorine trifluoride	7790-91-2	284.90	27.530	1,2
86	AlC2H6Cl	aluminum, dimethyl chloride	1184-58-3	399.15	34.190	1,2	894	ClF5	chlorine pentafluoride	13637-63-3	260.05	22.854	1,2
88	AlC3H9	aluminum, trimethyl	75-24-1	400.27	36.135	1,2	896	ClNO2	nitryl chloride	13444-90-1	258.15	25.700	1,2
96	AlC6H15	aluminum, triethyl	97-93-8	467.15	59.682	1,2	898	ClO2	chlorine dioxide	10049-04-4	284.05	30.006	1,2
127	AlCl3	aluminum chloride	7446-70-0	453.15	41.284	1,2	899	Cl2	chlorine	7782-50-5	239.12	20.490	1,2
134	AlF3	aluminum fluoride	7784-18-1	1549.15	201.392	1,2	900	Cl2O	chlorine monoxide	7791-21-1	275.35	25.900	1,2
146	AlI3	aluminum iodide	7784-23-8	655.15	32.200	1,2	905	Cl2O7	chlorine heptoxide	10294-48-1	355.15	34.690	1,2
167	Al2O3	aluminum oxide	1344-28-1	3253.15	605.432	1,2	916	Co	cobalt	7440-48-4	3200.15	377.000	1,2
200	Ar	argon	7440-37-1	87.28	6.440	1,2	968	CoCl2	cobalt chloride	7646-79-9	1322.15	146.000	1,2
202	As	arsenic	7440-38-3	888.00	31.915	1,2	978	CoF2	cobalt (ii) fluoride	10026-17-2	1673.15	202.000	1,2
203	AsBr3	arsenic (iii) bromide	7784-33-0	494.15	41.800	1,2	1002	CoNC3O4	cobalt nitrosyl tricarbonyl	14096-82-3	320.00	31.301	1,2
228	AsCl3	arsenic trichloride	7784-34-1	403.15	35.010	1,2	1035	Cr	chromium	7440-47-3	2944.15	339.500	1,2
230	AsF3	arsenic trifluoride	7784-35-2	330.95	29.700	1,2	1071	CrCl2	chromium (ii) chloride	10049-05-5	1573.15	197.000	1,2
231	AsF5	arsenic pentafluoride	7784-36-3	220.35	20.800	1,2	1099	CrO2Cl2	chromium oxychloride	14977-61-8	390.15	35.100	1,2
234	AsH3	arsine	7784-42-1	210.67	16.489	1,2	1124	Cs	cesium	7440-46-2	944.15	63.900	1,2
238	AsI3	arsenic triiodide	7784-45-4	697.15	59.300	1,2	1128	CsBr	cesium bromide	7787-69-1	1573.15	151.000	1,2
245	As2O3	arsenic trioxide	1327-53-3	740.30	55.083	1,2	1137	CsCl	cesium chloride	7647-17-8	1570.15	115.100	1,2
255	At	astatine	7440-68-8	607.00	89.422	1,2	1140	CsF	cesium fluoride	13400-13-0	1524.15	115.500	1,2
256	Au	gold	7440-57-5	3129.15	324.000	1,2	1144	CsI	cesium iodide	7789-17-5	1553.15	150.200	1,2
283	B	boron	7440-42-8	4273.15	480.000	1,2	1169	Cu	copper	7440-50-8	2835.15	300.400	1,2
285	BBr3	boron tribromide	10294-33-4	364.15	30.500	1,2	1173	CuBr	cuprous bromide	7787-70-4	1618.15	205.388	1,2
361	BCl3	boron trichloride	10294-34-5	285.65	23.780	1,2	1229	CuCl	cuprous chloride	7758-89-6	1763.15	54.000	1,2
363	BF3	boron trifluoride	7637-07-2	173.35	19.230	1,2	1230	CuCl2	cupric chloride	7447-39-4	1266.15	157.946	1,2
372	BI3	boron triiodide	13517-10-7	483.15	40.500	1,2	1240	CuF2	copper (ii) fluoride	7789-19-7	1949.15	156.000	1,2
391	B2D6	diborane, deutero	20396-66-1	180.65	12.604	1,2	1255	CuI	copper iodide	7681-65-4	1609.15	201.700	1,2
392	B2F4	diborane, tetrafluoro	13965-73-6	239.15	28.000	1,2	1302	D2	deuterium	7782-39-0	23.65	1.182	1,2
393	B2H5Br	diborane hydrobromide	---	289.45	23.404	1,2	1303	D2O	deuterium oxide	7789-20-0	374.55	41.910	1,2
394	B2H6	diborane	19287-45-7	180.65	14.301	1,2	1307	Dy	dysprosium	7429-91-6	2840.15	280.000	1,2
395	B2O3	boron oxide	1303-86-2	2133.15	390.400	1,2	1332	Er	erbium	7440-52-0	3141.15	280.000	1,2
401	B3N3H6	borazine	6569-51-3	326.15	32.100	1,2	1369	Eu	europium	7440-53-1	1802.15	176.000	1,2
404	B4H10	tetraborane	18283-93-7	291.15	27.100	1,2	1406	FNO	nitrosyl fluoride	7789-25-5	213.25	19.280	1,2
405	B5H9	pentaborane	19624-22-7	333.15	24.457	1,2	1407	FNO2	nitryl fluoride	10022-50-1	200.75	18.050	1,2
406	B5H11	pentaborane	18433-84-6	336.15	31.800	1,2	1409	F2	fluorine	7782-41-4	84.95	6.553	1,2
413	B10H14	decaborane	---	486.15	42.809	1,2	1412	F2O	fluorine oxide	7783-41-7	128.40	11.090	1,2
416	Ba	barium	7440-39-3	2170.15	140.000	1,2	1413	F2O2	difluorine dioxide	7783-44-0	216.15	19.100	1,2
454	BaCl2	barium chloride	10361-37-2	1833.15	246.400	1,2	1420	Fe	iron	7439-89-6	3133.35	340.000	1,2
464	BaF2	barium fluoride	7787-32-8	2533.15	285.400	1,2	1434	FeC5O5	iron pentacarbonyl	13463-40-6	376.15	33.720	1,2
481	BaI2	barium iodide	13718-50-8	2300.15	43.900	1,2	1502	FeCl2	ferrous chloride	7758-94-3	1297.00	26.300	1,2
530	Be	beryllium	7440-41-7	2757.00	295.145	1,2	1505	FeCl3	ferric chloride	7705-08-0	592.15	43.760	1,2
534	BeBr2	beryllium bromide	7787-46-4	793.15	100.000	1,2	1509	FeF2	iron (ii) fluoride	7789-28-8	2110.15	224.400	1,2
541	BeCl2	beryllium chloride	7787-47-5	755.15	105.000	1,2	1527	FeI2	iron (ii) iodide	7783-86-0	1366.15	104.600	1,2
543	BeF2	beryllium fluoride	7787-49-7	1442.15	199.400	1,2	1574	Fr	francium	7440-73-5	946.15	130.139	1,2
550	BeI2	beryllium iodide	7787-53-3	760.15	70.500	1,2	1575	Ga	gallium	7440-55-3	2477.15	254.000	1,2
562	Bi	bismuth	7440-69-9	1837.15	151.000	1,2	1577	GaBr3	gallium (iii) bromide	13450-88-9	552.15	38.900	1,2
564	BiBr3	bismuth tribromide	7787-58-8	726.15	75.400	1,2	1578	GaC3H9	gallium, trimethyl	1445-79-0	328.95	30.239	1,2
576	BiCl3	bismuth trichloride	7787-60-2	720.15	72.610	1,2	1585	GaCl3	gallium trichloride	13450-90-3	474.15	23.900	1,2
584	BiI3	bismuth triiodide	7787-64-6	815.15	20.900	1,2	1593	GaI3	gallium (iii) iodide	13450-91-4	613.15	56.500	1,2
622	BrCl	bromine chloride	13863-41-7	278.15	34.700	1,2	1610	Gd	gadolinium	7440-54-2	3546.15	301.300	1,2
624	BrF	bromine fluoride	13863-59-7	293.15	25.100	1,2	1637	Ge	germanium	7440-56-4	3100.00	334.082	1,2
626	BrF3	bromine trifluoride	7787-71-5	398.95	47.570	1,2	1639	GeBr4	germanium bromide	13450-92-5	459.50	41.400	1,2
628	BrF5	bromine pentafluoride	7789-30-2	313.65	30.619	1,2	1661	GeCl4	germanium chloride	10038-98-9	359.70	27.900	1,2
633	Br2	bromine	7726-95-6	331.90	29.963	1,2	1668	GeHCl3	germane, trichloro	1184-65-2	348.45	28.921	1,2
641	CCl2O	carbonyl chloride	75-44-5	280.71	24.770	1,2	1675	GeH4	germane	7782-65-2	185.00	14.061	1,2
642	CF2O	carbonyl fluoride	353-50-4	190.05	16.100	1,2	1686	Ge2H6	digermane	13818-89-8	303.95	25.100	1,2
644	CH4N2O	urea	57-13-6	465.00	58.342	1,2	1687	Ge3H8	trigermane	14691-44-2	383.65	32.200	1,2
645	CH4N2S	thiourea	62-56-6	453.00	60.102	1,2	1691	HBr	hydrogen bromide	10035-10-6	206.45	18.061	1,2
646	CNBr	cyanogen bromide	506-68-3	334.65	31.120	1,2	1694	HCN	hydrogen cyanide	74-90-8	299.15	27.452	1,2
647	CNCl	cyanogen chloride	506-77-4	286.00	26.853	1,2	1695	HCl	hydrogen chloride	7647-01-0	188.15	16.362	1,2
648	CNF	cyanogen fluoride	1495-50-7	227.15	22.079	1,2	1696	HClO3S	chlorosulfonic acid	7790-94-5	427.00	40.555	1,2
651	CN4O8	tetranitromethane	509-14-8	398.85	35.125	1,2	1697	HClO4	perchloric acid	7601-90-3	385.00	26.711	1,2
652	CO	carbon monoxide	630-08-0	81.70	5.910	1,2	1698	HF	hydrogen fluoride	7664-39-3	292.67	7.531	1,2
653	COS	carbonyl sulfide	463-58-1	223.00	18.612	1,2	1699	HI	hydrogen iodide	10034-85-2	237.55	19.762	1,2
654	COSe	carbon oxyselenide	1603-84-5	251.65	25.157	1,2	1702	HNO3	nitric acid	7697-37-2	356.15	31.721	1,2
656	CS2	carbon disulfide	75-15-0	319.15	26.625	1,2	1703	HN3	hydrazoic acid	7782-79-8	308.85	30.500	1,2
661	C2N2	cyanogen	460-19-5	252.05	23.938	1,2	1709	H2	hydrogen	1333-74-0	20.39	0.904	1,2
675	Ca	calcium	7440-70-2	1757.00	154.706	1,2	1712	H2O	water	7732-18-5	373.15	40.744	1,2
682	CaBr2	calcium bromide	7789-41-5	2088.15	200.000	1,2	1713	H2O2	hydrogen peroxide	7722-84-1	423.35	46.612	1,2
713	CaCl2	calcium chloride	10043-52-4	3620.00	235.000	1,2	1714	H2S	hydrogen sulfide	7783-06-4	212.80	18.738	1,2
728	CaF2	calcium fluoride	7789-75-5	2806.50	308.900	1,2	1716	H2SO4	sulfuric acid	7664-93-9	610.00	50.200	1,2
746	CaI2	calcium iodide	10102-68-8	1373.15	179.400	1,2	1718	H2S2	hydrogen disulfide	13465-07-1	343.85	33.994	1,2
776	Cd	cadmium	7440-43-9	1040.15	99.870	1,2	1719	H2Se	hydrogen selenide	7783-07-5	231.15	19.733	1,2
777	CdBr2	cadmium bromide	7789-42-6	1117.15	115.000	1,2	1721	H2Te	hydrogen telluride	7783-09-7	271.15	19.200	1,2

Table 10 Enthalpy of Vaporization at Boiling Point - Inorganic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
1722	H3NO	hydroxylamine	7803-49-8	383.00	54.958	1,2	2897	NaOH	sodium hydroxide	1310-73-2	1830.00	164.835	1,2
1738	He	helium-3	14762-55-1	3.20	0.025	1,2	3019	Nb	niobium	7440-03-1	5017.15	689.900	1,2
1739	He	helium-4	7440-59-7	4.22	0.083	1,2	3024	NbBr5	niobium (v) bromide	13478-45-0	633.15	50.200	1,2
1740	Hf	hafnium	7440-58-6	4876.15	571.000	1,2	3034	NbCl5	niobium (v) chloride	10026-12-7	527.15	52.700	1,2
1771	Hg	mercury	7439-97-6	629.84	59.200	1,2	3037	NbF5	niobium (v) fluoride	7783-68-8	502.15	52.300	1,2
1773	HgBr2	mercuric bromide	7789-47-1	595.15	58.890	1,2	3057	Nd	neodymium	7440-00-8	3347.15	289.000	1,2
1800	HgCl2	mercuric chloride	7487-94-7	577.15	58.900	1,2	3091	Ne	neon	7440-01-9	27.09	1.719	1,2
1804	HgF2	mercury (ii) fluoride	7783-39-3	923.15	92.000	1,2	3092	Ni	nickel	7440-02-0	3186.15	377.500	1,2
1813	HgI2	mercuric iodide	7774-29-0	627.15	59.200	1,2	3105	NiC4O4	nickel carbonyl	13463-39-3	315.65	29.300	1,2
1841	Ho	holmium	7440-60-0	2973.15	265.000	1,2	3182	Np	neptunium	7439-99-8	4273.00	336.000	1,2
1843	HoBr3	holmium bromide	13825-76-8	1743.15	179.912	1,2	3198	O2	oxygen	7782-44-7	90.19	6.789	1,2
1846	HoCl3	holmium chloride	10138-62-2	1783.15	184.096	1,2	3199	O3	ozone	10028-15-6	161.85	13.847	1,2
1849	HoF3	holmium fluoride	13760-78-6	2503.15	251.040	1,2	3200	Os	osmium	7440-04-2	5285.15	738.000	1,2
1852	HoI3	holmium iodide	13813-41-7	1573.15	171.544	1,2	3213	OsF5	osmium (v) fluoride	31576-40-6	499.05	65.600	1,2
1868	IF5	iodine pentafluoride	7783-66-6	373.65	41.300	1,2	3214	OsF6	osmium (vi) fluoride	13768-38-2	320.65	28.100	1,2
1869	IF7	iodine heptafluoride	16921-96-3	277.95	21.881	1,2	3222	OsO4	osmium tetroxide	20816-12-0	408.15	39.540	1,2
1873	I2	iodine	7553-56-2	457.56	41.878	1,2	3234	P	phosphorus (white)	7723-14-0	553.65	12.400	1,2
1877	In	indium	7440-74-6	2345.15	231.800	1,2	3238	PBr3	phosphorus tribromide	7789-60-8	446.10	38.800	1,2
1879	InBr	indium (i) bromide	14280-53-6	929.15	92.000	1,2	3252	PC3H9O4	phosphate, trimethyl	512-56-1	470.35	48.039	1,2
1900	InI	indium (i) iodide	13966-94-4	985.15	90.800	1,2	3280	PC6H15O4	phosphate, triethyl	78-40-0	488.15	46.783	1,2
1917	Ir	iridium	7439-88-5	4701.15	563.000	1,2	3378	PClF2	phosphorus (iii) chloride difluoride	14335-40-1	225.90	17.600	1,2
1940	IrF6	iridium (vi) fluoride	7783-75-7	326.75	30.900	1,2	3379	PCl2F	phosphorus (iii) dichloride fluoride	15597-63-4	287.15	24.900	1,2
1960	K	potassium	7440-09-7	1031.00	76.900	1,2	3380	PCl2F3	phosphorus (v) dichloride trifluoride	13454-99-4	280.25	22.398	1,2
1972	KBr	potassium bromide	7758-02-3	1653.15	149.200	1,2	3381	PCl3	phosphorus (iii) chloride	7719-12-2	349.25	30.491	1,2
2009	KCl	potassium chloride	7447-40-7	1689.00	124.300	1,2	3382	PCl5	phosphorus pentachloride	10026-13-8	433.00	46.138	1,2
2018	KF	potassium fluoride	7789-23-3	1775.15	141.800	1,2	3384	PF3	phosphorus (iii) fluoride	7783-55-3	171.65	16.500	1,2
2035	KI	potassium iodide	7681-11-0	1618.00	190.900	1,2	3387	PF5	phosphorus (v) fluoride	7647-19-0	188.55	17.200	1,2
2047	KOH	potassium hydroxide	1310-58-3	1600.00	142.700	1,2	3389	PH3	phosphine	7803-51-2	185.41	14.581	1,2
2162	Kr	krypton	7439-90-9	119.80	9.140	1,2	3392	PH4I	phosphonium iodide	12125-09-6	335.65	32.953	1,2
2168	La	lanthanum	7439-91-0	3737.15	402.100	1,2	3394	PI3	phosphorus (iii) iodide	13455-01-1	500.15	43.900	1,2
2177	LaCl3	lanthanum chloride	10099-58-8	1273.15	192.100	1,2	3395	POBr3	phosphorus (v) oxybromide	7789-59-5	464.85	38.000	1,2
2203	Li	lithium	7439-93-2	1615.00	147.100	1,2	3396	POCl3	phosphorus oxychloride	10025-87-3	378.65	34.350	1,2
2213	LiBr	lithium bromide	7550-35-8	1583.15	107.100	1,2	3398	PSCl3	phosphorus thiochloride	3982-91-0	398.15	33.822	1,2
2253	LiCl	lithium chloride	7447-41-8	1656.15	208.730	1,2	3400	PSF3	phosphorus (v) sulfide trifluoride	2404-52-6	220.90	19.600	1,2
2261	LiF	lithium fluoride	7789-24-4	1946.15	147.000	1,2	3445	P2H4	diphosphine	13445-50-6	336.65	28.800	1,2
2270	LiI	lithium iodide	10377-51-2	1447.00	167.290	1,2	3451	P2S5	phosphorus (v) sulfide	1314-80-3	787.15	49.465	1,2
2277	LiOH	lithium hydroxide	1310-65-2	1899.15	188.000	1,2	3461	P4O6	phosphorous (iii) oxide	12440-00-5	446.15	43.430	1,2
2316	Lu	lutetium	7439-94-3	3675.15	414.000	1,2	3462	P4S3	phosphorus sesquisulfide	1314-85-8	680.95	59.800	1,2
2335	Mg	magnesium	7439-95-4	1363.15	128.000	1,2	3469	Pa	protactinium	7440-13-3	4300.00	481.000	1,2
2341	MgBr2	magnesium bromide	7789-48-2	1431.15	149.000	1,2	3483	Pb	lead	7439-92-1	2022.15	179.216	1,2
2392	MgCl2	magnesium chloride	7786-30-3	1685.15	156.200	1,2	3487	PbBr2	lead bromide	10031-22-8	1165.15	133.000	1,2
2399	MgF2	magnesium fluoride	7783-40-6	2500.15	274.100	1,2	3504	PbC8H20	tetraethyl lead	78-00-2	473.15	42.088	1,2
2429	MgO	magnesium oxide	1309-48-4	3873.20	321.623	1,2	3514	PbCl2	lead chloride	7758-95-4	1224.15	127.000	1,2
2464	Mn	manganese	7439-96-5	2334.15	221.000	1,2	3521	PbF2	lead fluoride	7783-46-2	1566.15	160.400	1,2
2469	MnBr2	manganese (ii) bromide	13446-03-2	1300.15	113.000	1,2	3530	PbI2	lead iodide	10101-63-0	1145.15	104.000	1,2
2495	MnCl2	manganese (ii) chloride	7773-01-5	1463.15	149.000	1,2	3537	PbO	lead oxide	1317-36-8	1747.15	207.000	1,2
2548	Mo	molybdenum	7439-98-7	4912.15	617.000	1,2	3545	PbS	lead sulfide	1314-87-0	1554.15	230.000	1,2
2555	MoC6O6	molybdenum hexacarbonyl	13939-06-5	974.15	72.500	1,2	3571	Pd	palladium	7440-05-3	3236.15	362.000	1,2
2567	MoCl5	molybdenum (v) chloride	10241-05-1	541.15	62.800	1,2	3637	Pm	promethium	7440-12-2	3273.15	289.000	1,2
2572	MoF5	molybdenum (v) fluoride	13819-84-6	486.75	51.800	1,2	3641	Po	polonium	7440-08-6	1235.15	102.910	1,2
2573	MoF6	molybdenum fluoride	7783-77-9	307.15	29.000	1,2	3650	Pr	praseodymium	7440-10-0	3793.15	331.000	1,2
2582	MoOF4	molybdenum (vi) oxytetrafluoride	14459-59-7	459.15	50.600	1,2	3691	Pt	platinum	7440-06-4	4098.15	469.000	1,2
2585	MoO3	molybdenum oxide	1313-27-5	1428.15	138.000	1,2	3756	Pu	plutonium	7440-07-5	3501.15	333.500	1,2
2607	NClO	nitrosyl chloride	2696-92-6	267.77	25.775	1,2	3762	PuF6	plutonium (vi) fluoride	13693-06-6	335.15	29.900	1,2
2608	NCl3	nitrogen trichloride	10025-85-1	344.15	30.440	1,2	3773	Ra	radium	7440-14-4	1799.15	116.104	1,2
2610	ND3	heavy ammonia	---	240.15	26.568	1,2	3781	Rb	rubidium	7440-17-7	961.15	75.770	1,2
2613	NF3	nitrogen trifluoride	7783-54-2	144.09	11.575	1,2	3786	RbBr	rubidium bromide	7789-39-1	1613.15	154.800	1,2
2619	NH3	ammonia	7664-41-7	239.72	23.261	1,2	3791	RbCl	rubidium chloride	7791-11-9	1663.15	165.700	1,2
2625	NH4Br	ammonium bromide	12124-97-9	669.15	36.028	1,2	3795	RbF	rubidium fluoride	13446-74-7	1683.15	177.800	1,2
2627	NH4Cl	ammonium chloride	12125-02-9	612.00	41.987	1,2	3801	RbI	rubidium iodide	7790-29-6	1573.15	197.080	1,2
2634	NH4I	ammonium iodide	12027-06-4	678.15	36.762	1,2	3828	Re	rhenium	7440-15-5	5869.15	704.000	1,2
2674	NO	nitric oxide	10102-43-9	121.38	13.529	1,2	3850	ReF5	rhenium (v) fluoride	30937-52-1	494.45	58.100	1,2
2676	NO2	nitrogen dioxide	10102-44-0	294.15	24.664	1,2	3852	ReF6	rhenium (vi) fluoride	10049-17-9	306.95	28.700	1,2
2678	N2	nitrogen	7727-37-9	77.34	5.566	1,2	3857	ReOCl4	rhenium (vi) oxytetrachloride	13814-76-1	496.15	45.600	1,2
2682	N2F2	cis-difluorodiazine	13812-43-6	167.40	91.600	1,2	3858	ReOF4	rhenium (vi) oxytetrafluoride	17026-29-8	444.85	61.000	1,2
2683	N2F2	trans-difluorodiazine	13776-62-0	161.70	87.900	1,2	3859	ReOF5	rhenium (vii) oxypentafluoride	23377-53-9	346.15	32.000	1,2
2684	N2F4	tetrafluorohydrazine	10036-47-2	198.95	13.274	1,2	3861	ReO2F3	rhenium (vii) dioxytrifluoride	57246-89-6	458.55	65.700	1,2
2685	N2H4	hydrazine	302-01-2	386.65	40.851	1,2	3875	Re2O7	rhenium heptoxide	1314-68-7	633.15	74.100	1,2
2686	N2H4C	ammonium cyanide	12211-52-8	304.85	32.929	1,2	3880	Rh	rhodium	7440-16-6	3968.15	494.000	1,2
2747	N2O	nitrous oxide	10024-97-2	184.67	16.383	1,2	3940	Rn	radon	10043-92-2	211.45	18.098	1,2
2748	N2O3	nitrogen trioxide	10544-73-7	275.15	39.417	1,2	3941	Ru	ruthenium	7440-18-8	4423.15	591.600	1,2
2749	N2O4	nitrogen tetraoxide	10544-72-6	294.31	38.119	1,2	3974	RuF5	ruthenium (v) fluoride	14521-18-7	500.15	63.661	1,2
2750	N2O5	nitrogen pentoxide	10102-03-1	306.15	61.774	1,2	3991	S	sulfur	7704-34-9	717.82	44.998	1,2
2781	Na	sodium	7440-23-5	1156.00	97.420	1,2	3994	SCl2	sulfur dichloride	10545-99-0	332.75	32.400	1,2
2798	NaBO2	sodium metaborate	7775-19-1	1707.15	239.700	1,2	3996	SCl2O	thionyl chloride	7719-09-7	348.75	31.700	1,2
2800	NaBr	sodium bromide	7647-15-6	1663.82	160.700	1,2	3998	SF4	sulfur tetrafluoride	7783-60-0	232.70	26.440	1,2
2810	NaCN	sodium cyanide	143-33-9	1769.15	148.100	1,2	4001	SF6	sulfur hexafluoride	2551-62-4	209.25	16.468	1,2
2855	NaCl	sodium chloride	7647-14-5	1738.20	130.052	1,2	4004	SOBr2	thionyl bromide	507-16-4	413.15	38.601	1,2
2864	NaF	sodium fluoride	7681-49-4	1982.72	176.100	1,2	4005	SOCl2	thionyl chloride	7719-09-7	348.75	31.700	1,2
2888	NaI	sodium iodide	7681-82-5	1577.00	215.789	1,2	4006	SOF2	thionyl fluoride	7783-42-8	229.35	21.800	1,2

Table 10 Enthalpy of Vaporization at Boiling Point - Inorganic Compounds

HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)							HVAP at Boiling Point (HVAP - kjoule/mol, TB - K)						
ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code	ID	FORMULA	NAME	CAS No	TB, K	HVAP@TB	code
4007	SO2	sulfur dioxide	7446-09-5	263.13	25.201	1,2	4431	SnH4	stannane	2406-52-2	221.35	19.050	1,2
4008	SO2Cl2	sulfuryl chloride	7791-25-5	342.55	31.400	1,2	4432	SnI2	tin (ii) iodide	10294-70-9	987.15	105.000	1,2
4009	SO2F2	sulfuryl fluoride	2699-79-8	217.75	20.000	1,2	4433	SnI4	stannic iodide	7790-47-8	637.50	56.900	1,2
4010	SO3	sulfur trioxide	7446-11-9	317.90	40.709	1,2	4461	Sr	strontium	7440-24-6	1655.15	136.900	1,2
4013	S2Cl2	sulfur monochloride	10025-67-9	410.15	36.000	1,2	4464	SrBr2	strontium bromide	10476-81-0	2318.15	194.100	1,2
4023	Sb	antimony	7440-36-0	1860.15	193.430	1,2	4479	SrCl2	strontium chloride	10476-85-4	1523.15	248.100	1,2
4025	SbBr3	antimony tribromide	7789-61-9	553.15	59.000	1,2	4484	SrF2	strontium fluoride	7783-48-4	2733.15	320.000	1,2
4042	SbCl3	antimony trichloride	10025-91-9	493.40	45.193	1,2	4492	SrI2	strontium iodide	10476-86-5	1773.00	189.700	1,2
4044	SbCl5	antimony pentachloride	7647-18-9	449.15	48.400	1,2	4517	Ta	tantalum	7440-25-7	5731.15	732.800	1,2
4047	SbH3	stibine	7803-52-3	255.15	21.662	1,2	4523	TaBr5	tantalum (v) bromide	13451-11-1	622.15	62.300	1,2
4049	SbI3	antimony triiodide	7790-44-5	674.15	68.600	1,2	4531	TaCl5	tantalum (v) chloride	7721-01-9	512.50	54.800	1,2
4056	Sb2O3	antimony (iii) oxide	1309-64-4	1698.15	74.600	1,2	4533	TaF5	tantalum (v) fluoride	7783-71-3	502.35	56.900	1,2
4065	Sc	scandium	7440-20-2	3109.15	332.700	1,2	4536	TaI5	tantalum (v) iodide	14693-81-3	816.15	64.900	1,2
4083	Se	selenium (gray)	7782-49-2	958.15	95.480	1,2	4550	Tb	terbium	7440-27-9	3503.15	293.000	1,2
4089	SeCS	selenosulfide, carbon	5951-19-9	358.75	34.849	1,2	4570	Tc	technetium	7440-26-8	4538.15	585.200	1,2
4107	SeCl4	selenium tetrachloride	10026-03-6	464.55	42.803	1,2	4578	TcF6	technetium (vi) fluoride	13842-93-8	328.45	31.100	1,2
4109	SeF4	selenium tetrafluoride	13465-66-2	379.15	47.200	1,2	4583	Te	tellurium	13494-80-9	1261.15	114.100	1,2
4110	SeF6	selenium hexafluoride	7783-79-1	227.35	18.354	1,2	4588	TeCl4	tellurium tetrachloride	10026-07-0	660.15	77.000	1,2
4115	SeOCl2	selenium oxychloride	7791-23-3	450.15	42.700	1,2	4589	TeF4	tellurium tetrafluoride	15192-26-4	467.15	34.300	1,2
4117	SeO2	selenium dioxide	7446-08-4	588.15	94.500	1,2	4590	TeF6	tellurium hexafluoride	7783-80-4	234.25	17.203	1,2
4140	Si	silicon	7440-21-3	3490.00	359.000	1,2	4609	Th	thorium	7440-29-1	5061.15	514.000	1,2
4143	SiBrCl2F	silane, bromodichlorofluoro	---	308.55	23.828	1,2	4617	ThCl4	thorium (iv) chloride	10026-08-1	1194.15	146.400	1,2
4143.1	SiBrF3	silane, bromotrifluoro	---	231.45	17.523	1,2	4621	ThF4	thorium (iv) fluoride	13709-59-6	1953.15	258.000	1,2
4144	SiBr2ClF	silane, dibromochlorofluoro	---	332.65	26.023	1,2	4628	ThI4	thorium (iv) iodide	7790-49-0	1110.15	56.900	1,2
4146	SiBr4	tetrabromosilane	7789-66-4	427.15	37.900	1,2	4639	Ti	titanium	7440-32-6	3560.15	425.000	1,2
4149	SiCH3Cl3	silane, methyltrichloro	75-79-6	339.55	28.105	1,2	4643	TiBr4	titanium (iv) bromide	7789-68-6	503.15	44.370	1,2
4150	SiCH4Cl2	silane, methyldichloro	75-54-7	314.70	26.435	1,2	4676	TiCl2	titanium (ii) chloride	10049-06-6	1773.15	232.000	1,2
4152	SiC2H5Cl3	silane, ethyltrichloro	115-21-9	371.05	32.084	1,2	4677	TiCl3	titanium (iii) chloride	7705-07-9	1233.15	124.000	1,2
4153	SiC2H6Cl2	silane, dimethyldichloro	75-78-5	343.35	29.407	1,2	4678	TiCl4	titanium tetrachloride	7550-45-0	409.00	36.227	1,2
4157	SiC3H10	silane, trimethyl	933-07-7	279.85	22.062	1,2	4686	TiI4	titanium (iv) iodide	7720-83-4	650.15	58.400	1,2
4187	SiC7H8Cl2	silane, methylphenyldichloro	149-74-6	477.35	42.569	1,2	4703	Tl	thallium	7440-28-0	1746.15	165.000	1,2
4196	SiC8H20	silane, tetraethyl	631-36-7	426.56	36.271	1,2	4704	TlBr	thallous bromide	7789-40-4	1092.15	99.560	1,2
4238	SiClC3H9	chlorotrimethylsilane	75-77-4	330.75	27.869	1,2	4719	TlCl	thallium chloride	7791-12-0	993.15	102.200	1,2
4240	SiClF3	silane, chlorotrifluoro	14049-36-6	203.15	18.700	1,2	4725	TlF	thallium (i) fluoride	7789-27-7	1099.15	115.900	1,2
4241	SiCl2F2	silane, dichlorodifluoro	18356-71-3	241.15	21.100	1,2	4728	TlI	thallium iodide	7790-30-9	1097.15	104.700	1,2
4243	SiCl3F	silane, trichlorofluoro	14965-52-7	285.40	21.738	1,2	4743	Tl2S	thallium (i) sulfide	1314-97-2	1640.15	154.000	1,2
4244	SiCl4	silicon tetrachloride	10026-04-7	330.00	27.879	1,2	4747	Tm	thulium	7440-30-4	2223.15	246.927	1,2
4245	SiF4	silicon tetrafluoride	7783-61-1	187.15	14.810	1,2	4766	U	uranium	7440-61-1	4404.15	417.100	1,2
4246	SiHBr3	silane, tribromo	7789-57-3	382.15	34.800	1,2	4770	UBr4	uranium (iv) bromide	13470-20-7	1064.15	119.200	1,2
4247	SiHCl3	silane, trichloro	10025-78-2	305.00	26.433	1,2	4779	UCl3	uranium (iii) chloride	10025-93-1	1930.15	193.000	1,2
4248	SiHF3	silane, trifluoro	13465-71-9	178.15	16.200	1,2	4780	UCl4	uranium (iv) chloride	10026-10-5	1064.15	141.400	1,2
4250	SiH2Br2	silane, dibromo	13768-94-0	339.15	31.000	1,2	4781	UCl5	uranium (v) chloride	13470-21-8	800.15	75.300	1,2
4251	SiH2Cl2	silane, dichloro	4109-96-0	281.45	25.143	1,2	4784	UF4	uranium (iv) fluoride	10049-14-6	1690.15	221.800	1,2
4252	SiH2F2	silane, difluoro	13824-36-7	195.35	16.300	1,2	4787	UF6	uranium fluoride	7783-81-5	329.65	28.900	1,2
4253	SiH2I2	silane, diiodo	13760-02-6	423.15	42.229	1,2	4797	UI4	uranium (iv) iodide	13470-22-9	1030.15	130.600	1,2
4257	SiH3Br	silane, monobromo	13465-73-1	275.55	24.400	1,2	4836	V	vanadium	7440-62-2	3653.15	458.532	1,2
4258	SiH3Cl	silane, monochloro	13465-78-6	242.75	21.000	1,2	4860	VCl4	vanadium tetrachloride	7632-51-1	425.00	41.258	1,2
4259	SiH3F	silane, monofluoro	13537-33-2	175.15	18.762	1,2	4865	VF5	vanadium (v) fluoride	7783-72-4	321.45	44.520	1,2
4260	SiH3I	silane, iodo	13598-42-0	318.55	29.966	1,2	4880	VOCl3	vanadium oxytrichloride	7727-18-6	400.00	36.789	1,2
4261	SiH4	silane	7803-62-5	161.00	12.115	1,2	4891	V2O5	vanadium (v) oxide	1314-62-1	2073.15	263.600	1,2
4263	SiI4	silane, tetraiodo	13465-84-4	560.50	50.200	1,2	4899	W	tungsten	7440-33-7	5828.15	806.700	1,2
4265	SiO2	silicon dioxide (alpha quartz)	14808-60-7	2503.20	345.543	1,2	4904	WBr5	tungsten (v) bromide	13470-11-6	606.15	81.500	1,2
4274	Si2C6H18O	disiloxane, hexamethyl	107-46-0	373.67	31.211	1,2	4913	WCl5	tungsten (v) chloride	13470-14-9	559.15	68.100	1,2
4275	Si2C6H19N	disilazane, hexamethyl	999-97-3	399.15	34.558	1,2	4914	WCl6	tungsten (vi) chloride	13283-01-7	619.90	52.700	1,2
4286	Si2Cl6	disilane, hexachloro	13465-77-5	418.15	28.528	1,2	4917	WF6	tungsten fluoride	7783-82-6	290.25	26.500	1,2
4287	Si2Cl6O	disiloxane, hexachloro	14986-21-1	410.15	27.977	1,2	4926	WOCl4	tungsten (vi) oxytetrachloride	13520-78-0	500.70	67.800	1,2
4288	Si2F6	disilane, hexafluoro	---	254.25	17.716	1,2	4927	WOF4	tungsten (vi) oxytetrafluoride	13520-79-1	459.05	59.500	1,2
4288.1	Si2H5Cl	disilanyl chloride	---	314.70	25.086	1,2	4932	WO3	tungsten (vi) oxide	1314-35-8	2110.15	76.600	1,2
4289	Si2H6	disilane	1590-87-0	259.00	21.194	1,2	4945	Xe	xenon	7440-63-3	165.03	12.265	1,2
4290	Si2H6O	disiloxane	13597-73-4	257.95	19.329	1,2	4960	Y	yttrium	7440-65-5	3618.15	365.000	1,2
4291	Si2OCl3F3	disiloxane, trichlorotrifluoro	---	315.89	21.099	1,2	4995	Yb	ytterbium	7440-64-4	1469.15	158.934	1,2
4295	Si3Cl8	octachlorotrisilane	---	484.55	31.634	1,2	5021	Zn	zinc	7440-66-6	1180.15	123.600	1,2
4296	Si3H8	trisilane	7783-26-8	326.05	28.500	1,2	5024	ZnBr2	zinc bromide	7699-45-8	970.15	118.000	1,2
4297	Si3H9N	trisilazane	---	321.85	23.099	1,2	5062	ZnCl2	zinc chloride	7646-85-7	1005.15	126.000	1,2
4300	Si4H10	tetrasilane	7783-29-1	380.55	25.875	1,2	5069	ZnF2	zinc fluoride	7783-49-5	1773.15	190.100	1,2
4303	Sm	samarium	7440-19-9	2067.15	165.000	1,2	5113	Zr	zirconium	7440-67-7	4682.15	573.000	1,2
4332	Sn	tin (white)	7440-31-5	2875.15	296.100	1,2	5117	ZrBr4	zirconium bromide	13777-25-8	633.15	61.834	1,2
4334	SnBr2	tin (ii) bromide	10031-24-0	912.15	102.000	1,2	5138	ZrCl2	zirconium dichloride	13762-26-0	1565.15	45.000	1,2
4335	SnBr4	stannic bromide	7789-67-5	478.15	43.500	1,2	5142	ZrCl4	zirconium chloride	10026-11-6	604.15	58.723	1,2
4422	SnCl2	stannous chloride	7772-99-8	896.15	86.800	1,2	5152	ZrI4	zirconium iodide	13986-26-0	704.15	71.542	1,2
4424	SnCl4	stannic chloride	7646-78-8	387.30	34.900	1,2							

Code: 1 - data, 2 - estimate

* Use ID or CAS No for complete name (See Chapther 1 of this book).

Chapter 11

ENTHALPY OF FUSION AT FREEZING POINT – ORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 11 for enthalpy of fusion at freezing point. The tabulation is arranged by carbon number (C, C2, C3, ...) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. The next columns provides the freezing point and the enthalpy of fusion at the freezing point. The last column gives the code for the tabulation.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-21). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (2-3); Daubert and Danner (4); Domalski and Hearing (6); and Yaws (18-21) were used extensively. Estimates for enthalpy of fusion at the freezing point were primarily based on methods of Bondi (1, entropy), Joback (8, group contribution), and Chickos et al (11, group contribution).

Example

In an engineering analysis, the enthalpy of fusion is needed for carbon tetrachloride (CCl4) at the freezing point temperature of 250.33 K. Determine the enthalpy of fusion of carbon tetrachloride at the freezing point.

Inspection of the tabulation provides the following:

HFUS = 2.560 kjoule/mol

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Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
16	CBrCl3	bromotrichloromethane	75-62-7	252.15	2.030	1	635	C2H2Cl4	1,1,1,2-tetrachloroethane	630-20-6	202.94	10.310	2
29	CBr4	carbon tetrabromide	558-13-4	364.15	3.950	1	636	C2H2Cl4	1,1,2,2-tetrachloroethane	79-34-5	229.35	9.520	1
44	CCl2O	phosgene	75-44-5	145.37	5.738	1	642	C2H2F2	1,1-difluoroethylene	75-38-7	129.15	4.506	2
47	CCl3F	trichlorofluoromethane	75-69-4	162.04	7.900	1	643	C2H2F2	cis-1,2-difluoroethene	1630-77-9	107.90	7.298	2
50	CCl4	carbon tetrachloride	56-23-5	250.33	2.560	1	644	C2H2F2	trans-1,2-difluoroethene	1630-78-0	107.90	7.298	2
68	CF2O	carbonyl fluoride	353-50-4	159.15	6.708	1	650	C2H2F4	1,1,1,2-tetrafluoroethane	811-97-2	172.15	5.842	2
74	CF4	carbon tetrafluoride	75-73-0	89.56	0.712	1	651	C2H2F4	1,1,2,2-tetrafluoroethane	359-35-3	184.15	6.210	2
96	CHBr3	bromoform	75-25-2	281.20	11.100	1	660	C2H2I4	1,1,1,2-tetraiodoethane	---	346.46	11.146	2
97	CHClF2	chlorodifluoromethane	75-45-6	115.73	4.123	1	661	C2H2I4	1,1,2,2-tetraiodoethane	---	311.30	11.514	2
104	CHCl3	chloroform	67-66-3	209.63	8.800	1	688	C2H3Br	vinyl bromide	593-60-2	135.35	5.504	1
113	CHF3	fluoroform	75-46-7	117.97	4.059	1	697	C2H3Br3	1,1,1-tribromoethane	2311-14-0	293.62	9.377	2
115	CHF3S	trifluoromethanethiol	1493-15-8	116.04	4.925	1	698	C2H3Br3	1,1,2-tribromoethane	78-74-0	243.85	9.110	1
117	CHI3	iodoform	75-47-8	396.16	8.041	2	701	C2H3Cl	vinyl chloride	75-01-4	119.36	4.920	1
122	CHN	hydrogen cyanide	74-90-8	259.91	8.406	1	702	C2H3ClF2	1-chloro-1,1-difluoroethane	75-68-3	142.35	2.690	2
134	CHNaO2	sodium formate	141-53-7	530.45	17.710	1	710	C2H3ClO2	chloroacetic acid	79-11-8	333.15	12.285	2
137	CHO2Tl	thallium(i) formate	992-98-3	374.15	10.878	1	720	C2H3Cl3	1,1,1-trichloroethane	71-55-6	242.75	2.350	1
144	CH2Br2	dibromomethane	74-95-3	220.60	8.916	2	721	C2H3Cl3	1,1,2-trichloroethane	79-00-5	236.50	10.900	1
149	CH2Cl2	dichloromethane	75-09-2	178.01	6.160	1	728	C2H3F	vinyl fluoride	75-02-5	112.65	2.736	2
158	CH2F2	difluoromethane	75-10-5	137.00	4.400	1	735	C2H3F3	1,1,1-trifluoroethane	420-46-2	161.85	6.192	1
161	CH2I2	diiodomethane	75-11-6	279.25	12.100	1	736	C2H3F3	1,1,2-trifluoroethane	430-66-0	189.15	6.653	2
165	CH2N2	cyanamide	420-04-2	318.71	7.272	1	743	C2H3I	vinyl iodide	593-66-8	168.10	4.062	2
172	CH2N4	1H-tetrazole	288-94-8	430.45	18.400	1	746	C2H3I3	1,1,1-triiodoethane	594-21-8	366.15	6.740	2
175	CH2O	formaldehyde	50-00-0	181.15	7.050	2	747	C2H3I3	1,1,2-triiodoethane	---	270.98	10.631	2
176	CH2O2	formic acid	64-18-6	281.55	12.680	1	750	C2H3KO2	potassium acetate	127-08-2	582.15	7.649	1
179	CH2S3	trithiocarbonic acid	594-08-1	246.25	8.410	1	752	C2H3LiO2	lithium acetate	546-89-4	559.15	11.880	1
191	CH3Br	methyl bromide	74-83-9	179.55	5.979	1	753	C2H3N	acetonitrile	75-05-8	229.32	6.670	1
196	CH3Cl	methyl chloride	74-87-3	175.45	6.431	1	782	C2H3NaO2	sodium acetate	127-09-3	601.35	17.950	1
206	CH3Cl2OP	methylphosphonic dichloride	676-97-1	307.65	18.076	1	786	C2H3O2Tl	thallium(i) acetate	563-68-8	404.15	17.573	1
210	CH3Cl3Si	methyl trichlorosilane	75-79-6	195.35	8.945	1	787	C2H4	ethylene	74-85-1	104.01	3.350	1
213	CH3DO	methan-d1-ol	1455-13-6	173.15	3.038	1	790	C2H4BrCl	1-bromo-2-chloroethane	107-04-0	256.45	9.625	1
214	CH3F	methyl fluoride	593-53-3	131.35	1.426	2	798	C2H4Br2	1,1-dibromoethane	557-91-5	210.15	10.630	1
218	CH3F2OP	methyl difluorophosphite	676-99-3	236.34	11.878	1	799	C2H4Br2	1,2-dibromoethane	106-93-4	282.94	10.940	1
222	CH3I	methyl iodide	74-88-4	206.70	9.100	1	812	C2H4Cl2	1,1-dichloroethane	75-34-3	176.19	7.870	1
232	CH3NO	formamide	75-12-7	275.70	8.667	1	813	C2H4Cl2	1,2-dichloroethane	107-06-2	237.49	8.750	1
235	CH3NO2	nitromethane	75-52-5	244.60	9.703	1	814	C2H4Cl2	dichloroethane	1300-21-6	206.84	8.430	2
238	CH3NO3	methyl nitrate	598-58-3	190.86	8.240	1	834	C2H4F2	1,1-difluoroethane	75-37-6	156.15	3.573	2
251	CH4	methane	74-82-8	90.67	0.941	1	835	C2H4F2	1,2-difluoroethane	624-72-6	176.10	3.573	2
254	CH4Cl2Si	methyl dichlorosilane	75-54-7	182.55	9.870	1	844	C2H4I2	1,1-diiodoethane	594-02-5	212.92	6.225	2
260	CH4N2O	urea	57-13-6	406.45	13.610	1	845	C2H4I2	1,2-diiodoethane	624-73-7	356.16	9.748	2
272	CH4O	methyl alcohol	67-56-1	175.47	3.215	1	884	C2H4O	acetaldehyde	75-07-0	150.15	2.310	1
278	CH4S	methyl mercaptan	74-93-1	150.18	5.904	1	885	C2H4O	ethylene oxide	75-21-8	161.45	5.170	2
286	CH5N	methylamine	74-89-5	179.69	6.134	1	889	C2H4O2	acetic acid	64-19-7	289.81	11.720	1
312	CH6N2	methylhydrazine	60-34-4	220.79	10.418	1	890	C2H4O2	methyl formate	107-31-3	174.15	7.531	1
337	CI4	carbon tetraiodide	507-25-5	444.15	8.556	2	901	C2H4S	ethylene sulfide	420-12-2	165.37	1.657	2
372	CO	carbon monoxide	630-08-0	68.15	0.841	1	910	C2H5Br	bromoethane	74-96-4	154.55	5.858	1
373	COS	carbonyl sulfide	463-58-1	134.35	4.728	1	914	C2H5Cl	ethyl chloride	75-00-3	136.75	4.450	1
375	CO2	carbon dioxide	124-38-9	216.58	9.019	1	937	C2H5Cl3Si	trichloroethylsilane	115-21-9	167.55	6.958	1
382	CS2	carbon disulfide	75-15-0	161.58	4.389	1	939	C2H5F	ethyl fluoride	353-36-6	129.95	4.016	2
383	CSe2	carbon diselenide	506-80-9	229.45	6.360	1	948	C2H5I	ethyl iodide	75-03-6	162.05	5.342	2
413	C2Br2F4	1,2-dibromotetrafluoroethane	124-73-2	162.65	7.037	1	954	C2H5N	ethyleneimine	151-56-4	195.20	5.870	2
423	C2ClF3	chlorotrifluoroethylene	79-38-9	115.00	5.553	1	956	C2H5NO	acetamide	60-35-5	354.15	15.500	2
427	C2ClF5	chloropentafluoroethane	76-15-3	173.71	1.879	1	957	C2H5NO	N-methylformamide	123-39-7	269.35	14.300	2
441	C2Cl2F4	1,2-dichloro-1,1,2,2-tetrafluoroethane	76-14-2	179.15	1.510	1	958	C2H5NO2	nitroethane	79-24-3	183.63	9.850	1
449	C2Cl3F3	1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	238.15	2.326	1	964	C2H5NO3	ethyl nitrate	625-58-1	178.56	8.530	1
450	C2Cl3F3	1,1,1-trichloro-2,2,2-trifluoroethane	354-58-5	287.14	4.110	1	985	C2H6	ethane	74-84-0	90.35	2.860	1
455	C2Cl4	tetrachloroethylene	127-18-4	250.80	10.880	1	1003	C2H6Cd	dimethyl cadmium	506-82-1	268.65	7.837	1
456	C2Cl4F2	1,1,2,2-tetrachloro-1,2-difluoroethane	76-12-0	299.15	3.697	1	1017	C2H6Cl2Si	dichlorodimethylsilane	75-78-5	198.99	8.828	1
457	C2Cl4F2	1,1,1,2-tetrachloro-2,2-difluoroethane	76-11-9	313.75	3.990	1	1041	C2H6N2O	N-methylurea	598-50-5	373.80	15.571	1
463	C2Cl6	hexachloroethane	67-72-1	459.95	9.750	1	1065	C2H6O	ethyl alcohol	64-17-5	159.05	4.930	1
480	C2F2O2	oxalyl fluoride	359-40-0	260.73	13.407	1	1066	C2H6O	dimethyl ether	115-10-6	131.66	4.940	1
484	C2F3N	trifluoroacetonitrile	353-85-5	128.73	4.971	1	1067	C2H6OS	dimethyl sulfoxide	67-68-5	291.67	14.370	1
488	C2F4	tetrafluoroethylene	116-14-3	142.00	7.710	1	1072	C2H6O2	ethylene glycol	107-21-1	260.15	9.958	1
491	C2F4O	trifluoroacetyl fluoride	354-34-7	113.69	4.869	1	1092	C2H6S	ethyl mercaptan	75-08-1	125.26	4.970	1
494	C2F6	hexafluoroethane	76-16-4	172.45	2.686	1	1093	C2H6S	dimethyl sulfide	75-18-3	174.88	7.985	1
511	C2HBrClF3	halothane	151-67-7	157.40	4.840	1	1094	C2H6S2	dimethyl disulfide	624-92-0	188.44	9.192	2
539	C2HCl3	trichloroethylene	79-01-6	188.40	8.450	1	1097	C2H6Se	dimethyl selenide	593-79-3	185.14	8.499	1
547	C2HCl3O2	trichloroacetic acid	76-03-9	332.35	5.898	1	1098	C2H6Se2	dimethyl diselenide	7101-31-7	190.89	8.545	1
551	C2HCl5	pentachloroethane	76-01-7	244.15	11.340	1	1099	C2H6Zn	dimethyl zinc	544-97-8	230.15	6.830	1
554	C2HF3	trifluoroethene	359-11-5	94.53	9.068	2	1115	C2H7N	ethylamine	75-04-7	192.15	9.350	2
558	C2HF5	pentafluoroethane	354-33-6	170.15	2.250	1	1116	C2H7N	dimethylamine	124-40-3	180.96	5.941	1
571	C2H2	acetylene	74-86-2	192.40	3.760	1	1117	C2H7NO	monoethanolamine	141-43-5	283.65	20.496	1
592	C2H2Br4	1,1,2,2-tetrabromoethane	79-27-6	273.15	15.030	2	1118	C2H7NO	1-aminoethanol	75-39-8	370.15	23.621	2
593	C2H2Br4	1,1,1,2-tetrabromoethane	630-16-0	273.15	14.662	2	1159	C2H8N2	ethylenediamine	107-15-3	284.29	22.583	1
615	C2H2Cl2	1,1-dichloroethylene	75-35-4	150.65	6.510	1	1160	C2H8N2	1,1-dimethylhydrazine	57-14-7	215.95	10.073	1
616	C2H2Cl2	cis-1,2-dichloroethylene	156-59-2	193.15	7.205	1	1161	C2H8N2	1,2-dimethylhydrazine	540-73-8	264.25	13.638	1
617	C2H2Cl2	trans-1,2-dichloroethylene	156-60-5	223.35	11.983	1	1210	C2N2	cyanogen	460-19-5	245.25	8.109	1
618	C2H2Cl2	dichloroethylene	25323-30-2	192.75	8.730	2	1287	C3F6O	hexafluoroacetone	684-16-2	151.15	8.380	2
619	C2H2Cl2	1,2-dichloroethylene, cis and trans	540-59-0	216.15	8.730	2	1299	C3F8	octafluoropropane	76-19-7	125.46	0.480	2
620	C2H2Cl2F2	1,1-dichloro-1,2-difluoroethane	1842-05-3	238.36	8.192	1	1368	C3H2F6	1,1,1,2,2,3-hexafluoropropane	677-56-5	190.00	7.178	2
627	C2H2Cl2O2	dichloroacetic acid	79-43-6	286.55	12.340	1	1369	C3H2F6	1,1,1,2,3,3-hexafluoropropane	431-63-0	190.00	7.546	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
1370	C3H2F6	1,1,1,3,3,3-hexafluoropropane	690-39-1	179.53	7.178	2	1713	C3H5F	2-fluoro-1-propene	1184-60-7	139.50	4.016	2
1371	C3H2F6	1,1,2,2,3,3-hexafluoropropane	680-00-2	190.00	7.546	2	1714	C3H5F	3-fluoro-1-propene	818-92-8	190.00	5.326	2
1377	C3H2N2	malononitrile	109-77-3	304.90	10.800	2	1721	C3H5F3	1,1,1-trifluoropropane	421-07-8	124.35	5.352	2
1402	C3H3Cl	propargyl chloride	624-65-7	292.00	10.697	2	1722	C3H5F3	1,1,2-trifluoropropane	---	189.52	5.720	2
1449	C3H3F5	1,1,1,2,2-pentafluoropropane	1814-88-6	190.00	4.098	2	1723	C3H5F3	1,1,3-trifluoropropane	24270-67-5	204.52	9.243	2
1450	C3H3F5	1,1,1,2,3-pentafluoropropane	431-31-2	190.00	7.989	2	1724	C3H5F3	1,2,2-trifluoropropane	811-94-9	221.94	5.352	2
1451	C3H3F5	1,1,1,3,3-pentafluoropropane	460-73-1	190.00	7.989	2	1725	C3H5F3	1,2,3-trifluoropropane	66794-36-3	204.52	9.243	2
1452	C3H3F5	1,1,2,2,3-pentafluoropropane	679-86-7	190.00	7.989	2	1734	C3H5I	cis-1-iodo-1-propene	7796-36-3	176.05	8.134	2
1453	C3H3F5	1,1,2,3,3-pentafluoropropane	24270-66-4	190.00	8.357	2	1735	C3H5I	trans-1-iodo-1-propene	7796-54-5	176.05	8.134	2
1462	C3H3N	acrylonitrile	107-13-1	189.63	6.230	1	1736	C3H5I	2-iodo-1-propene	4375-96-6	165.41	5.342	2
1473	C3H3NS	thiazole	288-47-1	239.53	9.540	1	1737	C3H5I	3-iodo-1-propene	556-56-9	173.86	6.652	2
1492	C3H4	methylacetylene	74-99-7	170.45	6.500	2	1742	C3H5I3	1,1,1-triiodopropane	---	299.67	9.330	2
1493	C3H4	allene	463-49-0	136.87	4.400	1	1743	C3H5I3	1,1,2-triiodopropane	---	267.25	9.698	2
1514	C3H4Br4	1,1,1,2-tetrabromopropane	62127-49-5	349.69	13.729	2	1744	C3H5I3	1,1,3-triiodopropane	---	282.25	13.221	2
1515	C3H4Br4	1,1,1,3-tetrabromopropane	62127-50-8	364.69	17.252	2	1745	C3H5I3	1,2,2-triiodopropane	---	299.67	9.330	2
1516	C3H4Br4	1,1,2,2-tetrabromopropane	34570-59-7	349.69	13.729	2	1746	C3H5I3	1,2,3-triiodopropane	---	282.25	13.221	2
1517	C3H4Br4	1,1,2,3-tetrabromopropane	34581-76-5	332.27	17.620	2	1752	C3H5N	propionitrile	107-12-0	180.26	5.030	1
1518	C3H4Br4	1,1,3,3-tetrabromopropane	51525-97-4	332.27	17.620	2	1755	C3H5NO	acrylamide	79-06-1	357.65	15.330	2
1519	C3H4Br4	1,2,2,3-tetrabromopropane	54268-02-9	283.85	17.252	2	1756	C3H5NO	hydracrylonitrile	109-78-4	227.15	7.550	2
1533	C3H4Cl2	2,3-dichloropropene	78-88-6	191.50	9.330	2	1757	C3H5NO	lactonitrile	78-97-7	233.00	12.800	2
1534	C3H4Cl2	1,1-dichloropropene	563-58-6	191.50	9.330	2	1796	C3H5N3O9	nitroglycerine	55-63-0	286.15	26.600	1
1535	C3H4Cl2	cis-1,2-dichloropropene	6923-20-2	191.50	9.330	2	1803	C3H5NaO2	sodium propanoate	137-40-6	562.40	13.390	1
1536	C3H4Cl2	trans-1,2-dichloropropene	7069-38-7	191.50	9.330	2	1809	C3H6	cyclopropane	75-19-4	145.73	5.440	1
1537	C3H4Cl2	cis-1,3-dichloropropene	10061-01-5	191.50	9.330	2	1810	C3H6	propylene	115-07-1	87.90	3.003	1
1538	C3H4Cl2	trans-1,3-dichloropropene	10061-02-6	191.50	9.330	2	1824	C3H6Br2	1,1-dibromopropane	598-17-4	227.67	10.573	2
1539	C3H4Cl2	3,3-dichloropropene	563-57-5	191.50	9.330	2	1825	C3H6Br2	1,2-dibromopropane	78-75-1	217.96	10.573	2
1540	C3H4Cl2	1,3-dichloropropene; (cis+trans)	542-75-6	191.50	9.330	2	1826	C3H6Br2	1,3-dibromopropane	109-64-8	238.95	14.640	1
1541	C3H4Cl2	1,2-dichloropropene	563-54-2	191.50	9.330	2	1827	C3H6Br2	2,2-dibromopropane	594-16-1	245.09	6.682	2
1542	C3H4Cl2	dichloropropylene	26952-23-8	191.50	9.330	2	1844	C3H6Cl2	1,1-dichloropropane	78-99-9	167.91	8.397	2
1565	C3H4Cl4	1,1,1,2-tetrachloropropane	812-03-3	208.15	9.377	2	1845	C3H6Cl2	1,2-dichloropropane	78-87-5	172.71	6.400	1
1566	C3H4Cl4	1,1,1,3-tetrachloropropane	1070-78-6	237.74	10.489	1	1846	C3H6Cl2	1,3-dichloropropane	142-28-9	173.65	11.920	2
1567	C3H4Cl4	1,1,2,2-tetrachloropropane	13116-60-4	230.17	9.377	2	1847	C3H6Cl2	2,2-dichloropropane	594-20-7	239.36	2.340	1
1568	C3H4Cl4	1,1,2,3-tetrachloropropane	18495-30-2	212.75	13.268	2	1848	C3H6Cl2	1,2-dichloropropane, (±)	26198-63-0	172.62	7.577	2
1569	C3H4Cl4	1,1,3,3-tetrachloropropane	1653-17-4	212.75	13.268	2	1849	C3H6Cl2	dichloropropane	26638-19-7	172.65	7.577	2
1570	C3H4Cl4	1,2,2,3-tetrachloropropane	13116-53-5	245.17	12.900	2	1865	C3H6F2	1,1-difluoropropane	430-61-5	172.37	6.163	2
1578	C3H4F4	1,1,1,2-tetrafluoropropane	421-48-7	239.09	4.909	2	1866	C3H6F2	1,2-difluoropropane	62126-90-3	171.00	6.163	2
1579	C3H4F4	1,1,1,3-tetrafluoropropane	460-36-6	254.09	8.432	2	1867	C3H6F2	1,3-difluoropropane	462-39-5	187.37	9.686	2
1580	C3H4F4	1,1,2,2-tetrafluoropropane	40723-63-5	239.09	4.909	2	1868	C3H6F2	2,2-difluoropropane	420-45-1	168.35	2.272	2
1581	C3H4F4	1,1,2,3-tetrafluoropropane	---	221.67	8.800	2	1871	C3H6I2	1,1-diiodopropane	10250-52-9	224.19	8.815	2
1582	C3H4F4	1,1,3,3-tetrafluoropropane	---	221.67	8.800	2	1872	C3H6I2	1,2-diiodopropane	598-29-8	253.16	8.815	2
1583	C3H4F4	1,2,2,3-tetrafluoropropane	813-75-2	254.09	8.432	2	1873	C3H6I2	1,3-diiodopropane	627-31-6	260.15	12.338	2
1585	C3H4I4	1,1,1,2-tetraiodopropane	66794-31-8	342.73	10.213	2	1874	C3H6I2	2,2-diiodopropane	630-13-7	241.61	4.924	2
1586	C3H4I4	1,1,1,3-tetraiodopropane	66794-32-9	357.73	13.736	2	1891	C3H6N2O2	propanediamide	108-13-4	443.95	35.800	1
1587	C3H4I4	1,1,2,2-tetraiodopropane	66794-33-0	342.73	10.213	2	1896	C3H6N2O4	1,1-dinitropropane	601-76-3	231.15	2.179	2
1588	C3H4I4	1,1,2,3-tetraiodopropane	66794-21-6	325.31	14.104	2	1897	C3H6N2O4	1,3-dinitropropane	6125-21-9	251.75	2.179	2
1589	C3H4I4	1,1,3,3-tetraiodopropane	66794-34-1	325.31	14.104	2	1898	C3H6N2O4	2,2-dinitropropane	595-49-3	326.15	2.635	1
1590	C3H4I4	1,2,2,3-tetraiodopropane	66794-20-5	357.73	13.736	2	1918	C3H6N6O3	hexahydro-1,3,5-trinitroso-1,3,5-triazine	13980-04-6	376.00	3.766	1
1592	C3H4N2	imidazole	288-32-4	362.65	12.821	1	1920	C3H6O	allyl alcohol	107-18-6	144.15	5.120	2
1594	C3H4N2	1H-pyrazole	288-13-1	333.10	13.800	1	1921	C3H6O	methyl vinyl ether	107-25-5	151.15	5.990	2
1596	C3H4N2O	2-cyanoacetamide	107-91-5	387.30	21.700	1	1922	C3H6O	propionaldehyde	123-38-6	193.15	8.590	1
1621	C3H4O	acrolein	107-02-8	185.45	1.020	2	1923	C3H6O	acetone	67-64-1	178.45	5.720	1
1622	C3H4O	propargyl alcohol	107-19-7	221.35	10.588	2	1924	C3H6O	1,2-propylene oxide	75-56-9	161.22	6.533	1
1626	C3H4O2	acrylic acid	79-10-7	286.65	11.160	1	1930	C3H6O2	propanoic acid	79-09-4	252.45	10.660	1
1627	C3H4O2	beta-propiolactone	57-57-8	239.75	9.410	1	1931	C3H6O2	ethyl formate	109-94-4	193.55	9.205	1
1628	C3H4O2	vinyl formate	692-45-5	290.00	8.297	2	1932	C3H6O2	methyl acetate	79-20-9	175.15	7.486	1
1633	C3H4O3	ethylene carbonate	96-49-1	309.55	13.295	1	1933	C3H6O2	1,3-dioxolane	646-06-0	175.93	6.567	1
1642	C3H5Br	cis-1-bromo-1-propene	590-13-6	160.15	9.013	2	1942	C3H6O2S	3-mercaptopropionic acid	107-96-0	290.65	16.974	2
1643	C3H5Br	trans-1-bromo-1-propene	590-15-8	196.65	9.013	2	1948	C3H6O3	lactic acid	50-21-5	291.15	11.350	1
1644	C3H5Br	2-bromo-1-propene	557-93-7	147.15	6.221	2	1949	C3H6O3	methoxyacetic acid	625-45-6	281.00	10.500	1
1645	C3H5Br	3-bromo-1-propene	106-95-6	153.76	7.531	2	1950	C3H6O3	trioxane	110-88-3	334.65	15.100	1
1647	C3H5Br	1-bromo-1-propene; (cis+trans)	590-14-7	157.25	7.879	2	1967	C3H6S	thiacyclobutane	287-27-4	199.96	8.248	1
1663	C3H5Br3	1,1,1-tribromopropane	62127-61-1	304.89	11.967	2	1978	C3H7Br	1-bromopropane	106-94-5	163.15	6.527	2
1664	C3H5Br3	1,1,2-tribromopropane	14602-62-1	272.47	12.335	2	1979	C3H7Br	2-bromopropane	75-26-3	184.15	6.530	1
1665	C3H5Br3	1,1,3-tribromopropane	23511-78-6	287.47	15.858	2	1986	C3H7Cl	1-chloropropane	540-54-5	150.35	5.544	1
1666	C3H5Br3	1,2,2-tribromopropane	14476-30-3	304.89	11.967	2	1987	C3H7Cl	2-chloropropane	75-29-6	155.97	7.390	1
1667	C3H5Br3	1,2,3-tribromopropane	96-11-7	289.34	23.780	1	2020	C3H7F	1-fluoropropane	460-13-9	114.16	6.606	2
1668	C3H5Cl	cis-1-chloro-1-propene	16136-84-8	138.35	7.925	2	2021	C3H7F	2-fluoropropane	420-26-8	139.80	3.083	2
1669	C3H5Cl	trans-1-chloro-1-propene	16136-85-9	174.15	7.925	2	2025	C3H7I	1-iodopropane	107-08-4	171.85	7.932	2
1670	C3H5Cl	2-chloro-1-propene	557-98-2	135.75	5.133	2	2026	C3H7I	2-iodopropane	75-30-9	183.15	4.409	2
1671	C3H5Cl	3-chloro-1-propene	107-05-1	138.65	6.443	2	2030	C3H7N	allylamine	107-11-9	184.95	9.490	2
1672	C3H5Cl	1-chloro-1-propene	590-21-6	135.85	6.760	2	2036	C3H7NO	N,N-dimethylformamide	68-12-2	212.72	8.950	2
1676	C3H5ClO	alpha-epichlorohydrin	106-89-8	215.95	10.460	1	2037	C3H7NO	N-methylacetamide	79-16-3	301.15	9.730	2
1688	C3H5ClO2	methyl chloroacetate	96-34-4	241.03	11.288	2	2038	C3H7NO	N-ethylformamide	627-45-2	230.00	9.314	2
1703	C3H5Cl3	1,1,1-trichloropropane	7789-89-1	215.25	8.703	2	2045	C3H7NO2	1-nitropropane	108-03-2	169.16	13.398	2
1704	C3H5Cl3	1,1,2-trichloropropane	598-77-6	182.83	9.071	2	2046	C3H7NO2	2-nitropropane	79-46-9	181.83	10.228	2
1705	C3H5Cl3	1,1,3-trichloropropane	20395-25-9	214.17	12.594	2	2051	C3H7NO2	ethyl carbamate	51-79-6	322.15	16.794	1
1706	C3H5Cl3	1,2,2-trichloropropane	3175-23-3	215.25	8.703	2	2061	C3H7NO3	propyl nitrate	627-13-4	173.16	10.100	2
1707	C3H5Cl3	1,2,3-trichloropropane	96-18-4	258.45	12.594	2	2062	C3H7NO3	isopropyl nitrate	1712-64-7	173.16	10.100	1
1711	C3H5F	cis-1-fluoro-1-propene	19184-10-2	150.14	6.808	2	2094	C3H8	propane	74-98-6	85.46	3.524	1
1712	C3H5F	trans-1-fluoro-1-propene	20327-65-5	150.14	6.808	2	2111	C3H8N2O	N,N-dimethylurea	598-94-7	455.25	29.610	1

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
2112	C3H8N2O	N,N'-dimethylurea	96-31-1	379.75	13.620	1	2820	C4H6Cl2	1,4-dichloro-2-butene	764-41-0	276.65	13.639	2
2113	C3H8N2O	N-ethylurea	625-52-5	365.65	13.940	1	2821	C4H6Cl2	1,3-dichloro-2-butene, cis and trans	926-57-8	243.20	13.639	2
2129	C3H8O	propyl alcohol	71-23-8	146.95	5.372	1	2822	C4H6Cl2	dichlorobutene	11069-19-5	243.20	13.639	2
2130	C3H8O	isopropyl alcohol	67-63-0	185.28	5.410	1	2939.1	C4H6O	cis-crotonaldehyde	15798-64-8	158.38	8.860	2
2131	C3H8O	methyl ethyl ether	540-67-0	160.00	7.980	2	2940	C4H6O	trans-crotonaldehyde	123-73-9	196.65	8.860	2
2138	C3H8O2	2-methoxyethanol	109-86-4	188.05	8.330	2	2941	C4H6O	methacrolein	78-85-3	192.15	8.813	2
2139	C3H8O2	methylal	109-87-5	168.35	8.330	1	2944	C4H6O	divinyl ether	109-93-3	172.05	7.950	1
2140	C3H8O2	1,2-propanediol (propylene glycol)	57-55-6	213.15	7.570	2	2956	C4H6O	crotonaldehyde	4170-30-3	198.00	8.813	2
2141	C3H8O2	1,3-propanediol	504-63-2	246.45	12.000	2	2963	C4H6O2	2-butyne-1,4-diol	110-65-6	331.00	17.412	2
2143	C3H8O2	(R)-(-)-1,2-propanediol	4254-14-2	380.37	12.845	2	2965	C4H6O2	gamma-butyrolactone	96-48-0	229.78	9.570	1
2144	C3H8O2	(S)-(+)-1,2-propanediol	4254-15-3	380.37	12.845	2	2966	C4H6O2	cis-2-butenoic acid	503-64-0	288.65	12.570	1
2148	C3H8O3	glycerol	56-81-5	291.33	18.284	1	2967	C4H6O2	trans-2-butenoic acid	107-93-7	344.55	12.979	1
2158	C3H8S	propyl mercaptan	107-03-9	159.95	5.480	1	2968	C4H6O2	vinylacetic acid	625-38-7	238.15	14.979	2
2159	C3H8S	isopropyl mercaptan	75-33-2	142.61	5.740	1	2969	C4H6O2	methacrylic acid	79-41-4	288.15	8.063	2
2160	C3H8S	methyl ethyl sulfide	624-89-5	167.20	9.761	1	2970	C4H6O2	methyl acrylate	96-33-3	196.32	9.730	1
2165	C3H9Al	trimethyl aluminum	75-24-1	288.55	8.791	1	2971	C4H6O2	vinyl acetate	108-05-4	180.35	8.460	1
2168	C3H9As	trimethylarsine	593-88-4	185.85	8.962	1	2972	C4H6O2	allyl formate	1838-59-1	188.34	9.084	2
2173	C3H9B	trimethylborane	593-90-8	111.65	3.250	1	2978	C4H6O2	cyclopropanecarboxylic acid	1759-53-1	291.65	12.487	2
2190	C3H9ClSi	trimethylchlorosilane	75-77-4	233.15	9.682	1	2981	C4H6O2	crotonic acid	3724-65-0	290.23	12.487	2
2193	C3H9Ga	trimethylgallium	1445-79-0	257.35	10.602	1	2990	C4H6O3	acetic anhydride	108-24-7	200.15	10.502	1
2200	C3H9N	propylamine	107-10-8	190.15	10.974	1	2995	C4H6O3	propylene carbonate	108-32-7	224.35	9.617	1
2201	C3H9N	isopropylamine	75-31-0	177.95	7.325	1	3006	C4H6O4	succinic acid	110-15-6	461.15	32.950	2
2202	C3H9N	methylethylamine	624-78-2	195.00	8.671	2	3024	C4H6O5	malic acid	6915-15-7	403.15	30.170	2
2203	C3H9N	trimethylamine	75-50-3	156.08	6.544	1	3033	C4H6O6	tartaric acid	87-69-4	479.15	32.300	2
2204	C3H9NO	1-amino-2-propanol	78-96-6	274.89	13.557	2	3047	C4H7Br	cis-1-bromo-1-butene	31849-78-2	189.06	11.603	2
2205	C3H9NO	3-amino-1-propanol	156-87-6	284.15	15.900	2	3048	C4H7Br	trans-1-bromo-1-butene	32620-08-9	172.85	11.603	2
2206	C3H9NO	methylethanolamine	109-83-1	268.65	8.760	2	3049	C4H7Br	2-bromo-1-butene	23074-36-4	139.75	8.811	2
2207	C3H9NO	2-amino-1-propanol, (±)	6168-72-5	286.52	13.169	2	3050	C4H7Br	3-bromo-1-butene	22037-73-6	177.38	6.598	2
2210	C3H9NO	s(+)-2-amino-1-propanol	2749-11-3	286.52	13.169	2	3051	C4H7Br	4-bromo-1-butene	5162-44-7	192.38	10.121	2
2211	C3H9NO	(R)-(-)-1-amino-2-propanol	2799-16-8	297.65	13.169	2	3052	C4H7Br	1-bromo-cis-2-butene	39616-19-8	189.06	11.603	2
2212	C3H9NO	(S)-(+)-1-amino-2-propanol	2799-17-9	295.65	13.169	2	3053	C4H7Br	1-bromo-trans-2-butene	29576-14-5	189.06	11.603	2
2213	C3H9NO	(R)-(-)-2-amino-1-propanol	35320-23-1	286.52	13.169	2	3054	C4H7Br	2-bromo-cis-2-butene	3017-68-3	161.95	10.293	2
2214	C3H9NO	2-aminopropanol	78-91-1	298.15	13.169	2	3055	C4H7Br	2-bromo-trans-2-butene	3017-71-8	157.75	10.293	2
2255	C3H10N2	1,2-propanediamine	78-90-0	236.53	18.420	1	3056	C4H7Br	1-bromo-2-methyl-1-propene	3017-69-4	175.10	10.293	2
2257	C3H10N2	1,2-propanediamine, (±)	10424-38-1	236.53	18.423	1	3057	C4H7Br	3-bromo-2-methyl-1-propene	1458-98-6	178.42	8.811	2
2258	C3H10N2	1,3-propanediamine	109-76-2	236.53	18.421	2	3058	C4H7Br	1-bromo-2-butene	4784-77-4	174.80	10.187	2
2259	C3H10N2	trimethylhydrazine	1741-01-1	201.24	9.485	1	3059	C4H7Br	2-bromo-2-butene; (cis+trans)	13294-71-8	174.80	10.187	2
2276	C3H12BN	trimethylamine borane	75-22-9	367.15	4.947	1	3083	C4H7Br3	1,1,1-tribromobutane	62127-62-2	316.16	14.557	2
2336	C4F8	octafluorocyclobutane	115-25-3	232.96	2.768	2	3084	C4H7Br3	1,1,2-tribromobutane	3675-68-1	283.74	14.925	2
2338.1	C4F8O	pentafluoroethyl trifluorovinyl ether	10493-43-3	128.00	5.013	2	3085	C4H7Br3	1,1,3-tribromobutane	---	283.74	14.925	2
2374	C4H2	biacetylene	460-12-8	237.16	12.064	2	3086	C4H7Br3	1,1,4-tribromobutane	---	298.74	18.448	2
2420.1	C4H2N2	maleonitrile	928-53-0	304.40	17.700	2	3087	C4H7Br3	1,2,2-tribromobutane	3675-69-2	316.16	14.557	2
2430	C4H2O3	maleic anhydride	108-31-6	326.00	12.260	1	3088	C4H7Br3	1,2,3-tribromobutane	632-05-3	254.15	14.925	2
2446	C4H3BrS	2-bromothiophene	1003-09-4	205.30	7.903	1	3089	C4H7Br3	1,2,4-tribromobutane	38300-67-3	255.15	18.448	2
2462	C4H3ClS	2-chlorothiophene	96-43-5	201.25	8.966	1	3090	C4H7Br3	1,3,3-tribromobutane	62127-46-2	316.16	14.557	2
2562	C4H4N2	succinonitrile	110-61-2	331.30	3.703	1	3091	C4H7Br3	2,3,3-tribromobutane	62127-47-3	275.00	11.034	2
2592	C4H4O	furan	110-00-9	187.55	3.800	1	3092	C4H7Br3	1,1,1-tribromo-2-methylpropane	---	301.16	11.034	2
2598	C4H4O2	diketene	674-82-8	266.65	14.430	1	3093	C4H7Br3	1,1,2-tribromo-2-methylpropane	15331-16-5	301.16	11.034	2
2603	C4H4O3	succinic anhydride	108-30-5	393.00	20.415	1	3094	C4H7Br3	1,1,3-tribromo-2-methylpropane	---	283.74	14.925	2
2608	C4H4O4	1,4-dioxane-2,5-dione	502-97-6	355.15	14.800	1	3095	C4H7Br3	1,2,3-tribromo-2-methylpropane	631-28-7	316.16	14.557	2
2613	C4H4S	thiophene	110-02-1	234.94	5.086	1	3096	C4H7Br3	1,3-dibromo-2-(bromomethyl)propane	62127-48-4	241.15	18.448	2
2614	C4H4Se	selenophene	288-05-1	239.25	4.584	1	3098	C4H7Cl	cis-1-chloro-1-butene	7611-86-1	159.18	10.515	2
2634	C4H5Cl	chloroprene	126-99-8	143.15	6.443	2	3099	C4H7Cl	trans-1-chloro-1-butene	7611-87-2	159.18	10.515	2
2653	C4H5ClO2	cis-3-chlorobutenoic acid	6213-90-7	334.15	13.810	1	3100	C4H7Cl	2-chloro-1-butene	2211-70-3	148.54	7.723	2
2695	C4H5N	trans-crotonitrile	627-26-9	222.00	9.820	2	3101	C4H7Cl	3-chloro-1-butene	563-52-0	147.50	5.510	2
2696	C4H5N	cis-crotonitrile	1190-76-7	200.55	8.540	2	3102	C4H7Cl	4-chloro-1-butene	927-73-1	162.50	9.033	2
2697	C4H5N	methacrylonitrile	126-98-7	237.35	10.042	2	3103	C4H7Cl	1-chloro-cis-2-butene	4628-21-1	159.18	10.515	2
2698	C4H5N	vinylacetonitrile	109-75-1	186.15	10.100	2	3104	C4H7Cl	1-chloro-trans-2-butene	4894-61-5	159.18	10.515	2
2699	C4H5N	2-butenenitrile	4786-20-3	221.65	10.042	2	3105	C4H7Cl	2-chloro-cis-2-butene	2211-69-0	155.85	9.205	2
2701	C4H5N	pyrrole	109-97-7	249.74	7.910	1	3106	C4H7Cl	2-chloro-trans-2-butene	2211-68-9	167.35	9.205	2
2716	C4H5NO2	succinimide	123-56-8	399.65	17.000	1	3107	C4H7Cl	1-chloro-2-methyl-1-propene	513-37-1	145.22	9.205	2
2727	C4H5NS	2-methylthiazole	3581-87-1	248.42	12.163	1	3108	C4H7Cl	3-chloro-2-methyl-1-propene	563-47-3	148.54	7.723	2
2754	C4H6	dimethylacetylene	503-17-3	240.91	9.250	1	3110	C4H7Cl	1-chloro-2-butene	591-97-9	208.25	9.291	2
2755	C4H6	ethylacetylene	107-00-6	147.43	6.030	1	3111	C4H7Cl	2-chloro-2-butene	4461-41-0	160.04	9.291	2
2756	C4H6	1,2-butadiene	590-19-2	136.95	6.960	1	3156	C4H7Cl3	1,1,1-trichlorobutane	13279-85-1	226.52	11.293	2
2757	C4H6	butadiene (1,3 butadiene)	106-99-0	164.25	7.980	1	3157	C4H7Cl3	1,1,2-trichlorobutane	---	194.10	11.661	2
2806	C4H6Cl2	1,3-dichloro-trans-2-butene	7415-31-8	225.15	13.402	2	3158	C4H7Cl3	1,1,3-trichlorobutane	13279-87-3	194.10	11.661	2
2807	C4H6Cl2	1,4-dichloro-cis-2-butene	1476-11-5	225.15	14.712	2	3159	C4H7Cl3	1,1,4-trichlorobutane	66250-03-1	209.10	15.184	2
2808	C4H6Cl2	1,4-dichloro-trans-2-butene	110-57-6	274.15	14.712	2	3160	C4H7Cl3	1,2,2-trichlorobutane	---	226.52	11.293	2
2809	C4H6Cl2	3,4-dichloro-1-butene	760-23-6	212.00	9.707	2	3161	C4H7Cl3	1,2,3-trichlorobutane	18338-40-4	194.10	11.661	2
2810	C4H6Cl2	3-chloro-2-(chloromethyl)-1-propene	1871-57-4	259.15	13.639	2	3162	C4H7Cl3	1,2,4-trichlorobutane	1790-22-3	209.10	15.184	2
2811	C4H6Cl2	1,3-dichloro-1-butene	52497-07-1	243.20	13.639	2	3163	C4H7Cl3	1,3,3-trichlorobutane	13280-60-9	226.52	11.293	2
2812	C4H6Cl2	2,3-dichloro-1-butene	7013-11-8	243.20	13.639	2	3164	C4H7Cl3	2,3,3-trichlorobutane	10403-60-8	211.52	7.770	2
2813	C4H6Cl2	1,1-dichloro-2-butene	56800-09-0	243.20	13.639	2	3165	C4H7Cl3	1,1,1-trichloro-2-methylpropane	---	211.52	7.770	2
2814	C4H6Cl2	1,2-dichloro-2-butene	13602-13-6	243.20	13.639	2	3166	C4H7Cl3	1,1,2-trichloro-2-methylpropane	29559-52-2	267.15	7.770	2
2815	C4H6Cl2	cis-1,3-dichloro-2-butene	10075-38-4	243.20	13.639	2	3167	C4H7Cl3	1,1,3-trichloro-2-methylpropane	62108-65-0	267.15	11.661	2
2816	C4H6Cl2	cis-2,3-dichloro-2-butene	1587-26-4	243.20	13.639	2	3168	C4H7Cl3	1,2,3-trichloro-2-methylpropane	1871-58-5	226.52	11.293	2
2817	C4H6Cl2	trans-2,3-dichloro-2-butene	1587-29-7	243.20	13.639	2	3169	C4H7Cl3	1,3-dichloro-2-(chloromethyl)-propane	2014-83-7	209.10	15.184	2
2818	C4H6Cl2	1,1-dichloro-2-methyl-1-propene	6065-93-6	230.15	13.639	2	3177	C4H7F	cis-1-fluoro-1-butene	66675-34-1	161.41	9.398	2
2819	C4H6Cl2	3,3-dichloro-2-methyl-1-propene	22227-75-4	243.20	13.639	2	3178	C4H7F	trans-1-fluoro-1-butene	66675-35-2	161.41	9.398	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
3179	C4H7F	2-fluoro-1-butene	430-44-4	150.77	6.606	2	3370	C4H8Cl2	2,3-dichlorobutane, dl and meso	7581-97-7	193.25	9.533	2
3180	C4H7F	3-fluoro-1-butene	---	149.73	4.393	2	3371	C4H8Cl2	mixo-dichlorobutane	26761-81-9	190.15	9.533	2
3181	C4H7F	4-fluoro-1-butene	---	164.73	7.916	2	3375	C4H8Cl2O	bis(2-chloroethyl) ether	111-44-4	221.25	8.385	1
3182	C4H7F	cis-1-fluoro-2-butene	---	161.41	9.398	2	3389	C4H8F2	1,1-difluorobutane	2358-38-5	183.64	8.753	2
3183	C4H7F	trans-1-fluoro-2-butene	---	161.41	9.398	2	3390	C4H8F2	1,2-difluorobutane	686-65-7	183.64	8.753	2
3184	C4H7F	cis-2-fluoro-2-butene	66675-38-5	147.45	8.088	2	3391	C4H8F2	1,3-difluorobutane	691-42-9	183.64	8.753	2
3185	C4H7F	trans-2-fluoro-2-butene	66675-39-6	147.45	8.088	2	3392	C4H8F2	1,4-difluorobutane	372-90-7	198.64	12.276	2
3186	C4H7F	1-fluoro-2-methyl-1-propene	---	147.45	8.088	2	3393	C4H8F2	2,2-difluorobutane	353-81-1	155.65	4.862	2
3187	C4H7F	3-fluoro-2-methyl-1-propene	---	150.77	6.606	2	3394	C4H8F2	2,3-difluorobutane	666-21-7	168.64	5.230	2
3192	C4H7F3	1,1,1-trifluorobutane	460-34-4	158.35	7.942	2	3395	C4H8F2	1,1-difluoro-2-methylpropane	62126-91-4	168.64	5.230	2
3193	C4H7F3	1,1,2-trifluorobutane	---	200.79	8.310	2	3396	C4H8F2	1,2-difluoro-2-methylpropane	62126-92-5	201.06	4.862	2
3194	C4H7F3	1,1,3-trifluorobutane	---	200.79	8.310	2	3397	C4H8F2	1,3-difluoro-2-methylpropane	62126-93-6	183.64	8.753	2
3195	C4H7F3	1,1,4-trifluorobutane	---	215.79	11.833	2	3401	C4H8I2	1,1-diiodobutane	66587-65-3	235.46	11.405	2
3196	C4H7F3	1,2,2-trifluorobutane	---	233.21	7.942	2	3402	C4H8I2	1,2-diiodobutane	53161-72-1	279.06	11.405	2
3197	C4H7F3	1,2,3-trifluorobutane	---	200.79	8.310	2	3403	C4H8I2	1,3-diiodobutane	18371-24-9	235.46	11.405	2
3198	C4H7F3	1,2,4-trifluorobutane	---	215.79	11.833	2	3404	C4H8I2	1,4-diiodobutane	628-21-7	279.05	14.928	2
3199	C4H7F3	1,3,3-trifluorobutane	---	233.21	7.942	2	3405	C4H8I2	2,2-diiodobutane	29443-50-3	252.88	7.514	2
3200	C4H7F3	2,3,3-trifluorobutane	---	218.21	4.419	2	3406	C4H8I2	2,3-diiodobutane	66587-66-4	220.46	7.882	2
3201	C4H7F3	1,1,1-trifluoro-2-methylpropane	---	218.21	4.419	2	3407	C4H8I2	1,1-diiodo-2-methylpropane	10250-55-2	220.46	7.882	2
3202	C4H7F3	1,1,2-trifluoro-2-methylpropane	---	218.21	4.419	2	3408	C4H8I2	1,2-diiodo-2-methylpropane	66794-23-8	252.88	7.514	2
3203	C4H7F3	1,1,3-trifluoro-2-methylpropane	---	200.79	8.310	2	3409	C4H8I2	1,3-diiodo-2-methylpropane	17616-44-3	235.46	11.405	2
3204	C4H7F3	1,3-difluoro-2-(fluoromethyl)-propane	---	215.79	11.833	2	3476	C4H8O	ethyl vinyl ether	109-92-2	157.35	1.850	2
3209	C4H7I	cis-1-iodo-1-butene	54068-75-6	187.32	10.724	2	3477	C4H8O	3-methoxy-1-propene	627-40-7	157.35	1.850	2
3210	C4H7I	trans-1-iodo-1-butene	62154-92-1	187.32	10.724	2	3478	C4H8O	butyraldehyde	123-72-8	176.75	11.104	1
3211	C4H7I	2-iodo-1-butene	24308-61-0	176.68	7.932	2	3479	C4H8O	isobutyraldehyde	78-84-2	208.15	12.000	1
3212	C4H7I	3-iodo-1-butene	62154-74-9	175.64	5.719	2	3480	C4H8O	methyl ethyl ketone	78-93-3	186.48	8.440	1
3213	C4H7I	4-iodo-1-butene	7766-51-0	190.64	9.242	2	3481	C4H8O	tetrahydrofuran	109-99-9	164.65	8.540	1
3214	C4H7I	1-iodo-cis-2-butene	53121-23-6	187.32	10.724	2	3504	C4H8O2	butyric acid	107-92-6	267.95	11.070	1
3215	C4H7I	1-iodo-trans-2-butene	38169-04-9	187.32	10.724	2	3505	C4H8O2	isobutyric acid	79-31-2	227.15	5.021	1
3216	C4H7I	2-iodo-cis-2-butene	24298-09-7	173.36	9.414	2	3506	C4H8O2	propyl formate	110-74-7	180.25	13.200	2
3217	C4H7I	2-iodo-trans-2-butene	24298-08-6	173.36	9.414	2	3507	C4H8O2	isopropyl formate	625-55-8	178.04	8.644	2
3218	C4H7I	1-iodo-2-methyl-1-propene	20687-01-8	173.36	9.414	2	3508	C4H8O2	ethyl acetate	141-78-6	189.60	10.480	1
3219	C4H7I	3-iodo-2-methyl-1-propene	3756-30-7	176.68	7.932	2	3509	C4H8O2	methyl propanoate	554-12-1	185.65	10.100	2
3224	C4H7I3	1,1,1-triiodobutane	---	310.94	11.920	2	3510	C4H8O2	1,4-dioxane	123-91-1	284.95	12.840	1
3225	C4H7I3	1,1,2-triiodobutane	---	278.52	12.288	2	3511	C4H8O2	cis-2-butene-1,4-diol	6117-80-2	284.15	14.500	2
3226	C4H7I3	1,1,3-triiodobutane	---	278.52	12.288	2	3512	C4H8O2	trans-2-butene-1,4-diol	821-11-4	300.45	14.500	2
3227	C4H7I3	1,1,4-triiodobutane	---	293.52	15.811	2	3513	C4H8O2	3-butene-1,2-diol	497-06-3	288.25	14.310	2
3228	C4H7I3	1,2,2-triiodobutane	---	310.94	11.920	2	3526	C4H8O2	2-butene-1,4-diol	110-64-5	280.15	14.310	2
3229	C4H7I3	1,2,3-triiodobutane	---	278.52	12.288	2	3533	C4H8O2	R,S-3-butene-1,2-diol	86161-40-2	288.25	14.310	2
3230	C4H7I3	1,2,4-triiodobutane	---	293.52	15.811	2	3536	C4H8O2S	sulfolane	126-33-0	300.75	1.430	1
3231	C4H7I3	1,3,3-triiodobutane	---	310.94	11.920	2	3581	C4H8S	tetrahydrothiophene	110-01-0	176.99	7.350	1
3232	C4H7I3	2,2,3-triiodobutane	---	295.94	8.397	2	3590	C4H8S2	1,3-dithiane	505-23-7	327.15	14.400	1
3233	C4H7I3	1,1,1-triiodo-2-methylpropane	---	295.94	8.397	2	3591	C4H8S2	1,4-dithiane	505-29-3	385.45	21.600	1
3234	C4H7I3	1,1,2-triiodo-2-methylpropane	---	295.94	8.397	2	3598	C4H9Br	1-bromobutane	109-65-9	160.75	9.230	1
3235	C4H7I3	1,1,3-triiodo-2-methylpropane	---	278.52	12.288	2	3599	C4H9Br	2-bromobutane	78-76-2	161.25	6.880	1
3236	C4H7I3	1,2,3-triiodo-2-methylpropane	---	310.94	11.920	2	3600	C4H9Br	1-bromo-2-methylpropane	78-77-3	155.75	7.878	2
3237	C4H7I3	1,3-diiodo-2-(iodomethyl)-propane	---	293.52	15.811	2	3601	C4H9Br	2-bromo-2-methylpropane	507-19-7	256.95	1.970	1
3238	C4H7N	butyronitrile	109-74-0	161.25	5.021	1	3602	C4H9Br	2-bromobutane, (±)	5787-31-5	160.50	7.087	2
3239	C4H7N	isobutyronitrile	78-82-0	201.70	10.300	2	3610	C4H9Cl	1-chlorobutane	109-69-3	150.05	10.313	2
3247	C4H7NO	2-methacrylamide	79-39-0	383.65	15.000	2	3611	C4H9Cl	1-chloro-2-methylpropane	513-36-0	142.85	6.790	2
3248	C4H7NO	3-methoxypropionitrile	110-67-8	210.12	15.900	2	3612	C4H9Cl	2-chlorobutane	78-86-4	141.85	6.790	2
3249	C4H7NO	2-pyrrolidone	616-45-5	298.15	13.920	1	3613	C4H9Cl	2-chloro-2-methylpropane	507-20-0	247.75	2.071	1
3316	C4H7NaO2	butyric acid sodium salt	156-54-7	524.65	10.418	1	3614	C4H9Cl	2-chlorobutane	53178-20-4	141.85	7.110	2
3319	C4H8	cyclobutane	287-23-0	182.48	1.090	1	3657	C4H9F	1-fluorobutane	2366-52-1	139.15	9.196	2
3320	C4H8	1-butene	106-98-9	87.80	3.850	1	3658	C4H9F	2-fluorobutane	359-01-3	151.75	5.673	2
3321	C4H8	2-butene; (cis+trans)	107-01-7	130.62	6.567	2	3659	C4H9F	1-fluoro-2-methylpropane	359-00-2	151.49	5.673	2
3322	C4H8	cis-2-butene	590-18-1	134.26	7.310	1	3660	C4H9F	2-fluoro-2-methylpropane	353-61-7	196.15	1.782	2
3323	C4H8	trans-2-butene	624-64-6	167.62	9.760	1	3666	C4H9I	1-iodobutane	542-69-8	170.15	10.522	2
3324	C4H8	isobutene	115-11-7	132.81	5.920	1	3667	C4H9I	2-iodobutane	513-48-4	169.15	6.999	2
3333	C4H8Br2	1,1-dibromobutane	62168-25-6	238.94	13.163	2	3668	C4H9I	1-iodo-2-methylpropane	513-38-2	182.45	6.999	2
3334	C4H8Br2	1,2-dibromobutane	533-98-2	207.76	13.163	2	3669	C4H9I	2-iodo-2-methylpropane	558-17-8	234.96	3.108	2
3335	C4H8Br2	1,3-dibromobutane	107-80-2	238.94	13.163	2	3670	C4H9I	2-iodobutane, (±)	52152-71-3	168.95	7.165	2
3336	C4H8Br2	1,4-dibromobutane	110-52-1	256.62	16.686	2	3675	C4H9N	pyrrolidine	123-75-1	215.31	8.580	1
3337	C4H8Br2	2,2-dibromobutane	50341-35-0	256.36	9.272	2	3681	C4H9NO	N,N-dimethylacetamide	127-19-5	253.15	10.418	2
3338	C4H8Br2	DL-2,3-dibromobutane	598-71-0	223.94	9.640	2	3682	C4H9NO	morpholine	110-91-8	270.05	9.200	2
3339	C4H8Br2	meso-2,3-dibromobutane	5780-13-2	238.65	9.640	2	3697	C4H9NO2	1-nitrobutane	627-05-4	191.83	15.729	2
3340	C4H8Br2	1,1-dibromo-2-methylpropane	33693-78-6	223.94	9.640	2	3698	C4H9NO2	2-nitrobutane	600-24-8	141.16	12.559	2
3341	C4H8Br2	1,2-dibromo-2-methylpropane	594-34-3	283.65	9.272	2	3699	C4H9NO2	1-nitro-2-methylpropane	625-74-1	196.30	12.559	2
3342	C4H8Br2	1,3-dibromo-2-methylpropane	28148-04-1	238.94	13.163	2	3700	C4H9NO2	2-nitro-2-methylpropane	594-70-7	299.38	9.057	2
3343	C4H8Br2	2,3-dibromobutane	5408-86-6	249.15	11.811	2	3715	C4H9NO2	2-nitrobutane, (±)	116781-85-2	141.15	12.859	2
3360	C4H8Cl2	1,1-dichlorobutane	541-33-3	179.18	10.987	2	3732	C4H9NO3	2-methyl-2-nitro-1-propanol	76-39-1	362.65	3.738	1
3361	C4H8Cl2	1,2-dichlorobutane	616-21-7	179.18	10.987	2	3733	C4H9NO3	2-nitro-1-butanol	609-31-4	226.15	3.035	2
3362	C4H8Cl2	1,3-dichlorobutane	1190-22-3	179.18	10.987	2	3734	C4H9NO3	1-nitro-2-butanol	3156-74-9	294.40	3.035	2
3363	C4H8Cl2	1,4-dichlorobutane	110-56-5	235.85	14.510	2	3735	C4H9NO3	3-nitro-2-butanol	6270-16-2	294.40	3.035	2
3364	C4H8Cl2	2,2-dichlorobutane	4279-22-5	199.15	7.096	2	3749	C4H9NO4	2-methyl-2-nitro-1,3-propanediol	77-49-6	423.25	3.844	1
3365	C4H8Cl2	DL-2,3-dichlorobutane	2211-67-8	193.15	7.464	2	3783	C4H10	butane	106-97-8	134.86	4.660	1
3366	C4H8Cl2	meso-2,3-dichlorobutane	4028-56-2	192.75	7.464	2	3784	C4H10	isobutane	75-28-5	113.54	4.540	1
3367	C4H8Cl2	1,1-dichloro-2-methylpropane	598-76-5	164.18	7.464	2	3809	C4H10Cl2Si	dichlorodiethylsilane	1719-53-5	176.65	8.958	1
3368	C4H8Cl2	1,2-dichloro-2-methylpropane	594-37-6	196.60	7.096	2	3821	C4H10Hg	diethyl mercury	627-44-1	181.45	10.500	1
3369	C4H8Cl2	1,3-dichloro-2-methylpropane	616-19-3	179.18	10.987	2	3830	C4H10N2	piperazine	110-85-0	379.15	11.700	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
3836	C4H10N2O	trimethylurea	632-14-4	348.65	14.300	1	4490	C5H6N2	glutaronitrile	544-13-8	244.21	12.590	1
3838	C4H10N2O	isopropylurea(mono)	691-60-1	427.40	17.400	1	4491	C5H6N2	dimethylpropanedinitrile	7321-55-3	307.47	4.054	1
3843	C4H10N2O	1-propylurea	627-06-5	381.00	14.630	1	4515	C5H6N2O2	thymine	65-71-4	321.30	17.510	1
3865	C4H10O	butanol	71-36-3	183.85	9.280	1	4534	C5H6O	2-methylfuran	534-22-5	178.87	8.550	2
3866	C4H10O	isobutanol	78-83-1	165.15	6.320	1	4535	C5H6O	3-methylfuran	930-27-8	182.44	8.635	2
3867	C4H10O	sec-butanol	78-92-2	158.45	5.970	1	4548	C5H6O2	furfuryl alcohol	98-00-0	258.52	13.130	1
3868	C4H10O	tert-butanol	75-65-0	298.97	6.700	1	4587	C5H6S	2-methylthiophene	554-14-3	209.77	11.142	1
3869	C4H10O	diethyl ether	60-29-7	156.85	7.190	1	4588	C5H6S	3-methylthiophene	616-44-4	204.18	10.540	1
3870	C4H10O	methyl propyl ether	557-17-5	133.97	7.670	1	4658	C5H7N	N-methylpyrrole	96-54-8	216.91	7.820	1
3871	C4H10O	methyl isopropyl ether	598-53-8	127.93	5.850	1	4659	C5H7N	2-methylpyrrole	636-41-9	237.55	8.162	2
3872	C4H10O	(R)-(-)-2-butanol	14898-79-4	159.25	6.976	2	4660	C5H7N	3-methylpyrrole	616-43-3	224.75	8.162	2
3873	C4H10O	(S)-(+)-2-butanol	4221-99-2	159.25	6.976	2	4677	C5H7NO2	ethyl cyanoacetate	105-56-6	250.65	11.780	1
3874	C4H10O	(<+->)-2-butanol	15892-23-6	187.49	6.976	2	4736	C5H8	spiropentane	157-40-4	166.11	6.430	1
3882	C4H10O2	1,2-dimethoxyethane	110-71-4	215.15	12.556	1	4737	C5H8	cyclopentene	142-29-0	138.13	3.360	1
3884	C4H10O2	1,2-butanediol	584-03-2	240.98	10.769	2	4738	C5H8	isoprene	78-79-5	127.20	4.920	1
3885	C4H10O2	1,3-butanediol	107-88-0	196.15	8.320	2	4739	C5H8	3-methyl-1,2-butadiene	598-25-4	159.53	7.950	1
3886	C4H10O2	1,4-butanediol	110-63-4	293.05	18.700	1	4740	C5H8	1,2-pentadiene	591-95-7	135.89	7.560	1
3887	C4H10O2	DL-2,3-butanediol	6982-25-8	292.15	11.300	2	4741	C5H8	cis-1,3-pentadiene	1574-41-0	132.35	5.640	1
3888	C4H10O2	meso-2,3-butanediol	5341-95-7	225.98	12.455	2	4742	C5H8	trans-1,3-pentadiene	2004-70-8	185.71	7.140	1
3889	C4H10O2	2-methyl-1,2-propanediol	558-43-0	258.40	12.455	2	4743	C5H8	1,4-pentadiene	591-93-5	124.86	6.073	1
3890	C4H10O2	1-methyl-1,3-propanediol	18826-95-4	240.98	12.455	2	4744	C5H8	2,3-pentadiene	591-96-8	147.50	6.130	1
3891	C4H10O2	1,2-butanediol, (±)	26171-83-5	262.76	12.455	2	4745	C5H8	1-pentyne	627-19-0	167.45	11.680	2
3893.1	C4H10O2	n-butylhydroperoxide	4813-50-7	213.00	12.600	2	4746	C5H8	2-pentyne	627-21-4	163.86	11.826	2
3896	C4H10O2	(2S,3S)-(+)-2,3-butanediol	19132-06-0	293.15	12.455	2	4747	C5H8	3-methyl-1-butyne	598-23-2	183.45	8.157	2
3897	C4H10O2	(2R,3R)-(-)-2,3-butanediol	24347-58-8	372.15	12.455	2	4749	C5H8	methylenecyclobutane	1120-56-5	138.45	5.756	1
3898	C4H10O2	(S)-(+)-1,3-butanediol	24621-61-2	262.76	12.455	2	4751	C5H8	1,3-pentadiene; (cis+trans)	504-60-9	144.72	6.521	2
3899	C4H10O2	2,3-butanediol	513-85-9	295.15	12.455	2	4764	C5H8Br4	1,3-dibromo-2,2-bis(bromomethyl)propane	3229-00-3	436.15	27.966	1
3900	C4H10O2	(R)-(-)-1,3-butanediol	6290-03-5	262.76	12.455	2	4781	C5H8Cl2O	3,3-bis(chloromethyl)oxetane	78-71-7	291.85	16.944	1
3905	C4H10O2	2-methyl-1,3-propanediol	2163-42-0	182.25	12.455	2	4845	C5H8N4O12	pentaerythritol tetranitrate	78-11-5	413.65	97.900	1
3918	C4H10O3	diethylene glycol	111-46-6	262.70	16.400	1	4848	C5H8O	cyclopentanone	120-92-3	221.85	11.400	2
3934	C4H10O4	1,2,3,4-butanetetrol	149-32-6	394.65	39.400	1	4849	C5H8O	methyl isopropenyl ketone	814-78-8	219.55	3.511	2
3942	C4H10S	butyl mercaptan	109-79-5	157.46	10.460	1	4882	C5H8O2	acetylacetone	123-54-6	249.65	14.497	1
3943	C4H10S	isobutyl mercaptan	513-44-0	128.31	4.980	1	4883	C5H8O2	allyl acetate	591-87-7	138.00	11.795	2
3944	C4H10S	sec-butyl mercaptan	513-53-1	133.02	6.480	1	4884	C5H8O2	isopropenyl acetate	108-22-5	180.25	13.110	2
3945	C4H10S	tert-butyl mercaptan	75-66-1	274.26	2.480	1	4885	C5H8O2	vinyl propionate	105-38-4	192.07	11.795	2
3946	C4H10S	2-butanethiol	91840-99-2	108.15	6.530	2	4886	C5H8O2	methyl cis-2-butenoate	4358-59-2	194.73	13.110	2
3947	C4H10S	diethyl sulfide	352-93-2	169.20	11.900	1	4887	C5H8O2	methyl trans-2-butenoate	623-43-8	231.15	13.110	2
3948	C4H10S	methyl propyl sulfide	3877-15-4	160.19	9.910	1	4888	C5H8O2	ethyl acrylate	140-88-5	201.95	11.795	2
3949	C4H10S	methyl isopropyl sulfide	1551-21-9	171.65	9.355	1	4889	C5H8O2	methyl methacrylate	80-62-6	224.95	14.400	1
3950	C4H10S2	diethyl disulfide	110-81-6	171.63	9.400	2	4890	C5H8O2	2-methylenebutanoic acid	3586-58-1	257.15	19.051	2
3954	C4H10S2	methyl propyl disulfide	2179-60-4	171.63	9.400	2	4891	C5H8O2	trans-2-methyl-2-butenoic acid	80-59-1	338.15	17.741	2
3962	C4H10Zn	diethylzinc	557-20-0	239.85	18.050	1	4892	C5H8O2	cis-2-methyl-2-butenoic acid	565-63-9	318.15	17.741	2
3977	C4H11N	butylamine	109-73-9	224.05	14.800	2	4893	C5H8O2	2-methyl-3-butenoic acid	53774-20-2	289.45	14.046	2
3978	C4H11N	isobutylamine	78-81-9	188.55	9.990	2	4894	C5H8O2	3-methyl-2-butenoic acid	541-47-9	343.15	17.741	2
3979	C4H11N	sec-butylamine	13952-84-6	168.65	8.930	2	4895	C5H8O2	3-methyl-3-butenoic acid	1617-31-8	294.15	16.259	2
3980	C4H11N	tert-butylamine	75-64-9	206.19	0.882	1	4896	C5H8O2	trans-2-pentenoic acid	13991-37-2	283.15	19.051	2
3981	C4H11N	2-butanamine, (.+/-.)-	33966-50-6	187.66	8.269	2	4897	C5H8O2	cis-2-pentenoic acid	16666-42-5	301.13	19.051	2
3982	C4H11N	methyl-propylamine	627-35-0	223.35	11.400	2	4898	C5H8O2	trans-3-pentenoic acid	1617-32-9	274.65	19.051	2
3983	C4H11N	methylisopropylamine	4747-21-1	223.35	11.400	2	4899	C5H8O2	cis-3-pentenoic acid	33698-87-2	301.13	19.051	2
3984	C4H11N	diethylamine	109-89-7	223.35	11.400	2	4900	C5H8O2	4-pentenoic acid	591-80-0	250.65	17.569	2
3985	C4H11N	dimethylethylamine	598-56-1	133.15	9.137	2	4918	C5H8O2	methyl 3-butenoate	3724-55-8	194.73	13.110	2
3986	C4H11N	(R)-(-)-sec-butylamine	13250-12-9	169.25	8.269	2	4927	C5H8O3	2-hydroxyethyl acrylate	818-61-1	213.00	15.883	2
3987	C4H11N	(S)-(+)-sec-butylamine	513-49-5	169.25	8.269	2	4928	C5H8O3	levulinic acid	123-76-2	308.15	9.220	2
4006	C4H11NO2	diethanolamine	111-42-2	301.15	25.104	2	4929	C5H8O3	methyl acetoacetate	105-45-3	241.25	14.674	2
4008	C4H11NO2	2-amino-2-methyl-1,3-propanediol	115-69-5	383.15	28.522	2	4945	C5H8O4	glutaric acid	110-94-1	370.65	20.899	2
4010	C4H11NO2	3-methylamino-1,2-propanediol	40137-22-2	342.15	28.522	2	4964	C5H9Br	cis-1-bromo-1-pentene	31849-75-9	200.33	14.193	2
4013	C4H11NO3	tris(hydroxymethyl)methylamine	77-86-1	444.65	2.407	1	4965	C5H9Br	trans-1-bromo-1-pentene	31849-76-0	200.33	14.193	2
4059	C4H12Ge	tetramethylgermane	865-52-1	184.37	7.447	1	4966	C5H9Br	2-bromo-1-pentene	31844-95-8	189.69	11.401	2
4070	C4H12N2	1,4-butanediamine	110-60-1	300.65	2.393	2	4967	C5H9Br	3-bromo-1-pentene	53045-71-9	188.65	9.188	2
4071	C4H12N2	2,3-butanediamine, (R*,R*)-(±)	20699-48-3	251.15	2.393	2	4968	C5H9Br	4-bromo-1-pentene	31950-56-8	188.65	9.188	2
4072	C4H12N2	N,N'-dimethyl-1,2-ethanediamine	110-70-3	274.78	2.393	2	4969	C5H9Br	5-bromo-1-pentene	1119-51-3	203.65	12.711	2
4073	C4H12N2	N-ethyl-1,2-ethanediamine	110-72-5	274.78	2.393	2	4970	C5H9Br	1-bromo-cis-2-pentene	7348-78-9	200.33	14.193	2
4074	C4H12N2	2-methyl-1,2-propanediamine	811-93-8	256.10	2.230	1	4971	C5H9Br	1-bromo-trans-2-pentene	7348-71-2	200.33	14.193	2
4077	C4H12N2	1,3-butanediamine	590-88-5	274.78	2.393	2	4972	C5H9Br	2-bromo-cis-2-pentene	54653-29-1	186.37	12.883	2
4078	C4H12N2	N,N-dimethylethylenediamine	108-00-9	291.20	2.393	2	4973	C5H9Br	2-bromo-trans-2-pentene	54653-30-4	186.37	12.883	2
4079	C4H12N2	3-(methylamino)propylamine	6291-84-5	274.78	2.393	2	4974	C5H9Br	3-bromo-cis-2-pentene	23068-94-2	186.37	12.883	2
4106	C4H12Pb	tetramethyl lead	75-74-1	242.95	10.799	1	4975	C5H9Br	3-bromo-trans-2-pentene	54653-28-0	186.37	12.883	2
4110	C4H12Si	tetramethylsilane	75-76-3	174.07	6.870	1	4976	C5H9Br	4-bromo-cis-2-pentene	56535-63-8	185.33	10.670	2
4113	C4H12Sn	tetramethylstannane	594-27-4	218.05	9.234	1	4977	C5H9Br	4-bromo-trans-2-pentene	23068-95-3	185.33	10.670	2
4118	C4H13N3	diethylene triamine	111-40-0	234.15	19.700	2	4978	C5H9Br	5-bromo-cis-2-pentene	50273-84-2	200.33	14.193	2
4169	C5Cl6	hexachlorocyclopentadiene	77-47-4	284.49	11.402	2	4979	C5H9Br	5-bromo-trans-2-pentene	7515-62-0	200.33	14.193	2
4243	C5H3F7O2	methyl heptafluorobutanoate	356-24-1	187.15	11.770	1	4980	C5H9Br	cis-1-bromo-2-methyl-1-butene	36668-55-0	186.37	12.883	2
4327	C5H4O2	furfural	98-01-1	236.65	14.370	1	4981	C5H9Br	trans-1-bromo-2-methyl-1-butene	54265-17-7	186.37	12.883	2
4391	C5H5N	pyridine	110-86-1	231.53	8.280	1	4982	C5H9Br	3-bromo-2-methyl-1-butene	51872-48-1	174.69	7.878	2
4447	C5H6	cyclopentadiene	542-92-7	188.15	8.010	1	4983	C5H9Br	4-bromo-2-methyl-1-butene	20038-12-4	189.69	11.401	2
4448	C5H6	2-methyl-1-butene-3-yne	78-80-8	160.15	9.090	2	4984	C5H9Br	cis-1-bromo-3-methyl-1-butene	16416-44-7	185.33	10.670	2
4449	C5H6	1-pentene-3-yne	646-05-9	160.15	10.546	2	4985	C5H9Br	trans-1-bromo-3-methyl-1-butene	16416-41-4	185.33	10.670	2
4450	C5H6	1-pentene-4-yne	871-28-3	160.15	10.400	2	4986	C5H9Br	2-bromo-3-methyl-1-butene	31844-96-9	174.69	7.878	2
4451	C5H6	cis-3-penten-1-yne	1574-40-9	160.15	10.012	2	4987	C5H9Br	3-bromo-3-methyl-1-butene	865-58-7	206.07	5.297	2
4452	C5H6	trans-3-penten-1-yne	2004-69-5	160.15	10.012	2	4988	C5H9Br	4-bromo-3-methyl-1-butene	31950-55-7	188.65	9.188	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
4989	C5H9Br	1-bromo-2-methyl-cis-2-butene	57253-29-9	186.37	12.883	2	5134	C5H9F	1-fluoro-2-methyl-cis-2-butene	66213-76-1	158.72	10.678	2
4990	C5H9Br	1-bromo-2-methyl-trans-2-butene	57253-30-2	186.37	12.883	2	5135	C5H9F	1-fluoro-2-methyl-trans-2-butene	66213-77-2	158.72	10.678	2
4991	C5H9Br	1-bromo-3-methyl-2-butene	870-63-3	186.37	12.883	2	5136	C5H9F	1-fluoro-3-methyl-2-butene	23425-81-2	158.72	10.678	2
4992	C5H9Br	2-bromo-3-methyl-2-butene	3017-70-7	172.41	11.573	2	5137	C5H9F	2-fluoro-3-methyl-2-butene	66213-79-4	144.76	9.368	2
4993	C5H9Br	3-bromo-2-ethyl-1-propene	---	189.69	11.401	2	5138	C5H9F	3-fluoro-2-ethyl-1-propene	---	162.04	9.196	2
4995	C5H9Br	1-bromo-1-pentene	60468-23-7	189.57	11.686	2	5144	C5H9F3	1,1,1-trifluoropentane	406-82-6	244.48	10.532	2
4996	C5H9Br	1-bromo-2-pentene	20599-27-3	189.57	11.686	2	5147	C5H9I	cis-1-iodo-1-pentene	66703-02-4	198.59	13.314	2
4997	C5H9Br	2-bromo-2-pentene	80204-19-9	189.57	11.686	2	5148	C5H9I	trans-1-iodo-1-pentene	66703-03-5	198.59	13.314	2
4998	C5H9Br	3-bromo-2-pentene	21964-23-8	189.57	11.686	2	5149	C5H9I	2-iodo-1-pentene	66688-59-3	187.95	10.522	2
4999	C5H9Br	4-bromo-2-pentene	1809-26-3	189.57	11.686	2	5150	C5H9I	3-iodo-1-pentene	66688-61-7	186.91	8.309	2
5000	C5H9Br	5-bromo-2-pentene	51952-42-2	189.57	11.686	2	5151	C5H9I	4-iodo-1-pentene	59967-14-5	186.91	8.309	2
5022	C5H9Br3	1,1,1-tribromopentane	16644-66-9	327.43	17.147	2	5152	C5H9I	5-iodo-1-pentene	7766-48-5	201.91	11.832	2
5023	C5H9Cl	cis-1-chloro-1-pentene	66213-69-2	170.45	13.105	2	5153	C5H9I	1-iodo-cis-2-pentene	66703-04-6	198.59	13.314	2
5024	C5H9Cl	trans-1-chloro-1-pentene	66213-70-5	170.45	13.105	2	5154	C5H9I	1-iodo-trans-2-pentene	66688-56-0	198.59	13.314	2
5025	C5H9Cl	2-chloro-1-pentene	42131-85-1	159.81	10.313	2	5155	C5H9I	2-iodo-cis-2-pentene	66688-57-1	184.63	12.004	2
5026	C5H9Cl	3-chloro-1-pentene	24356-00-1	158.77	8.100	2	5156	C5H9I	2-iodo-trans-2-pentene	66688-58-2	184.63	12.004	2
5027	C5H9Cl	4-chloro-1-pentene	10524-08-0	158.77	8.100	2	5157	C5H9I	3-iodo-cis-2-pentene	35895-39-7	184.63	12.004	2
5028	C5H9Cl	5-chloro-1-pentene	928-50-7	173.77	11.623	2	5158	C5H9I	3-iodo-trans-2-pentene	66688-60-6	184.63	12.004	2
5029	C5H9Cl	1-chloro-cis-2-pentene	6261-19-4	170.45	13.105	2	5159	C5H9I	4-iodo-cis-2-pentene	66688-62-8	183.59	9.791	2
5030	C5H9Cl	1-chloro-trans-2-pentene	6261-25-2	170.45	13.105	2	5160	C5H9I	4-iodo-trans-2-pentene	66688-63-9	183.59	9.791	2
5031	C5H9Cl	2-chloro-cis-2-pentene	42131-98-6	156.49	11.795	2	5161	C5H9I	5-iodo-cis-2-pentene	66688-64-0	198.59	13.314	2
5032	C5H9Cl	2-chloro-trans-2-pentene	42132-00-3	156.49	11.795	2	5162	C5H9I	5-iodo-trans-2-pentene	56399-98-5	198.59	13.314	2
5033	C5H9Cl	3-chloro-cis-2-pentene	26423-60-9	156.49	11.795	2	5163	C5H9I	cis-1-iodo-2-methyl-1-butene	52812-57-4	184.63	12.004	2
5034	C5H9Cl	3-chloro-trans-2-pentene	26423-61-0	156.49	11.795	2	5164	C5H9I	trans-1-iodo-2-methyl-1-butene	66702-95-2	184.63	12.004	2
5035	C5H9Cl	4-chloro-cis-2-pentene	26423-63-2	155.45	9.582	2	5165	C5H9I	3-iodo-2-methyl-1-butene	66703-00-2	172.95	6.999	2
5036	C5H9Cl	4-chloro-trans-2-pentene	18610-33-8	155.45	9.582	2	5166	C5H9I	4-iodo-2-methyl-1-butene	53750-52-0	187.95	10.522	2
5037	C5H9Cl	5-chloro-cis-2-pentene	53543-44-5	170.45	13.105	2	5167	C5H9I	cis-1-iodo-3-methyl-1-butene	64245-25-6	183.59	9.791	2
5038	C5H9Cl	5-chloro-trans-2-pentene	10524-07-9	170.45	13.105	2	5168	C5H9I	trans-1-iodo-3-methyl-1-butene	66702-96-3	183.59	9.791	2
5039	C5H9Cl	cis-1-chloro-2-methyl-1-butene	7611-88-3	156.49	11.795	2	5169	C5H9I	2-iodo-3-methyl-1-butene	32442-47-0	172.95	6.999	2
5040	C5H9Cl	trans-1-chloro-2-methyl-1-butene	7611-89-4	156.49	11.795	2	5170	C5H9I	3-iodo-3-methyl-1-butene	59128-91-5	204.33	4.418	2
5041	C5H9Cl	3-chloro-2-methyl-1-butene	5166-35-8	144.81	6.790	2	5171	C5H9I	4-iodo-3-methyl-1-butene	66703-01-3	186.91	8.309	2
5042	C5H9Cl	4-chloro-2-methyl-1-butene	10523-96-3	159.81	10.313	2	5172	C5H9I	1-iodo-2-methyl-cis-2-butene	66702-97-4	184.63	12.004	2
5043	C5H9Cl	cis-1-chloro-3-methyl-1-butene	66213-67-0	155.45	9.582	2	5173	C5H9I	1-iodo-2-methyl-trans-2-butene	66702-98-5	184.63	12.004	2
5044	C5H9Cl	trans-1-chloro-3-methyl-1-butene	66213-68-1	155.45	9.582	2	5174	C5H9I	1-iodo-3-methyl-2-butene	41004-19-7	184.63	12.004	2
5045	C5H9Cl	2-chloro-3-methyl-1-butene	17773-64-7	144.81	6.790	2	5175	C5H9I	2-iodo-3-methyl-2-butene	66702-99-6	170.67	10.694	2
5046	C5H9Cl	3-chloro-3-methyl-1-butene	2190-48-9	176.19	4.209	2	5176	C5H9I	3-iodo-2-ethyl-1-propene	---	187.95	10.522	2
5047	C5H9Cl	4-chloro-3-methyl-1-butene	10524-01-3	158.77	8.100	2	5182	C5H9I3	1,1,1-triiodopentane	---	322.21	14.510	2
5048	C5H9Cl	1-chloro-2-methyl-cis-2-butene	23009-74-7	156.49	11.795	2	5183	C5H9N	valeronitrile	110-59-8	176.95	4.728	1
5049	C5H9Cl	1-chloro-2-methyl-trans-2-butene	23009-73-6	156.49	11.795	2	5184	C5H9N	2-methylbutanenitrile	18936-17-9	195.60	6.689	2
5050	C5H9Cl	1-chloro-3-methyl-2-butene	503-60-6	156.49	11.795	2	5185	C5H9N	3-methylbutanenitrile	625-28-5	172.35	6.689	2
5051	C5H9Cl	2-chloro-3-methyl-2-butene	17773-65-8	142.53	10.485	2	5186	C5H9N	2,2-dimethylpropanenitrile	630-18-2	289.15	9.288	1
5052	C5H9Cl	3-chloro-2-ethyl-1-propene	---	159.81	10.313	2	5195	C5H9N	(S)-(+)-2-methylbutyronitrile	25570-03-0	208.51	6.873	2
5053	C5H9Cl	1-chloro-2-methyl-1-butene	23378-11-2	159.69	10.598	2	5207	C5H9NO	2-piperidinone	675-20-7	312.65	10.502	1
5054	C5H9Cl	1-chloro-2-methyl-2-butene	13417-43-1	159.69	10.598	2	5284	C5H10	methylcyclobutane	598-61-8	138.60	4.741	2
5055	C5H9Cl	1-chloro-3-methyl-1-butene	23010-00-6	159.69	10.598	2	5285	C5H10	cyclopentane	287-92-3	179.31	0.610	1
5056	C5H9Cl	1-chloro-2-pentene	10071-60-0	159.69	10.598	2	5286	C5H10	1-pentene	109-67-1	107.93	5.882	1
5057	C5H9Cl	2-chloro-2-pentene	67747-70-0	159.69	10.598	2	5287	C5H10	2-pentene; (cis+trans)	109-68-2	130.55	7.061	2
5058	C5H9Cl	3-chloro-2-pentene	34238-52-3	159.69	10.598	2	5288	C5H10	cis-2-pentene	627-20-3	121.75	7.110	1
5059	C5H9Cl	4-chloro-2-pentene	1458-99-7	159.69	10.598	2	5289	C5H10	trans-2-pentene	646-04-8	132.89	8.350	1
5060	C5H9Cl	5-chloro-2-pentene	16435-50-0	159.69	10.598	2	5290	C5H10	2-methyl-1-butene	563-46-2	135.58	7.910	1
5061	C5H9Cl	chlorocyclopentane	930-28-9	180.00	0.637	1	5291	C5H10	3-methyl-1-butene	563-45-1	104.66	5.360	1
5100	C5H9Cl3	1,1,1-trichloropentane	3922-27-8	237.79	13.883	2	5292	C5H10	2-methyl-2-butene	513-35-9	139.39	7.600	1
5101	C5H9Cl3	1,2,3-trichloro-2-methylbutane	62521-69-1	264.47	15.441	2	5297	C5H10Br2	1,1-dibromopentane	13320-56-4	250.21	15.753	2
5102	C5H9Cl3	2,2,3-trichloro-3-methylbutane	98070-91-8	264.47	15.441	2	5298	C5H10Br2	1,2-dibromopentane	3234-49-9	250.21	15.753	2
5103	C5H9Cl3	1,3-dichloro-2-(chloromethyl)-2-methylpropane	1067-09-0	291.15	15.441	2	5299	C5H10Br2	1,3-dibromopentane	42474-20-4	250.21	15.753	2
5109	C5H9F	cis-1-fluoro-1-pentene	66213-83-0	172.68	11.988	2	5300	C5H10Br2	1,4-dibromopentane	626-87-9	238.73	15.753	2
5110	C5H9F	trans-1-fluoro-1-pentene	66213-84-1	172.68	11.988	2	5301	C5H10Br2	1,5-dibromopentane	111-24-0	233.15	19.276	2
5111	C5H9F	2-fluoro-1-pentene	66213-89-6	162.04	9.196	2	5302	C5H10Br2	2,2-dibromopentane	54653-26-8	267.63	11.862	2
5112	C5H9F	3-fluoro-1-pentene	66702-88-3	161.00	6.983	2	5303	C5H10Br2	2,3-dibromopentane	5398-25-4	217.15	12.230	2
5113	C5H9F	4-fluoro-1-pentene	66702-91-8	161.00	6.983	2	5304	C5H10Br2	2,4-dibromopentane	19398-53-9	235.21	12.230	2
5114	C5H9F	5-fluoro-1-pentene	407-79-4	176.00	10.506	2	5305	C5H10Br2	3,3-dibromopentane	54653-27-9	267.63	11.862	2
5115	C5H9F	1-fluoro-cis-2-pentene	66213-85-2	172.68	11.988	2	5306	C5H10Br2	1,1-dibromo-2-methylbutane	62127-58-6	235.21	12.230	2
5116	C5H9F	1-fluoro-trans-2-pentene	66213-86-3	172.68	11.988	2	5307	C5H10Br2	1,1-dibromo-3-methylbutane	62127-59-7	235.21	12.230	2
5117	C5H9F	2-fluoro-cis-2-pentene	66213-87-4	158.72	10.678	2	5308	C5H10Br2	1,2-dibromo-2-methylbutane	10428-64-5	202.95	11.862	2
5118	C5H9F	2-fluoro-trans-2-pentene	66213-88-5	158.72	10.678	2	5309	C5H10Br2	1,2-dibromo-3-methylbutane	10288-13-8	235.21	12.230	2
5119	C5H9F	3-fluoro-cis-2-pentene	66213-90-9	158.72	10.678	2	5310	C5H10Br2	1,3-dibromo-2-methylbutane	49623-50-9	235.21	12.230	2
5120	C5H9F	3-fluoro-trans-2-pentene	66702-87-2	158.72	10.678	2	5311	C5H10Br2	1,3-dibromo-3-methylbutane	24443-15-0	267.63	11.862	2
5121	C5H9F	4-fluoro-cis-2-pentene	66702-89-4	157.68	8.465	2	5312	C5H10Br2	1,4-dibromo-2-methylbutane	69498-28-8	250.21	15.753	2
5122	C5H9F	4-fluoro-trans-2-pentene	66702-90-7	157.68	8.465	2	5313	C5H10Br2	2,2-dibromo-3-methylbutane	62127-60-0	252.63	8.339	2
5123	C5H9F	5-fluoro-cis-2-pentene	66702-92-9	172.68	11.988	2	5314	C5H10Br2	2,3-dibromo-2-methylbutane	594-51-4	288.00	8.339	2
5124	C5H9F	5-fluoro-trans-2-pentene	66702-93-0	172.68	11.988	2	5315	C5H10Br2	1,1-dibromo-2,2-dimethylpropane	2443-91-6	287.15	15.753	2
5125	C5H9F	cis-1-fluoro-2-methyl-1-butene	66213-72-7	158.72	10.678	2	5316	C5H10Br2	1,3-dibromo-2,2-dimethylpropane	5434-27-5	252.63	8.339	2
5126	C5H9F	trans-1-fluoro-2-methyl-1-butene	66213-74-9	158.72	10.678	2	5317	C5H10Br2	1,3-dibromo-2-ethylpropane	---	267.63	11.862	2
5127	C5H9F	3-fluoro-2-methyl-1-butene	53731-24-1	147.04	5.673	2	5330	C5H10Cl2	1,1-dichloropentane	820-55-3	190.45	13.577	2
5128	C5H9F	4-fluoro-2-methyl-1-butene	66213-81-8	162.04	9.196	2	5331	C5H10Cl2	1,2-dichloropentane	1674-33-5	190.45	13.577	2
5129	C5H9F	cis-1-fluoro-3-methyl-1-butene	66213-73-8	157.68	8.465	2	5332	C5H10Cl2	1,3-dichloropentane	30122-12-4	190.45	13.577	2
5130	C5H9F	trans-1-fluoro-3-methyl-1-butene	66213-75-0	157.68	8.465	2	5333	C5H10Cl2	1,4-dichloropentane	626-92-6	190.45	13.577	2
5131	C5H9F	2-fluoro-3-methyl-1-butene	66213-78-3	147.04	5.673	2	5334	C5H10Cl2	1,5-dichloropentane	628-76-2	200.35	17.100	2
5132	C5H9F	3-fluoro-3-methyl-1-butene	66213-80-7	178.42	3.092	2	5335	C5H10Cl2	2,2-dichloropentane	34887-14-4	207.87	9.686	2
5133	C5H9F	4-fluoro-3-methyl-1-butene	66213-82-9	161.00	6.983	2	5336	C5H10Cl2	2,3-dichloropentane	600-11-3	195.85	10.054	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
5337	C5H10Cl2	2,4-dichloropentane	625-67-2	175.45	10.054	2	5530	C5H10O2	(S)-(+)-2-methylbutyric acid	1730-91-2	252.49	10.531	2
5338	C5H10Cl2	3,3-dichloropentane	21571-91-5	207.87	9.686	2	5575	C5H10O4	2,2-bis(hydroxymethyl)propionic acid	4767-07-3	464.95	3.592	1
5339	C5H10Cl2	1,1-dichloro-2-methylbutane	23010-05-1	175.45	10.054	2	5593	C5H10S	thiacyclohexane	1613-51-0	292.14	2.449	2
5340	C5H10Cl2	1,1-dichloro-3-methylbutane	625-66-1	175.45	10.054	2	5595	C5H10S	2-methylthiacyclopentane	1795-09-1	172.44	8.876	2
5341	C5H10Cl2	1,2-dichloro-2-methylbutane	23010-04-0	207.87	9.686	2	5596	C5H10S	3-methylthiacyclopentane	4740-00-5	191.99	10.371	2
5342	C5H10Cl2	1,2-dichloro-3-methylbutane	600-10-2	175.45	10.054	2	5597	C5H10S	cyclopentanethiol	1679-07-8	155.39	7.830	1
5343	C5H10Cl2	1,3-dichloro-2-methylbutane	23010-07-3	175.45	10.054	2	5603	C5H11Br	1-bromopentane	110-53-2	185.26	11.465	1
5344	C5H10Cl2	1,3-dichloro-3-methylbutane	624-96-4	207.87	9.686	2	5604	C5H11Br	2-bromopentane	107-81-3	177.65	10.468	2
5345	C5H10Cl2	1,4-dichloro-2-methylbutane	623-34-7	190.45	13.577	2	5605	C5H11Br	3-bromopentane	1809-10-5	146.95	8.400	1
5346	C5H10Cl2	2,2-dichloro-3-methylbutane	17773-66-9	192.87	6.163	2	5606	C5H11Br	1-bromo-2-methylbutane	10422-35-2	190.41	10.468	2
5347	C5H10Cl2	2,3-dichloro-2-methylbutane	507-45-9	192.87	6.163	2	5607	C5H11Br	1-bromo-3-methylbutane	107-82-4	161.15	10.468	2
5348	C5H10Cl2	1,3-dichloro-2-ethylpropane	---	190.45	13.577	2	5608	C5H11Br	2-bromo-2-methylbutane	507-36-8	207.83	6.577	2
5349	C5H10Cl2	1,1-dichloro-2,2-dimethylpropane	29559-54-4	192.87	6.163	2	5609	C5H11Br	2-bromo-3-methylbutane	18295-25-5	175.41	6.945	2
5350	C5H10Cl2	1,3-dichloro-2,2-dimethylpropane	29559-55-5	207.87	9.686	2	5610	C5H11Br	1-bromo-2,2-dimethylpropane	630-17-1	207.83	6.577	2
5351	C5H10Cl2	dichloropentane	30586-10-8	192.10	10.792	2	5611	C5H11Br	1-bromo-2-methylbutane, (S)	534-00-9	181.56	9.096	2
5358	C5H10F2	1,1-difluoropentane	62127-40-6	194.91	11.343	2	5620	C5H11Cl	1-chloropentane	543-59-9	174.15	12.903	2
5359	C5H10F2	1,2-difluoropentane	62126-94-7	194.91	11.343	2	5621	C5H11Cl	2-chloropentane	625-29-6	136.15	9.380	2
5360	C5H10F2	1,3-difluoropentane	62126-95-8	194.91	11.343	2	5622	C5H11Cl	3-chloropentane	616-20-6	168.15	9.380	2
5361	C5H10F2	1,4-difluoropentane	62126-96-9	194.91	11.343	2	5623	C5H11Cl	1-chloro-2-methylbutane	616-13-7	160.53	9.380	2
5362	C5H10F2	1,5-difluoropentane	373-17-1	209.91	14.866	2	5624	C5H11Cl	1-chloro-3-methylbutane	107-84-6	168.76	9.380	2
5363	C5H10F2	2,2-difluoropentane	371-65-3	175.05	7.452	2	5625	C5H11Cl	2-chloro-2-methylbutane	594-36-5	199.66	5.489	2
5364	C5H10F2	2,3-difluoropentane	66688-46-8	179.91	7.820	2	5626	C5H11Cl	2-chloro-3-methylbutane	631-65-2	145.53	5.857	2
5365	C5H10F2	2,4-difluoropentane	66688-47-9	179.91	7.820	2	5627	C5H11Cl	1-chloro-2,2-dimethylpropane	753-89-9	253.15	5.489	2
5366	C5H10F2	3,3-difluoropentane	358-03-2	179.15	7.452	2	5628	C5H11Cl	1-chloro-2-methylbutane, (±)	114180-21-1	171.36	8.615	2
5367	C5H10F2	1,1-difluoro-2-methylbutane	66688-67-3	179.91	7.820	2	5629	C5H11Cl	2-chloropentane, (+)	29882-57-3	136.15	8.615	2
5368	C5H10F2	1,1-difluoro-3-methylbutane	53731-22-9	179.91	7.820	2	5649	C5H11F	1-fluoropentane	592-50-7	153.15	11.786	2
5369	C5H10F2	1,2-difluoro-2-methylbutane	66688-68-4	212.33	7.452	2	5650	C5H11F	2-fluoropentane	590-87-4	162.76	8.263	2
5370	C5H10F2	1,2-difluoro-3-methylbutane	66688-69-5	179.91	7.820	2	5651	C5H11F	3-fluoropentane	41909-29-9	162.76	8.263	2
5371	C5H10F2	1,3-difluoro-2-methylbutane	66688-43-5	179.91	7.820	2	5652	C5H11F	1-fluoro-2-methylbutane	10086-64-3	162.76	8.263	2
5372	C5H10F2	1,3-difluoro-3-methylbutane	66688-44-6	212.33	7.452	2	5653	C5H11F	1-fluoro-3-methylbutane	407-06-7	162.76	8.263	2
5373	C5H10F2	1,4-difluoro-2-methylbutane	66688-45-7	194.91	11.343	2	5654	C5H11F	2-fluoro-2-methylbutane	661-53-0	152.15	4.372	2
5374	C5H10F2	2,2-difluoro-3-methylbutane	51891-58-8	197.33	3.929	2	5655	C5H11F	2-fluoro-3-methylbutane	62108-95-6	147.76	4.740	2
5375	C5H10F2	2,3-difluoro-2-methylbutane	53731-25-2	197.33	3.929	2	5656	C5H11F	1-fluoro-2,2-dimethylpropane	59006-05-2	180.18	4.372	2
5376	C5H10F2	1,3-difluoro-2-ethylpropane	---	194.91	11.343	2	5660	C5H11I	1-iodopentane	628-17-1	187.55	13.112	2
5377	C5H10F2	1,1-difluoro-2,2-dimethylpropane	53731-23-0	197.33	3.929	2	5661	C5H11I	2-iodopentane	637-97-8	188.67	9.589	2
5378	C5H10F2	1,3-difluoro-2,2-dimethylpropane	66688-66-2	212.33	7.452	2	5662	C5H11I	3-iodopentane	1809-05-8	188.67	9.589	2
5380	C5H10I2	1,1-diiodopentane	66688-35-5	246.73	13.995	2	5663	C5H11I	1-iodo-2-methylbutane	29394-58-9	188.67	9.589	2
5381	C5H10I2	1,2-diiodopentane	998-76-5	246.73	13.995	2	5664	C5H11I	1-iodo-3-methylbutane	541-28-6	188.67	9.589	2
5382	C5H10I2	1,3-diiodopentane	66688-36-6	246.73	13.995	2	5665	C5H11I	2-iodo-2-methylbutane	594-38-7	206.09	5.698	2
5383	C5H10I2	1,4-diiodopentane	55930-45-5	246.73	13.995	2	5666	C5H11I	2-iodo-3-methylbutane	18295-27-7	173.67	6.066	2
5384	C5H10I2	1,5-diiodopentane	628-77-3	282.15	17.518	2	5667	C5H11I	1-iodo-2,2-dimethylpropane	15501-33-4	206.09	5.698	2
5385	C5H10I2	2,2-diiodopentane	66688-37-7	264.15	10.104	2	5668	C5H11I	2-iodopentane, (±)	52152-72-4	191.01	8.677	2
5386	C5H10I2	2,3-diiodopentane	66688-38-8	231.73	10.472	2	5670	C5H11N	piperidine	110-89-4	262.65	14.854	1
5387	C5H10I2	2,4-diiodopentane	66719-29-7	231.73	10.472	2	5671	C5H11N	cyclopentylamine	1003-03-8	190.45	8.313	1
5388	C5H10I2	3,3-diiodopentane	66688-39-9	264.15	10.104	2	5696	C5H11NO2	1-nitropentane	628-05-7	289.22	18.060	2
5389	C5H10I2	1,1-diiodo-2-methylbutane	66688-50-4	231.73	10.472	2	5697	C5H11NO2	2-nitropentane	4609-89-6	274.22	14.890	2
5390	C5H10I2	1,1-diiodo-3-methylbutane	66688-51-5	231.73	10.472	2	5698	C5H11NO2	3-nitropentane	551-88-2	274.22	14.890	2
5391	C5H10I2	1,2-diiodo-2-methylbutane	66688-52-6	264.15	10.104	2	5699	C5H11NO2	1-nitro-2-methylbutane	3457-57-6	274.22	14.890	2
5392	C5H10I2	1,2-diiodo-3-methylbutane	66688-53-7	231.73	10.472	2	5700	C5H11NO2	1-nitro-3-methylbutane	627-67-8	370.15	14.890	2
5393	C5H10I2	1,3-diiodo-2-methylbutane	66688-54-8	231.73	10.472	2	5701	C5H11NO2	2-nitro-2-methylbutane	595-42-6	235.15	11.388	2
5394	C5H10I2	1,3-diiodo-3-methylbutane	66688-55-9	264.15	10.104	2	5702	C5H11NO2	2-nitro-3-methylbutane	2625-35-6	259.22	11.719	2
5395	C5H10I2	1,4-diiodo-2-methylbutane	66688-32-2	246.73	13.995	2	5703	C5H11NO2	1-nitro-2,2-dimethylpropane	34715-98-5	287.15	11.388	2
5396	C5H10I2	2,2-diiodo-3-methylbutane	66688-33-3	249.15	6.581	2	5772	C5H12	pentane	109-66-0	143.42	8.401	1
5397	C5H10I2	2,3-diiodo-2-methylbutane	66688-34-4	249.15	6.581	2	5773	C5H12	isopentane	78-78-4	113.25	5.156	1
5398	C5H10I2	1,3-diiodo-2-ethylpropane	---	246.73	13.995	2	5774	C5H12	neopentane	463-82-1	256.58	3.096	1
5399	C5H10I2	1,1-diiodo-2,2-dimethylpropane	2443-89-2	249.15	6.581	2	5800	C5H12N2O	butylurea	592-31-4	370.15	14.550	1
5400	C5H10I2	1,3-diiodo-2,2-dimethylpropane	66688-49-1	264.15	10.104	2	5801	C5H12N2O	tert-butylurea	1118-12-3	449.80	33.130	1
5445	C5H10O	pentanal	110-62-3	182.00	15.000	1	5802	C5H12N2O	N,N-diethylurea	634-95-7	348.15	16.100	1
5446	C5H10O	2-methylbutanal	96-17-3	172.61	7.472	2	5803	C5H12N2O	N,N'-diethylurea	623-76-7	385.65	12.460	1
5447	C5H10O	3-methylbutanal	590-86-3	168.15	7.472	2	5804	C5H12N2O	tetramethylurea	632-22-4	272.55	13.400	1
5448	C5H10O	2,2-dimethylpropanal	630-19-3	267.15	2.520	1	5831	C5H12O	1-pentanol	71-41-0	195.56	10.500	1
5449	C5H10O	2-methylbutanal, (±)	57456-98-1	197.48	8.866	2	5832	C5H12O	2-pentanol	6032-29-7	200.00	8.480	1
5450	C5H10O	methyl propyl ketone	107-87-9	196.29	10.630	1	5833	C5H12O	3-pentanol	584-02-1	204.15	9.080	1
5451	C5H10O	diethyl ketone	96-22-0	234.18	11.590	1	5834	C5H12O	2-methyl-1-butanol	137-32-6	191.43	9.271	2
5452	C5H10O	methyl isopropyl ketone	563-80-4	181.15	9.340	1	5835	C5H12O	2-methyl-1-butanol, (±)	34713-94-5	212.34	7.783	2
5459	C5H10O	cyclopentanol	96-41-3	255.65	1.536	1	5836	C5H12O	3-methyl-2-butanol, (±)	70116-68-6	212.34	7.783	2
5492	C5H10O2	pentanoic acid	109-52-4	239.15	14.160	1	5837	C5H12O	3-methyl-1-butanol	123-51-3	155.95	6.610	2
5493	C5H10O2	2-methylbutyric acid	116-53-0	218.15	15.326	2	5838	C5H12O	tert-pentyl-alcohol	75-85-4	264.35	4.456	1
5494	C5H10O2	3-methylbutanoic acid	503-74-2	243.85	7.322	1	5839	C5H12O	3-methyl-2-butanol	598-75-4	176.43	5.748	2
5495	C5H10O2	2,2-dimethylpropanoic acid	75-98-9	308.82	2.268	1	5840	C5H12O	2,2-dimethyl-1-propanol	75-84-3	327.15	4.057	1
5496	C5H10O2	2-methylbutanoic acid	600-07-7	252.49	10.531	2	5841	C5H12O	methyl butyl ether	628-28-4	158.15	10.850	1
5497	C5H10O2	butyl formate	592-84-7	181.25	13.900	2	5842	C5H12O	methyl isobutyl ether	625-44-5	152.84	6.371	2
5498	C5H10O2	isobutyl formate	542-55-2	177.35	11.200	2	5843	C5H12O	methyl sec-butyl ether	6795-87-5	152.84	6.371	2
5499	C5H10O2	sec-butyl formate	589-40-2	189.31	11.234	2	5844	C5H12O	methyl tert-butyl ether	1634-04-4	164.55	7.600	1
5500	C5H10O2	tert-butyl formate	762-75-4	206.73	7.343	2	5845	C5H12O	ethyl propyl ether	628-32-0	145.65	8.390	1
5501	C5H10O2	propyl acetate	109-60-4	178.15	11.200	2	5846	C5H12O	ethyl isopropyl ether	625-54-7	152.84	6.371	2
5502	C5H10O2	isopropyl acetate	108-21-4	199.75	8.880	2	5847	C5H12O	sec-butyl methyl ether	116783-23-4	154.48	7.658	2
5503	C5H10O2	ethyl propanoate	105-37-3	199.25	12.300	2	5848	C5H12O	sec-butyl methyl ether (d)	66610-39-7	154.48	7.658	2
5504	C5H10O2	methyl butanoate	623-42-7	187.35	11.500	2	5849	C5H12O	(S)-(-)-2-methyl-1-butanol	1565-80-6	203.25	7.783	2
5505	C5H10O2	methyl isobutanoate	547-63-7	188.45	11.534	2	5850	C5H12O	(S)-(+)-2-pentanol	26184-62-3	223.25	7.783	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
5851	C5H12O	pentanol	30899-19-5	194.25	7.783	2	6016	C5H14N2	N-isopropylethylenediamine	19522-67-9	242.26	15.432	2
5852	C5H12O	(R)-(-)-2-pentanol	31087-44-2	212.34	7.783	2	6017	C5H14N2	N-propylethylenediamine	111-39-7	242.26	15.432	2
5853	C5H12O	(S)-3-methyl-2-butanol	1517-66-4	212.34	7.783	2	6018	C5H14N2	N,N,N'-trimethylethylenediamine	142-25-6	242.26	15.432	2
5857	C5H12O2	ethylene glycol monopropyl ether	2807-30-9	183.15	11.400	1	6052	C6ClF5	chloropentafluorobenzene	344-07-0	257.49	8.355	1
5858	C5H12O2	neopentyl glycol	126-30-7	400.00	4.440	1	6061	C6Cl3F3	1,3,5-trichloro-2,4,6-trifluorobenzene	319-88-0	334.16	19.849	1
5859	C5H12O2	1,2-pentanediol	5343-92-0	252.25	15.000	2	6067	C6Cl6	hexachlorobenzene	118-74-1	501.70	24.960	1
5860	C5H12O2	1,2-pentanediol, (±)	91049-43-3	273.25	11.995	2	6073	C6D6	benzene-d6	1076-43-3	280.00	9.791	1
5861	C5H12O2	1,3-pentanediol	3174-67-2	252.25	11.995	2	6074	C6D12	cyclohexane-d12	1735-17-7	277.20	2.620	1
5862	C5H12O2	1,4-pentanediol	626-95-9	252.25	11.995	2	6079	C6F5NO2	pentafluoronitrobenzene	880-78-4	250.50	11.807	1
5863	C5H12O2	1,5-pentanediol	111-29-5	257.15	15.720	1	6080	C6F6	hexafluorobenzene	392-56-3	278.25	11.590	2
5864	C5H12O2	2,3-pentanediol	42027-23-6	273.25	11.995	2	6096	C6F14	perfluoro-2,3-dimethylbutane	354-96-1	258.15	7.409	2
5865	C5H12O2	2,4-pentanediol	625-69-4	273.25	11.995	2	6097	C6F14	perfluorohexane	355-42-0	184.95	6.837	1
5866	C5H12O2	DL-erythro-2,3-pentanediol	61828-35-1	237.25	11.995	2	6098	C6F14	perfluoro-2-methylpentane	355-04-4	200.42	7.409	2
5867	C5H12O2	DL-threo-2,3-pentanediol	61828-36-2	237.25	11.995	2	6099	C6F14	perfluoro-3-methylpentane	865-71-4	158.15	7.409	2
5868	C5H12O2	DL-2,4-pentanediol	1825-14-5	322.15	11.995	2	6100	C6F15N	perfluorotriethylamine	359-70-6	156.20	4.650	1
5869	C5H12O2	meso-2,4-pentanediol	3950-21-8	322.15	11.995	2	6115	C6HCl5	pentachlorobenzene	608-93-5	358.65	20.100	1
5870	C5H12O2	2-methyl-1,2-butanediol	41051-72-3	269.67	11.995	2	6122	C6HF5	pentafluorobenzene	363-72-4	225.75	10.883	1
5871	C5H12O2	2-methyl-1,3-butanediol	684-84-4	237.25	11.995	2	6124	C6HF5O	pentafluorophenol	771-61-9	310.65	12.845	1
5872	C5H12O2	2-methyl-1,4-butanediol	2938-98-9	237.25	11.995	2	6150	C6H2Br4	1,2,4,5-tetrabromobenzene	636-28-2	455.15	27.880	1
5873	C5H12O2	2-methyl-2,3-butanediol	5396-58-7	254.67	11.995	2	6174	C6H2Cl4	1,2,3,4-tetrachlorobenzene	634-66-2	319.65	17.000	2
5874	C5H12O2	3-methyl-1,2-butanediol	50468-22-9	237.25	11.995	2	6175	C6H2Cl4	1,2,3,5-tetrachlorobenzene	634-90-2	327.65	18.320	2
5875	C5H12O2	3-methyl-1,3-butanediol	2568-33-4	271.04	11.995	2	6176	C6H2Cl4	1,2,4,5-tetrachlorobenzene	95-94-3	412.15	24.940	2
5876	C5H12O2	2-ethyl-1,3-propanediol	2612-29-5	235.88	11.995	2	6189	C6H2F4	1,2,3,4-tetrafluorobenzene	551-62-2	233.26	10.930	1
5881	C5H12O2	1-ethoxy-2-propanol	1569-02-4	191.58	11.924	2	6190	C6H2F4	1,2,3,5-tetrafluorobenzene	2367-82-0	226.90	6.360	1
5882	C5H12O2	2-ethoxy-1-propanol	19089-47-5	191.58	11.924	2	6191	C6H2F4	1,2,4,5-tetrafluorobenzene	327-54-8	277.03	15.050	1
5883	C5H12O2	2-isopropoxyethanol	109-59-1	191.58	11.924	2	6195	C6H2F5N	2,3,4,5,6-pentafluoroaniline	771-60-8	308.65	14.267	1
5884	C5H12O2	3-methoxy-1-butanol	2517-43-3	191.58	11.924	2	6281	C6H3ClN2O4	1-chloro-2,4-dinitrobenzene	97-00-7	326.55	20.200	2
5886	C5H12O2	3-ethoxy-1-propanol	111-35-3	200.00	11.924	2	6305	C6H3Cl3	1,2,4-trichlorobenzene	120-82-1	290.15	15.565	2
5887	C5H12O2	1-methoxy-2-butanol	53778-73-7	191.58	11.924	2	6306	C6H3Cl3	1,2,3-trichlorobenzene	87-61-6	325.65	20.500	2
5888	C5H12O2	(R,R)-(-)-2,4-pentanediol	42075-32-1	323.15	11.995	2	6307	C6H3Cl3	1,3,5-trichlorobenzene	108-70-3	336.65	18.200	2
5889	C5H12O2	(2S,4S)-(+)-pentanediol	72345-23-4	319.65	11.995	2	6308	C6H3Cl3	trichlorobenzene	12002-48-1	313.40	18.002	2
5890	C5H12O2	ethyl ether of propylene glycol	52125-53-8	191.58	11.924	2	6325	C6H3Cl4N	nitrapyrin	1929-82-4	336.15	20.299	1
5899	C5H12O3	2-(2-methoxyethoxy)ethanol	111-77-3	197.15	17.700	1	6367	C6H3N3O6	1,3,5-trinitrobenzene	99-35-4	398.40	14.800	1
5912	C5H12O4	pentaerythritol	115-77-5	534.15	5.070	1	6368	C6H3N3O7	2,4,6-trinitrophenol	88-89-1	395.65	17.100	1
5916	C5H12O5	ribitol	488-81-3	377.15	37.600	1	6369	C6H3N3O8	2,4,6-trinitro-1,3-benzenediol	82-71-3	448.65	33.500	1
5917	C5H12O5	xylitol	87-99-0	366.65	37.400	1	6383	C6H4BrCl	1-bromo-2-chlorobenzene	694-80-4	260.85	12.368	1
5918	C5H12O5	D-arabitol	488-82-4	374.15	38.900	1	6384	C6H4BrCl	1-bromo-3-chlorobenzene	108-37-2	251.65	12.288	1
5921	C5H12S	pentyl mercaptan	110-66-7	197.45	17.530	1	6385	C6H4BrCl	1-bromo-4-chlorobenzene	106-39-8	341.15	18.760	1
5922	C5H12S	2-pentanethiol	2084-19-7	104.20	11.070	2	6399	C6H4BrI	1-bromo-2-iodobenzene	583-55-1	282.65	14.441	1
5923	C5H12S	3-pentanethiol	616-31-9	162.35	11.070	2	6400	C6H4BrI	1-bromo-3-iodobenzene	591-18-4	263.85	12.192	1
5924	C5H12S	2-methyl-1-butanethiol	1878-18-8	167.07	11.070	2	6401	C6H4BrI	1-bromo-4-iodobenzene	589-87-7	365.15	19.614	1
5925	C5H12S	3-methyl-1-butanethiol	541-31-1	139.64	7.410	1	6411	C6H4Br2	m-dibromobenzene	108-36-1	266.25	14.225	1
5926	C5H12S	2-methyl-2-butanethiol	1679-09-0	169.38	0.608	1	6412	C6H4Br2	o-dibromobenzene	583-53-9	274.95	13.587	1
5927	C5H12S	3-methyl-2-butanethiol	2084-18-6	149.33	0.607	1	6413	C6H4Br2	p-dibromobenzene	106-37-6	360.00	20.040	1
5928	C5H12S	2,2-dimethyl-1-propanethiol	1679-08-9	206.15	6.401	2	6414	C6H4Br2	dibromobenzene	26249-12-7	300.40	15.872	2
5929	C5H12S	2-methyl-1-butanethiol, (+)	20089-07-0	161.95	8.527	2	6418	C6H4Br2O	2,4-dibromophenol	615-58-7	311.15	15.000	1
5930	C5H12S	methyl butyl sulfide	628-29-5	175.33	12.450	1	6443	C6H4ClNO2	m-chloronitrobenzene	121-73-3	317.65	20.782	1
5931	C5H12S	ethyl propyl sulfide	4110-50-3	156.15	10.580	1	6445	C6H4ClNO2	p-chloronitrobenzene	100-00-5	356.65	18.030	1
5932	C5H12S	3-methyl-2-thiapentane	10359-64-5	165.01	9.313	2	6469	C6H4Cl2	o-dichlorobenzene	95-50-1	256.15	12.922	1
5933	C5H12S	4-methyl-2-thiapentane	5008-69-5	164.05	9.313	2	6470	C6H4Cl2	m-dichlorobenzene	541-73-1	248.39	12.590	1
5934	C5H12S	2-methyl-3-thiapentane	5145-99-3	150.96	8.704	1	6471	C6H4Cl2	p-dichlorobenzene	106-46-7	326.14	18.187	1
5935	C5H12S	3,3-dimethyl-2-thiabutane	6163-64-0	190.83	8.410	1	6479	C6H4Cl2O	2,3-dichlorophenol	576-24-9	331.15	21.363	1
5939	C5H12S4	tetrakis(methylthio)methane	6156-25-8	338.70	4.140	1	6480	C6H4Cl2O	2,4-dichlorophenol	120-83-2	318.15	20.090	1
5941	C5H12Si	vinyltrimethylsilane	754-05-2	141.65	7.657	1	6481	C6H4Cl2O	2,5-dichlorophenol	583-78-8	332.15	22.434	1
5947	C5H13N	pentylamine	110-58-7	218.15	17.600	2	6482	C6H4Cl2O	2,6-dichlorophenol	87-65-0	341.65	22.141	1
5948	C5H13N	1-methylbutylamine	625-30-9	203.15	11.096	2	6483	C6H4Cl2O	3,4-dichlorophenol	95-77-2	341.15	20.927	1
5949	C5H13N	2-methylbutylamine	96-15-1	203.15	11.096	2	6484	C6H4Cl2O	3,5-dichlorophenol	591-35-5	341.15	20.509	1
5950	C5H13N	3-methylbutylamine	107-85-7	203.15	11.096	2	6524	C6H4F2	m-difluorobenzene	372-18-9	204.03	8.580	1
5951	C5H13N	1,1-dimethylpropylamine	594-39-8	168.15	7.787	2	6525	C6H4F2	o-difluorobenzene	367-11-3	239.16	11.050	1
5952	C5H13N	1,2-dimethylpropylamine	598-74-3	223.15	8.228	2	6526	C6H4F2	p-difluorobenzene	540-36-3	260.16	10.346	2
5953	C5H13N	2,2-dimethylpropylamine	5813-64-9	203.15	11.096	2	6553	C6H4I2	o-diiodobenzene	615-42-9	300.15	14.079	1
5954	C5H13N	3-pentanamine	616-24-0	203.15	11.096	2	6554	C6H4I2	m-diiodobenzene	626-00-6	313.55	15.943	1
5955	C5H13N	methyl-butylamine	110-68-9	198.15	13.715	2	6555	C6H4I2	p-diiodobenzene	624-38-4	404.65	22.340	1
5956	C5H13N	methylisobutylamine	14610-37-8	198.15	13.715	2	6580	C6H4N2O4	m-dinitrobenzene	99-65-0	364.00	17.350	1
5957	C5H13N	methyl-sec-butylamine	7713-69-1	198.15	13.715	2	6581	C6H4N2O4	o-dinitrobenzene	528-29-0	390.08	22.750	1
5958	C5H13N	methyl-tert-butylamine	625-43-4	198.15	13.715	2	6582	C6H4N2O4	p-dinitrobenzene	100-25-4	446.60	28.100	1
5959	C5H13N	ethylpropylamine	20193-20-8	198.15	13.715	2	6586	C6H4N2O5	2,3-dinitrophenol	66-56-8	417.65	26.239	1
5960	C5H13N	ethylisopropylamine	19961-27-4	198.15	13.715	2	6587	C6H4N2O5	2,4-dinitrophenol	51-28-5	388.65	24.174	1
5961	C5H13N	methyldiethylamine	616-39-7	170.00	11.727	2	6588	C6H4N2O5	2,5-dinitrophenol	329-71-5	381.15	23.730	1
5962	C5H13N	dimethyl-propylamine	926-63-6	170.00	11.727	2	6589	C6H4N2O5	2,6-dinitrophenol	573-56-8	336.65	19.577	1
5963	C5H13N	dimethylisopropylamine	996-35-6	170.00	11.727	2	6590	C6H4N2O5	3,4-dinitrophenol	577-71-9	407.15	25.376	1
5964	C5H13N	(S)-(-)-2-methylbutylamine	20626-52-2	203.15	11.096	2	6591	C6H4N2O5	3,5-dinitrophenol	586-11-8	398.25	25.000	2
5965	C5H13N	N,N-dimethyl-2-propanamine	996-35-0	170.00	11.727	2	6616	C6H4O2	p-benzoquinone	106-51-4	388.15	18.450	1
6009	C5H14N2	1,5-pentanediamine	462-94-2	282.15	15.432	2	6656	C6H5Br	bromobenzene	108-86-1	242.43	10.702	1
6010	C5H14N2	N,N,N',N'-tetramethylmethanediamine	51-80-9	242.26	15.432	2	6673	C6H5BrO	p-bromophenol	106-41-2	339.55	16.473	1
6011	C5H14N2	1,3-diaminopentane	589-37-7	152.25	15.432	2	6692	C6H5Cl	chlorobenzene	108-90-7	227.95	9.556	2
6012	C5H14N2	3-dimethylamino-1-propylamine	109-55-7	213.25	15.432	2	6720	C6H5ClO	m-chlorophenol	108-43-0	306.00	14.905	1
6013	C5H14N2	N,N'-dimethyl-1,3-propanediamine	111-33-1	194.43	12.385	1	6721	C6H5ClO	o-chlorophenol	95-57-8	282.00	12.523	1
6014	C5H14N2	2,2-dimethyl-1,3-propanediamine	7328-91-8	303.15	15.432	2	6722	C6H5ClO	p-chlorophenol	106-48-9	316.00	14.067	1
6015	C5H14N2	1-dimethylamino-2-propylamine	62689-51-4	308.33	15.432	2	6764	C6H5Cl3Si	trichlorophenylsilane	98-13-5	233.40	11.660	1

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
6769	C6H5F	fluorobenzene	462-06-6	230.94	11.305	1	7644	C6H10	3-methyl-1,4-pentadiene	1115-08-8	138.36	5.213	2
6795	C6H5I	iodobenzene	591-50-4	241.83	9.749	2	7645	C6H10	2-methyl-2,3-pentadiene	3043-33-2	144.35	12.318	2
6819	C6H5NO2	nitrobenzene	98-95-3	278.91	10.815	1	7646	C6H10	2-ethyl-1,3-butadiene	3404-63-5	139.40	7.426	2
6822	C6H5NO2	3-pyridinecarboxylic acid	59-67-6	509.75	26.700	1	7647	C6H10	2,3-dimethyl-1,3-butadiene	513-81-5	197.15	6.116	2
6823	C6H5NO2	4-pyridinecarboxylic acid	55-22-1	588.15	135.000	1	7648	C6H10	1-hexyne	693-02-7	141.25	14.270	2
6830	C6H5NO3	o-nitrophenol	88-75-5	317.95	17.446	1	7649	C6H10	2-hexyne	764-35-2	183.65	14.416	2
6831	C6H5NO3	m-nitrophenol	554-84-7	369.95	19.960	1	7650	C6H10	3-hexyne	928-49-4	170.05	14.416	2
6832	C6H5NO3	p-nitrophenol	100-02-7	386.75	30.118	1	7651	C6H10	3-methyl-1-pentyne	922-59-8	188.85	10.747	2
6876	C6H6	benzene	71-43-2	278.68	9.866	1	7652	C6H10	4-methyl-1-pentyne	7154-75-8	168.55	10.747	2
6923	C6H6ClN	m-chloroaniline	108-42-9	262.75	10.152	2	7653	C6H10	4-methyl-2-pentyne	21020-27-9	162.85	10.893	2
6924	C6H6ClN	o-chloroaniline	95-51-2	269.65	11.883	2	7654	C6H10	3,3-dimethyl-1-butyne	917-92-0	194.95	6.856	2
6925	C6H6ClN	p-chloroaniline	106-47-8	343.05	19.840	2	7657	C6H10	1,3-hexadiene, cis and trans	592-48-3	158.35	10.365	2
6948	C6H6Cl6	1,2,3,4,5,6-hexachlorocyclohexane, (1alpha,2*	58-89-9	385.65	25.930	1	7658	C6H10	2-methyl-1,3-pentadiene	1118-58-7	258.25	10.365	2
6954	C6H6Cl6	hexachlorocyclohexane; (mixed isomers)	608-73-1	385.90	25.930	2	7659	C6H10	methylpentadiene, isomers	54363-49-4	158.35	10.365	2
6996	C6H6N2O2	m-nitroaniline	99-09-2	387.15	23.680	1	7660	C6H10	hexadiene	42296-74-2	158.35	10.365	2
6997	C6H6N2O2	o-nitroaniline	88-74-4	344.65	16.108	1	7760	C6H10O	cyclohexanone	108-94-1	242.00	1.328	1
6998	C6H6N2O2	p-nitroaniline	100-01-6	420.65	21.090	1	7813	C6H10O2	epsilon-caprolactone	502-44-3	271.85	13.820	1
7000	C6H6N2O2	N-nitroaniline	645-55-6	320.45	19.398	2	7814	C6H10O2	ethyl methacrylate	97-63-2	272.00	13.075	2
7057	C6H6O	phenol	108-95-2	314.06	11.514	1	7815	C6H10O2	propyl acrylate	925-60-0	272.00	14.385	2
7070	C6H6O2	pyrocatechol	120-80-9	377.60	22.000	1	7817	C6H10O2	2-buten-1-yl acetate	628-08-0	291.19	15.400	2
7071	C6H6O2	resorcinol	108-46-3	382.00	18.900	1	7818	C6H10O2	allyl propanoate	2408-20-0	291.19	15.400	2
7072	C6H6O2	p-hydroquinone	123-31-9	444.65	26.500	1	7829	C6H10O2	ethyl 3-butenoate	1617-18-1	291.19	15.400	2
7085	C6H6O3	1,2,3-benzenetriol	87-66-1	407.00	18.550	2	7830	C6H10O2	ethyl cis-2-butenoate	6776-19-8	291.19	15.400	2
7121	C6H6S	phenyl mercaptan	108-98-5	258.26	11.447	1	7831	C6H10O2	ethyl 2-butenoate	10544-63-5	291.19	15.400	2
7172	C6H7N	aniline	62-53-3	267.13	10.540	2	7832	C6H10O2	ethyl trans-2-butenoate	623-70-1	291.19	15.400	2
7173	C6H7N	2-methylpyridine	109-06-8	206.44	9.724	1	7833	C6H10O2	vinyl butanoate	123-20-6	291.19	15.400	2
7174	C6H7N	3-methylpyridine	108-99-6	255.01	14.180	1	7834	C6H10O2	vinyl 2-methylpropanoate	2424-98-8	291.19	15.400	2
7175	C6H7N	4-methylpyridine	108-89-4	276.73	12.582	1	7845	C6H10O2	methyl 2-methyl-2-butenoate	6622-76-0	291.19	15.400	2
7178	C6H7N	methylpyridine	1333-41-1	275.55	12.518	2	7846	C6H10O2	methyl 3-methyl-2-butenoate	924-50-5	310.37	15.400	2
7182	C6H7NO	2-aminophenol	95-55-6	447.15	34.000	1	7848.1	C6H10O2	isopropyl acrylate	689-12-3	190.00	11.300	2
7183	C6H7NO	3-aminophenol	591-27-5	396.15	22.967	1	7859	C6H10O2	methyl trans-2-pentenoate	15790-88-2	291.19	15.400	2
7184	C6H7NO	4-aminophenol	123-30-8	460.65	31.200	1	7860	C6H10O2	methyl trans-3-pentenoate	20515-19-9	291.19	15.400	2
7267	C6H8	1,3-cyclohexadiene	592-57-4	161.00	4.205	1	7881	C6H10O3	ethylacetoacetate	141-97-9	234.15	17.264	2
7269	C6H8	1,4-cyclohexadiene	628-41-1	223.95	5.715	1	7917	C6H10O4	adipic acid	124-04-9	425.50	34.850	1
7316	C6H8N2	adiponitrile	111-69-3	275.64	23.076	1	7919	C6H10O4	ethylene glycol diacetate	111-55-7	242.15	20.034	2
7318	C6H8N2	m-phenylenediamine	108-45-2	334.00	15.400	1	7920	C6H10O4	ethylidene diacetate	542-10-9	292.00	16.511	2
7319	C6H8N2	o-phenylenediamine	95-54-5	376.95	23.100	1	7953.1	C6H10O5	dilactic acid	19201-34-4	385.65	27.500	2
7320	C6H8N2	p-phenylenediamine	106-50-3	413.00	24.900	1	7979	C6H11Br	cis-1-bromo-1-hexene	13154-12-6	211.60	16.783	2
7321	C6H8N2	phenylhydrazine	100-63-0	292.35	16.430	1	7980	C6H11Br	trans-1-bromo-1-hexene	13154-13-7	211.60	16.783	2
7343	C6H8N2O	bis(cyanoethyl) ether	1656-48-0	246.85	17.200	2	7982	C6H11Br	6-bromo-1-hexene	2695-47-8	211.60	16.783	2
7355	C6H8N2O2	1,3-dimethyl-2,4(1H,3H)-pyrimidinedione	874-14-6	392.50	23.100	1	7983	C6H11Br	5-bromo-2-methyl-2-pentene	2270-59-9	211.60	16.783	2
7411	C6H8O2	1,4-cyclohexanedione	637-88-7	351.15	11.325	1	8004	C6H11Br3	1,1,1-tribromohexane	62127-63-3	338.70	19.737	2
7446	C6H8O4	dimethyl maleate	624-48-6	254.15	14.640	1	8006	C6H11Cl	cis-1-chloro-1-hexene	50586-18-0	181.72	15.695	2
7451	C6H8O4	dimethyl fumarate	624-49-7	376.65	35.150	1	8007	C6H11Cl	trans-1-chloro-1-hexene	50586-19-1	181.72	15.695	2
7467	C6H8S	2-ethylthiophene	872-55-9	241.08	9.872	2	8009	C6H11Cl	1-chloro-2,3-dimethyl-2-butene	37866-06-1	181.72	15.695	2
7468	C6H8S	3-ethylthiophene	1795-01-3	184.05	9.872	2	8010	C6H11Cl	1-chloro-1-hexene	22922-67-4	181.72	15.695	2
7469	C6H8S	2,3-dimethylthiophene	632-16-6	224.15	9.483	2	8011	C6H11Cl	1-chloro-3-hexene	62706-16-5	181.72	15.695	2
7470	C6H8S	2,4-dimethylthiophene	638-00-6	241.08	9.483	2	8012	C6H11Cl	2-chloro-1-hexene	10124-73-9	181.72	15.695	2
7471	C6H8S	2,5-dimethylthiophene	638-02-8	210.55	8.191	1	8013	C6H11Cl	4-chloro-2-hexene	6734-98-1	181.72	15.695	2
7472	C6H8S	3,4-dimethylthiophene	632-15-5	241.08	9.483	2	8014	C6H11Cl	5-chloro-1-hexene	927-54-8	181.72	15.695	2
7503	C6H9ClO2	chloroethyl methacrylate	1888-94-4	235.15	17.001	1	8015	C6H11Cl	cis-3-chloro-3-hexene	17226-34-5	181.72	15.695	2
7533	C6H9N	2,4-dimethylpyrrole	625-82-1	279.65	9.296	2	8016	C6H11Cl	3-chloro-2-methyl-1-pentene	4104-01-2	181.72	15.695	2
7534	C6H9N	2,5-dimethylpyrrole	625-84-3	279.65	9.296	1	8017	C6H11Cl	5-chloro-2-methyl-2-pentene	7712-60-9	181.72	15.695	2
7535	C6H9N	1-ethyl-1H-pyrrole	617-92-5	279.65	9.296	2	8066	C6H11Cl3	1,1,1-trichlorohexane	17760-40-6	249.06	16.473	2
7536	C6H9N	2-ethyl-1H-pyrrole	1551-06-0	279.65	9.296	2	8071	C6H11F	cis-1-fluoro-1-hexene	66225-46-5	183.95	14.578	2
7619	C6H10	1-methylcyclopentene	693-89-0	145.96	6.453	2	8072	C6H11F	trans-1-fluoro-1-hexene	66225-47-6	183.95	14.578	2
7620	C6H10	3-methylcyclopentene	1120-62-3	130.16	6.453	2	8077	C6H11F3	1,1,1-trifluorohexane	---	255.75	13.122	2
7621	C6H10	4-methylcyclopentene	1759-81-5	112.31	6.453	2	8080	C6H11I	cis-1-iodo-1-hexene	16538-47-9	209.86	15.904	2
7622	C6H10	cyclohexene	110-83-8	169.67	3.284	1	8081	C6H11I	trans-1-iodo-1-hexene	16644-98-7	209.86	15.904	2
7623	C6H10	1,2-hexadiene	592-44-9	161.63	12.146	2	8086	C6H11I3	1,1,1-triiodohexane	---	333.48	17.100	2
7624	C6H10	1,cis-3-hexadiene	14596-92-0	150.04	10.218	2	8088	C6H11N	hexanenitrile	628-73-9	192.85	16.620	2
7625	C6H10	1,trans-3-hexadiene	20237-34-7	170.75	10.218	2	8089	C6H11N	2-methylpentanenitrile	6339-13-5	206.87	9.279	2
7626	C6H10	1,4-hexadiene	592-45-0	158.35	10.365	2	8090	C6H11N	2-ethylbutanenitrile	617-80-1	206.87	9.279	2
7627	C6H10	1,cis-4-hexadiene	7318-67-4	150.04	10.218	2	8091	C6H11N	3-methylpentanenitrile	21101-88-2	206.87	9.279	2
7628	C6H10	1,trans-4-hexadiene	7319-00-8	134.45	10.218	2	8092	C6H11N	4-methylpentanenitrile	542-54-1	222.05	9.279	2
7629	C6H10	1,5-hexadiene	592-42-7	132.47	8.736	2	8093	C6H11N	2,2-dimethylbutanenitrile	20654-46-0	224.29	5.388	2
7630	C6H10	2,3-hexadiene	592-49-4	158.31	13.628	2	8094	C6H11N	2,3-dimethylbutanenitrile	20654-44-8	191.87	5.756	2
7631	C6H10	2,4-hexadiene	592-46-1	194.15	10.365	2	8095	C6H11N	3,3-dimethylbutanenitrile	3302-16-7	306.15	5.388	2
7632	C6H10	cis-2,trans-4-hexadiene	5194-50-3	177.05	11.700	2	8101	C6H11NO	epsilon-caprolactam	105-60-2	342.36	16.096	1
7633	C6H10	cis-2,cis-4-hexadiene	6108-61-8	146.72	11.700	2	8102	C6H11NO	cyclohexanone oxime	100-64-1	363.15	12.700	1
7634	C6H10	trans-2,trans-4-hexadiene	5194-51-4	228.25	11.700	2	8208	C6H12	1,1-dimethylcyclobutane	---	195.20	1.033	2
7635	C6H10	3-methyl-1,2-pentadiene	7417-48-3	147.67	10.836	2	8209	C6H12	1,cis-2-dimethylcyclobutane	15679-01-3	167.06	8.402	2
7636	C6H10	4-methyl-1,2-pentadiene	13643-05-5	145.26	10.836	2	8210	C6H12	1,trans-2-dimethylcyclobutane	15679-02-4	150.65	8.402	2
7637	C6H10	3-methyl-1,3-pentadiene	4549-74-0	145.26	11.836	2	8211	C6H12	1,cis-3-dimethylcyclobutane	2398-09-6	167.06	8.402	2
7638	C6H10	2-methyl-1,cis-3-pentadiene	1501-60-6	155.55	8.908	2	8212	C6H12	1,trans-3-dimethylcyclobutane	2398-10-9	167.06	8.402	2
7639	C6H10	2-methyl-1,trans-3-pentadiene	926-54-5	136.08	8.908	2	8213	C6H12	ethylcyclobutane	4806-61-5	130.40	7.331	2
7640	C6H10	3-methyl-1,cis-3-pentadiene	2787-45-3	136.08	8.908	2	8214	C6H12	methylcyclopentane	96-37-7	130.73	6.930	1
7641	C6H10	3-methyl-1,trans-3-pentadiene	2787-43-1	136.08	8.908	2	8215	C6H12	cyclohexane	110-82-7	279.69	2.680	1
7642	C6H10	4-methyl-1,3-pentadiene	926-56-7	136.08	8.908	2	8216	C6H12	1-hexene	592-41-6	133.39	9.347	1
7643	C6H10	2-methyl-1,4-pentadiene	763-30-4	139.40	7.426	2	8217	C6H12	2-hexene; (cis+trans)	592-43-8	175.25	7.134	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
8218	C6H12	cis-2-hexene	7688-21-3	132.00	8.880	1	8470	C6H12O2	2-methylbutyl formate	35073-27-9	200.58	13.824	2
8219	C6H12	trans-2-hexene	4050-45-7	140.17	8.255	1	8471	C6H12O2	isopentyl formate	110-45-2	179.65	13.824	2
8220	C6H12	hex-3-ene	592-47-2	183.25	7.134	2	8472	C6H12O2	1-ethylpropyl formate	58368-67-5	200.58	13.824	2
8221	C6H12	cis-3-hexene	7642-09-3	135.33	8.247	1	8473	C6H12O2	1,1-dimethylpropyl formate	757-88-0	218.00	9.933	2
8222	C6H12	trans-3-hexene	13269-52-8	159.73	11.080	1	8474	C6H12O2	1,2-dimethylpropyl formate	66794-46-5	185.58	10.301	2
8223	C6H12	2-methyl-1-pentene	763-29-1	137.42	7.029	1	8475	C6H12O2	2,2-dimethylpropyl formate	23361-67-3	218.00	9.933	2
8224	C6H12	3-methyl-1-pentene	760-20-3	120.20	3.600	1	8476	C6H12O2	butyl acetate	123-86-4	199.65	14.590	1
8225	C6H12	4-methyl-1-pentene	691-37-2	119.51	3.556	1	8477	C6H12O2	isobutyl acetate	110-19-0	174.30	12.400	2
8226	C6H12	4-methyl-2-pentene	4461-48-7	146.05	7.134	2	8478	C6H12O2	sec-butyl acetate	105-46-4	174.15	12.142	2
8227	C6H12	4-methyl-cis-2-pentene	691-38-3	138.30	7.364	1	8479	C6H12O2	tert-butyl acetate	540-88-5	201.63	8.251	2
8228	C6H12	4-methyl-trans-2-pentene	674-76-0	132.35	7.155	1	8480	C6H12O2	propyl propanoate	106-36-5	197.25	15.000	2
8229	C6H12	2-methyl-2-pentene	625-27-4	138.07	8.033	1	8481	C6H12O2	isopropyl propanoate	637-78-5	184.21	12.142	2
8230	C6H12	3-methyl-cis-2-pentene	922-62-3	138.31	5.920	1	8482	C6H12O2	ethyl butanoate	105-54-4	175.15	12.500	1
8231	C6H12	3-methyl-2-pentene, cis and trans	922-61-2	143.92	7.134	2	8483	C6H12O2	ethyl isobutanoate	97-62-1	185.00	12.142	2
8232	C6H12	3-methyl-trans-2-pentene	616-12-6	134.70	7.699	1	8485	C6H12O2	diacetone alcohol	123-42-2	229.15	6.040	1
8233	C6H12	2,3-dimethyl-1-butene	563-78-0	115.89	5.448	1	8497	C6H12O2	methyl 2,2-dimethylpropanoate	598-98-1	190.73	13.538	2
8234	C6H12	2,3-dimethyl-2-butene	563-79-1	198.82	6.440	1	8514	C6H12O2	(±)-3-methylvaleric acid	105-43-1	231.65	15.979	2
8235	C6H12	3,3-dimethyl-1-butene	558-37-2	157.95	1.096	1	8515	C6H12O2	2-methylvaleric acid	97-61-0	255.35	15.979	2
8236	C6H12	2-ethyl-1-butene	760-21-4	141.61	7.573	1	8531	C6H12O3	2-ethoxyethyl acetate	111-15-9	211.45	17.200	1
8239	C6H12BNO3	triethanolamine borate	15277-97-1	507.65	24.100	1	8532	C6H12O3	hydroxycaproic acid	1191-25-9	334.00	25.527	2
8245	C6H12Br2	1,1-dibromohexane	58133-26-9	261.48	18.343	2	8533	C6H12O3	paraldehyde	123-63-7	285.75	13.520	1
8246	C6H12Br2	1,2-dibromo-2,3-dimethylbutane	29916-45-8	301.65	21.161	2	8637	C6H12S	cyclohexanethiol	1569-69-3	189.64	10.000	1
8247	C6H12Br2	1,4-dibromo-2,3-dimethylbutane	54462-70-3	301.65	21.161	2	8638	C6H12S	cyclopentyl methyl sulfide	7133-36-0	169.34	10.104	1
8248	C6H12Br2	2,3-dibromo-2,3-dimethylbutane	594-81-0	435.15	21.161	2	8647	C6H13Br	1-bromohexane	111-25-1	188.45	18.054	1
8249	C6H12Br2	1,2-dibromohexane	624-20-4	301.65	21.161	2	8648	C6H13Br	2-bromohexane	3377-86-4	201.68	13.058	2
8250	C6H12Br2	1,4-dibromohexane	25118-28-9	301.65	21.161	2	8649	C6H13Br	3-bromohexane	3377-87-5	201.68	13.058	2
8251	C6H12Br2	1,5-dibromohexane	627-96-3	301.65	21.161	2	8650	C6H13Br	1-bromo-2-methylpentane	25346-33-2	201.68	13.058	2
8252	C6H12Br2	1,6-dibromohexane	629-03-8	271.95	21.161	2	8651	C6H13Br	1-bromo-3-methylpentane	51116-73-5	201.68	13.058	2
8253	C6H12Br2	2,3-dibromohexane	6423-02-5	301.65	21.161	2	8652	C6H13Br	1-bromo-4-methylpentane	626-88-0	201.68	13.058	2
8254	C6H12Br2	2,5-dibromohexane, (R*,R**)-(±)-	54462-68-9	228.51	21.161	2	8653	C6H13Br	2-bromo-2-methylpentane	4283-80-1	219.10	9.167	2
8255	C6H12Br2	1,2-dibromo-3,3-dimethylbutane	640-21-1	301.65	21.161	2	8654	C6H13Br	2-bromo-3-methylpentane	62168-41-6	186.68	9.535	2
8256	C6H12Br2	3,4-dibromohexane	16230-28-7	301.65	21.161	2	8655	C6H13Br	2-bromo-4-methylpentane	30310-22-6	178.95	9.535	2
8257	C6H12Br2	2,5-dibromohexane	24774-58-1	311.15	21.161	2	8656	C6H13Br	3-bromo-2-methylpentane	4283-83-4	186.68	9.535	2
8258	C6H12Br2	1,5-dibromo-3-methylpentane	4457-72-1	301.65	21.161	2	8657	C6H13Br	3-bromo-3-methylpentane	25346-31-0	180.95	9.167	2
8273	C6H12Cl2	1,1-dichlorohexane	62017-16-7	201.72	16.167	2	8658	C6H13Br	1-bromo-2,2-dimethylbutane	62168-42-7	201.68	13.058	2
8274	C6H12Cl2	1,2-dichlorohexane	2162-92-7	217.32	17.418	2	8659	C6H13Br	1-bromo-2,3-dimethylbutane	30540-31-9	219.10	9.167	2
8275	C6H12Cl2	1,6-dichlorohexane	2163-00-0	217.32	17.418	2	8660	C6H13Br	1-bromo-3,3-dimethylbutane	1647-23-0	186.68	9.535	2
8276	C6H12Cl2	2,2-dichlorohexane	42131-89-5	217.32	17.418	2	8661	C6H13Br	2-bromo-2,3-dimethylbutane	594-52-5	298.15	9.167	2
8277	C6H12Cl2	2,3-dichlorohexane	54305-87-2	217.32	17.418	2	8662	C6H13Br	2-bromo-3,3-dimethylbutane	26356-06-9	298.15	5.644	2
8278	C6H12Cl2	2,5-dichlorohexane, (R*,R*)-(±)-	41761-12-0	235.15	17.418	2	8663	C6H13Br	1-bromo-2-ethylbutane	3814-34-4	204.10	5.644	2
8279	C6H12Cl2	1,1-dichloro-3,3-dimethylbutane	6130-96-7	215.10	17.418	2	8669	C6H13Cl	1-chlorohexane	544-10-5	179.15	15.493	2
8280	C6H12Cl2	hexane, 2,5-dichloro-, (R*,S*)-	41761-11-9	217.32	17.418	2	8670	C6H13Cl	2-chlorohexane	638-28-8	171.80	11.970	2
8281	C6H12Cl2	2,2-dichloro-3,3-dimethylbutane	594-84-3	217.32	17.418	2	8671	C6H13Cl	3-chlorohexane	2346-81-8	171.80	11.970	2
8298	C6H12F2	1,1-difluorohexane	62127-41-7	206.18	13.933	2	8672	C6H13Cl	1-chloro-2-methylpentane	14753-05-0	171.80	11.970	2
8305	C6H12I2	1,1-diiodohexane	66225-50-1	258.00	16.585	2	8673	C6H13Cl	1-chloro-3-methylpentane	62016-93-7	171.80	11.970	2
8306	C6H12I2	1,6-diiodohexane	629-09-4	282.65	17.377	2	8674	C6H13Cl	1-chloro-4-methylpentane	62016-94-8	171.80	11.970	2
8315	C6H12N2	triethylenediamine	280-57-9	434.25	7.431	1	8675	C6H13Cl	2-chloro-2-methylpentane	4325-48-8	189.22	8.079	2
8394	C6H12O	butyl vinyl ether	111-34-2	181.25	13.800	2	8676	C6H13Cl	2-chloro-3-methylpentane	24319-09-3	156.80	8.447	2
8395	C6H12O	sec-butyl vinyl ether	1888-85-3	167.85	12.780	2	8677	C6H13Cl	2-chloro-4-methylpentane	25346-32-1	156.80	8.447	2
8396	C6H12O	tert-butyl vinyl ether	926-02-3	161.15	12.780	2	8678	C6H13Cl	3-chloro-2-methylpentane	38384-05-3	156.80	8.447	2
8397	C6H12O	isobutyl vinyl ether	109-53-5	161.15	12.780	2	8679	C6H13Cl	3-chloro-3-methylpentane	918-84-3	189.22	8.079	2
8398	C6H12O	3-(1-methylethoxy)-1-propene	6140-80-3	167.85	12.780	2	8680	C6H13Cl	1-chloro-2-ethylbutane	4737-41-1	171.80	11.970	2
8399	C6H12O	3-propoxy-1-propene	1471-03-0	167.85	12.780	2	8681	C6H13Cl	1-chloro-2,2-dimethylbutane	6366-35-4	189.22	8.079	2
8400	C6H12O	cyclohexanol	108-93-0	296.60	1.783	2	8682	C6H13Cl	1-chloro-2,3-dimethylbutane	600-06-6	156.80	8.447	2
8401	C6H12O	hexanal	66-25-1	217.15	13.330	1	8683	C6H13Cl	1-chloro-3,3-dimethylbutane	2855-08-5	189.22	8.079	2
8402	C6H12O	2-methylpentanal	123-15-9	183.88	14.087	2	8684	C6H13Cl	2-chloro-2,3-dimethylbutane	594-57-0	262.75	4.556	2
8403	C6H12O	3-methylpentanal	15877-57-3	183.88	14.087	2	8685	C6H13Cl	2-chloro-3,3-dimethylbutane	5750-00-5	272.25	4.556	2
8404	C6H12O	4-methylpentanal	1119-16-0	183.88	14.087	2	8705	C6H13F	1-fluorohexane	373-14-8	170.15	14.376	2
8405	C6H12O	2-ethylbutanal	97-96-1	184.15	14.087	2	8706	C6H13F	2-fluorohexane	372-54-3	169.15	10.853	2
8406	C6H12O	2,2-dimethylbutanal	2094-75-9	201.30	8.639	2	8707	C6H13F	3-fluorohexane	52688-75-2	169.15	10.853	2
8407	C6H12O	2,3-dimethylbutanal	2109-98-0	168.88	9.155	2	8708	C6H13F	1-fluoro-2-methylpentane	62127-27-9	174.03	10.853	2
8408	C6H12O	3,3-dimethylbutanal	2987-16-8	201.30	8.639	2	8709	C6H13F	1-fluoro-3-methylpentane	62127-28-0	174.03	10.853	2
8409	C6H12O	2-hexanone	591-78-6	217.35	14.900	1	8710	C6H13F	1-fluoro-4-methylpentane	62127-29-1	174.03	10.853	2
8410	C6H12O	3-hexanone	589-38-8	217.50	13.490	1	8711	C6H13F	2-fluoro-2-methylpentane	62127-30-4	191.45	6.962	2
8411	C6H12O	3-methyl-2-pentanone	565-61-7	167.15	10.309	2	8712	C6H13F	2-fluoro-3-methylpentane	62127-31-5	159.03	7.330	2
8412	C6H12O	4-methyl-2-pentanone	108-10-1	189.15	10.309	2	8713	C6H13F	2-fluoro-4-methylpentane	62127-32-6	159.03	7.330	2
8413	C6H12O	ethyl isopropyl ketone	565-69-5	191.81	10.309	2	8714	C6H13F	3-fluoro-2-methylpentane	62127-33-7	159.03	7.330	2
8414	C6H12O	3,3-dimethyl-2-butanone	75-97-8	221.15	11.330	1	8715	C6H13F	3-fluoro-3-methylpentane	19031-61-9	191.45	6.962	2
8415	C6H12O	3-methyl-2-pentanone, (±)	55156-16-6	200.69	11.765	2	8716	C6H13F	1-fluoro-2,2-dimethylbutane	62127-34-8	174.03	10.853	2
8453	C6H12O	2,2-dimethyl-3-butanone	75-97-8	200.69	11.765	2	8717	C6H13F	1-fluoro-2,3-dimethylbutane	62127-35-9	191.45	6.962	2
8460	C6H12O2	hexanoic acid	142-62-1	270.15	15.062	1	8718	C6H13F	1-fluoro-3,3-dimethylbutane	371-64-2	159.03	7.330	2
8461	C6H12O2	2-ethyl butyric acid	88-09-5	258.15	17.916	2	8719	C6H13F	2-fluoro-2,3-dimethylbutane	354-09-6	191.45	6.962	2
8462	C6H12O2	tert-butylacetic acid	1070-83-3	279.65	15.979	2	8720	C6H13F	2-fluoro-3,3-dimethylbutane	92089-78-6	176.45	3.439	2
8463	C6H12O2	2,2-dimethylbutanoic acid	595-37-9	259.15	15.979	2	8721	C6H13F	1-fluoro-2-ethylbutane	---	176.45	3.439	2
8464	C6H12O2	2,3-dimethylbutanoic acid	14287-61-7	272.35	15.979	2	8724	C6H13I	1-iodohexane	638-45-9	198.95	15.702	2
8465	C6H12O2	2-methylpentanoic acid, (±)	22160-39-0	255.35	15.979	2	8725	C6H13I	2-iodohexane	59654-13-6	199.94	12.179	2
8466	C6H12O2	3-methylpentanoic acid, (±)	22160-40-3	231.55	15.979	2	8726	C6H13I	3-iodohexane	31294-91-4	199.94	12.179	2
8467	C6H12O2	4-methylpentanoic acid	646-07-1	240.15	15.979	2	8727	C6H13I	1-iodo-2-methylpentane	31294-94-7	199.94	12.179	2
8468	C6H12O2	pentyl formate	638-49-3	199.65	17.347	2	8728	C6H13I	1-iodo-3-methylpentane	24346-53-0	199.94	12.179	2
8469	C6H12O2	1-methylbutyl formate	58368-66-4	200.58	13.824	2	8729	C6H13I	1-iodo-4-methylpentane	6196-80-1	199.94	12.179	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
8730	C6H13I	2-iodo-2-methylpentane	31294-95-8	217.36	8.288	2	9009	C6H14O	tert-hexyl alcohol	26401-20-7	213.40	9.667	2
8731	C6H13I	2-iodo-3-methylpentane	24319-07-1	184.94	8.656	2	9021	C6H14O2	2-butoxyethanol	111-76-2	203.15	19.100	2
8732	C6H13I	2-iodo-4-methylpentane	31294-96-9	184.94	8.656	2	9022	C6H14O2	hexylene glycol	107-41-5	223.15	16.000	2
8733	C6H13I	3-iodo-2-methylpentane	31294-97-0	184.94	8.656	2	9023	C6H14O2	1,2-hexanediol	6920-22-5	318.15	17.437	2
8734	C6H13I	3-iodo-3-methylpentane	24319-05-2	217.36	8.288	2	9024	C6H14O2	1,3-hexanediol	21531-91-9	263.52	17.437	2
8735	C6H13I	1-iodo-2,2-dimethylbutane	31294-98-1	199.94	12.179	2	9025	C6H14O2	1,4-hexanediol	16432-53-4	263.52	17.437	2
8736	C6H13I	1-iodo-2,3-dimethylbutane	31295-00-8	217.36	8.288	2	9026	C6H14O2	1,5-hexanediol	928-40-5	263.52	17.437	2
8737	C6H13I	1-iodo-3,3-dimethylbutane	15672-88-5	184.94	8.656	2	9027	C6H14O2	1,6-hexanediol	629-11-8	315.15	17.000	2
8738	C6H13I	2-iodo-2,3-dimethylbutane	594-59-2	217.36	8.288	2	9028	C6H14O2	2,3-hexanediol	617-30-1	333.15	17.437	2
8739	C6H13I	2-iodo-3,3-dimethylbutane	24556-56-7	202.36	4.765	2	9029	C6H14O2	2,4-hexanediol	19780-90-6	277.56	17.437	2
8740	C6H13I	1-iodo-2-ethylbutane	---	202.36	4.765	2	9030	C6H14O2	2,5-hexanediol	2935-44-6	316.15	17.437	2
8742	C6H13N	cyclohexylamine	108-91-8	255.45	13.700	2	9031	C6H14O2	3,4-hexanediol	922-17-8	248.52	17.437	2
8753	C6H13N	1-methylpiperidine	626-67-5	170.45	16.580	2	9032	C6H14O2	2-methyl-1,2-pentanediol	20667-05-4	280.94	17.437	2
8754	C6H13N	2-methylpiperidine, (±)	3000-79-1	270.65	18.584	1	9033	C6H14O2	2-methyl-1,3-pentanediol	149-31-5	243.15	17.437	2
8755	C6H13N	3-methylpiperidine, (±)	53152-98-0	249.15	16.580	2	9034	C6H14O2	2-methyl-1,5-pentanediol	42856-62-2	248.52	17.437	2
8756	C6H13N	4-methylpiperidine	626-58-4	241.46	16.580	2	9035	C6H14O2	2-methyl-2,3-pentanediol	7795-80-4	265.94	17.437	2
8759	C6H13N	2-methylpiperidine	109-05-7	269.45	16.580	2	9036	C6H14O2	3-methyl-1,3-pentanediol	33879-72-0	280.94	17.437	2
8760	C6H13N	(S)-(+)-2-methylpiperidine	3197-42-0	241.46	16.580	2	9037	C6H14O2	3-methyl-1,5-pentanediol	4457-71-0	213.15	17.437	2
8761	C6H13N	3-methylpiperidine	626-56-2	247.60	16.580	2	9038	C6H14O2	3-methyl-2,3-pentanediol	63521-37-9	265.94	17.437	2
8790	C6H13NO2	1-nitrohexane	646-14-0	300.49	20.391	2	9039	C6H14O2	3-methyl-2,4-pentanediol	5683-44-3	233.52	17.437	2
8791	C6H13NO2	2-nitrohexane	14255-44-8	285.49	17.221	2	9040	C6H14O2	4-methyl-1,4-pentanediol	1462-10-8	280.94	17.437	2
8792	C6H13NO2	3-nitrohexane	7286-40-0	285.49	17.221	2	9041	C6H14O2	DL-erythro-4-methyl-2,3-pentanediol	6702-10-9	322.15	17.437	2
8793	C6H13NO2	1-nitro-2-methylpentane	---	285.49	17.221	2	9042	C6H14O2	DL-threo-4-methyl-2,3-pentanediol	6464-40-0	332.15	17.437	2
8794	C6H13NO2	1-nitro-3-methylpentane	---	285.49	17.221	2	9043	C6H14O2	2-ethyl-1,2-butanediol	66553-16-0	318.65	17.437	2
8795	C6H13NO2	1-nitro-4-methyl pentane	---	285.49	17.221	2	9044	C6H14O2	2-ethyl-1,3-butanediol	66553-17-1	248.52	17.437	2
8796	C6H13NO2	2-nitro-2-methylpentane	---	302.91	13.719	2	9045	C6H14O2	2-ethyl-1,4-butanediol	57716-79-7	248.52	17.437	2
8797	C6H13NO2	2-nitro-3-methylpentane	42202-42-6	270.49	14.050	2	9046	C6H14O2	2,2-dimethyl-1,3-butanediol	76-35-7	260.35	17.437	2
8798	C6H13NO2	2-nitro-4-methylpentane	---	270.49	14.050	2	9047	C6H14O2	2,2-dimethyl-1,4-butanediol	32812-23-0	265.94	17.437	2
8799	C6H13NO2	3-nitro-2-methylpentane	---	270.49	14.050	2	9048	C6H14O2	2,3-dimethyl-1,2-butanediol	66553-15-9	265.94	17.437	2
8800	C6H13NO2	3-nitro-3-methylpentane	---	302.91	13.719	2	9049	C6H14O2	2,3-dimethyl-1,3-butanediol	24893-35-4	265.94	17.437	2
8801	C6H13NO2	1-nitro-2,2-dimethylbutane	2625-29-8	302.91	13.719	2	9050	C6H14O2	DL-2,3 -dimethyl-1,4-butanediol	---	248.52	17.437	2
8802	C6H13NO2	1-nitro-2,3-dimethylbutane	66553-34-2	270.49	14.050	2	9051	C6H14O2	meso-2,3-dimethyl-1,4-butanediol	---	248.52	17.437	2
8803	C6H13NO2	1-nitro-3,3-dimethylbutane	---	302.91	13.719	2	9052	C6H14O2	2,3-dimethyl-2,3-butanediol	76-09-5	314.25	17.437	2
8804	C6H13NO2	2-nitro-2,3-dimethylbutane	34075-28-0	280.15	10.548	2	9053	C6H14O2	3,3-dimethyl-1,2-butanediol	59562-82-2	321.65	17.437	2
8805	C6H13NO2	2-nitro-3,3-dimethylbutane	599-02-0	313.15	10.548	2	9054	C6H14O2	2-propyl-1,3-propanediol	2612-28-4	263.52	17.437	2
8806	C6H13NO2	1-nitro-2-ethylbutane	---	285.49	17.221	2	9055	C6H14O2	2-isopropyl-1,3-propanediol	2612-27-3	248.52	17.437	2
8877	C6H14	hexane	110-54-3	177.84	13.079	1	9056	C6H14O2	2-methyl-2-ethyl-1,3-propanediol	77-84-9	313.45	17.437	2
8878	C6H14	2,2-dimethylbutane	75-83-2	174.28	0.579	1	9057	C6H14O2	1-(1-methylethoxy)-2-propanol	3944-36-3	208.52	19.605	2
8879	C6H14	2,3-dimethylbutane	79-29-8	145.19	0.790	1	9058	C6H14O2	2-(2-methylpropoxy)ethanol	4439-24-1	208.52	19.605	2
8880	C6H14	2-methylpentane	107-83-5	119.55	6.268	1	9059	C6H14O2	1-propoxy-2-propanol	1569-01-3	208.52	19.605	2
8881	C6H14	3-methylpentane	96-14-0	110.25	5.303	1	9060	C6H14O2	ethylene glycol diethyl ether	629-14-1	199.15	19.605	2
8970	C6H14O	1-hexanol	111-27-3	228.55	15.380	1	9061	C6H14O2	(2R,5R)-2,5-hexanediol	17299-07-9	323.15	17.437	2
8971	C6H14O	2-hexanol	626-93-7	223.00	11.861	2	9062	C6H14O2	(2S,5S)-2,5-hexanediol	34338-96-0	324.65	17.437	2
8972	C6H14O	3-hexanol	623-37-0	202.70	11.861	2	9063	C6H14O2	3-methoxy-3-methylbutanol	56539-66-3	223.25	19.605	2
8973	C6H14O	2-methyl-1-pentanol	105-30-6	202.70	11.861	2	9064	C6H14O2	(R)-(-)-2-methyl-2,4-pentanediol	99210-90-9	277.56	17.437	2
8974	C6H14O	3-methyl-1-pentanol	589-35-5	202.70	11.861	2	9067	C6H14O2	ethylene glycol mono-sec-butyl ether	7795-91-7	208.52	19.605	2
8975	C6H14O	4-methyl-1-pentanol	626-89-1	202.70	11.861	2	9068	C6H14O2	n-propoxypropanol (mixed isomers)	30136-13-1	208.52	19.605	2
8976	C6H14O	4-methyl-2-pentanol	108-11-2	183.15	8.338	2	9075	C6H14O3	diethylene glycol dimethyl ether	111-96-6	203.15	17.800	2
8977	C6H14O	2-methyl-2-pentanol	590-36-3	171.15	7.970	2	9076	C6H14O3	dipropylene glycol	25265-71-8	233.00	22.700	2
8978	C6H14O	3-methyl-2-pentanol	565-60-6	187.70	8.338	2	9077	C6H14O3	2-(2-ethoxyethoxy)ethanol	111-90-0	195.15	16.300	2
8979	C6H14O	2-methyl-3-pentanol	565-67-3	187.70	8.338	2	9078	C6H14O3	trimethylolpropane	77-99-6	331.15	21.450	2
8980	C6H14O	3-methyl-3-pentanol	77-74-7	249.55	7.970	2	9092	C6H14O4	triethylene glycol	112-27-6	265.79	31.200	2
8981	C6H14O	2-ethyl-1-butanol	97-95-0	158.75	8.220	2	9100	C6H14O6	sorbitol	50-70-4	370.85	30.200	1
8982	C6H14O	2,2-dimethyl-1-butanol	1185-33-7	220.12	7.970	2	9101	C6H14O6	galactitol	608-66-2	462.65	65.100	1
8983	C6H14O	2,3-dimethyl-1-butanol	19550-30-2	187.70	8.338	2	9102	C6H14O6	D-mannitol	69-65-8	441.15	56.100	1
8984	C6H14O	2,3-dimethyl-1-butanol, (±)-	20281-85-0	213.40	9.667	2	9107	C6H14S	hexyl mercaptan	111-31-9	192.62	18.012	1
8985	C6H14O	3,3-dimethyl-1-butanol	624-95-3	213.15	7.970	2	9108	C6H14S	2-hexanethiol	1679-06-7	126.15	14.178	2
8986	C6H14O	2,3-dimethyl-2-butanol	594-60-5	262.75	4.447	2	9109	C6H14S	2,3-dimethyl-2-butanethiol	1639-01-6	159.39	16.409	2
8987	C6H14O	3,3-dimethyl-2-butanol	464-07-3	278.45	4.447	2	9110	C6H14S	3-hexanethiol	1633-90-5	159.39	16.409	2
8988	C6H14O	3,3-dimethyl-2-butanol, (±)	20281-91-8	278.75	9.667	2	9111	C6H14S	2-methyl-2-pentanethiol	1633-97-2	159.39	16.409	2
8989	C6H14O	(RS)-2-hexanol	20281-86-1	213.40	9.667	2	9112	C6H14S	dipropyl sulfide	111-47-7	170.45	12.140	1
8990	C6H14O	2-hexanol, (R)	26549-24-6	213.40	9.667	2	9113	C6H14S	diisopropyl sulfide	625-80-9	170.45	10.420	1
8991	C6H14O	3-hexanol, (R)	13471-42-6	213.40	9.667	2	9114	C6H14S	methyl pentyl sulfide	1741-83-9	179.16	15.426	2
8992	C6H14O	3-methyl-1-pentanol, (±)	20281-83-8	213.40	9.667	2	9115	C6H14S	ethyl butyl sulfide	638-46-0	178.03	12.390	1
8993	C6H14O	dipropyl ether	111-43-3	158.36	10.770	1	9116	C6H14S	3-methyl-2-thiahexane	13286-91-4	176.28	11.903	2
8994	C6H14O	propyl isopropyl ether	627-08-7	164.11	8.961	2	9117	C6H14S	4-methyl-2-thiahexane	15013-37-3	176.28	11.903	2
8995	C6H14O	diisopropyl ether	108-20-3	187.65	12.035	1	9118	C6H14S	5-methyl-2-thiahexane	13286-90-3	176.28	11.903	2
8996	C6H14O	methyl pentyl ether	628-80-8	179.11	12.484	2	9119	C6H14S	2-methyl-3-thiahexane	5008-73-1	176.28	11.903	2
8997	C6H14O	methyl 1-methylbutyl ether	6795-88-6	164.11	8.961	2	9120	C6H14S	4-methyl-3-thiahexane	5008-72-0	176.28	11.903	2
8998	C6H14O	methyl 2-methylbutyl ether	62016-48-2	164.11	8.961	2	9121	C6H14S	5-methyl-3-thiahexane	1613-45-2	176.28	11.903	2
8999	C6H14O	methyl 3-methylbutyl ether	626-91-5	164.11	8.961	2	9122	C6H14S	3-ethyl-2-thiapentane	57093-84-2	176.28	11.903	2
9000	C6H14O	methyl 1-ethylpropyl ether	36839-67-5	164.11	8.961	2	9123	C6H14S	3,3-dimethyl-2-thiapentane	13286-92-5	193.70	8.012	2
9001	C6H14O	methyl 1,2-dimethylpropyl ether	62016-49-3	149.11	5.438	2	9124	C6H14S	3,4-dimethyl-2-thiapentane	53897-51-1	161.28	8.380	2
9002	C6H14O	methyl tert-pentyl ether	994-05-8	149.11	9.531	2	9125	C6H14S	4,4-dimethyl-2-thiapentane	6079-57-8	193.70	8.012	2
9003	C6H14O	methyl 2,2-dimethylpropyl ether	1118-00-9	181.53	5.070	2	9126	C6H14S	2,2-dimethyl-3-thiapentane	14290-92-7	184.20	7.072	1
9004	C6H14O	ethyl butyl ether	628-81-9	170.15	12.500	2	9129	C6H14S2	diisopropyl disulfide	4253-89-8	204.15	14.416	2
9005	C6H14O	ethyl isobutyl ether	627-02-1	164.11	8.961	2	9130	C6H14S2	dipropyl disulfide	629-19-6	187.68	13.810	1
9006	C6H14O	ethyl sec-butyl ether	2679-87-0	164.11	8.961	2	9135	C6H15Al	triethyl aluminum	97-93-8	220.65	10.600	1
9007	C6H14O	ethyl tert-butyl ether	637-92-3	179.15	5.070	2	9140	C6H15As	triethylarsine	617-75-4	181.80	11.058	1
9008	C6H14O	(S)-(+)-2-hexanol	52019-78-0	213.40	9.667	2	9145	C6H15B	triethylborane	97-94-9	180.15	11.853	1

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
9148	C6H15Bi	triethylbismuth	617-77-6	145.80	8.695	1	9970	C7H5Cl3	1,2,3-trichloro-4-methylbenzene	7359-72-0	316.65	16.049	2
9171	C6H15Ga	triethylgallium	1115-99-7	190.95	11.644	1	9971	C7H5Cl3	1,2,3-trichloro-5-methylbenzene	21472-86-6	318.65	16.049	2
9172	C6H15In	triethyl indium	923-34-2	241.25	13.012	1	9972	C7H5Cl3	1,2,4-trichloro-5-methylbenzene	6639-30-1	355.55	16.049	2
9173	C6H15N	hexylamine	111-26-2	251.85	21.200	2	9973	C7H5Cl3	1,2,5-trichloro-3-methylbenzene	56961-86-5	318.65	16.049	2
9174	C6H15N	2-aminohexane	5329-79-3	254.15	15.564	2	9974	C7H5Cl3	3-chlorobenzal chloride	15145-69-4	308.79	16.049	2
9175	C6H15N	3-aminohexane	16751-58-9	232.45	13.562	2	9975	C7H5Cl3	2,6-dichlorobenzyl chloride	2014-83-7	310.65	16.049	2
9176	C6H15N	1-amino-2-methylpentane	13364-16-4	232.45	13.562	2	9976	C7H5Cl3	dichlorobenzyl chloride	38721-71-0	308.79	16.049	2
9177	C6H15N	1-amino-3-methylpentane	42245-37-4	232.45	13.562	2	9977	C7H5Cl3	2,4-dichlorobenzyl chloride	94-99-5	270.80	16.049	2
9178	C6H15N	1-amino-4-methylpentane	5344-20-7	178.75	15.564	2	9978	C7H5Cl3	2,3,6-trichlorotoluene	2077-46-5	308.79	16.049	2
9179	C6H15N	2-amino-2-methylpentane	53310-02-4	232.45	13.562	2	9979	C7H5Cl3	a-a-p-trichlorotoluene	13940-94-8	308.79	16.049	2
9180	C6H15N	2-amino-3-methylpentane	35399-81-6	232.45	13.562	2	10003	C7H5F3	benzotrifluoride	98-08-8	244.14	13.782	2
9181	C6H15N	2-amino-4-methylpentane	108-09-8	232.45	13.562	2	10033	C7H5IO2	p-iodobenzoic acid	619-58-9	543.15	33.940	1
9182	C6H15N	3-amino-2-methylpentane	54287-41-1	232.45	13.562	2	10045	C7H5N	benzonitrile	100-47-0	260.40	10.980	2
9183	C6H15N	3-amino-3-methylpentane	3495-46-3	232.45	13.562	2	10052	C7H5NO	benzoxazole	273-53-0	304.15	16.784	1
9184	C6H15N	1-amino-2,2-dimethylbutane	41781-17-3	232.45	13.562	2	10071	C7H5NO4	o-nitrobenzoic acid	552-16-9	420.65	27.990	1
9185	C6H15N	1-amino-2,3-dimethylbutane	66553-05-7	232.45	13.562	2	10072	C7H5NO4	m-nitrobenzoic acid	121-92-6	414.15	19.330	1
9186	C6H15N	1-amino-3,3-dimethylbutane	15673-00-4	232.45	13.562	2	10073	C7H5NO4	p-nitrobenzoic acid	62-23-7	515.15	36.900	1
9187	C6H15N	2-amino-2,3-dimethylbutane	4358-75-2	202.65	6.667	2	10094	C7H5NS	benzothiazole	95-16-9	274.15	12.591	1
9188	C6H15N	2-amino-3,3-dimethyl butane	3850-30-4	253.15	6.667	2	10118	C7H5N3O6	2,4,6-trinitrotoluene	118-96-7	354.00	23.430	1
9189	C6H15N	1-amino-2-ethylbutane	617-79-8	232.45	13.562	2	10120	C7H5N3O6	1-methyl-2,4,5-trinitrobenzene	610-25-3	377.15	24.700	1
9190	C6H15N	2-hexanamine, (±)	68107-05-1	254.15	13.562	2	10363	C7H6N2O4	2,4-dinitrotoluene	121-14-2	343.00	20.900	1
9191	C6H15N	methylpentylamine	25419-06-1	191.50	14.223	2	10365	C7H6N2O4	2,6-dinitrotoluene	606-20-2	339.00	16.070	1
9192	C6H15N	methyl-1-methylbutylamine	51932-19-5	191.50	14.223	2	10366	C7H6N2O4	3,4-dinitrotoluene	610-39-9	332.00	18.830	1
9193	C6H15N	methyl-2-methylbutylamine	90023-96-4	191.50	14.223	2	10404	C7H6O	benzaldehyde	100-52-7	247.15	9.320	1
9194	C6H15N	methyl-3-methylbutylamine	52317-98-3	191.50	14.223	2	10408	C7H6O2	benzoic acid	65-85-0	395.52	18.062	1
9195	C6H15N	methyl-1,1-dimethylpropylamine	---	191.50	14.223	2	10409	C7H6O2	p-hydroxybenzaldehyde	123-08-0	390.15	24.000	2
9196	C6H15N	methyl-1,2-dimethylpropylamine	34317-39-0	191.50	14.223	2	10420	C7H6O3	salicylic acid	69-72-7	431.75	24.600	1
9197	C6H15N	methyl-2,2-dimethylpropylamine	26153-91-3	191.50	14.223	2	10426	C7H6O3	m-hydroxybenzoic acid	99-06-9	475.65	26.200	1
9198	C6H15N	ethylbutylamine	13360-63-9	191.50	14.223	2	10462	C7H7Br	p-bromotoluene	106-38-7	299.95	15.130	2
9199	C6H15N	ethyl-sec-butylamine	21035-44-9	191.50	14.223	2	10463	C7H7Br	(bromomethyl)benzene	100-39-0	271.65	13.245	2
9200	C6H15N	ethylisobutylamine	13205-60-2	191.50	14.223	2	10464	C7H7Br	o-bromotoluene	95-46-5	245.35	13.245	2
9201	C6H15N	ethyl-tert-butylamine	4432-77-3	210.15	14.500	2	10465	C7H7Br	m-bromotoluene	591-17-3	233.35	13.245	2
9202	C6H15N	di-propylamine	142-84-7	210.15	14.500	2	10492	C7H7Cl	benzyl chloride	100-44-7	234.15	10.214	2
9203	C6H15N	diisopropylamine	108-18-9	176.85	15.000	2	10493	C7H7Cl	o-chlorotoluene	95-49-8	236.65	8.370	2
9204	C6H15N	propylisopropylamine	21968-17-2	191.50	14.223	2	10494	C7H7Cl	p-chlorotoluene	106-43-4	280.65	13.550	2
9205	C6H15N	N-ethyl-2-butanamine, (±)	116724-10-8	168.85	14.223	2	10495	C7H7Cl	m-chlorotoluene	108-41-8	225.35	10.214	2
9206	C6H15N	methylethylpropylamine	4458-32-6	164.23	13.022	2	10555	C7H7F	p-fluorotoluene	352-32-9	216.36	8.800	1
9207	C6H15N	methylethylisopropylamine	39198-07-7	166.07	12.360	2	10556	C7H7F	(fluoromethyl)benzene	350-50-5	238.15	9.347	2
9208	C6H15N	dimethylbutylamine	927-62-8	166.07	12.360	2	10557	C7H7F	o-fluorotoluene	95-52-3	211.15	9.800	1
9209	C6H15N	dimethyl-sec-butylamine	921-04-0	166.07	12.360	2	10558	C7H7F	m-fluorotoluene	352-70-5	186.15	8.300	1
9210	C6H15N	dimethylisobutylamine	7239-24-9	158.45	14.317	2	10611	C7H7NO	formanilide	103-70-8	323.15	15.600	2
9211	C6H15N	dimethyl-tert-butylamine	918-02-5	183.15	6.903	2	10614	C7H7NO	benzamide	55-21-0	400.45	23.760	1
9212	C6H15N	triethylamine	121-44-8	158.45	14.317	2	10626	C7H7NO2	m-nitrotoluene	99-08-1	289.20	19.200	1
9213	C6H15NO	6-aminohexanol	4048-33-3	331.00	34.900	2	10627	C7H7NO2	o-nitrotoluene	88-72-2	269.98	11.476	1
9214	C6H15NO	2-amino-4-methyl-1-pentanol, (±)	16369-17-8	317.15	33.146	2	10628	C7H7NO2	p-nitrotoluene	99-99-0	324.75	16.811	1
9215	C6H15NO	2-(butylamino)ethanol	111-75-1	314.36	33.146	2	10629	C7H7NO2	aniline-2-carboxylic acid	118-92-3	419.65	20.380	1
9216	C6H15NO	2-[tert-butylamino]ethanol	4620-70-6	317.15	33.146	2	10630	C7H7NO2	aniline-3-carboxylic acid	99-05-8	446.15	21.840	1
9217	C6H15NO	2-diethylaminoethanol	100-37-8	314.36	33.146	2	10631	C7H7NO2	aniline-4-carboxylic acid	150-13-0	461.65	20.920	1
9220	C6H15NO	2-(isobutylamino)ethanol	17091-40-6	314.36	33.146	2	10724	C7H8	1,3,5-cycloheptatriene	544-25-2	193.66	1.161	1
9221	C6H15NO	DL-2-amino-1-hexanol	5665-74-7	314.36	33.146	2	10725	C7H8	toluene	108-88-3	178.18	6.620	1
9222	C6H15NO	2-dimethylamino-2-methyl-1-propanol	7005-47-2	292.15	33.146	2	10731	C7H8	quadricyclane	278-06-8	228.00	1.094	1
9228	C6H15NO	4-amino-4-methyl-2-pentanol	4404-98-2	314.36	33.146	2	10794	C7H8N2O	phenylurea	64-10-8	420.15	23.680	1
9230	C6H15NO2	diisopropanolamine	110-97-4	318.15	18.700	2	10850	C7H8O	anisole	100-66-3	268.73	12.890	1
9239	C6H15NO3	triethanolamine	102-71-6	294.35	27.191	2	10851	C7H8O	benzyl alcohol	100-51-6	257.85	8.790	1
9276	C6H15Sb	triethylstibine	617-85-6	153.90	9.452	1	10852	C7H8O	m-cresol	108-39-4	285.39	10.707	1
9292	C6H16N2	hexamethylenediamine	124-09-4	313.95	40.376	1	10853	C7H8O	o-cresol	95-48-7	304.19	11.800	1
9293	C6H16N2	N,N-diethyl-1,2-ethanediamine	100-36-7	266.05	34.216	2	10854	C7H8O	p-cresol	106-44-5	307.93	12.720	1
9294	C6H16N2	N,N'-diethyl-1,2-ethanediamine	111-74-0	266.05	34.216	2	10855	C7H8O	cresol mixture	1319-77-3	296.35	11.701	2
9295	C6H16N2	N,N,N',N'-tetramethyl-1,2-ethanediamine	110-18-9	218.15	34.216	2	10866	C7H8O2	guaiacol	90-05-1	304.65	12.500	2
9297	C6H16N2	N-butylethylenediamine	19522-69-1	266.05	34.216	2	10867	C7H8O2	p-methoxyphenol	150-76-5	329.00	18.300	2
9298	C6H16N2	1,5-diamino-2-methylpentane	15520-10-2	266.05	34.216	2	10918	C7H8S	o-methylthiophenol	137-06-4	288.15	13.896	2
9299	C6H16N2	N-isopropyl-1,3-propanediamine	3360-16-5	266.05	34.216	2	10919	C7H8S	m-methylthiophenol	108-40-7	253.15	13.896	2
9300	C6H16N2	N-propyl-1,3-propanediamine	23764-31-0	266.05	34.216	2	10920	C7H8S	p-methylthiophenol	106-45-6	317.15	13.896	2
9301	C6H16N2	N,N,N'-trimethyl-1,3-propanediamine	4543-96-8	266.05	34.216	2	10921	C7H8S	methyl phenyl sulfide	100-68-5	116.90	14.836	1
9302	C6H16N2	2-methyl-2,4-pentanediamine	21586-21-0	266.05	34.216	2	10922	C7H8S	benzenemethanethiol	100-53-8	243.15	13.488	2
9343	C6H18BN	borane–triethylamine complex	1722-26-5	269.48	14.906	1	10953	C7H9N	benzylamine	100-46-9	227.15	13.400	1
9356	C6H18N3OP	hexamethyl phosphoramide	680-31-9	280.15	16.945	1	10954	C7H9N	N-methylaniline	100-61-8	216.15	9.520	1
9359	C6H18N4	triethylene tetramine	112-24-3	285.15	33.400	2	10955	C7H9N	m-toluidine	108-44-1	242.75	8.800	1
9362	C6H18OSi2	hexamethyldisiloxane	107-46-0	204.93	11.920	1	10956	C7H9N	o-toluidine	95-53-4	249.47	11.660	1
9366	C6H18O3Si3	hexamethylcyclotrisiloxane	541-05-9	337.15	16.611	1	10957	C7H9N	p-toluidine	106-49-0	316.90	17.300	1
9374	C6H18Si2	hexamethyldisilane	1450-14-2	286.65	3.017	1	10958	C7H9N	2,3-dimethylpyridine	583-61-9	257.95	13.480	1
9419	C7F8	perfluorotoluene	434-64-0	207.66	11.581	1	10959	C7H9N	2,4-dimethylpyridine	108-47-4	209.25	8.820	1
9424	C7F16	perfluoroheptane	335-57-9	221.95	6.947	1	10960	C7H9N	2,5-dimethylpyridine	589-93-5	257.65	14.645	1
9586	C7H3F5	2,3,4,5,6-pentafluorotoluene	771-56-2	243.37	13.280	1	10961	C7H9N	2,6-dimethylpyridine	108-48-5	267.00	13.040	1
9932	C7H5ClO2	o-chlorobenzoic acid	118-91-2	415.15	26.290	1	10962	C7H9N	3,4-dimethylpyridine	583-58-4	262.15	14.704	1
9933	C7H5ClO2	m-chlorobenzoic acid	535-80-8	431.15	22.000	1	10963	C7H9N	3,5-dimethylpyridine	591-22-0	266.65	13.110	1
9934	C7H5ClO2	p-chlorobenzoic acid	74-11-3	516.15	34.260	1	10964	C7H9N	2-ethylpyridine	100-71-0	210.05	13.065	2
9967	C7H5Cl3	benzotrichloride	98-07-7	268.40	13.950	2	10965	C7H9N	3-ethylpyridine	536-78-7	196.25	13.065	2
9968	C7H5Cl3	1,2-dichloro-4-(chloromethyl)benzene	102-47-6	310.65	16.049	2	10966	C7H9N	4-ethylpyridine	536-75-4	182.65	13.065	2
9969	C7H5Cl3	1,3-dichloro-5-(chloromethyl)benzene	3290-06-0	309.15	16.049	2	11047	C7H10	2-norbornene	498-66-8	319.40	3.480	1

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
11079	C7H10N2	m-toluenediamine	95-80-7	371.25	19.874	2	11622	C7H13N	heptanenitrile	629-08-3	210.55	15.392	2
11225	C7H10S	2-propylthiophene	1551-27-5	252.35	12.462	2	11623	C7H13N	1-azabicyclo[2.2.2]octane	100-76-5	431.15	5.860	1
11226	C7H10S	3-propylthiophene	1518-75-8	252.35	12.462	2	11635	C7H13NO	1-aza-2-cyclooctanone	673-66-5	309.15	13.376	1
11227	C7H10S	2-isopropylthiophene	4095-22-1	252.35	12.462	2	11696	C7H14	ethylcyclopentane	1640-89-7	134.71	6.870	1
11228	C7H10S	3-isopropylthiophene	29488-27-5	237.35	8.939	2	11697	C7H14	1,1-dimethylcyclopentane	1638-26-2	203.36	1.079	1
11229	C7H10S	2-methyl-3-ethylthiophene	53119-51-0	235.98	12.073	2	11698	C7H14	1,2-dimethylcyclopentane	2452-99-5	154.10	6.410	1
11230	C7H10S	2-methyl-4-ethyl thiophene	13678-54-1	214.15	12.073	2	11699	C7H14	cis-1,2-dimethylcyclopentane	1192-18-3	219.26	1.660	1
11231	C7H10S	2-methyl-5-ethyl thiophene	40323-88-4	204.65	12.073	2	11700	C7H14	trans-1,2-dimethylcyclopentane	822-50-4	155.58	7.398	1
11232	C7H10S	3-methyl-2-ethylthiophene	31805-48-8	235.98	12.073	2	11701	C7H14	1,3-dimethylcyclopentane	2453-00-1	134.60	5.926	2
11233	C7H10S	3-methyl-4-ethyl thiophene	---	235.98	12.073	2	11702	C7H14	cis-1,3-dimethylcyclopentane	2532-58-3	139.45	7.397	1
11234	C7H10S	3-methyl-5-ethylthiophene	---	235.98	12.073	2	11703	C7H14	trans-1,3-dimethylcyclopentane	1759-58-6	139.18	7.400	1
11235	C7H10S	2,3,4-trimethylthiophene	1795-04-6	246.95	11.684	2	11704	C7H14	methylcyclohexane	108-87-2	146.58	6.750	1
11236	C7H10S	2,3,5-trimethylthiophene	1795-05-7	219.61	11.684	2	11705	C7H14	cycloheptane	291-64-5	265.15	1.880	1
11272	C7H11N	cyclohexanecarbonitrile	766-05-2	285.10	3.635	1	11706	C7H14	1-heptene	592-76-7	154.27	12.401	1
11273	C7H11N	cyclohexyl isocyanide	931-53-3	279.60	4.227	1	11707	C7H14	2-heptene	592-77-8	148.16	9.139	2
11323	C7H12	1-ethylcyclopentene	2146-38-5	154.75	9.043	2	11708	C7H14	cis-2-heptene	6443-92-1	164.00	14.088	2
11324	C7H12	3-ethylcyclopentene	694-35-9	144.24	9.043	2	11709	C7H14	trans-2-heptene	14686-13-6	163.67	12.000	1
11325	C7H12	4-ethylcyclopentene	3742-38-9	144.24	9.043	2	11710	C7H14	3-heptene	592-78-9	148.16	9.139	2
11326	C7H12	1,2-dimethylcyclopentene	765-47-9	182.75	10.114	2	11711	C7H14	3-heptene (mixed isomers)	25339-56-4	148.16	9.139	2
11327	C7H12	1,3-dimethylcyclopentene	62184-82-1	127.87	10.114	2	11712	C7H14	cis-3-heptene	7642-10-6	136.51	14.088	2
11328	C7H12	1,4-dimethylcyclopentene	19550-48-2	127.87	10.114	2	11713	C7H14	trans-3-heptene	14686-14-7	136.52	10.500	1
11329	C7H12	1,5-dimethylcyclopentene	16491-15-9	155.15	10.114	2	11714	C7H14	2-methyl-1-hexene	6094-02-6	170.28	13.000	1
11330	C7H12	3,3-dimethylcyclopentene	58049-91-5	127.87	2.745	2	11715	C7H14	3-methyl-1-hexene	3404-61-3	145.00	9.083	2
11331	C7H12	3,cis-4-dimethylcyclopentene	56039-55-5	127.87	10.114	2	11716	C7H14	4-methyl-1-hexene	3769-23-1	131.70	7.500	1
11332	C7H12	3,trans-4-dimethylcyclopentene	53225-40-4	127.87	10.114	2	11717	C7H14	5-methyl-1-hexene	3524-73-0	151.39	9.083	2
11333	C7H12	3,cis-5-dimethylcyclopentene	30213-29-7	127.87	10.114	2	11718	C7H14	2-methyl-2-hexene	2738-19-4	142.80	9.206	1
11334	C7H12	3,trans-5-dimethylcyclopentene	61394-27-2	127.87	10.114	2	11719	C7H14	3-methyl-cis-2-hexene	10574-36-4	154.65	11.277	1
11335	C7H12	4,4-dimethylcyclopentene	19037-72-0	127.87	2.745	2	11720	C7H14	3-methyl-trans-2-hexene	20710-38-7	143.85	12.778	2
11336	C7H12	1-methylcyclohexene	591-49-1	153.75	6.943	2	11721	C7H14	4-methyl-cis-2-hexene	3683-19-0	148.07	10.565	2
11337	C7H12	3-methylcyclohexene	591-48-0	149.64	6.943	2	11722	C7H14	4-methyl-trans-2-hexene	3683-22-5	147.46	7.114	1
11338	C7H12	4-methylcyclohexene	591-47-9	157.74	6.630	1	11723	C7H14	5-methyl-cis-2-hexene	13151-17-2	148.07	10.565	2
11339	C7H12	3-methylcyclohexene, (±)	56688-75-6	157.65	6.888	2	11724	C7H14	5-methyl-trans-2-hexene	7385-82-2	148.81	6.277	1
11340	C7H12	1-heptyne	628-71-7	192.26	16.860	2	11725	C7H14	2-methyl-cis-3-hexene	15840-60-5	148.07	10.565	2
11341	C7H12	2-heptyne	1119-65-9	274.25	17.006	2	11726	C7H14	2-methyl-trans-3-hexene	692-24-0	131.59	5.440	1
11342	C7H12	3-heptyne	2586-89-2	142.65	17.006	2	11727	C7H14	3-methyl-cis-3-hexene	4914-89-0	149.11	12.778	2
11343	C7H12	3-methyl-1-hexyne	40276-93-5	200.12	13.337	2	11728	C7H14	3-methyl-trans-3-hexene	3899-36-3	149.11	12.778	2
11344	C7H12	4-methyl-1-hexyne	52713-81-2	200.12	13.337	2	11729	C7H14	2-ethyl-1-pentene	3404-71-5	168.00	11.296	2
11345	C7H12	5-methyl-1-hexyne	2203-80-7	149.15	13.337	2	11730	C7H14	3-ethyl-1-pentene	4038-04-4	145.67	5.020	1
11346	C7H12	4-methyl-2-hexyne	20198-49-6	165.55	13.483	2	11731	C7H14	2,3-dimethyl-1-pentene	3404-72-6	138.85	7.114	1
11347	C7H12	5-methyl-2-hexyne	53566-37-3	180.25	13.483	2	11732	C7H14	2,4-dimethyl-1-pentene	2213-32-3	149.09	8.787	1
11348	C7H12	2-methyl-3-hexyne	36566-80-0	156.55	13.483	2	11733	C7H14	3,3-dimethyl-1-pentene	3404-73-7	138.77	7.532	1
11349	C7H12	3-ethyl-1-pentyne	21020-26-8	200.12	13.337	2	11734	C7H14	3,4-dimethyl-1-pentene	7385-78-6	136.39	5.560	2
11350	C7H12	3,3-dimethyl-1-pentyne	918-82-1	217.54	9.446	2	11735	C7H14	4,4-dimethyl-1-pentene	762-62-9	136.55	6.277	1
11351	C7H12	3,4-dimethyl-1-pentyne	61064-08-2	185.12	9.814	2	11736	C7H14	3-ethyl-2-pentene	816-79-5	149.11	12.778	2
11352	C7H12	4,4-dimethyl-1-pentyne	13361-63-2	198.15	9.446	2	11737	C7H14	2,3-dimethyl-2-pentene	10574-37-5	154.88	8.787	1
11353	C7H12	4,4-dimethyl-2-pentyne	999-78-0	190.75	9.592	2	11738	C7H14	2,4-dimethyl-2-pentene	625-65-0	145.45	6.695	1
11356	C7H12	cycloheptene	628-92-2	217.15	0.970	1	11739	C7H14	3,4-dimethyl-cis-2-pentene	4914-91-4	159.76	8.787	1
11450	C7H12O2	butyl acrylate	141-32-2	208.55	17.310	1	11740	C7H14	3,4-dimethyl-trans-2-pentene	4914-92-5	148.92	8.787	1
11451	C7H12O2	isobutyl acrylate	106-63-8	212.00	13.452	2	11741	C7H14	4,4-dimethyl-cis-2-pentene	762-63-0	137.69	5.858	1
11452	C7H12O2	propyl methacrylate	2210-28-8	212.00	13.452	2	11742	C7H14	4,4-dimethyl-trans-2-pentene	690-08-4	157.92	6.695	1
11453	C7H12O2	isopropyl methacrylate	4655-34-9	210.85	14.753	2	11743	C7H14	3-methyl-2-ethyl-1-butene	7357-93-9	137.43	7.773	2
11454	C7H12O2	allyl butanoate	2051-78-7	210.85	14.753	2	11744	C7H14	2,3,3-trimethyl-1-butene	594-56-9	163.30	0.790	1
11480	C7H12O2	ethyl 3-methyl-2-butenoate	638-10-8	210.85	14.753	2	11745	C7H14	3,4-dimethylpent-2-ene	24910-63-2	149.05	9.139	2
11481	C7H12O2	ethyl trans-2-methyl-2-butenoate	5837-78-5	210.85	14.753	2	11751	C7H14Br2	1,1-dibromoheptane	59104-79-9	272.75	20.933	2
11483	C7H12O2	methyl 3-hexenoate	2396-78-3	210.85	14.753	2	11752	C7H14Br2	1,2-dibromoheptane	42474-21-5	293.80	22.549	2
11484	C7H12O2	methyl 2-methyl-2-pentenoate	10478-12-3	210.85	14.753	2	11753	C7H14Br2	1,5-dibromoheptane	1622-10-2	293.80	22.549	2
11485	C7H12O2	methyl 3-methyl-3-pentenoate	2258-58-4	210.85	14.753	2	11754	C7H14Br2	1,7-dibromoheptane	4549-31-9	314.85	22.549	2
11486	C7H12O2	methyl cis-3-methyl-2-pentenoate	17447-00-6	210.85	14.753	2	11755	C7H14Br2	2,3-dibromoheptane	21266-88-6	293.80	22.549	2
11487	C7H12O2	methyl trans-3-methyl-2-pentenoate	17447-01-7	210.85	14.753	2	11756	C7H14Br2	3,4-dibromoheptane	21266-90-0	293.80	22.549	2
11488	C7H12O2	tert-butyl acrylate	1663-39-4	210.85	14.753	2	11763	C7H14Cl2	1,1-dichloroheptane	821-25-0	212.99	18.757	2
11491	C7H12O2	methyl trans-2-methyl-2-pentenoate	1567-14-2	210.85	14.753	2	11764	C7H14Cl2	1,2-dichloro-4,4-dimethylpentane	6065-90-3	254.82	22.441	2
11492	C7H12O2	4-pentenyl acetate	1576-85-8	210.85	14.753	2	11765	C7H14Cl2	1,5-dichloro-3,3-dimethylpentane	62496-53-1	254.82	22.441	2
11497	C7H12O2	3,3-dimethylallyl acetate	1191-16-8	210.85	14.753	2	11766	C7H14Cl2	2,4-dichloro-2,4-dimethylpentane	33553-93-4	296.65	22.441	2
11500	C7H12O2	cis-3-hexenyl formate	33467-73-1	210.85	14.753	2	11767	C7H14Cl2	1,2-dichloroheptane	10575-87-8	254.82	22.441	2
11537	C7H12O4	heptanedioic acid	111-16-0	379.15	27.623	1	11768	C7H14Cl2	1,7-dichloroheptane	821-76-1	254.82	22.441	2
11569	C7H13Br	cis-1-bromo-1-heptene	39924-57-7	175.15	19.373	2	11769	C7H14Cl2	2,2-dichloroheptane	65786-09-6	254.82	22.441	2
11570	C7H13Br	trans-1-bromo-1-heptene	53434-74-5	175.15	19.373	2	11770	C7H14Cl2	4,4-dichloroheptane	89796-76-9	254.82	22.441	2
11586	C7H13Br3	1,1,1-tribromoheptane	62127-64-4	349.97	22.327	2	11772	C7H14F2	1,1-difluoroheptane	407-96-5	191.15	16.523	2
11587	C7H13Cl	cis-1-chloro-1-heptene	53268-66-9	192.99	18.285	2	11774	C7H14I2	1,1-diiodoheptane	66675-46-5	269.27	19.175	2
11588	C7H13Cl	trans-1-chloro-1-heptene	53268-67-0	192.99	18.285	2	11827	C7H14O	1-heptanal	111-71-7	230.15	22.890	1
11589	C7H13Cl	1-chloro-1-heptene	2384-75-0	192.99	18.285	2	11828	C7H14O	3-methylhexanal	19269-28-4	230.15	22.890	2
11590	C7H13Cl	2-chloro-1-heptene	65786-11-0	192.99	18.285	2	11829	C7H14O	2-heptanone	110-43-0	238.15	19.710	1
11591	C7H13Cl	4-chloro-3-heptene	2431-24-5	192.99	18.285	2	11830	C7H14O	3-heptanone	106-35-4	234.15	17.530	1
11612	C7H13Cl3	1,1,1-trichloroheptane	3922-26-7	260.33	19.063	2	11831	C7H14O	4-heptanone	123-19-3	240.65	16.160	1
11613	C7H13F	cis-1-fluoro-1-heptene	28028-91-3	195.22	17.168	2	11832	C7H14O	3-methyl-2-hexanone	2550-21-2	203.08	14.354	2
11614	C7H13F	trans-1-fluoro-1-heptene	28028-92-4	195.22	17.168	2	11833	C7H14O	4-methyl-2-hexanone	105-42-0	203.08	14.354	2
11618	C7H13F3	1,1,1-trifluoroheptane	693-09-4	267.02	15.712	2	11834	C7H14O	5-methyl-2-hexanone	110-12-3	199.25	14.354	2
11619	C7H13I	cis-1-iodo-1-heptene	63318-29-6	221.13	18.494	2	11835	C7H14O	2-methyl-3-hexanone	7379-12-6	203.08	14.354	2
11620	C7H13I	trans-1-iodo-1-heptene	60595-37-1	221.13	18.494	2	11836	C7H14O	4-methyl-3-hexanone	17042-16-9	203.08	14.354	2
11621	C7H13I3	1,1,1-triiodoheptane	---	344.75	19.690	2	11837	C7H14O	5-methyl-3-hexanone	623-56-3	203.08	14.354	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
11838	C7H14O	3-ethyl-2-pentanone	6137-03-7	203.08	14.354	2	12028	C7H15N	cis-3-methylcyclohexylamine	1193-16-4	264.65	11.600	2
11839	C7H14O	3,3-dimethyl-2-pentanone	20669-04-9	220.50	9.685	2	12029	C7H15N	trans-3-methylcyclohexylamine	1193-17-5	264.65	11.600	2
11840	C7H14O	3,4-dimethyl-2-pentanone	565-78-6	188.08	10.127	2	12030	C7H15N	cis-4-methylcyclohexylamine	2523-56-0	264.65	11.600	2
11841	C7H14O	4,4-dimethyl-2-pentanone	590-50-1	209.15	9.685	2	12031	C7H15N	trans-4-methylcyclohexylamine	2523-55-9	264.65	11.600	2
11842	C7H14O	2,2-dimethyl-3-pentanone	564-04-5	228.15	9.685	2	12049	C7H15N	3-methylcyclohexylamine	6850-35-7	264.65	11.600	2
11843	C7H14O	2,4-dimethyl-3-pentanone	565-80-0	204.81	11.180	1	12050	C7H15N	2-methylcyclohexylamine; (cis+trans)	7003-32-9	264.65	11.600	2
11844	C7H14O	1-methylcyclohexanol	590-67-0	299.15	10.870	1	12051	C7H15N	4-methylcyclohexylamine	6321-23-9	264.65	11.600	2
11845	C7H14O	cis-2-methylcyclohexanol	7443-70-1	280.15	9.640	2	12075	C7H15NO2	1-nitroheptane	693-39-0	311.76	22.722	2
11846	C7H14O	trans-2-methylcyclohexanol	7443-52-9	269.15	12.500	2	12112	C7H16	heptane	142-82-5	182.57	14.053	1
11847	C7H14O	cis-3-methylcyclohexanol	5454-79-5	267.65	12.000	2	12113	C7H16	2-methylhexane	591-76-4	154.90	9.184	1
11848	C7H14O	trans-3-methylcyclohexanol	7443-55-2	272.65	12.000	2	12114	C7H16	3-methylhexane	589-34-4	153.75	9.460	2
11849	C7H14O	cis-4-methylcyclohexanol	7731-28-4	272.65	10.880	2	12115	C7H16	3-ethylpentane	617-78-7	154.55	9.550	1
11850	C7H14O	trans-4-methylcyclohexanol	7731-29-5	272.65	10.880	2	12116	C7H16	2,2-dimethylpentane	590-35-2	149.34	5.820	1
11851	C7H14O	trans-2-methylcyclohexanol, (±)	615-39-4	271.15	10.716	2	12117	C7H16	2,3-dimethylpentane	565-59-3	138.15	6.840	2
11877	C7H14O	methylcyclohexanol	25639-42-3	223.25	10.716	2	12118	C7H16	2,4-dimethylpentane	108-08-7	153.91	6.850	1
11878	C7H14O	2-methylcyclohexanol; (cis+trans)	583-59-5	298.15	10.716	2	12119	C7H16	3,3-dimethylpentane	562-49-2	138.70	6.850	1
11879	C7H14O	4-methylcyclohexanol; (cis+trans)	589-91-3	223.25	10.716	2	12120	C7H16	2,2,3-trimethylbutane	464-06-2	248.57	2.201	1
11880	C7H14O	3-methylcyclohexanol; (cis+trans)	591-23-1	199.25	10.716	2	12121	C7H16	3-methylhexane, (S)-	6131-24-4	154.15	8.158	2
11884	C7H14O2	heptanoic acid	111-14-8	265.83	15.130	1	12164	C7H16O	1-heptanol	111-70-6	239.15	18.175	1
11885	C7H14O2	2-ethyl-2-methylbutanoic acid	19889-37-3	229.49	13.062	2	12165	C7H16O	2-heptanol	543-49-7	243.00	14.451	2
11886	C7H14O2	2-ethylpentanoic acid, (±)	116908-83-9	229.49	13.062	2	12166	C7H16O	3-heptanol	589-82-2	203.15	14.451	2
11887	C7H14O2	2-methylhexanoic acid, (±)	22160-12-9	229.49	13.062	2	12167	C7H16O	4-heptanol	589-55-9	231.15	14.451	2
11888	C7H14O2	3-methylhexanoic acid	3780-58-3	229.49	13.062	2	12168	C7H16O	2-methyl-1-hexanol	624-22-6	213.97	14.451	2
11889	C7H14O2	4-methylhexanoic acid, (±)	22160-41-4	193.15	13.062	2	12169	C7H16O	3-methyl-1-hexanol	13231-81-7	213.97	14.451	2
11890	C7H14O2	5-methylhexanoic acid	628-46-6	229.49	13.062	2	12170	C7H16O	4-methyl-1-hexanol	818-49-5	213.97	14.451	2
11891	C7H14O2	hexyl formate	629-33-4	230.53	19.937	2	12171	C7H16O	5-methyl-1-hexanol	627-98-5	213.97	14.451	2
11892	C7H14O2	pentyl acetate	628-63-7	202.35	16.500	2	12172	C7H16O	2-methyl-2-hexanol	625-23-0	231.39	10.560	2
11893	C7H14O2	1-methylbutyl acetate	626-38-0	195.48	14.732	2	12173	C7H16O	3-methyl-2-hexanol	2313-65-7	198.97	10.928	2
11894	C7H14O2	2-methylbutyl acetate	624-41-9	195.48	14.732	2	12174	C7H16O	4-methyl-2-hexanol	2313-61-3	198.97	10.928	2
11895	C7H14O2	isopentyl acetate	123-92-2	194.65	14.732	2	12175	C7H16O	5-methyl-2-hexanol	627-59-8	198.97	10.928	2
11896	C7H14O2	1-ethylpropyl acetate	620-11-1	195.48	14.732	2	12176	C7H16O	2-methyl-3-hexanol	617-29-8	198.97	10.928	2
11897	C7H14O2	tert-pentyl acetate	625-16-1	212.90	10.841	2	12177	C7H16O	3-methyl-3-hexanol	597-96-6	231.39	10.560	2
11898	C7H14O2	1,2-dimethylpropyl acetate	5343-96-4	180.48	11.209	2	12178	C7H16O	4-methyl-3-hexanol	615-29-2	198.97	10.928	2
11899	C7H14O2	neopentyl acetate	926-41-0	212.90	10.841	2	12179	C7H16O	5-methyl-3-hexanol	623-55-2	198.97	10.928	2
11900	C7H14O2	sec-pentyl acetate (R)	54638-10-7	198.72	13.594	2	12180	C7H16O	2-ethyl-1-pentanol	27522-11-8	213.97	14.451	2
11901	C7H14O2	butyl propanoate	590-01-2	183.63	17.200	2	12181	C7H16O	3-ethyl-1-pentanol	66225-51-2	213.97	14.451	2
11902	C7H14O2	isobutyl propanoate	540-42-1	201.75	14.732	2	12182	C7H16O	2,2-dimethyl-1-pentanol	2370-12-9	231.39	10.560	2
11903	C7H14O2	sec-butyl propanoate	591-34-4	195.48	14.732	2	12183	C7H16O	2,3-dimethyl-1-pentanol	10143-23-4	198.97	10.928	2
11904	C7H14O2	tert-butyl propanoate	20487-40-5	212.90	10.841	2	12184	C7H16O	2,4-dimethyl-1-pentanol	6305-71-1	198.97	10.928	2
11905	C7H14O2	propyl butanoate	105-66-8	177.95	17.800	2	12185	C7H16O	3,3-dimethyl-1-pentanol	19264-94-9	231.39	10.560	2
11906	C7H14O2	isopropyl butanoate	638-11-9	195.48	14.732	2	12186	C7H16O	3,4-dimethyl-1-pentanol	6570-87-2	198.97	10.928	2
11907	C7H14O2	isopropyl isobutanoate	617-50-5	186.72	16.374	2	12187	C7H16O	4,4-dimethyl-1-pentanol	3121-79-7	231.39	10.560	2
11908	C7H14O2	propyl isobutanoate	644-49-5	186.72	16.374	2	12188	C7H16O	3-ethyl-2-pentanol	609-27-8	198.97	10.928	2
11909	C7H14O2	ethyl isovalerate	108-64-5	173.85	14.732	2	12189	C7H16O	2,3-dimethyl-2-pentanol	4911-70-0	216.39	7.037	2
11910	C7H14O2	ethyl 2,2-dimethylpropanoate	3938-95-2	183.65	14.318	2	12190	C7H16O	2,4-dimethyl-2-pentanol	625-06-9	216.39	7.037	2
11911	C7H14O2	ethyl 2-methylbutanoate, (+)	10307-61-6	186.72	16.374	2	12191	C7H16O	3,3-dimethyl-2-pentanol	19781-24-9	216.39	7.037	2
11912	C7H14O2	ethyl pentanoate	539-82-2	181.95	15.760	2	12192	C7H16O	3,4-dimethyl-2-pentanol	64502-86-9	183.97	7.405	2
11913	C7H14O2	methyl 2-ethylbutanoate	816-11-5	186.72	16.374	2	12193	C7H16O	4,4-dimethyl-2-pentanol	6144-93-0	213.15	7.037	2
11914	C7H14O2	methyl hexanoate	106-70-7	202.15	15.760	2	12194	C7H16O	3-ethyl-3-pentanol	597-49-9	260.75	10.560	2
11923	C7H14O2	ethyl 2-methylbutyrate	7452-79-1	185.98	15.760	2	12195	C7H16O	2,2-dimethyl-3-pentanol	3970-62-5	278.15	7.037	2
11925	C7H14O2	2-methylhexanoic acid	4536-23-6	229.49	13.062	2	12196	C7H16O	2,3-dimethyl-3-pentanol	595-41-5	216.39	7.037	2
11926	C7H14O2	neoheptanoic acid	33113-10-9	229.49	13.062	2	12197	C7H16O	2,4-dimethyl-3-pentanol	600-36-2	265.15	7.405	2
11927.2	C7H14O2	neoheptanoic acid	1185-39-3	230.00	12.400	2	12198	C7H16O	2-methyl-2-ethyl-1-butanol	18371-13-6	231.39	10.560	2
11934.1	C7H14O3	propylene glycol ethyl ether acetate	54839-24-6	213.00	14.700	2	12199	C7H16O	3-methyl-2-ethyl-1-butanol	32444-34-1	198.97	10.928	2
11982	C7H15Br	1-bromoheptane	629-04-9	217.05	21.760	1	12200	C7H16O	2,2,3-trimethyl-1-butanol	55505-23-2	216.39	7.037	2
11983	C7H15Br	2-bromoheptane	1974-04-5	320.15	26.928	2	12201	C7H16O	2,3,3-trimethyl-1-butanol	36794-64-6	216.39	7.037	2
11984	C7H15Br	4-bromoheptane	998-93-6	268.60	26.928	2	12202	C7H16O	2,3,3-trimethyl-2-butanol	594-83-2	290.15	3.146	2
11988	C7H15Cl	1-chloroheptane	629-06-1	203.65	18.083	2	12203	C7H16O	2,4-dimethyl-1-pentanol, (±)	111768-02-6	219.25	10.824	2
11989	C7H15Cl	2-chloro-2,3-dimethylpentane	59889-45-1	239.33	21.251	2	12204	C7H16O	2-heptanol, (±)	52390-72-4	219.25	10.824	2
11990	C7H15Cl	2-chloro-2,4-dimethylpentane	35951-33-8	239.33	21.251	2	12205	C7H16O	3-heptanol, (S)	26549-25-7	203.15	10.824	2
11991	C7H15Cl	3-chloro-2,3-dimethylpentane	595-38-0	239.33	21.251	2	12206	C7H16O	2-methyl-1-hexanol, (±)	111768-04-8	219.25	10.824	2
11992	C7H15Cl	4-chloro-2,2-dimethylpentane	33429-72-0	239.33	21.251	2	12207	C7H16O	3-methyl-1-hexanol, (±)	111768-08-2	219.25	10.824	2
11993	C7H15Cl	3-chloro-3-ethylpentane	994-25-2	239.33	21.251	2	12208	C7H16O	4-methyl-1-hexanol, (±)	111768-05-9	219.25	10.824	2
11994	C7H15Cl	2-chloroheptane	1001-89-4	239.33	21.251	2	12209	C7H16O	2-methyl-3-hexanol, (±)	100295-82-7	219.25	10.824	2
11995	C7H15Cl	3-chloroheptane	999-52-0	239.33	21.251	2	12210	C7H16O	5-methyl-3-hexanol, (±)	100295-83-8	219.25	10.824	2
11996	C7H15Cl	4-chloroheptane	998-95-8	239.33	21.251	2	12211	C7H16O	isopropyl-tert-butyl-ether	17348-59-3	177.80	4.137	2
11997	C7H15Cl	1-chloro-3-methylhexane	101257-63-0	239.33	21.251	2	12212	C7H16O	butyl propyl ether	3073-92-5	177.80	4.137	2
11998	C7H15Cl	2-chloro-2-methylhexane	4398-65-6	239.33	21.251	2	12212.1	C7H16O	isopropyl isobutyl ether	78448-33-6	180.00	12.100	2
11999	C7H15Cl	2-chloro-5-methylhexane	58766-17-9	239.33	21.251	2	12213	C7H16O	2-ethoxy-2-methylbutane	919-94-8	177.80	4.137	2
12000	C7H15Cl	3-chloro-3-methylhexane	43197-78-0	239.33	21.251	2	12214	C7H16O	ethyl isopentyl ether	628-04-6	177.80	4.137	2
12001	C7H15Cl	2-chloro-2,3,3-trimethylbutane	918-07-0	275.00	21.251	2	12215	C7H16O	ethyl pentyl ether	17952-11-3	177.80	4.137	2
12015	C7H15F	1-fluoroheptane	661-11-0	200.15	16.966	2	12216	C7H16O	hexyl methyl ether	4747-07-3	177.80	4.137	2
12020	C7H15I	1-iodoheptane	4282-40-0	224.95	18.292	2	12217	C7H16O	1-(1-methylethoxy)butane	1860-27-1	177.80	4.137	2
12021	C7H15I	2-iodoheptane	18589-29-2	224.95	18.292	2	12218	C7H16O	2-methyl-1-propoxypropane	15268-49-2	177.80	4.137	2
12022	C7H15I	3-iodoheptane	31294-92-5	224.95	18.292	2	12219	C7H16O	2-methyl-2-propoxypropane	29072-93-3	177.80	4.137	2
12023	C7H15I	4-iodoheptane	31294-93-6	224.95	18.292	2	12220	C7H16O	(S)-(+)-2-heptanol	6033-23-4	219.25	10.824	2
12024	C7H15N	N-methylcyclohexylamine	100-60-7	264.65	11.600	2	12221	C7H16O	(R)-(-)-2-heptanol	6033-24-5	219.25	10.824	2
12025	C7H15N	cyclohexanemethanamine	3218-02-8	264.65	11.600	2	12275.2	C7H16O2	diethylene glycol monopropyl ether	6881-94-3	220.85	21.800	2
12026	C7H15N	cis-2-methylcyclohexylamine	2164-19-4	264.65	11.600	2	12300	C7H16S	heptyl mercaptan	1639-09-4	229.92	25.384	1
12027	C7H15N	trans-2-methylcyclohexylamine	931-10-2	264.65	11.600	2	12301	C7H16S	2-heptanethiol	1628-00-2	132.15	17.286	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
12302	C7H16S	methyl hexyl sulfide	20291-60-5	206.35	18.016	2	14044	C8H10S	2,5-dimethylthiophenol	4001-61-0	248.01	16.537	2
12303	C7H16S	ethyl pentyl sulfide	26158-99-6	206.66	18.016	2	14045	C8H10S	2,6-dimethylthiophenol	118-72-9	248.01	16.537	2
12304	C7H16S	propyl butyl sulfide	1613-46-3	206.66	18.016	2	14046	C8H10S	3,4-dimethylthiophenol	18800-53-8	248.01	16.537	2
12315	C7H17N	heptylamine	111-68-2	254.15	29.400	2	14047	C8H10S	3,5-dimethylthiophenol	38360-81-5	248.01	16.537	2
12316	C7H17N	2,4-dimethyl-2-pentanamine	64379-30-2	254.15	29.400	2	14052	C8H10S	[(methylthio)methyl]benzene	766-92-7	243.15	16.633	2
12317	C7H17N	2-heptanamine	123-82-0	254.15	29.400	2	14053	C8H10S	alpha-methylbenzenemethanethiol, (S)	33877-11-1	252.44	16.633	2
12318	C7H17N	4-heptanamine	16751-59-0	254.15	29.400	2	14054	C8H10S	2-phenylethanethiol	4410-99-5	252.44	16.633	2
12319	C7H17N	3-methyl-1-hexanamine	65530-93-0	254.15	29.400	2	14082	C8H11N	N,N-dimethylaniline	121-69-7	275.60	11.560	2
12320	C7H17N	4-methyl-2-hexanamine	105-41-9	254.15	29.400	2	14083	C8H11N	o-ethylaniline	578-54-1	226.55	12.200	2
12321	C7H17N	4-methyl-1-hexylamine	34263-68-8	254.15	29.400	2	14084	C8H11N	N,2-dimethylaniline	611-21-2	263.07	12.600	2
12322	C7H17N	methylhexylamine	35161-70-7	235.15	18.895	2	14085	C8H11N	N,3-dimethylaniline	696-44-6	263.07	12.600	2
12323	C7H17N	ethylpentylamine	17839-26-8	235.15	18.895	2	14086	C8H11N	N,4-dimethylaniline	623-08-5	263.07	12.600	2
12324	C7H17N	dimethylpentylamine	26153-88-8	190.00	16.907	2	14087	C8H11N	2,3-dimethylaniline	87-59-2	263.07	12.600	2
12325	C7H17N	dimethyl-2-pentylamine	57303-85-2	190.00	16.907	2	14088	C8H11N	2,4-dimethylaniline	95-68-1	258.85	12.600	2
12326	C7H17N	dimethyl-3-pentylamine	18636-94-7	190.00	16.907	2	14089	C8H11N	2,5-dimethylaniline	95-78-3	288.65	12.600	2
12327	C7H17N	dimethyl-2-methylbutylamine	66225-39-6	190.00	16.907	2	14090	C8H11N	2,6-dimethylaniline	87-62-7	284.35	12.600	2
12328	C7H17N	dimethyl-3-methylbutylamine	2315-43-7	190.00	16.907	2	14091	C8H11N	3,4-dimethylaniline	95-64-7	324.15	12.600	2
12329	C7H17N	dimethyl-1,1-dimethylpropylamine	57757-60-5	190.00	16.907	2	14092	C8H11N	3,5-dimethylaniline	108-69-0	282.95	12.600	2
12330	C7H17N	dimethyl-1,2-dimethylpropylamine	66225-38-5	190.00	16.907	2	14093	C8H11N	m-ethylaniline	587-02-0	209.15	12.600	2
12331	C7H17N	dimethyl-2,2-dimethylpropylamine	10076-31-0	190.00	16.907	2	14094	C8H11N	p-ethylaniline	589-16-2	270.75	12.600	2
12332	C7H17N	methylethylbutylamine	66225-40-9	190.00	16.907	2	14095	C8H11N	N-ethylaniline	103-69-5	209.65	12.600	2
12333	C7H17N	methylethyl-sec-butylamine	66225-41-0	190.00	16.907	2	14096	C8H11N	2,4,6-trimethylpyridine	108-75-8	229.00	9.540	2
12334	C7H17N	methylethylisobutylamine	60247-14-5	190.00	16.907	2	14097	C8H11N	2-ethyl-4-methylpyridine	2150-18-7	216.18	9.006	2
12335	C7H17N	methylethyl-tert-butylamine	52841-28-8	190.00	16.907	2	14098	C8H11N	2-ethyl-6-methylpyridine	1122-69-6	216.18	9.006	2
12336	C7H17N	methyldipropylamine	3405-42-3	190.00	16.907	2	14099	C8H11N	3-ethyl-4-methylpyridine	529-21-5	216.18	9.006	2
12337	C7H17N	methylpropylisopropylamine	66225-42-1	190.00	16.907	2	14100	C8H11N	4-ethyl-2-methylpyridine	536-88-9	216.18	9.006	2
12338	C7H17N	methyldiisopropylamine	10342-97-9	190.00	16.907	2	14101	C8H11N	2-isopropylpyridine	644-98-4	132.15	9.006	2
12339	C7H17N	diethylpropylamine	4458-31-5	190.00	16.907	2	14102	C8H11N	3-isopropylpyridine	6304-18-3	227.35	9.006	2
12340	C7H17N	diethylisopropylamine	6006-15-1	190.00	16.907	2	14103	C8H11N	4-isopropylpyridine	696-30-0	218.25	9.006	2
12341	C7H17N	N-tert-butylisopropylamine	7515-80-2	235.15	18.895	2	14104	C8H11N	4-propylpyridine	1122-81-2	216.18	9.006	2
12342	C7H17N	(S)-2-heptylamine	44745-29-1	254.15	29.400	2	14105	C8H11N	2-propylpyridine	622-39-9	274.15	9.006	2
12343	C7H17N	(R)-2-heptylamine	6240-90-0	254.15	29.400	2	14106	C8H11N	2,3,4-trimethylpyridine	2233-29-6	216.18	9.006	2
12344	C7H17N	N-propylbutylamine	20193-21-9	235.15	18.895	2	14107	C8H11N	2,3,5-trimethylpyridine	695-98-7	216.18	9.006	2
12345	C7H17N	3-aminoheptane	28292-42-4	254.15	29.400	2	14108	C8H11N	2,3,6-trimethylpyridine	1462-84-6	216.18	9.006	2
12346	C7H17N	5-methyl-2-hexylamine	28292-43-5	254.15	29.400	2	14109	C8H11N	2,4,5-trimethylpyridine	1122-39-0	216.18	9.006	2
12522	C8H4Cl2O2	1,4-benzenedicarbonyl dichloride	100-20-9	356.65	21.100	1	14110	C8H11N	benzeneethanamine	64-04-0	250.00	13.470	2
12577	C8H4N2	1,2-dicyanobenzene	91-15-6	413.15	20.000	1	14228	C8H12	1,5-cyclooctadiene	111-78-4	203.98	9.830	2
12594	C8H4O3	phthalic anhydride	85-44-9	404.26	23.090	1	14229	C8H12	1,4-cyclooctadiene	1073-07-0	220.15	10.301	2
12683	C8H5MnO3	manganese cyclopentadienyl tricarbonyl	12079-65-1	350.00	19.300	1	14230	C8H12	cis,cis-1,5-cyclooctadiene	1552-12-1	203.15	10.301	2
12713	C8H6	ethynylbenzene	536-74-3	228.04	9.460	1	14231	C8H12	vinylcyclohexene	100-40-3	164.00	8.253	2
12866	C8H6N2	phthalazine	253-52-1	363.65	13.320	1	14247	C8H12	1,3-cyclooctadiene	1700-10-3	220.25	10.301	2
12867	C8H6N2	quinazoline	253-82-7	321.15	16.950	1	14248	C8H12	cis,cis-1,3-cyclooctadiene	3806-59-5	221.25	10.301	2
12934	C8H6O4	isophthalic acid	121-91-5	619.15	30.414	2	14252	C8H12	(Z,E)-1,3-cyclooctadiene	3806-60-8	213.76	10.301	2
12935	C8H6O4	phthalic acid	88-99-3	464.15	30.414	2	14306	C8H12N2O2	hexamethylene diisocyanate	822-06-0	206.06	18.640	1
12936	C8H6O4	terephthalic acid	100-21-0	700.15	30.414	2	14379	C8H12O4	1,4-cyclohexanedicarboxylic acid	619-82-9	585.65	29.668	2
12947	C8H6S	benzothiophene	95-15-8	304.50	11.819	1	14413.1	C8H12S	3-ethyl-2,5-dimethylthiophene	55735-23-4	195.00	14.900	2
13107	C8H7N	indole	120-72-9	325.00	9.000	1	14463	C8H14	1-propylcyclopentene	3074-61-1	172.85	11.633	2
13232	C8H7N5O8	N-ethyl-N,2,4,6-tetranitrobenzenamine	6052-13-7	369.00	23.500	1	14464	C8H14	1,2,3-trimethylcyclopentene	473-91-6	172.85	11.633	2
13237	C8H8	styrene	100-42-5	242.54	10.950	1	14465	C8H14	1,5,5-trimethylcyclopentene	62184-83-2	172.85	11.633	2
13238	C8H8	1,3,5,7-cyclooctatetraene	629-20-9	266.16	11.270	1	14466	C8H14	1-ethylcyclohexene	1453-24-3	163.19	9.533	2
13241	C8H8	cubane	277-10-1	404.90	8.700	1	14467	C8H14	3-ethylcyclohexene	2808-71-1	175.81	9.533	2
13412	C8H8O2	methyl benzoate	93-58-3	260.75	13.900	2	14468	C8H14	4-ethylcyclohexene	3742-42-5	175.81	9.533	2
13413	C8H8O2	o-toluic acid	118-90-1	376.85	20.170	1	14469	C8H14	1,2-dimethylcyclohexene	1674-10-8	189.00	10.604	2
13414	C8H8O2	p-toluic acid	99-94-5	452.75	22.720	1	14470	C8H14	1,3-dimethylcyclohexene	2808-76-6	159.44	10.604	2
13433	C8H8O2	m-toluic acid	99-04-7	383.05	15.730	1	14471	C8H14	1,4-dimethylcyclohexene	2808-79-9	213.75	10.604	2
13466	C8H8O3	4-methoxybenzoic acid	100-09-4	458.15	28.330	1	14472	C8H14	1,5-dimethylcyclohexene	2808-77-7	159.44	10.604	2
13671	C8H9NO	acetanilide	103-84-4	386.65	21.650	1	14473	C8H14	1,6-dimethylcyclohexene	1759-64-4	159.44	10.604	2
13735	C8H9NO2	carbamic acid, phenyl-, methyl ester	2603-10-3	325.00	14.548	1	14474	C8H14	3,3-dimethylcyclohexene	695-28-3	159.44	3.235	2
13736	C8H9NO2	N-(2-hydroxyphenyl)acetamide	614-80-2	364.50	21.250	1	14475	C8H14	3,cis-4-dimethylcyclohexene	---	159.44	10.604	2
13789	C8H10	ethylbenzene	100-41-4	178.20	9.180	1	14476	C8H14	3,trans-4-dimethylcyclohexene	---	159.44	10.604	2
13790	C8H10	o-xylene	95-47-6	247.98	13.600	1	14477	C8H14	3,cis-5-dimethylcyclohexene	---	159.44	10.604	2
13791	C8H10	m-xylene	108-38-3	225.27	11.569	1	14478	C8H14	3,trans-5-dimethylcyclohexene	56021-63-7	159.44	10.604	2
13792	C8H10	p-xylene	106-42-3	286.30	16.933	1	14479	C8H14	3,cis-6-dimethylcyclohexene	---	159.44	10.604	2
13793	C8H10	xylenes	1330-20-7	243.75	12.811	2	14480	C8H14	3,trans-6-dimethylcyclohexene	3685-00-5	159.44	10.604	2
13912	C8H10O	phenetole	103-73-1	243.63	11.600	1	14481	C8H14	4,4-dimethylcyclohexene	14072-86-7	198.68	3.235	2
13918	C8H10O	o-ethylphenol	90-00-6	269.84	13.940	1	14482	C8H14	4,cis-5-dimethylcyclohexene	---	159.44	10.604	2
13919	C8H10O	m-ethylphenol	620-17-7	269.15	9.410	1	14483	C8H14	4,trans-5-dimethylcyclohexene	---	159.44	10.604	2
13920	C8H10O	p-ethylphenol	123-07-9	318.23	17.000	1	14484	C8H14	1-octyne	629-05-0	193.85	19.450	2
13921	C8H10O	2,3-xylenol	526-75-0	346.00	21.024	1	14485	C8H14	2-octyne	2809-67-8	211.55	19.596	2
13922	C8H10O	2,4-xylenol	105-67-9	297.68	12.840	1	14486	C8H14	3-octyne	15232-76-5	169.15	19.596	2
13923	C8H10O	2,5-xylenol	95-87-4	348.00	23.376	1	14487	C8H14	4-octyne	1942-45-6	172.15	19.216	2
13924	C8H10O	2,6-xylenol	576-26-1	318.90	18.897	1	14488	C8H14	3-ethyl-3-methyl-1-pentyne	919-12-0	186.68	19.216	2
13925	C8H10O	3,4-xylenol	95-65-8	334.00	18.127	1	14599	C8H14O2	butyl methacrylate	97-88-1	196.80	18.255	2
13926	C8H10O	3,5-xylenol	108-68-9	336.59	17.422	1	14654.1	C8H14O2	2-oxolan-2-yloxolane	106538-38-9	235.00	22.700	2
13934	C8H10O	dimethyl phenol	1300-71-6	315.38	16.694	2	14736	C8H15Br	cis-1-bromo-1-octene	42843-49-2	234.14	21.963	2
14039	C8H10S	o-ethylthiophenol	4500-58-7	264.38	17.004	2	14737	C8H15Br	trans-1-bromo-1-octene	51751-87-2	234.14	21.963	2
14040	C8H10S	m-ethylthiophenol	62154-77-2	264.38	17.004	2	14748	C8H15Br3	1,1,1-tribromooctane	62127-65-5	361.24	24.917	2
14041	C8H10S	p-ethylthiophenol	4946-13-8	264.38	17.004	2	14749	C8H15Cl	cis-1-chloro-1-octene	64531-23-3	204.26	20.875	2
14042	C8H10S	2,3-dimethylthiophenol	18800-51-6	248.01	16.537	2	14750	C8H15Cl	trans-1-chloro-1-octene	59871-24-8	204.26	20.875	2
14043	C8H10S	2,4-dimethylthiophenol	13616-82-5	248.01	16.537	2	14751	C8H15Cl	1-chloro-4-ethyl-3-hexene	82507-04-8	204.26	20.875	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
14752	C8H15Cl	6-chloro-2-methyl-2-heptene	80325-37-7	204.26	20.875	2	14929	C8H16	2-ethyl-1-hexene	1632-16-2	163.70	13.886	2
14753	C8H15Cl	2-chloro-1-octene	31283-43-9	204.26	20.875	2	14930	C8H16	3-ethyl-1-hexene	3404-58-8	162.66	11.673	2
14754	C8H15Cl	2-chloro-2-octene	90202-21-4	204.26	20.875	2	14931	C8H16	4-ethyl-1-hexene	16746-85-3	162.66	11.673	2
14755	C8H15Cl	4-chloro-2-octene	116668-50-9	204.26	20.875	2	14932	C8H16	2,3-dimethyl-1-hexene	16746-86-4	148.70	10.363	2
14756	C8H15Cl	cis-4-chloro-4-octene	7321-48-4	204.26	20.875	2	14933	C8H16	2,4-dimethyl-1-hexene	16746-87-5	148.70	10.363	2
14765	C8H15Cl3	1,1,1-trichlorooctane	4905-79-7	271.60	21.653	2	14934	C8H16	2,5-dimethyl-1-hexene	6975-92-4	148.70	10.363	2
14766	C8H15F	cis-1-fluoro-1-octene	32814-16-7	206.49	19.758	2	14935	C8H16	3,3-dimethyl-1-hexene	3404-77-1	180.08	7.782	2
14767	C8H15F	trans-1-fluoro-1-octene	32814-17-8	206.49	19.758	2	14936	C8H16	3,4-dimethyl-1-hexene	16745-94-1	147.66	8.150	2
14770	C8H15F3	1,1,1-trifluorooctane	53392-86-2	278.29	18.302	2	14937	C8H16	3,5-dimethyl-1-hexene	7423-69-0	147.66	8.150	2
14772	C8H15I	cis-1-iodo-1-octene	52356-93-1	232.40	21.084	2	14938	C8H16	4,4-dimethyl-1-hexene	1647-08-1	180.08	7.782	2
14773	C8H15I	trans-1-iodo-1-octene	42599-17-7	232.40	21.084	2	14939	C8H16	4,5-dimethyl-1-hexene	16106-59-5	147.66	8.150	2
14774	C8H15I3	1,1,1-triiodooctane	---	356.02	22.280	2	14940	C8H16	5,5-dimethyl-1-hexene	7116-86-1	180.08	7.782	2
14775	C8H15N	octanenitrile	124-12-9	227.55	17.982	2	14941	C8H16	3-ethyl-cis-2-hexene	36880-72-5	160.38	15.368	2
14861	C8H16	propylcyclopentane	2040-96-2	155.79	10.033	1	14942	C8H16	3-ethyl-trans-2-hexene	66225-15-8	160.38	15.368	2
14862	C8H16	isopropylcyclopentane	3875-51-2	161.78	6.888	2	14943	C8H16	4-ethyl-cis-2-hexene	54616-49-8	159.34	13.155	2
14863	C8H16	1-methyl-1-ethylcyclopentane	16747-50-5	129.35	11.482	2	14944	C8H16	4-ethyl-trans-2-hexene	19781-63-6	159.34	13.155	2
14864	C8H16	1-methyl-cis-2-ethylcyclopentane	930-89-2	167.20	11.482	2	14945	C8H16	2,3-dimethyl-2-hexene	7145-20-2	158.05	14.058	2
14865	C8H16	1-methyl-trans-2-ethylcyclopentane	930-90-5	167.25	11.482	2	14946	C8H16	2,4-dimethyl-2-hexene	14255-23-3	145.38	11.845	2
14866	C8H16	1-methyl-cis-3-ethylcyclopentane	2613-66-3	186.08	11.482	2	14947	C8H16	2,5-dimethyl-2-hexene	3404-78-2	145.38	11.845	2
14867	C8H16	1-methyl-trans-3-ethylcyclopentane	2613-65-2	165.15	11.482	2	14948	C8H16	3,4-dimethyl-cis-2-hexene	19550-81-3	145.38	11.845	2
14868	C8H16	1,1,2-trimethylcyclopentane	4259-00-1	251.51	5.184	2	14949	C8H16	3,4-dimethyl-trans-2-hexene	19550-82-4	145.38	11.845	2
14869	C8H16	1,1,3-trimethylcyclopentane	4516-69-2	130.71	5.184	2	14950	C8H16	3,5-dimethyl-cis-2-hexene	66225-31-8	145.38	11.845	2
14870	C8H16	1,cis-2,cis-3-trimethylcyclopentane	2613-69-6	156.72	12.553	2	14951	C8H16	3,5-dimethyl-trans-2-hexene	66225-12-5	145.38	11.845	2
14871	C8H16	1,cis-2,trans-3-trimethylcyclopentane	15890-40-1	161.15	12.553	2	14952	C8H16	4,4-dimethyl-cis-2-hexene	19550-83-5	176.76	9.264	2
14872	C8H16	1,trans-2,cis-3-trimethylcyclopentane	19374-46-0	160.45	12.553	2	14953	C8H16	4,4-dimethyl-trans-2-hexene	---	176.76	9.264	2
14873	C8H16	1,cis-2,cis-4-trimethylcyclopentane	2613-72-1	140.85	12.553	2	14954	C8H16	4,5-dimethyl-2-hexene	73548-71-7	159.40	11.763	2
14874	C8H16	1,cis-2,trans-4-trimethylcyclopentane	4850-28-6	140.60	12.553	2	14955	C8H16	4,5-dimethyl-cis-2-hexene	65036-71-7	144.34	9.632	2
14875	C8H16	1,trans-2,cis-4-trimethylcyclopentane	16883-48-0	142.37	12.553	2	14956	C8H16	4,5-dimethyl-trans-2-hexene	66225-14-7	144.34	9.632	2
14876	C8H16	1-methyl-3-ethylcyclopentane	3726-47-4	142.85	10.958	2	14957	C8H16	5,5-dimethyl-cis-2-hexene	39761-61-0	176.76	9.264	2
14877	C8H16	ethylcyclohexane	1678-91-7	161.84	8.330	1	14958	C8H16	5,5-dimethyl-trans-2-hexene	39782-43-9	176.76	9.264	2
14878	C8H16	1,1-dimethylcyclohexane	590-66-9	239.66	2.010	1	14959	C8H16	3-ethyl-3-hexene	16789-51-8	160.38	15.368	2
14879	C8H16	1,2-dimethylcyclohexane, (cis+trans)	583-57-3	201.53	8.436	2	14960	C8H16	2,2-dimethyl-cis-3-hexene	690-92-6	135.80	9.264	2
14880	C8H16	cis-1,2-dimethylcyclohexane	2207-01-4	223.16	1.640	1	14961	C8H16	2,2-dimethyl-trans-3-hexene	690-93-7	176.76	9.264	2
14881	C8H16	trans-1,2-dimethylcyclohexane	6876-23-9	184.99	10.490	1	14962	C8H16	2,3-dimethyl-cis-3-hexene	59643-75-3	145.38	11.845	2
14882	C8H16	1,3-dimethylcyclohexane, cis and trans	591-21-9	201.53	8.436	2	14963	C8H16	2,3-dimethyl-trans-3-hexene	66225-30-7	145.38	11.845	2
14883	C8H16	cis-1,3-dimethylcyclohexane	638-04-0	197.59	10.820	1	14964	C8H16	2,4-dimethyl-cis-3-hexene	37549-89-6	145.38	11.845	2
14884	C8H16	trans-1,3-dimethylcyclohexane	2207-03-6	183.06	9.865	1	14965	C8H16	2,4-dimethyl-trans-3-hexene	61847-78-7	145.38	11.845	2
14885	C8H16	1,4-dimethylcyclohexane, (cis+trans)	589-90-2	201.53	8.436	2	14966	C8H16	2,5-dimethyl-cis-3-hexene	10557-44-5	144.34	9.632	2
14886	C8H16	cis-1,4-dimethylcyclohexane	624-29-3	185.72	9.310	1	14967	C8H16	2,5-dimethyl-trans-3-hexene	692-70-6	144.34	9.632	2
14887	C8H16	trans-1,4-dimethylcyclohexane	2207-04-7	236.22	12.331	1	14968	C8H16	3,4-dimethyl-cis-3-hexene	19550-87-9	146.42	14.058	2
14888	C8H16	cyclooctane	292-64-8	287.60	2.410	1	14969	C8H16	3,4-dimethyl-trans-3-hexene	19550-88-0	146.42	14.058	2
14890	C8H16	1-octene	111-66-0	171.46	15.313	1	14970	C8H16	2-propyl-1-pentene	15918-08-8	163.70	13.886	2
14891	C8H16	oct-2-ene	111-67-1	186.15	11.763	2	14971	C8H16	2-isopropyl-1-pentene	16746-02-4	148.70	10.363	2
14892	C8H16	cis-2-octene	7642-04-8	172.95	16.678	2	14972	C8H16	3-methyl-2-ethyl-1-pentene	3404-67-9	148.70	10.363	2
14893	C8H16	trans-2-octene	13389-42-9	185.45	16.678	2	14973	C8H16	4-methyl-2-ethyl-1-pentene	3404-80-6	148.70	10.363	2
14894	C8H16	cis-3-octene	14850-22-7	147.15	16.678	2	14974	C8H16	2-methyl-3-ethyl-1-pentene	19780-66-6	160.25	10.363	2
14895	C8H16	trans-3-octene	14919-01-8	163.15	16.678	2	14975	C8H16	3-methyl-3-ethyl-1-pentene	6196-60-7	180.08	7.782	2
14896	C8H16	oct-4-ene	592-99-4	183.25	11.763	2	14976	C8H16	4-methyl-3-ethyl-1-pentene	61847-80-1	147.66	8.150	2
14897	C8H16	cis-4-octene	7642-15-1	154.45	16.678	2	14977	C8H16	2,3,3-trimethyl-1-pentene	560-23-6	204.15	6.472	2
14898	C8H16	trans-4-octene	14850-23-8	179.37	16.678	2	14978	C8H16	2,3,4-trimethyl-1-pentene	565-76-4	130.96	6.840	2
14899	C8H16	2-methyl-1-heptene	15870-10-7	183.15	13.886	2	14979	C8H16	2,4,4-trimethyl-1-pentene	107-39-1	178.90	8.765	1
14900	C8H16	3-methyl-1-heptene	4810-09-7	162.66	11.673	2	14980	C8H16	3,3,4-trimethyl-1-pentene	560-22-5	165.08	4.259	2
14901	C8H16	4-methyl-1-heptene	13151-05-8	162.66	11.673	2	14981	C8H16	3,4,4-trimethyl-1-pentene	564-03-4	165.08	4.259	2
14902	C8H16	5-methyl-1-heptene	13151-04-7	162.66	11.673	2	14982	C8H16	2-methyl-3-ethyl-2-pentene	19780-67-7	146.42	14.058	2
14903	C8H16	6-methyl-1-heptene	5026-76-6	162.66	11.673	2	14983	C8H16	4-methyl-3-ethyl-cis-2-pentene	42067-48-1	145.38	11.845	2
14904	C8H16	2-methyl-2-heptene	627-97-4	160.38	15.368	2	14984	C8H16	4-methyl-3-ethyl-trans-2-pentene	42067-49-2	145.38	11.845	2
14905	C8H16	3-methyl-cis-2-heptene	22768-19-0	160.38	15.368	2	14985	C8H16	2,3,4-trimethyl-2-pentene	565-77-5	159.85	10.535	2
14906	C8H16	3-methyl-trans-2-heptene	22768-20-3	160.38	15.368	2	14986	C8H16	2,4,4-trimethyl-2-pentene	107-40-4	166.84	6.794	1
14907	C8H16	4-methyl-cis-2-heptene	66225-16-9	159.34	13.155	2	14987	C8H16	3,4,4-trimethyl-cis-2-pentene	39761-64-3	162.80	7.954	2
14908	C8H16	4-methyl-trans-2-heptene	66225-17-0	159.34	13.155	2	14988	C8H16	3,4,4-trimethyl-trans-2-pentene	39761-57-4	162.80	7.954	2
14909	C8H16	5-methyl-cis-2-heptene	24608-84-2	159.34	13.155	2	14989	C8H16	3,4,4-trimethyl-2-pentene	598-96-9	159.40	11.763	2
14910	C8H16	5-methyl-trans-2-heptene	24608-85-3	159.34	13.155	2	14990	C8H16	2,4,4-trimethylpentene	25167-70-8	173.30	11.763	2
14911	C8H16	6-methyl-2-heptene	73548-72-8	159.40	11.763	2	14991	C8H16	3-methyl-2-isopropyl-1-butene	111823-35-9	133.70	6.840	2
14912	C8H16	6-methyl-cis-2-heptene	66225-18-1	159.34	13.155	2	14992	C8H16	3,3-dimethyl-2-ethyl-1-butene	18231-53-3	166.12	6.472	2
14913	C8H16	6-methyl-trans-2-heptene	51065-65-7	159.34	13.155	2	14994	C8H16Br2	1,1-dibromooctane	62168-26-7	284.02	23.523	2
14914	C8H16	6-methyl-3-heptene	3404-57-7	159.40	11.763	2	14995	C8H16Br2	1,2-dibromooctane	6269-92-7	286.34	23.715	2
14915	C8H16	2-methyl-3-heptene	17618-76-7	165.65	11.763	2	14996	C8H16Br2	1,4-dibromooctane	70690-24-3	286.34	23.715	2
14916	C8H16	2-methyl-cis-3-heptene	20488-34-0	159.34	13.155	2	14997	C8H16Br2	1,5-dibromooctane	17912-17-3	286.34	23.715	2
14917	C8H16	2-methyl-trans-3-heptene	692-96-6	159.34	13.155	2	14998	C8H16Br2	1,8-dibromooctane	4549-32-0	288.65	23.715	2
14918	C8H16	3-methyl-3-heptene	7300-03-0	159.40	11.763	2	14999	C8H16Br2	4,5-dibromooctane	61539-75-1	286.34	23.715	2
14919	C8H16	3-methyl-cis-3-heptene	22768-17-8	160.38	15.368	2	15005	C8H16Cl2	1,1-dichlorooctane	20395-24-8	224.26	21.347	2
14920	C8H16	3-methyl-trans-3-heptene	22768-18-9	160.38	15.368	2	15006	C8H16Cl2	2,5-dichloro-2,5-dimethylhexane	6223-78-5	340.65	24.843	2
14921	C8H16	4-methyl-3-heptene	4485-16-9	159.40	11.763	2	15007	C8H16Cl2	1,8-dichlorooctane	2162-99-4	260.99	24.843	2
14922	C8H16	4-methyl-cis-3-heptene	14255-24-4	160.38	15.368	2	15008	C8H16Cl2	2,3-dichlorooctane	21948-47-0	218.05	24.843	2
14923	C8H16	4-methyl-trans-3-heptene	13714-85-7	160.38	15.368	2	15016	C8H16F2	1,1-difluorooctane	61350-03-6	228.72	19.113	2
14924	C8H16	5-methyl-3-heptene	13172-91-3	159.40	11.763	2	15017	C8H16I2	1,1-diiodooctane	66225-22-7	280.54	21.765	2
14925	C8H16	5-methyl-cis-3-heptene	50422-80-5	159.34	13.155	2	15018	C8H16I2	1,8-diiodooctane	24772-63-2	291.65	22.196	2
14926	C8H16	5-methyl-trans-3-heptene	53510-18-2	159.34	13.155	2	15062	C8H16O	2-ethylhexanal	123-05-7	246.00	21.339	2
14927	C8H16	6-methyl-cis-3-heptene	66225-19-2	159.34	13.155	2	15063	C8H16O	1-octanal	124-13-0	246.00	25.860	1
14928	C8H16	6-methyl-trans-3-heptene	66225-20-5	159.34	13.155	2	15064	C8H16O	5-methylheptanal	75579-88-3	246.00	23.599	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
15065	C8H16O	2-propylpentanal	18295-59-5	246.00	23.599	2	15354	C8H18	octane	111-65-9	216.38	20.740	1
15066	C8H16O	2-octanone	111-13-7	252.86	24.419	1	15355	C8H18	2-methylheptane	592-27-8	164.16	11.920	1
15067	C8H16O	2,5-dimethyl-3-hexanone	1888-57-9	248.50	23.997	2	15356	C8H18	3-methylheptane	589-81-1	152.60	11.690	1
15068	C8H16O	2,2-dimethyl-3-hexanone	5405-79-8	248.50	23.997	2	15357	C8H18	4-methylheptane	589-53-7	152.20	10.800	1
15069	C8H16O	3,3-dimethyl-2-hexanone	26118-38-7	248.50	23.997	2	15358	C8H18	3-methyl-3-ethylpentane	1067-08-9	182.28	10.800	1
15070	C8H16O	3,4-dimethyl-2-hexanone	19550-10-8	248.50	23.997	2	15359	C8H18	3-ethylhexane	619-99-8	158.20	12.953	2
15071	C8H16O	4,4-dimethyl-3-hexanone	19550-14-2	248.50	23.997	2	15360	C8H18	3-ethyl-2-methylpentane	609-26-7	158.20	11.340	1
15072	C8H16O	3-ethyl-4-methyl-2-pentanone	71172-57-1	248.50	23.997	2	15361	C8H18	2,2-dimethylhexane	590-73-8	151.97	6.778	1
15073	C8H16O	2-methyl-3-heptanone	13019-20-0	248.50	23.997	2	15362	C8H18	2,3-dimethylhexane	584-94-1	149.42	9.430	2
15074	C8H16O	2-methyl-4-heptanone	626-33-5	248.50	23.997	2	15363	C8H18	2,4-dimethylhexane	589-43-5	149.42	9.430	2
15075	C8H16O	3-methyl-2-heptanone	2371-19-9	248.50	23.997	2	15364	C8H18	2,5-dimethylhexane	592-13-2	182.00	12.954	1
15076	C8H16O	3-methyl-4-heptanone	15726-15-5	248.50	23.997	2	15365	C8H18	3,3-dimethylhexane	563-16-6	147.05	7.113	1
15077	C8H16O	5-methyl-3-heptanone	541-85-5	248.50	23.997	2	15366	C8H18	3,4-dimethylhexane	583-48-2	160.89	9.430	2
15078	C8H16O	6-methyl-2-heptanone	928-68-7	248.50	23.997	2	15367	C8H18	2,2,3-trimethylpentane	564-02-3	160.89	8.619	1
15079	C8H16O	6-methyl-3-heptanone	624-42-0	248.50	23.997	2	15368	C8H18	2,2,4-trimethylpentane	540-84-1	165.79	9.212	1
15080	C8H16O	3-octanone	106-68-3	248.50	23.997	2	15369	C8H18	2,3,3-trimethylpentane	560-21-4	172.22	0.858	1
15081	C8H16O	4-octanone	589-63-9	248.50	23.997	2	15370	C8H18	2,3,4-trimethylpentane	565-75-3	163.95	9.268	1
15082	C8H16O	2,2,4-trimethyl-3-pentanone	5857-36-3	244.13	23.997	2	15371	C8H18	2,2,3,3-tetramethylbutane	594-82-1	373.97	7.540	1
15147	C8H16O	3-ethyl-3-methyl-2-pentanone	19780-65-5	248.50	23.997	2	15372	C8H18	octane, mixture	---	168.25	10.405	2
15148	C8H16O	5-methyl-2-heptanone	18217-12-4	248.50	23.997	2	15430	C8H18O	1-octanol	111-87-5	257.65	23.700	1
15156	C8H16O2	octanoic acid	124-07-2	289.65	21.350	1	15431	C8H18O	2-octanol	123-96-6	241.55	19.700	2
15157	C8H16O2	2-ethylhexanoic acid	149-57-5	289.65	21.350	2	15432	C8H18O	2-octanol, (±)	4128-31-8	241.55	14.091	2
15158	C8H16O2	3-ethylhexanoic acid	41065-91-2	289.65	21.350	2	15433	C8H18O	3-octanol	589-98-0	228.15	19.597	2
15159	C8H16O2	heptyl formate	112-23-2	226.75	22.527	2	15434	C8H18O	4-octanol	589-62-8	232.45	19.597	2
15160	C8H16O2	hexyl acetate	142-92-7	192.25	19.830	1	15435	C8H18O	4-octanol, (±)	74778-22-6	232.45	14.091	2
15161	C8H16O2	1,1-dimethylbutyl acetate	34859-98-8	192.25	19.830	2	15436	C8H18O	2-methyl-1-heptanol	60435-70-3	161.15	19.597	2
15162	C8H16O2	2-ethylbutyl acetate	10031-87-5	192.25	19.830	2	15437	C8H18O	3-methyl-1-heptanol	1070-32-2	183.15	19.597	2
15163	C8H16O2	sec-hexyl acetate	108-84-9	192.25	19.830	2	15438	C8H18O	4-methyl-1-heptanol	817-91-4	225.24	19.597	2
15164	C8H16O2	2-methyl-1-pentyl acetate	7789-99-3	192.25	19.830	2	15439	C8H18O	5-methyl-1-heptanol	7212-53-5	169.15	19.597	2
15165	C8H16O2	2-methyl-3-pentyl acetate	35897-16-6	192.25	19.830	2	15440	C8H18O	6-methyl-1-heptanol	1653-40-3	167.15	19.597	2
15166	C8H16O2	3-methyl-3-pentyl acetate	10250-47-2	192.25	19.830	2	15441	C8H18O	2-methyl-2-heptanol	625-25-2	222.75	15.123	2
15167	C8H16O2	pentyl propanoate	624-54-4	203.05	20.845	2	15442	C8H18O	3-methyl-2-heptanol	31367-46-1	159.15	15.546	2
15168	C8H16O2	1-methylbutyl propanoate	54004-43-2	206.75	17.322	2	15443	C8H18O	4-methyl-2-heptanol	56298-90-9	171.15	15.546	2
15169	C8H16O2	2-methylbutyl propanoate	2438-20-2	206.75	17.322	2	15444	C8H18O	5-methyl-2-heptanol	54630-50-1	153.15	15.546	2
15170	C8H16O2	isopentyl propanoate	105-68-0	206.75	17.322	2	15445	C8H18O	6-methyl-2-heptanol	4730-22-7	168.15	15.546	2
15171	C8H16O2	1-ethylpropyl propanoate	---	206.75	17.322	2	15446	C8H18O	2-methyl-3-heptanol	18720-62-2	188.15	15.546	2
15172	C8H16O2	1,1-dimethylpropyl propanoate	34949-22-9	224.17	13.431	2	15447	C8H18O	3-methyl-3-heptanol	5582-82-1	190.15	15.123	2
15173	C8H16O2	1,2-dimethylpropyl propanoate	66576-70-3	191.75	13.799	2	15448	C8H18O	4-methyl-3-heptanol	14979-39-6	150.15	15.546	2
15174	C8H16O2	2,2-dimethylpropyl propanoate	3581-69-9	224.17	13.431	2	15449	C8H18O	5-methyl-3-heptanol	18720-65-5	181.95	15.546	2
15175	C8H16O2	butyl butanoate	109-21-7	181.68	14.930	1	15450	C8H18O	6-methyl-3-heptanol	18720-66-6	210.24	15.546	2
15176	C8H16O2	isobutyl butanoate	539-90-2	206.75	17.322	2	15451	C8H18O	2-methyl-4-heptanol	21570-35-4	192.15	15.546	2
15177	C8H16O2	isobutyl isobutyrate	97-85-8	192.45	13.799	2	15452	C8H18O	3-methyl-4-heptanol	1838-73-9	210.24	15.546	2
15178	C8H16O2	sec-butyl butanoate	819-97-6	206.75	17.322	2	15453	C8H18O	4-methyl-4-heptanol	598-01-6	191.15	15.123	2
15179	C8H16O2	tert-butyl butanoate	2308-38-5	224.17	13.431	2	15454	C8H18O	2-ethyl-1-hexanol	104-76-7	203.15	19.597	2
15180	C8H16O2	sec-butyl butanoate, (S)	116836-55-6	181.65	15.498	2	15455	C8H18O	3-ethyl-1-hexanol	41065-95-6	225.24	19.597	2
15181	C8H16O2	tert-butyl 2-methylpropanoate	16889-72-8	208.77	16.430	2	15456	C8H18O	4-ethyl-1-hexanol	---	225.24	19.597	2
15185	C8H16O2	ethyl hexanoate	123-66-0	206.15	14.667	2	15457	C8H18O	2,2-dimethyl-1-hexanol	2370-13-0	221.15	15.123	2
15186	C8H16O2	ethyl 4-methylpentanoate	25415-67-2	204.55	14.667	2	15458	C8H18O	2,3-dimethyl-1-hexanol	---	210.24	15.546	2
15191	C8H16O2	isopropyl 3-methylbutanoate	32665-23-9	200.20	15.498	2	15459	C8H18O	2,4-dimethyl-1-hexanol	3965-59-1	210.24	15.546	2
15192	C8H16O2	isopropyl pentanoate	18362-97-5	204.55	14.667	2	15460	C8H18O	2,5-dimethyl-1-hexanol	6886-16-4	210.24	15.546	2
15193	C8H16O2	propyl 3-methylbutanoate	557-00-6	200.20	15.498	2	15461	C8H18O	3,3-dimethyl-1-hexanol	10524-70-6	242.66	15.123	2
15194	C8H16O2	propyl pentanoate	141-06-0	202.45	14.667	2	15462	C8H18O	3,4-dimethyl-1-hexanol	---	210.24	15.546	2
15195	C8H16O2	methyl heptanoate	106-73-0	217.15	14.667	2	15463	C8H18O	3,5-dimethyl-1-hexanol	13501-73-0	210.24	15.546	2
15204	C8H16O2	2-methylheptanoic acid	1188-02-9	289.65	21.350	2	15464	C8H18O	4,4-dimethyl-1-hexanol	6481-95-4	242.66	15.123	2
15205	C8H16O2	2-propylpentanoic acid	99-66-1	289.65	21.350	2	15465	C8H18O	4,5-dimethyl-1-hexanol	---	210.24	15.546	2
15207	C8H16O2	butyl isobutyrate	97-87-0	204.55	14.667	2	15466	C8H18O	5,5-dimethyl-1-hexanol	2768-18-5	242.66	15.123	2
15232	C8H16O4	diethylene glycol ethyl ether acetate	112-15-2	248.15	25.400	2	15467	C8H18O	3-ethyl-2-hexanol	24448-19-9	210.24	15.546	2
15248	C8H17Br	1-bromooctane	111-83-1	218.15	24.690	1	15468	C8H18O	4-ethyl-2-hexanol	---	210.24	15.546	2
15249	C8H17Br	2-bromooctane, (±)-	60251-57-2	218.15	24.690	2	15469	C8H18O	2,3-dimethyl-2-hexanol	19550-03-9	227.66	11.071	2
15250	C8H17Br	2-ethylhexyl bromide	18908-66-2	218.15	24.690	2	15470	C8H18O	2,4-dimethyl-2-hexanol	42328-76-7	227.66	11.071	2
15252	C8H17Cl	1-chlorooctane	111-85-3	215.35	20.673	2	15471	C8H18O	2,5-dimethyl-2-hexanol	3730-60-7	227.66	11.071	2
15253	C8H17Cl	2-chloro-2,5-dimethylhexane	29342-44-7	231.25	22.199	2	15472	C8H18O	3,3-dimethyl-2-hexanol	22025-20-3	227.66	11.071	2
15254	C8H17Cl	3-chloro-2,3-dimethylhexane	101654-30-2	231.25	22.199	2	15473	C8H18O	3,4-dimethyl-2-hexanol	19550-05-1	195.24	11.494	2
15255	C8H17Cl	2-chloro-2-methylheptane	4325-49-9	231.25	22.199	2	15474	C8H18O	3,5-dimethyl-2-hexanol	66576-27-0	195.24	11.494	2
15256	C8H17Cl	2-chloro-6-methylheptane	2350-19-8	231.25	22.199	2	15475	C8H18O	4,4-dimethyl-2-hexanol	---	227.66	11.071	2
15257	C8H17Cl	3-chloro-3-methylheptane	5272-02-6	231.25	22.199	2	15476	C8H18O	4,5-dimethyl-2-hexanol	---	195.24	11.494	2
15258	C8H17Cl	4-chloro-4-methylheptane	61764-94-1	231.25	22.199	2	15477	C8H18O	5,5-dimethyl-2-hexanol	31841-77-7	227.66	11.071	2
15259	C8H17Cl	3-(chloromethyl)heptane	123-04-6	231.25	22.199	2	15478	C8H18O	3-ethyl-3-hexanol	597-76-2	242.66	15.123	2
15260	C8H17Cl	2-chlorooctane	628-61-5	231.25	22.199	2	15479	C8H18O	4-ethyl-3-hexanol	19780-44-0	210.24	15.546	2
15261	C8H17Cl	2-chloro-2,4,4-trimethylpentane	6111-88-2	247.15	22.199	2	15480	C8H18O	2,2-dimethyl-3-hexanol	4209-90-9	227.66	11.071	2
15262	C8H17Cl	(S)-2-chlorooctane	16844-08-9	231.25	22.199	2	15481	C8H18O	2,3-dimethyl-3-hexanol	4166-46-5	227.66	11.071	2
15263	C8H17Cl	(<+->)-2-chlorooctane	51261-14-4	231.25	22.199	2	15482	C8H18O	2,4-dimethyl-3-hexanol	13432-25-2	195.24	11.494	2
15264	C8H17Cl	2-ethylhexyl-6-chloride	2350-24-5	231.25	22.199	2	15483	C8H18O	2,5-dimethyl-3-hexanol	19550-07-3	195.24	11.494	2
15273	C8H17F	1-fluorooctane	463-11-6	209.15	19.556	2	15484	C8H18O	3,4-dimethyl-3-hexanol	19550-08-4	227.66	11.071	2
15276	C8H17I	1-iodooctane	629-27-6	227.45	20.882	2	15485	C8H18O	3,5-dimethyl-3-hexanol	4209-91-0	227.66	11.071	2
15277	C8H17I	2-iodooctane, (±)	36049-78-2	227.45	20.882	2	15486	C8H18O	4,4-dimethyl-3-hexanol	19550-09-5	227.66	11.071	2
15278	C8H17I	2-ethylhexyl iodide	1653-16-3	227.45	20.882	2	15487	C8H18O	4,5-dimethyl-3-hexanol	---	195.24	11.494	2
15279	C8H17I	2-octyl iodide	557-36-8	227.45	20.882	2	15488	C8H18O	5,5-dimethyl-3-hexanol	66576-31-6	227.66	11.071	2
15328	C8H17NO2	1-nitrooctane	629-37-8	288.15	25.053	2	15489	C8H18O	2-propyl-1-pentanol	58175-57-8	225.24	19.597	2
15332	C8H17NO2	2-nitrooctane, (±)	116836-12-5	288.15	25.053	2	15490	C8H18O	2-isopropyl-1-pentanol	---	210.24	15.546	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
15491	C8H18O	2-methyl-2-ethyl-1-pentanol	5970-63-8	242.66	15.123	2	15642	C8H19N	diethylbutylamine	4444-68-2	200.00	19.497	2
15492	C8H18O	3-methyl-2-ethyl-1-pentanol	---	210.24	15.546	2	15643	C8H19N	N-ethyl-N-isopropyl-2-propanamine	7087-68-5	200.00	19.497	2
15493	C8H18O	4-methyl-2-ethyl-1-pentanol	106-67-2	210.24	15.546	2	15644	C8H19N	N-ethyl-N-propyl-1-propanamine	20634-92-8	200.00	19.497	2
15494	C8H18O	2-methyl-3-ethyl-1-pentanol	---	210.24	15.546	2	15645	C8H19N	2-amino-6-methylheptane	543-82-8	298.15	29.840	2
15495	C8H18O	3-methyl-3-ethyl-1-pentanol	---	242.66	15.123	2	15646	C8H19N	(S)-2-amino-6-methylheptane	70419-10-2	284.58	29.840	2
15496	C8H18O	4-methyl-3-ethyl-1-pentanol	---	210.24	15.546	2	15647	C8H19N	(R)-2-amino-6-methylheptane	70419-11-3	284.58	29.840	2
15497	C8H18O	2,2,3-trimethyl-1-pentanol	57409-53-7	227.66	11.071	2	15648	C8H19N	(S)-2-aminooctane	34566-04-6	284.58	29.840	2
15498	C8H18O	2,2,4-trimethyl-1-pentanol	123-44-4	203.15	11.071	2	15649	C8H19N	(R)-2-aminooctane	34566-05-7	284.58	29.840	2
15499	C8H18O	2,3,3-trimethyl-1-pentanol	57409-53-7	227.66	11.071	2	15650	C8H19N	2-aminooctane	693-16-3	284.58	29.840	2
15500	C8H18O	2,3,4-trimethyl-1-pentanol	6570-88-3	195.24	11.494	2	15651	C8H19N	N-isopropyl-N-methyl-tert-butylamine	85523-00-8	200.00	19.497	2
15501	C8H18O	2,4,4-trimethyl-1-pentanol	16325-63-6	227.66	11.071	2	15652	C8H19N	tert-octylamine	107-45-9	206.25	29.840	2
15502	C8H18O	3,3,4-trimethyl-1-pentanol	---	227.66	11.071	2	15688	C8H20Ge	tetraethylgermanium	597-63-7	179.99	12.312	1
15503	C8H18O	3,4,4-trimethyl-1-pentanol	16325-64-7	227.66	11.071	2	15730	C8H20Si	tetraethylsilane	631-36-7	190.60	13.410	1
15504	C8H18O	2-methyl-3-ethyl-2-pentanol	19780-63-3	227.66	11.071	2	15747	C8H23N5	tetraethylenepentamine	112-57-2	243.00	33.200	2
15505	C8H18O	3-methyl-3-ethyl-2-pentanol	66576-22-5	227.66	11.071	2	15756	C8H24O4Si4	octamethylcyclotetrasiloxane	556-67-2	290.25	23.765	1
15506	C8H18O	4-methyl-3-ethyl-2-pentanol	66576-23-6	195.24	11.494	2	15803	C9H4O5	trimellitic anhydride	552-30-7	438.15	29.037	1
15507	C8H18O	2,3,3-trimethyl-2-pentanol	23171-85-9	272.65	6.596	2	16010	C9H7N	isoquinoline	119-65-3	299.45	13.540	1
15508	C8H18O	2,3,4-trimethyl-2-pentanol	66576-26-9	212.66	7.020	2	16011	C9H7N	quinoline	91-22-5	258.25	10.660	1
15509	C8H18O	2,4,4-trimethyl-2-pentanol	690-37-9	253.15	6.596	2	16090	C9H8	indene	95-13-6	271.70	10.201	1
15510	C8H18O	3,3,4-trimethyl-2-pentanol	19411-41-7	212.66	7.020	2	16246.1	C9H8S	2-methyl benzothiophene	1195-14-8	324.65	15.400	2
15511	C8H18O	3,4,4-trimethyl-2-pentanol	10575-56-1	300.15	7.020	2	16508	C9H10	indane	496-11-7	221.77	8.598	1
15512	C8H18O	2-methyl-3-ethyl-3-pentanol	597-05-7	227.66	11.071	2	16509	C9H10	cis-1-propenylbenzene	766-90-5	211.47	13.309	2
15513	C8H18O	2,2,3-trimethyl-3-pentanol	7294-05-5	267.15	6.596	2	16510	C9H10	trans-1-propenylbenzene	873-66-5	243.82	13.309	2
15514	C8H18O	2,2,4-trimethyl-3-pentanol	5162-48-1	261.85	7.020	2	16511	C9H10	2-propenylbenzene	300-57-2	233.15	11.827	2
15515	C8H18O	2,3,4-trimethyl-3-pentanol	3054-92-0	212.66	7.020	2	16512	C9H10	alpha-methylstyrene	98-83-9	250.78	11.924	1
15516	C8H18O	3-methyl-2-isopropyl-1-butanol	18593-92-5	195.24	11.494	2	16513	C9H10	m-methylstyrene	100-80-1	186.81	11.438	2
15517	C8H18O	2,2-diethyl-1-butanol	13023-60-4	242.66	15.123	2	16514	C9H10	o-methylstyrene	611-15-4	204.58	11.438	2
15518	C8H18O	2,3-dimethyl-2-ethyl-1-butanol	---	227.66	11.071	2	16515	C9H10	p-methylstyrene	622-97-9	239.02	11.438	2
15519	C8H18O	3,3-dimethyl-2-ethyl-1-butanol	66576-56-5	227.66	11.071	2	16516	C9H10	1-propenylbenzene	637-50-3	246.05	13.102	2
15520	C8H18O	2,2,3,3-tetramethyl-1-butanol	66576-24-7	423.15	6.596	2	16519	C9H10	methylstyrene	25013-15-4	196.25	11.450	2
15521	C8H18O	3,5-dimethyl-3-hexanol, (±)	19113-78-1	216.48	14.091	2	16520	C9H10	3(4)-methylstyrene, isomers	39294-88-7	215.49	11.450	2
15522	C8H18O	2-methyl-1-heptanol, (±)	111675-77-5	161.15	14.091	2	16622	C9H10O	3,4-dihydro-1H-2-benzopyran	493-05-0	277.50	16.748	1
15523	C8H18O	5-methyl-1-heptanol, (±)	111767-95-4	169.15	14.091	2	16680	C9H10O2	benzyl acetate	140-11-4	221.65	17.476	2
15524	C8H18O	2-methyl-3-heptanol, (±)	100296-26-2	188.15	14.091	2	16707.1	C9H10O2	phenyl ethyl formate	7775-38-4	238.00	7.780	2
15525	C8H18O	6-methyl-3-heptanol, (±)	100295-85-0	212.15	14.091	2	16930	C9H11NO2	ethyl phenylcarbamate	101-99-5	326.00	16.272	1
15526	C8H18O	3-methyl-4-heptanol, (R*,S*)-(±)	92737-91-2	216.48	14.091	2	17004	C9H12	cumene	98-82-8	177.14	7.330	1
15527	C8H18O	dibutyl ether	142-96-1	177.95	16.600	2	17005	C9H12	m-ethyltoluene	620-14-4	177.61	7.600	1
15528	C8H18O	di-sec-butyl ether	6863-58-7	173.15	10.618	2	17006	C9H12	o-ethyltoluene	611-14-3	192.35	9.960	1
15529	C8H18O	di-tert-butyl ether	6163-66-2	195.00	8.380	2	17007	C9H12	p-ethyltoluene	622-96-8	210.83	12.700	1
15530	C8H18O	butyl isobutyl ether	17071-47-5	182.03	11.989	2	17008	C9H12	1,2,3-trimethylbenzene	526-73-8	247.79	8.180	1
15531	C8H18O	tert-butyl isobutyl ether	33021-02-2	182.03	11.989	2	17009	C9H12	1,2,4-trimethylbenzene	95-63-6	229.33	13.190	1
15532	C8H18O	di-sec-butyl ether, (±)	17226-28-7	182.03	11.989	2	17010	C9H12	trimethyl benzene	25551-13-7	204.65	9.764	2
15533	C8H18O	ethyl hexyl ether	5756-43-4	182.03	11.989	2	17011	C9H12	mesitylene	108-67-8	228.46	9.510	1
15534	C8H18O	1-methoxyheptane	629-32-3	182.03	11.989	2	17012	C9H12	propylbenzene	103-65-1	173.67	9.268	1
15535	C8H18O	isooctanol	26952-21-6	156.05	14.091	2	17077	C9H12O	benzyl ethyl ether	539-30-0	275.65	15.400	2
15536	C8H18O	(R)-(-)-2-octanol	5978-70-1	216.48	14.091	2	17101	C9H12O	2-propylphenol	644-35-9	280.15	20.779	2
15537	C8H18O	(S)-(+)-2-octanol	6169-06-8	216.48	14.091	2	17102	C9H12O	3-propylphenol	621-27-2	299.15	20.779	2
15538	C8H18O	octyl alcohol; mixed isomers	29063-28-3	257.25	14.091	2	17103	C9H12O	4-propylphenol	645-56-7	295.15	20.779	2
15539	C8H18O	isobutyl ether	628-55-7	182.03	11.989	2	17104	C9H12O	2-isopropylphenol	88-69-7	288.65	16.904	2
15578	C8H18O3	diethylene glycol diethyl ether	112-36-7	228.85	27.100	2	17105	C9H12O	3-isopropylphenol	618-45-1	299.15	16.904	2
15579	C8H18O3	diethylene glycol monobutyl ether	112-34-5	205.15	20.300	2	17106	C9H12O	4-isopropylphenol	99-89-8	335.15	16.904	2
15587.1	C8H18O3	dipropylene glycol monoethyl ether	30025-38-8	204.00	19.000	2	17107	C9H12O	2-methyl-3-ethylphenol	1123-73-5	344.15	20.351	2
15591	C8H18O4	triethylene glycol dimethyl ether	112-49-2	229.35	23.710	2	17108	C9H12O	2-methyl-4-ethylphenol	2219-73-0	315.11	20.351	2
15598	C8H18O5	tetraethylene glycol	112-60-7	268.15	36.600	2	17109	C9H12O	2-methyl-5-ethylphenol	1687-65-6	288.15	20.351	2
15602	C8H18S	octyl mercaptan	111-88-6	223.95	24.000	1	17110	C9H12O	2-methyl-6-ethylphenol	1687-64-5	315.11	20.351	2
15603	C8H18S	2-octanethiol	3001-66-9	194.15	20.394	2	17111	C9H12O	3-methyl-4-ethylphenol	1123-94-0	299.15	20.351	2
15604	C8H18S	tert-octyl mercaptan	141-59-3	199.00	11.497	2	17112	C9H12O	3-methyl-5-ethylphenol	698-71-5	328.15	20.351	2
15605	C8H18S	2-octanethiol, (±)	10435-81-1	194.15	18.252	2	17113	C9H12O	3-methyl-6-ethylphenol	1687-61-2	315.85	20.351	2
15606	C8H18S	dibutyl sulfide	544-40-1	198.13	19.426	1	17114	C9H12O	4-methyl-2-ethylphenol	3855-26-3	298.85	20.351	2
15607	C8H18S	methyl heptyl sulfide	20291-61-6	209.86	20.606	2	17115	C9H12O	4-methyl-3-ethylphenol	6161-67-7	306.15	20.351	2
15608	C8H18S	ethyl hexyl sulfide	7309-44-6	209.86	20.606	2	17116	C9H12O	2,3,4-trimethylphenol	526-85-2	354.15	19.923	2
15609	C8H18S	propyl pentyl sulfide	42841-80-5	209.86	20.606	2	17117	C9H12O	2,3,5-trimethylphenol	697-82-5	368.15	19.923	2
15610	C8H18S	di-sec-butyl sulfide	626-26-6	209.92	20.604	2	17118	C9H12O	2,3,6-trimethylphenol	2416-94-6	335.15	19.923	2
15611	C8H18S	di-tert-butyl sulfide	107-47-1	264.15	20.604	2	17119	C9H12O	2,4,5-trimethylphenol	496-78-6	345.15	19.923	2
15612	C8H18S	diisobutyl sulfide	592-65-4	167.65	20.604	2	17120	C9H12O	2,4,6-trimethylphenol	527-60-6	345.15	19.923	2
15614	C8H18S2	dibutyl disulfide	629-45-8	202.16	19.789	2	17121	C9H12O	3,4,5-trimethylphenol	527-54-8	381.15	19.923	2
15615	C8H18S2	di-tert-butyl disulfide	110-06-5	270.65	23.141	2	17213	C9H12S	propyl phenyl sulfide	874-79-3	228.15	17.237	2
15617	C8H18S2	disulfide, bis(2-methylpropyl)	1518-72-5	236.41	23.141	2	17214	C9H12S	isopropyl phenyl sulfide	3019-20-3	124.44	13.714	2
15618	C8H18S2	disulfide, bis(1-methylpropyl)	5943-30-6	236.41	23.141	2	17215	C9H12S	3-methyl-(1-thiapropyl)-benzene	34786-24-8	123.07	11.489	2
15631	C8H19N	octylamine	111-86-4	272.75	28.600	2	17216	C9H12S	4-methyl-(1-thiapropyl)-benzene	622-63-9	123.07	11.489	2
15632	C8H19N	2-ethylhexylamine	104-75-6	284.58	29.840	2	17217	C9H12S	2-ethyl-(1-thiaethyl)-benzene	20760-06-9	123.07	11.489	2
15633	C8H19N	6-methyl-2-heptanamine, (±)	5984-58-7	322.04	29.840	2	17218	C9H12S	3-ethyl-(1-thiaethyl)-benzene	---	123.07	11.489	2
15634	C8H19N	2-octanamine, (±)	44855-57-4	323.71	29.840	2	17219	C9H12S	4-ethyl-(1-thiaethyl)-benzene	---	123.07	11.489	2
15635	C8H19N	methylheptylamine	36343-05-2	207.15	17.478	2	17220	C9H12S	2,3-dimethyl-(1-thiaethyl)-benzene	---	106.70	11.489	2
15636	C8H19N	ethylhexylamine	20352-67-4	207.15	17.478	2	17221	C9H12S	2,4-dimethyl-(1-thiaethyl)-benzene	---	106.70	11.489	2
15637	C8H19N	dibutylamine	111-92-2	211.15	19.000	2	17222	C9H12S	2,5-dimethyl-(1-thiaethyl)-benzene	---	106.70	11.489	2
15638	C8H19N	diisobutylamine	110-96-3	203.15	16.000	2	17223	C9H12S	2,6-dimethyl-(1-thiaethyl)-benzene	---	106.70	11.489	2
15639	C8H19N	di-sec-butylamine	626-23-3	207.15	17.478	2	17224	C9H12S	3,4-dimethyl-(1-thiaethyl)-benzene	---	106.70	11.489	2
15640	C8H19N	N-methyl-2-heptanamine	540-43-2	207.15	17.478	2	17225	C9H12S	3,5-dimethyl-(1-thiaethyl)-benzene	---	106.70	11.489	2
15641	C8H19N	dimethylhexylamine	4385-04-0	200.00	19.497	2	17268	C9H13N	2-ethyl-6-methylaniline	24549-06-2	240.15	10.345	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
17269	C9H13N	N-ethyl-2-methylaniline	94-68-8	266.28	11.470	2	17897	C9H18	1,trans-3-dimethyl-cis-4-ethylcyclopentane	---	193.11	15.143	2
17270	C9H13N	N-ethyl-3-methylaniline	102-27-2	266.28	11.470	2	17898	C9H18	1,trans-3-dimethyl-trans-4-ethylcyclopentane	---	193.11	15.143	2
17271	C9H13N	N-ethyl-4-methylaniline	622-57-1	266.28	11.470	2	17899	C9H18	1,1,2,2-tetramethylcyclopentane	52688-89-8	245.15	8.845	2
17272	C9H13N	N-ethyl-N-methylaniline	613-97-8	266.28	11.470	2	17900	C9H18	1,1,cis-2,cis-3-tetramethylcyclopentane	62016-70-0	217.01	8.845	2
17273	C9H13N	2-isopropylaniline	643-28-7	266.28	11.470	2	17901	C9H18	1,1,cis-2,trans-3-tetramethylcyclopentane	---	217.01	8.845	2
17274	C9H13N	4-isopropylaniline	99-88-7	266.28	11.470	2	17902	C9H18	1,1,cis-2,cis-4-tetramethylcyclopentane	62016-72-2	217.01	8.845	2
17275	C9H13N	N-isopropylaniline	768-52-5	266.28	11.470	2	17903	C9H18	1,1,cis-2,trans-4-tetramethylcyclopentane	---	217.01	8.845	2
17276	C9H13N	2-methyl-N,N-dimethylaniline	609-72-3	213.15	11.470	2	17904	C9H18	1,1,3,3-tetramethylcyclopentane	50876-33-0	184.86	8.845	2
17277	C9H13N	3-methyl-N,N-dimethylaniline	121-72-2	266.28	11.470	2	17905	C9H18	1,1,cis-3,cis-4-tetramethylcyclopentane	20309-77-7	166.75	8.845	2
17278	C9H13N	4-methyl-N,N-dimethylaniline	99-97-8	266.28	11.470	2	17906	C9H18	1,1,cis-3,trans-4-tetramethylcyclopentane	---	217.01	8.845	2
17279	C9H13N	2-propylaniline	1821-39-2	266.28	11.470	2	17907	C9H18	1,2,2,cis-3-tetramethylcyclopentane	62016-73-3	217.01	8.845	2
17280	C9H13N	N-propylaniline	622-80-0	266.28	11.470	2	17908	C9H18	1,2,2,trans-3-tetramethylcyclopentane	---	217.01	8.845	2
17281	C9H13N	2,4,5-trimethylaniline	137-17-7	341.15	11.470	2	17909	C9H18	1,cis-2,cis-3,cis-4-tetramethylcyclopentane	2532-65-2	188.87	16.214	2
17282	C9H13N	2,4,6-trimethylaniline	88-05-1	270.65	11.470	2	17910	C9H18	1,cis-2,cis-3,trans-4-tetramethylcyclopentane	2532-69-6	188.87	16.214	2
17395.3	C9H14	propenyl cyclohexene	13511-13-2	199.00	12.100	2	17911	C9H18	1,cis-2,trans-3,cis-4-tetramethylcyclopentane	2532-68-5	188.87	16.214	2
17513	C9H14O6	glyceryl triacetate	102-76-1	275.25	25.800	1	17912	C9H18	1,cis-2,trans-3,trans-4-tetramethylcyclopent*	2532-64-1	188.87	16.214	2
17518.1	C9H14O7	trilatic acid	78024-33-6	312.15	26.300	2	17913	C9H18	1,trans-2,cis-3,trans-4-tetramethylcyclopent*	2532-67-4	188.87	16.214	2
17590	C9H16	1-butylcyclopentene	2423-01-0	184.75	14.223	2	17914	C9H18	1,trans-2,trans-3,cis-4-tetramethylcyclopent*	19907-40-5	188.87	16.214	2
17591	C9H16	4-isopropyl-1-methylcyclopentene	90769-70-3	184.75	14.223	2	17915	C9H18	1-methyl-2-isopropylcyclopentane	89223-57-4	195.55	11.843	2
17592	C9H16	3-methyl-1-isopropylcyclopentene	51115-02-7	184.75	14.223	2	17916	C9H18	propylcyclohexane	1678-92-8	178.28	10.370	1
17593	C9H16	1-nonyne	3452-09-3	223.16	22.040	2	17917	C9H18	isopropylcyclohexane	696-29-7	183.76	7.378	2
17594	C9H16	2-nonyne	19447-29-1	296.79	22.186	2	17918	C9H18	1-methyl-1-ethylcyclohexane	4926-90-3	221.97	4.603	2
17595	C9H16	3-nonyne	20184-89-8	296.79	22.186	2	17919	C9H18	1-methyl-cis-2-ethylcyclohexane	4923-77-7	193.83	11.972	2
17596	C9H16	4-nonyne	20184-91-2	272.25	22.530	2	17920	C9H18	1-methyl-trans-2-ethylcyclohexane	4923-78-8	193.83	11.972	2
17597	C9H16	7-methyl-3-octyne	37050-06-9	272.25	22.530	2	17921	C9H18	1-methyl-cis-3-ethylcyclohexane	19489-10-2	193.83	11.972	2
17598	C9H16	2,6-dimethyl-3-heptyne	19549-97-4	272.25	22.530	2	17922	C9H18	1-methyl-trans-3-ethylcyclohexane	4926-76-5	193.83	11.972	2
17599	C9H16	5,5-dimethyl-3-heptyne	23097-98-5	272.25	22.530	2	17923	C9H18	1-methyl-cis-4-ethylcyclohexane	4926-78-7	193.83	11.972	2
17755	C9H16O4	azelaic acid	123-99-9	379.65	39.352	2	17924	C9H18	1-methyl-trans-4-ethylcyclohexane	6236-88-0	192.35	11.972	2
17785	C9H17Br	cis-1-bromo-1-nonene	39924-58-8	245.41	24.553	2	17925	C9H18	1,1,2-trimethylcyclohexane	7094-26-0	244.15	5.674	2
17786	C9H17Br	trans-1-bromo-1-nonene	53434-75-6	245.41	24.553	2	17926	C9H18	1,1,3-trimethylcyclohexane	3073-66-3	207.40	5.674	2
17790	C9H17Br3	1,1,1-tribromononane	62127-66-6	372.51	27.507	2	17927	C9H18	1,1,4-trimethylcyclohexane	7094-27-1	217.73	5.674	2
17791	C9H17Cl	cis-1-chloro-1-nonene	66688-72-0	215.53	23.465	2	17928	C9H18	1,2,3-trimethylcyclohexane	1678-97-3	197.59	11.050	2
17792	C9H17Cl	trans-1-chloro-1-nonene	66688-73-1	215.53	23.465	2	17929	C9H18	1,cis-2,cis-3-trimethylcyclohexane	1839-88-9	188.15	13.043	2
17793	C9H17Cl	(3-chloropropyl)cyclohexane	1124-62-5	220.35	23.640	2	17930	C9H18	1,cis-2,trans-3-trimethylcyclohexane	7667-55-2	187.45	13.043	2
17804	C9H17Cl3	1,1,1-trichlorononane	1071-84-7	282.87	24.243	2	17931	C9H18	1,trans-2,cis-3-trimethylcyclohexane	1678-81-5	206.25	13.043	2
17805	C9H17F	cis-1-fluoro-1-nonene	66688-74-2	217.76	22.348	2	17932	C9H18	1,2,4-trimethylcyclohexane, isomers	2234-75-5	186.85	11.050	2
17806	C9H17F	trans-1-fluoro-1-nonene	66688-75-3	217.76	22.348	2	17933	C9H18	1,cis-2,cis-4-trimethylcyclohexane	1678-80-4	195.65	13.043	2
17808	C9H17F3	1,1,1-trifluorononane	55757-34-1	289.56	20.892	2	17934	C9H18	1,cis-2,trans-4-trimethylcyclohexane	7667-58-5	181.35	13.043	2
17809	C9H17I	cis-1-iodo-1-nonene	27370-94-1	243.67	23.674	2	17935	C9H18	1,trans-2,cis-4-trimethylcyclohexane	7667-59-6	187.15	13.043	2
17810	C9H17I	trans-1-iodo-1-nonene	26143-08-8	243.67	23.674	2	17936	C9H18	1,trans-2,trans-4-trimethylcyclohexane	7667-60-9	187.15	13.043	2
17812	C9H17I3	1,1,1-triiodononane	---	367.29	24.870	2	17937	C9H18	1,3,5,-trimethylcyclohexane	1839-63-0	197.59	11.050	2
17813	C9H17N	nonanenitrile	2243-27-8	238.95	20.572	2	17938	C9H18	cis,cis-1,3,5-trimethylcyclohexane	1795-27-3	223.46	13.043	2
17859	C9H18	butylcyclopentane	2040-95-1	165.18	11.314	1	17939	C9H18	cis,trans-1,3,5-trimethylcyclohexane	1795-26-2	188.76	13.043	2
17860	C9H18	isobutylcyclopentane	3788-32-7	157.93	9.478	2	17940	C9H18	1-ethyl-2-methylcyclohexane	3728-54-9	197.59	11.050	2
17861	C9H18	sec-butylcyclopentane	4850-32-2	186.59	9.478	2	17941	C9H18	cyclononane	293-55-0	284.15	1.933	1
17862	C9H18	tert-butylcyclopentane	3875-52-3	177.35	5.587	2	17942	C9H18	1-nonene	124-11-8	191.78	17.991	1
17863	C9H18	1-methyl-1-propylcyclopentane	16631-63-3	225.49	6.703	2	17943	C9H18	trans-2-nonene	6434-78-2	183.97	16.382	2
17864	C9H18	1-methyl-cis-2-propylcyclopentane	932-43-4	169.15	14.072	2	17944	C9H18	trans-3-nonene	20063-92-7	183.97	16.382	2
17865	C9H18	1-methyl-trans-2-propylcyclopentane	932-44-5	153.15	14.072	2	17945	C9H18	4-nonene; (cis+trans)	2198-23-4	183.97	16.382	2
17866	C9H18	1-methyl-cis-3-propylcyclopentane	2443-04-1	197.35	14.072	2	17946	C9H18	2-methyl-1-octene	4588-18-5	195.47	16.476	2
17867	C9H18	1-methyl-trans-3-propylcyclopentane	2443-03-0	197.35	14.072	2	17947	C9H18	3-methyl-2-octene	113426-22-5	183.97	16.382	2
17868	C9H18	1-methyl-1-isopropylcyclopentane	61828-00-0	210.49	3.180	2	17948	C9H18	7-methyl-3-octene	86668-33-9	183.97	16.382	2
17869	C9H18	1-methyl-cis-2-isopropylcyclopentane	61868-01-7	182.35	10.549	2	17948.1	C9H18	7-methyl-1-octene	13151-06-9	194.00	15.000	2
17870	C9H18	1-methyl-trans-2-isopropylcyclopentane	61828-01-1	182.35	10.549	2	17949	C9H18	2-methyl-4-octene	64501-77-5	183.97	16.382	2
17871	C9H18	1-methyl-cis-3-isopropylcyclopentane	61828-02-2	182.35	10.549	2	17950	C9H18	2,3-dimethyl-2-heptene	3074-64-4	164.65	16.382	2
17872	C9H18	1-methyl-trans-3-isopropylcyclopentane	61828-03-3	182.35	10.549	2	17951	C9H18	2,6-dimethylhept-3-ene	2738-18-3	183.97	16.382	2
17873	C9H18	1,1-diethylcyclopentane	2721-38-2	177.55	6.703	2	17955	C9H18Br2	1,1-dibromononane	62168-27-8	295.29	26.113	2
17874	C9H18	1,cis-2-diethylcyclopentane	932-39-8	155.15	14.072	2	17956	C9H18Br2	1,2-dibromononane	73642-91-8	272.97	24.139	2
17875	C9H18	1,trans-2-diethylcyclopentane	932-40-1	178.15	14.072	2	17957	C9H18Br2	1,9-dibromononane	4549-33-1	250.65	24.139	2
17876	C9H18	1,3-diethylcyclopentane	19398-75-5	195.55	11.843	2	17959	C9H18Cl2	1,1-dichlorononane	821-88-5	235.53	23.937	2
17877	C9H18	1,cis-3-diethylcyclopentane	62016-59-5	197.35	14.072	2	17960	C9H18Cl2	2,6-dichloro-2,6-dimethylheptane	35951-36-1	316.15	28.034	2
17878	C9H18	1,trans-3-diethylcyclopentane	62016-60-8	197.35	14.072	2	17961	C9H18Cl2	1,9-dichlorononane	821-99-8	275.84	28.034	2
17879	C9H18	1,1-dimethyl-2-ethylcyclopentane	54549-80-3	221.25	7.774	2	17964	C9H18F2	1,1-difluorononane	62127-42-8	239.99	21.703	2
17880	C9H18	1,1-dimethyl-3-ethylcyclopentane	62016-61-9	221.25	7.774	2	17967	C9H18I2	1,1-diiodononane	66703-05-7	291.81	24.355	2
17881	C9H18	1,cis-2-dimethyl-1-ethylcyclopentane	62016-63-1	221.25	7.774	2	17997	C9H18O	1-nonanal	124-19-6	255.15	30.500	1
17882	C9H18	1,trans-2-dimethyl-1-ethylcyclopentane	62016-62-0	221.25	7.774	2	17998	C9H18O	diisobutyl ketone	108-83-8	227.17	17.705	2
17883	C9H18	1,cis-2-dimethyl-cis-3-ethylcyclopentane	---	193.11	15.143	2	17999	C9H18O	2-nonanone	821-55-6	265.65	26.865	2
17884	C9H18	1,cis-2-dimethyl-trans-3-ethylcyclopentane	---	193.11	15.143	2	18000	C9H18O	di-tert-butyl ketone	815-24-7	247.95	22.835	2
17885	C9H18	1,trans-2-dimethyl-cis-3-ethylcyclopentane	---	193.11	15.143	2	18001	C9H18O	3,5-dimethyl-4-heptanone	19549-84-9	255.05	22.835	2
17886	C9H18	1,trans-2-dimethyl-trans-3-ethylcyclopentane	---	193.11	15.143	2	18002	C9H18O	3-methyl-2-octanone	6137-08-2	255.05	22.835	2
17887	C9H18	1,cis-2-dimethyl-cis-4-ethylcyclopentane	62016-64-2	193.11	15.143	2	18003	C9H18O	3-methyl-4-octanone	20754-04-5	255.05	22.835	2
17888	C9H18	1,cis-2-dimethyl-trans-4-ethylcyclopentane	62016-65-3	193.11	15.143	2	18004	C9H18O	4-methyl-3-octanone	6137-15-1	255.05	22.835	2
17889	C9H18	1,trans-2-dimethyl-cis-4-ethylcyclopentane	62016-66-4	193.11	15.143	2	18005	C9H18O	5-methyl-2-octanone	58654-67-4	255.05	22.835	2
17890	C9H18	1,cis-3-dimethyl-1-ethylcyclopentane	62016-68-6	221.25	7.774	2	18006	C9H18O	7-methyl-3-octanone	5408-57-1	255.05	22.835	2
17891	C9H18	1,trans-3-dimethyl-1-ethylcyclopentane	62016-67-5	221.25	7.774	2	18007	C9H18O	7-methyl-4-octanone	20809-46-5	255.05	22.835	2
17892	C9H18	1,cis-3-dimethyl-cis-2-ethylcyclopentane	19903-00-5	193.11	15.143	2	18008	C9H18O	3-nonanone	925-78-0	265.15	22.835	2
17893	C9H18	1,cis-3-dimethyl-trans-2-ethylcyclopentane	19902-98-8	193.11	15.143	2	18009	C9H18O	4-nonanone	4485-09-0	255.05	22.835	2
17894	C9H18	1,trans-3-dimethyl-cis-2-ethylcyclopentane	19902-99-9	193.11	15.143	2	18010	C9H18O	5-nonanone	502-56-7	269.35	22.835	2
17895	C9H18	1,cis-3-dimethyl-cis-4-ethylcyclopentane	---	193.11	15.143	2	18044	C9H18O	3,5,5-trimethylhexanal	5435-64-3	255.15	30.500	2
17896	C9H18	1,cis-3-dimethyl-trans-4-ethylcyclopentane	---	193.11	15.143	2	18045	C9H18O	2,6-dimethyl-3-heptanone	19549-83-8	255.05	22.835	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
18047	C9H18O	2-methyl-3-octanone	923-28-4	255.05	22.835	2	18208	C9H20	2,2,4,4-tetramethylpentane	1070-87-7	206.61	9.744	1
18048	C9H18O	2-methyloctanal	7786-29-0	255.15	30.500	2	18209	C9H20	2,3,3,4-tetramethylpentane	16747-38-9	171.10	4.606	2
18052	C9H18O2	nonanoic acid	112-05-0	285.55	19.820	1	18210	C9H20	3,3-dimethylheptane	4032-86-4	170.97	11.194	2
18053	C9H18O2	2-ethylheptanoic acid	3274-29-1	285.55	19.820	2	18225	C9H20N2O	tetraethylurea	1187-03-7	253.00	20.550	1
18054	C9H18O2	3-ethyl-3-methylhexanoic acid	50902-82-4	285.55	19.820	2	18236	C9H20O	1-nonanol	143-08-8	268.15	28.800	2
18055	C9H18O2	2-ethyl-3-methylhexanoic acid	74581-94-5	285.55	19.820	2	18237	C9H20O	2-nonanol	628-99-9	238.15	22.576	2
18056	C9H18O2	3-methyloctanoic acid	6061-10-5	285.55	19.820	2	18238	C9H20O	2-nonanol, (±)	74683-66-2	238.15	15.817	2
18057	C9H18O2	2-methyloctanoic acid	3004-93-1	285.55	19.820	2	18239	C9H20O	3-nonanol	624-51-1	295.15	22.576	2
18058	C9H18O2	octyl formate	112-32-3	234.05	25.117	2	18240	C9H20O	3-nonanol, (±)	74742-08-8	295.15	15.817	2
18059	C9H18O2	heptyl acetate	112-06-1	222.95	23.435	2	18241	C9H20O	4-nonanol	5932-79-6	236.51	22.576	2
18060	C9H18O2	4-heptyl acetate	5921-84-6	222.95	23.435	2	18242	C9H20O	4-nonanol, (S)	52708-03-9	240.06	15.817	2
18061	C9H18O2	hexyl propanoate	2445-76-3	215.65	23.435	2	18243	C9H20O	5-nonanol	623-93-8	278.75	22.576	2
18062	C9H18O2	pentyl butanoate	540-18-1	200.15	23.435	2	18244	C9H20O	2-methyl-1-octanol	818-81-5	236.51	22.576	2
18063	C9H18O2	1-methylbutyl butanoate	60415-61-4	218.02	19.912	2	18245	C9H20O	3-methyl-1-octanol	38514-02-2	236.51	22.576	2
18064	C9H18O2	2-methylbutyl butanoate	51115-64-1	218.02	19.912	2	18246	C9H20O	4-methyl-1-octanol	38514-03-3	236.51	22.576	2
18065	C9H18O2	3-methylbutyl butanoate	106-27-4	218.02	19.912	2	18247	C9H20O	5-methyl-1-octanol	38514-04-4	236.51	22.576	2
18066	C9H18O2	1-ethylpropyl butanoate	---	218.02	19.912	2	18248	C9H20O	6-methyl-1-octanol	38514-05-5	236.51	22.576	2
18067	C9H18O2	1,1-dimethylpropyl butanoate	2050-00-2	235.44	16.021	2	18249	C9H20O	7-methyl-1-octanol	2430-22-0	337.65	22.576	2
18068	C9H18O2	1,2-dimethylpropyl butanoate	88736-68-9	203.02	16.389	2	18250	C9H20O	2-methyl-2-octanol	628-44-4	253.93	18.101	2
18069	C9H18O2	2,2-dimethylpropyl butanoate	23361-69-5	235.44	16.021	2	18251	C9H20O	3-methyl-2-octanol	27644-49-1	221.51	18.524	2
18070	C9H18O2	isopentyl 2-methylpropanoate	2050-01-3	215.65	23.435	2	18252	C9H20O	5-methyl-2-octanol	66793-81-5	221.51	18.524	2
18071	C9H18O2	butyl valerate	591-68-4	180.35	16.000	2	18253	C9H20O	7-methyl-2-octanol	66793-83-7	221.51	18.524	2
18072	C9H18O2	butyl 2-methylbutanoate	15706-73-7	218.27	19.077	2	18254	C9H20O	2-methyl-3-octanol	26533-34-6	221.51	18.524	2
18073	C9H18O2	butyl 3-methylbutanoate	109-19-3	218.27	19.077	2	18255	C9H20O	3-methyl-3-octanol	5340-36-3	253.93	18.101	2
18074	C9H18O2	sec-butyl pentanoate	116836-32-9	206.25	18.298	2	18256	C9H20O	4-methyl-3-octanol	66793-80-4	221.51	18.524	2
18075	C9H18O2	isobutyl 3-methylbutanoate	589-59-3	218.27	19.077	2	18257	C9H20O	6-methyl-3-octanol	40225-75-0	221.51	18.524	2
18076	C9H18O2	propyl hexanoate	626-77-7	204.45	18.298	2	18258	C9H20O	7-methyl-3-octanol	66793-84-8	221.51	18.524	2
18077	C9H18O2	isobutyl pentanoate	10588-10-0	206.25	18.298	2	18259	C9H20O	2-methyl-4-octanol	40575-41-5	221.51	18.524	2
18078	C9H18O2	ethyl heptanoate	106-30-9	207.05	18.298	2	18260	C9H20O	3-methyl-4-octanol	26533-35-7	221.51	18.524	2
18079	C9H18O2	ethyl 3-methylhexanoate	41692-47-1	206.25	18.298	2	18261	C9H20O	4-methyl-4-octanol	23418-37-3	253.93	18.101	2
18080	C9H18O2	ethyl 4-methylhexanoate	1561-10-0	206.25	18.298	2	18262	C9H20O	5-methyl-4-octanol	59734-23-5	221.51	18.524	2
18081	C9H18O2	methyl octanoate	111-11-5	233.15	18.298	2	18263	C9H20O	6-methyl-4-octanol	66793-82-6	221.51	18.524	2
18082	C9H18O2	3,5,5-trimethylhexanoic acid	3302-10-1	285.55	19.820	2	18264	C9H20O	7-methyl-4-octanol	33933-77-6	221.51	18.524	2
18083	C9H18O2	7-methyloctanoic acid	693-19-6	285.55	19.820	2	18265	C9H20O	2-ethyl-1-heptanol	817-60-7	236.51	22.576	2
18087	C9H18O2	4-octanecarboxylic acid	3274-28-0	285.55	19.820	2	18266	C9H20O	3-ethyl-1-heptanol	3525-25-5	236.51	22.576	2
18099.1	C9H18O3	triacetone alcohol	3682-91-5	330.40	28.500	2	18267	C9H20O	5-ethyl-1-heptanol	998-65-2	236.51	22.576	2
18115	C9H19Br	1-bromononane	693-58-3	244.15	30.120	1	18268	C9H20O	2,2-dimethyl-1-heptanol	14250-79-4	253.93	18.101	2
18117	C9H19Cl	1-chlorononane	2473-01-0	233.75	23.263	2	18269	C9H20O	4,6-dimethyl-1-heptanol	820-05-3	221.51	18.524	2
18118	C9H19Cl	3-chloro-3-ethyl-2,2-dimethylpentane	86661-53-2	233.75	23.263	2	18270	C9H20O	6,6-dimethyl-1-heptanol	65769-10-0	253.93	18.101	2
18119	C9H19Cl	3-chloro-3-ethylheptane	28320-89-0	233.75	23.263	2	18271	C9H20O	2-ethyl-2-heptanol	5340-36-3	253.93	18.101	2
18120	C9H19Cl	3-chloro-3-methyloctane	28320-88-9	233.75	23.263	2	18272	C9H20O	3-ethyl-2-heptanol	19780-39-3	221.51	18.524	2
18121	C9H19Cl	4-chloro-4-methyloctane	36903-89-6	233.75	23.263	2	18273	C9H20O	2,3-dimethyl-2-heptanol	66794-00-1	238.93	14.050	2
18122	C9H19Cl	2-chlorononane	2216-36-6	233.75	23.263	2	18274	C9H20O	2,4-dimethyl-2-heptanol	65822-93-7	238.93	14.050	2
18123	C9H19Cl	5-chlorononane	28123-70-8	233.75	23.263	2	18275	C9H20O	2,5-dimethyl-2-heptanol	---	238.93	14.050	2
18124	C9H19Cl	3-chloro-2,2,3-trimethylhexane	102449-95-6	233.75	23.263	2	18276	C9H20O	2,6-dimethyl-2-heptanol	13254-34-7	238.93	14.050	2
18127	C9H19F	1-fluorononane	463-18-3	233.15	22.146	2	18277	C9H20O	4,6-dimethyl-2-heptanol	51079-52-8	206.51	14.473	2
18129	C9H19I	1-iodononane	4282-42-2	253.15	23.472	2	18278	C9H20O	5,6-dimethyl-2-heptanol	58795-24-7	206.51	14.473	2
18155	C9H19NO2	1-nitrononane	2216-21-9	334.30	27.384	2	18279	C9H20O	3-ethyl-3-heptanol	19780-41-7	253.93	18.101	2
18176	C9H20	nonane	111-84-2	219.63	15.468	1	18280	C9H20O	2,2-dimethyl-3-heptanol	19549-70-3	238.93	14.050	2
18177	C9H20	2-methyloctane	3221-61-2	192.78	18.000	1	18281	C9H20O	2,3-dimethyl-3-heptanol	19549-71-4	238.93	14.050	2
18178	C9H20	3-methyloctane	2216-33-3	165.55	17.000	1	18282	C9H20O	2,6-dimethyl-3-heptanol	19549-73-6	206.51	14.473	2
18179	C9H20	4-methyloctane	2216-34-4	159.95	16.000	1	18283	C9H20O	3,5-dimethyl-3-heptanol	19549-74-7	238.93	14.050	2
18180	C9H20	3-ethylheptane	15869-80-4	158.25	16.000	1	18284	C9H20O	3,6-dimethyl-3-heptanol	1573-28-0	238.93	14.050	2
18181	C9H20	4-ethylheptane	2216-32-2	159.96	15.000	1	18285	C9H20O	4-ethyl-4-heptanol	597-90-0	253.93	18.101	2
18182	C9H20	2,2-dimethylheptane	1071-26-7	160.15	8.950	1	18286	C9H20O	2,2-dimethyl-4-heptanol	66793-99-5	238.93	14.050	2
18183	C9H20	2,3-dimethylheptane	3074-71-3	160.16	14.000	1	18287	C9H20O	2,4-dimethyl-4-heptanol	19549-77-0	238.93	14.050	2
18184	C9H20	2,4-dimethylheptane	2213-23-2	160.16	12.000	1	18288	C9H20O	2,6-dimethyl-4-heptanol	108-82-7	208.00	14.473	2
18185	C9H20	2,5-dimethylheptane	2216-30-0	160.16	12.000	1	18289	C9H20O	3,3-dimethyl-4-heptanol	19549-78-1	238.93	14.050	2
18186	C9H20	2,6-dimethylheptane	1072-05-5	170.25	13.000	1	18290	C9H20O	3,5-dimethyl-4-heptanol	19549-79-2	206.51	14.473	2
18187	C9H20	3,4-dimethylheptane	922-28-1	170.26	13.000	1	18291	C9H20O	2-propyl-1-hexanol	817-46-9	236.51	22.576	2
18188	C9H20	3,5-dimethylheptane	926-82-9	170.26	11.200	1	18292	C9H20O	3-propyl-1-hexanol	66793-85-9	236.51	22.576	2
18189	C9H20	4,4-dimethylheptane	1068-19-5	170.26	10.100	1	18293	C9H20O	1-methyl-2-ethyl-1-hexanol	---	221.51	18.524	2
18190	C9H20	3-ethyl-2-methylhexane	16789-46-1	160.16	13.000	1	18294	C9H20O	1-methyl-3-ethyl-1-hexanol	---	221.51	18.524	2
18191	C9H20	4-ethyl-2-methylhexane	3074-75-7	160.16	12.020	2	18295	C9H20O	3-methyl-2-ethyl-1-hexanol	66794-04-5	221.51	18.524	2
18192	C9H20	3-ethyl-3-methylhexane	3074-76-8	160.16	11.000	1	18296	C9H20O	4-methyl-2-ethyl-1-hexanol	66794-06-7	221.51	18.524	2
18193	C9H20	3-ethyl-4-methylhexane	3074-77-9	160.16	12.300	1	18297	C9H20O	5-methyl-2-ethyl-1-hexanol	66794-07-8	221.51	18.524	2
18194	C9H20	2,2,3-trimethylhexane	16747-25-4	153.16	10.300	1	18298	C9H20O	3,3,5-trimethyl-1-hexanol	1484-87-3	238.93	14.050	2
18195	C9H20	2,2,4-trimethylhexane	16747-26-5	153.00	11.700	1	18299	C9H20O	3,4,4-trimethyl-1-hexanol	66793-73-5	238.93	14.050	2
18196	C9H20	2,2,5-trimethylhexane	3522-94-9	167.39	6.200	1	18300	C9H20O	3,5,5-trimethyl-1-hexanol	3452-97-9	238.93	14.050	2
18197	C9H20	2,3,3-trimethylhexane	16747-28-7	156.36	9.100	1	18301	C9H20O	4,5,5-trimethyl-1-hexanol	66793-75-7	238.93	14.050	2
18198	C9H20	2,3,4-trimethylhexane	921-47-1	156.36	10.700	1	18302	C9H20O	2-methyl-3-ethyl-2-hexanol	66794-02-3	238.93	14.050	2
18199	C9H20	2,3,5-trimethylhexane	1069-53-0	145.36	10.000	1	18303	C9H20O	2,3,4-trimethyl-2-hexanol	21102-13-6	223.93	9.998	2
18200	C9H20	2,4,4-trimethylhexane	16747-30-1	159.78	11.300	1	18304	C9H20O	2,4,4-trimethyl-2-hexanol	66793-91-7	256.35	9.575	2
18201	C9H20	3,3,4-trimethylhexane	16747-31-2	171.96	8.100	1	18305	C9H20O	2,4,5-trimethyl-2-hexanol	66793-93-9	223.93	9.998	2
18202	C9H20	3,3-diethylpentane	1067-20-5	240.12	10.090	1	18306	C9H20O	2,5,5-trimethyl-2-hexanol	66793-71-3	256.35	9.575	2
18203	C9H20	2,2-dimethyl-3-ethylpentane	16747-32-3	173.68	10.200	1	18307	C9H20O	2-methyl-3-ethyl-3-hexanol	66794-03-4	238.93	14.050	2
18204	C9H20	2,3-dimethyl-3-ethylpentane	16747-33-4	173.67	11.000	1	18308	C9H20O	2-methyl-4-ethyl-3-hexanol	33943-21-4	206.51	14.473	2
18205	C9H20	2,4-dimethyl-3-ethylpentane	1068-87-7	150.79	7.200	1	18309	C9H20O	3-methyl-4-ethyl-3-hexanol	66794-05-6	238.93	14.050	2
18206	C9H20	2,2,3,3-tetramethylpentane	7154-79-2	263.26	2.330	1	18310	C9H20O	4-methyl-3-ethyl-3-hexanol	51200-80-7	238.93	14.050	2
18207	C9H20	2,2,3,4-tetramethylpentane	1186-53-4	152.06	0.500	1	18311	C9H20O	5-methyl-3-ethyl-3-hexanol	597-77-3	238.93	14.050	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
18312	C9H20O	2,2,3-trimethyl-3-hexanol	5340-41-0	256.35	9.575	2	19467	C10H12N2S	N-allyl-N'-phenylthiourea	7341-63-1	375.00	27.614	1
18313	C9H20O	2,2,4-trimethyl-3-hexanol	66793-89-3	223.93	9.998	2	19484	C10H12O	anethole	104-46-1	294.50	16.010	1
18314	C9H20O	2,2,5-trimethyl-3-hexanol	3970-60-3	290.15	9.998	2	19812	C10H13NO2	propyl N-phenylcarbamate	5532-90-1	331.00	21.079	1
18315	C9H20O	2,3,4-trimethyl-3-hexanol	66793-90-6	223.93	9.998	2	19865	C10H14	butylbenzene	104-51-8	185.30	11.220	1
18316	C9H20O	2,3,5-trimethyl-3-hexanol	65927-60-8	223.93	9.998	2	19866	C10H14	isobutylbenzene	538-93-2	221.70	12.510	1
18317	C9H20O	2,4,4-trimethyl-3-hexanol	66793-92-8	223.93	9.998	2	19867	C10H14	sec-butylbenzene	135-98-8	197.72	9.832	1
18318	C9H20O	2,5,5-trimethyl-3-hexanol	66793-72-4	223.93	9.998	2	19868	C10H14	tert-butylbenzene	98-06-6	215.00	8.397	1
18319	C9H20O	3,4,4-trimethyl-3-hexanol	66793-74-6	296.65	9.575	2	19869	C10H14	cymene	25155-15-1	205.25	12.283	2
18320	C9H20O	3,5,5-trimethyl-3-hexanol	66810-87-5	256.35	9.575	2	19870	C10H14	m-cymene	535-77-3	209.44	13.682	1
18321	C9H20O	4-methyl-2-propyl-1-pentanol	54004-41-0	222.88	18.524	2	19871	C10H14	o-cymene	527-84-4	201.64	10.000	1
18322	C9H20O	4-methyl-2-isopropyl-1-pentanol	55505-24-3	205.14	14.050	2	19872	C10H14	p-cymene	99-87-6	204.20	9.661	1
18323	C9H20O	2,2-dimethyl-3-ethyl-1-pentanol	66793-95-1	238.93	14.050	2	19873	C10H14	1-methyl-2-propylbenzene	1074-17-5	212.85	14.771	1
18324	C9H20O	2,4-dimethyl-2-ethyl-1-pentanol	66793-98-4	238.93	14.050	2	19874	C10H14	1-methyl-3-propylbenzene	1074-43-7	190.57	10.587	1
18325	C9H20O	3,3-diethyl-2-pentanol	66793-94-0	238.93	14.050	2	19875	C10H14	1-methyl-4-propylbenzene	1074-55-1	212.46	11.507	1
18326	C9H20O	2,3-dimethyl-3-ethyl-2-pentanol	66793-97-3	256.35	9.575	2	19876	C10H14	(S)-(1-methylpropyl)benzene	5787-28-0	221.30	12.283	2
18327	C9H20O	4,4-dimethyl-3-ethyl-2-pentanol	21102-09-0	223.93	9.998	2	19877	C10H14	diethylbenzene	25340-17-4	221.30	12.283	2
18328	C9H20O	2,3,3,4-tetramethyl-2-pentanol	66793-86-0	241.35	5.523	2	19878	C10H14	o-diethylbenzene	135-01-3	241.93	16.778	1
18329	C9H20O	2,3,4,4-tetramethyl-2-pentanol	66793-87-1	241.35	5.523	2	19879	C10H14	m-diethylbenzene	141-93-5	189.26	10.966	1
18330	C9H20O	3,3,4,4-tetramethyl-2-pentanol	66793-88-2	323.15	5.523	2	19880	C10H14	p-diethylbenzene	105-05-5	230.32	10.586	1
18331	C9H20O	2-methyl-3-isopropyl-3-pentanol	---	222.56	9.998	2	19881	C10H14	3-ethyl-o-xylene	933-98-2	223.64	13.640	1
18332	C9H20O	2,2-dimethyl-3-ethyl-3-pentanol	66793-96-2	254.15	9.575	2	19882	C10H14	4-ethyl-o-xylene	934-80-5	206.22	12.050	1
18333	C9H20O	2,4-dimethyl-3-ethyl-3-pentanol	3970-59-0	257.15	9.998	2	19883	C10H14	2-ethyl-m-xylene	2870-04-4	256.89	14.710	1
18334	C9H20O	2,2,3,4-tetramethyl-3-pentanol	62185-29-9	285.95	5.523	2	19884	C10H14	4-ethyl-m-xylene	874-41-9	210.27	12.930	1
18335	C9H20O	2,2,4,4-tetramethyl-3-pentanol	14609-79-1	323.15	5.523	2	19885	C10H14	5-ethyl-m-xylene	934-74-7	188.82	8.954	1
18365	C9H20S	nonyl mercaptan	1455-21-6	253.05	33.500	1	19886	C10H14	2-ethyl-p-xylene	1758-88-9	219.52	15.190	1
18366	C9H20S	2-nonanethiol	13281-11-3	204.15	23.502	2	19887	C10H14	1,2,3,4-tetramethylbenzene	488-23-3	265.40	11.230	1
18367	C9H20S	methyl octyl sulfide	3698-95-1	231.16	23.196	2	19888	C10H14	1,2,3,5-tetramethylbenzene	527-53-7	249.46	10.720	1
18368	C9H20S	ethyl heptyl sulfide	24768-44-3	231.16	23.196	2	19889	C10H14	1,2,4,5-tetramethylbenzene	95-93-2	352.05	21.340	1
18369	C9H20S	propyl hexyl sulfide	24768-43-2	231.16	23.196	2	19982	C10H14O	3-butylphenol	4074-43-5	342.75	23.628	2
18370	C9H20S	butyl pentyl sulfide	24768-42-1	231.16	23.196	2	19983	C10H14O	4-butylphenol	1638-22-8	295.15	23.628	2
18371	C9H20S	tert-nonyl mercaptan, isomers	25360-10-5	228.60	28.290	2	19984	C10H14O	2-isobutylphenol	4167-75-3	294.15	19.753	2
18388	C9H21N	nonylamine	112-20-9	273.15	34.300	2	19985	C10H14O	3-isobutylphenol	30749-25-8	327.75	19.753	2
18389	C9H21N	methyloctylamine	2439-54-5	260.15	24.075	2	19986	C10H14O	4-isobutylphenol	4167-74-2	324.15	19.753	2
18390	C9H21N	ethylheptylamine	66793-76-8	260.15	24.075	2	19987	C10H14O	2-sec-butylphenol	89-72-5	289.15	19.753	2
18391	C9H21N	dimethylheptylamine	5277-11-2	195.45	24.030	2	19988	C10H14O	3-sec-butylphenol	3522-86-9	327.75	19.753	2
18392	C9H21N	diethylpentylamine	2162-91-6	195.45	24.030	2	19989	C10H14O	4-sec-butylphenol	99-71-8	332.15	19.753	2
18393	C9H21N	tripropylamine	102-69-2	179.65	22.087	2	19990	C10H14O	2-tert-butylphenol	88-18-6	267.53	15.473	2
18394	C9H21N	tert-amyl-tert-butylamine	2085-66-7	260.15	24.075	2	19991	C10H14O	3-tert-butylphenol	585-34-2	314.15	15.473	2
18395	C9H21N	N-methyldibutylamine	3405-45-6	211.25	24.030	2	19992	C10H14O	4-tert-butylphenol	98-54-4	371.56	15.473	2
18480	C10H2O6	pyromellitic dianhydride	89-32-7	557.15	15.828	1	19993	C10H14O	2-methyl-3-propylphenol	66142-78-7	326.38	23.200	2
18598	C10H6O8	pyromellitic acid	89-05-4	554.00	55.102	2	19994	C10H14O	2-methyl-4-propylphenol	18441-56-0	316.15	23.200	2
18601	C10H7Br	1-bromonaphthalene	90-11-9	279.35	15.200	1	19995	C10H14O	2-methyl-5-propylphenol	499-75-2	326.38	23.200	2
18606	C10H7Cl	1-chloronaphthalene	90-13-1	269.15	12.900	2	19996	C10H14O	2-methyl-6-propylphenol	---	326.38	23.200	2
18607	C10H7Cl	2-chloronaphthalene	91-58-7	331.15	14.386	2	19997	C10H14O	3-methyl-2-propylphenol	3228-01-1	326.38	23.200	2
18608	C10H7Cl	monochloronaphthalene	25586-43-0	300.15	14.386	2	19998	C10H14O	3-methyl-4-propylphenol	30388-40-0	289.15	23.200	2
18669	C10H8	naphthalene	91-20-3	354.10	19.020	1	19999	C10H14O	3-methyl-5-propylphenol	36186-96-6	284.15	23.200	2
19195	C10H10O4	dimethyl phthalate	131-11-3	274.18	16.945	1	20000	C10H14O	4-methyl-2-propylphenol	4074-46-8	326.38	23.200	2
19196	C10H10O4	dimethyl terephthalate	120-61-6	415.40	32.000	1	20001	C10H14O	4-methyl-3-propylphenol	---	326.38	23.200	2
19358	C10H12	1,3-dicyclopentadiene	77-73-6	307.00	0.500	1	20002	C10H14O	5-methyl-2-propylphenol	89-83-8	326.38	23.200	2
19359	C10H12	1,2,3,4-tetrahydronaphthalene	119-64-2	237.36	12.447	1	20003	C10H14O	2-methyl-3-isopropylphenol	4371-48-6	311.38	19.325	2
19360	C10H12	cis-(1-butenyl)benzene	1560-09-4	232.31	15.899	2	20004	C10H14O	2-methyl-4-isopropylphenol	1740-97-2	281.75	19.325	2
19361	C10H12	trans-(1-butenyl)benzene	1005-64-7	230.15	15.899	2	20005	C10H14O	2-methyl-5-isopropylphenol	499-75-2	273.65	19.325	2
19362	C10H12	cis-(1-methyl-1-propenyl)benzene	767-99-7	232.31	14.589	2	20006	C10H14O	2-methyl-6-isopropylphenol	3228-04-4	258.65	19.325	2
19363	C10H12	trans-(1-methyl-1-propenyl)benzene	768-00-3	249.65	14.589	2	20007	C10H14O	3-methyl-2-isopropylphenol	3228-01-1	342.15	19.325	2
19364	C10H12	(2-methyl-1-propenyl)benzene	768-49-0	222.05	14.589	2	20008	C10H14O	3-methyl-4-isopropylphenol	3228-02-2	385.15	19.325	2
19365	C10H12	cis-1-methyl-2-(1-propenyl)benzene	2077-33-0	232.31	15.510	2	20009	C10H14O	3-methyl-5-isopropylphenol	3228-03-3	322.15	19.325	2
19366	C10H12	cis-1-methyl-3-(1-propenyl)benzene	2077-31-8	232.31	15.510	2	20010	C10H14O	4-methyl-2-isopropylphenol	4427-56-9	308.15	19.325	2
19367	C10H12	cis-1-methyl-4-(1-propenyl)benzene	2077-29-4	232.31	15.510	2	20011	C10H14O	5-methyl-2-isopropylphenol	89-83-8	322.85	21.300	1
19368	C10H12	trans-1-methyl-4-(1-propenyl)benzene	2077-30-7	255.15	15.510	2	20012	C10H14O	2,3-diethylphenol	---	326.38	23.200	2
19369	C10H12	1-methyl-2-(1-methylethenyl)benzene	7399-49-7	232.31	9.182	2	20013	C10H14O	2,4-diethylphenol	936-89-0	326.38	23.200	2
19370	C10H12	1-methyl-3-(1-methylethenyl)benzene	1124-20-5	232.31	9.182	2	20014	C10H14O	2,5-diethylphenol	876-20-0	326.38	23.200	2
19371	C10H12	1-methyl-4-(1-methylethenyl)benzene	1195-32-0	204.85	9.182	2	20015	C10H14O	2,6-diethylphenol	1006-59-3	310.65	23.200	2
19372	C10H12	o-ethylstyrene	7564-63-8	197.65	14.028	2	20016	C10H14O	3,4-diethylphenol	875-85-4	326.38	23.200	2
19373	C10H12	m-ethylstyrene	7525-62-4	172.15	14.028	2	20017	C10H14O	3,5-diethylphenol	1197-34-8	349.15	23.200	2
19374	C10H12	p-ethylstyrene	3454-07-7	223.45	14.028	2	20018	C10H14O	2,3-dimethyl-4-ethylphenol	---	310.01	22.772	2
19375	C10H12	1-ethenyl-2,4-dimethylbenzene	2234-20-0	208.85	13.639	2	20019	C10H14O	2,3-dimethyl-5-ethylphenol	---	310.01	22.772	2
19376	C10H12	1-ethenyl-3,5-dimethylbenzene	5379-20-4	212.95	13.639	2	20020	C10H14O	2,3-dimethyl-6-ethylphenol	---	326.15	22.772	2
19377	C10H12	2-ethenyl-1,3-dimethylbenzene	2039-90-9	234.55	13.639	2	20021	C10H14O	2,4-dimethyl-3-ethylphenol	62126-74-3	343.15	22.772	2
19378	C10H12	2-ethenyl-1,4-dimethylbenzene	2039-89-6	237.75	13.639	2	20022	C10H14O	2,4-dimethyl-5-ethylphenol	18441-55-9	312.15	22.772	2
19379	C10H12	4-ethenyl-1,2-dimethylbenzene	27831-13-6	232.75	13.639	2	20023	C10H14O	2,4-dimethyl-6-ethylphenol	2219-79-6	310.01	22.772	2
19380	C10H12	2,3-dimethylstyrene	40243-75-2	232.31	13.639	2	20024	C10H14O	2,5-dimethyl-3-ethylphenol	---	310.01	22.772	2
19381	C10H12	3,4-dimethylstyrene	---	232.31	13.639	2	20025	C10H14O	2,5-dimethyl-4-ethylphenol	32018-76-1	312.15	22.772	2
19382	C10H12	2,6-dimethylstyrene	2039-90-9	232.31	13.639	2	20026	C10H14O	2,5-dimethyl-6-ethylphenol	---	310.01	22.772	2
19383	C10H12	3,5-dimethylstyrene	80648-26-6	232.31	13.639	2	20027	C10H14O	2,6-dimethyl-3-ethylphenol	---	310.01	22.772	2
19384	C10H12	2-butenylbenzene	1560-06-1	232.01	14.673	2	20028	C10H14O	2,6-dimethyl-4-ethylphenol	10570-69-1	309.15	22.772	2
19385	C10H12	3-butenylbenzene	768-56-9	203.15	14.673	2	20029	C10H14O	3,4-dimethyl-2-ethylphenol	---	310.01	22.772	2
19386	C10H12	1-methyl-2-allylbenzene	1587-04-8	232.01	14.673	2	20030	C10H14O	3,4-dimethyl-5-ethylphenol	62126-75-4	351.15	22.772	2
19387	C10H12	(1-methylenepropyl)benzene	2039-93-2	232.31	10.894	2	20031	C10H14O	3,4-dimethyl-6-ethylphenol	2219-78-5	324.15	22.772	2
19397	C10H12	trans-1-butenylbenzene	824-90-8	230.15	14.673	2	20032	C10H14O	3,5-dimethyl-2-ethylphenol	62126-76-5	353.15	22.772	2
19398	C10H12	a,2-dimethylstyrene	26444-18-8	221.25	12.942	2	20033	C10H14O	3,5-dimethyl-4-ethylphenol	62126-77-6	363.65	22.772	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
20034	C10H14O	2,3,4,5-tetramethylphenol	488-70-0	355.15	22.344	2	20945	C10H20	cis-5-decene	7433-78-5	161.15	17.302	2
20035	C10H14O	2,3,4,6-tetramethylphenol	3238-38-8	353.15	22.344	2	20946	C10H20	trans-5-decene	7433-56-9	200.15	17.302	2
20036	C10H14O	2,3,5,6-tetramethylphenol	527-35-5	390.15	22.344	2	20947	C10H20	2-methyl-1-nonene	2980-71-4	208.92	19.066	2
20037	C10H14O	2-butylphenol	3180-09-4	253.15	23.628	2	20947.1	C10H20	cis-2-decene	20348-51-0	207.00	21.300	2
20171	C10H14O4Zn	bis(acetylacetonato)zinc	14024-63-6	400.50	18.200	1	20947.2	C10H20	trans-2-decene	20063-97-2	220.00	22.600	2
20182	C10H14Si	dimethylphenylvinylsilane	1125-26-4	190.70	12.300	1	20947.3	C10H20	8-methyl-1-nonene	26741-24-2	199.00	18.100	2
20195	C10H15N	N,N-dietyhlaniline	91-66-7	235.15	8.490	2	20947.4	C10H20	1,1-diethylcyclohexane	78-01-3	173.15	12.200	2
20196	C10H15N	2,6-diethylaniline	579-66-8	276.65	9.901	2	20947.5	C10H20	1,2,3,4-tetramethylcyclohexane	3726-45-2	195.00	11.200	2
20197	C10H15N	2-sec-butylaniline	55751-54-7	274.23	9.901	2	20948	C10H20	2-methyl-3-nonene	53966-53-3	219.00	17.302	2
20198	C10H15N	2-tert-butylaniline	6310-21-0	274.23	9.901	2	20949	C10H20	5-methyl-4-nonene	15918-07-7	219.00	17.302	2
20199	C10H15N	4-butylaniline	104-13-2	274.23	9.901	2	20950	C10H20	3,7-dimethyl-1-octene	4984-01-4	219.00	17.302	2
20200	C10H15N	4-sec-butylaniline	30273-11-1	274.23	9.901	2	20951	C10H20	2,6-dimethyl-2-octene	4057-42-5	219.00	17.302	2
20201	C10H15N	4-tert-butylaniline	769-92-6	290.15	9.901	2	20952	C10H20	4-propyl-3-heptene	4485-13-6	219.00	17.302	2
20202	C10H15N	N-sec-butylaniline	6068-69-5	274.23	9.901	2	20953	C10H20	2,4,6-trimethyl-3-heptene, isomer	123434-07-1	219.00	17.302	2
20203	C10H15N	N-tert-butylaniline	937-33-7	274.23	9.901	2	20954	C10H20	2,2,5,5-tetramethylhex-3-ene	22808-06-6	268.65	17.302	2
20204	C10H15N	N-butylaniline	1126-78-9	258.75	9.901	2	20955	C10H20	cis-1,2-di-tert-butylethene	692-47-7	219.00	17.302	2
20205	C10H15N	4-isobutylaniline	30090-17-6	274.23	9.901	2	20956	C10H20	(E)-2,2,5,5-tetramethylhex-3-ene	692-48-8	268.25	17.302	2
20206	C10H15N	N-isobutylaniline	588-47-6	274.23	9.901	2	20958	C10H20Br2	1,1-dibromodecane	59104-80-2	306.56	28.703	2
20207	C10H15N	4-methyl-N-isopropylaniline	10436-75-6	274.23	9.901	2	20959	C10H20Br2	1,10-dibromodecane	4101-68-2	301.15	28.450	2
20208	C10H15N	2-methyl-5-isopropylaniline	2051-53-8	257.15	9.901	2	20960	C10H20Br2	5,6-dibromodecane	77928-86-0	303.86	28.450	2
20209	C10H15N	4-methyl-N-propylaniline	54837-90-0	274.23	9.901	2	20962	C10H20Cl2	1,1-dichlorodecane	3162-62-7	246.80	26.527	2
20210	C10H15N	2,3,4,5-tetramethylaniline	2217-45-0	342.15	9.901	2	20963	C10H20Cl2	1,10-dichlorodecane	2162-98-3	288.75	28.781	2
20211	C10H15N	2,3,4,6-tetramethylaniline	488-71-1	296.65	9.901	2	20966	C10H20F2	1,1-difluorodecane	62127-43-9	251.26	24.293	2
20212	C10H15N	N,N,2,6-tetramethylaniline	769-06-2	237.15	9.901	2	20968	C10H20I2	1,1-diiododecane	66291-57-4	303.08	26.945	2
20230	C10H15N	3,5,N,N-tetramethylaniline	4913-13-7	274.23	9.901	2	20969	C10H20I2	1,10-diiododecane	16355-92-3	304.65	27.015	2
20231	C10H15N	aniline, p-isopropyl-N-methyl-,	6950-79-4	274.23	9.901	2	20992	C10H20O	decanal	112-31-2	269.47	30.600	1
20315	C10H16	camphene	79-92-5	320.15	31.800	1	20993	C10H20O	2-decanone	693-54-9	276.25	30.232	2
20356	C10H16	(+)-camphene	5794-03-6	319.15	31.436	2	20994	C10H20O	3-decanone	928-80-3	274.45	29.515	2
20357	C10H16	(-)-camphene	5794-04-7	310.15	31.436	2	20995	C10H20O	4-decanone	624-16-8	264.15	29.515	2
20423	C10H16O	camphor	76-22-2	451.50	6.820	1	20996	C10H20O	2-methyl-5-nonanone	22287-02-1	269.70	29.515	2
20593	C10H18	1-decyne	764-93-2	229.16	24.630	2	21019	C10H20O	5-decanone	820-29-1	263.95	29.515	2
20594	C10H18	2-decyne	2384-70-5	308.06	24.776	2	21025	C10H20O	isodecanal	1321-89-7	269.47	30.600	2
20595	C10H18	3-decyne	2384-85-2	308.06	24.776	2	21034	C10H20O	2-methyl-3-nonanone	5445-31-8	269.70	29.515	2
20596	C10H18	4-decyne	2384-86-3	261.36	23.377	2	21040	C10H20O2	decanoic acid	334-48-5	304.40	27.990	1
20597	C10H18	5-decyne	1942-46-7	200.15	23.377	2	21041	C10H20O2	2,2-dimethyloctanoic acid	29662-90-6	314.78	28.944	2
20598	C10H18	2,2-dimethyl-3-octyne	19482-57-6	261.36	23.377	2	21042	C10H20O2	3-methylnonanoic acid	35205-79-9	314.78	28.944	2
20599	C10H18	8-methyl-4-nonyne	70732-43-3	261.36	23.377	2	21043	C10H20O2	nonyl formate	5451-92-3	260.66	27.707	2
20600	C10H18	5-ethyl-5-methyl-3-heptyne	61228-10-2	261.36	23.377	2	21044	C10H20O2	2-ethylhexyl acetate	103-09-3	180.15	22.502	2
20601	C10H18	cis-decahydronaphthalene	493-01-6	242.78	14.414	1	21045	C10H20O2	octyl acetate	112-14-1	234.65	26.025	2
20602	C10H18	trans-decahydronaphthalene	493-02-7	242.40	3.244	1	21046	C10H20O2	6-methyl-2-heptyl acetate	67952-57-2	207.40	24.454	2
20603	C10H18	1-pentylcyclopentene	4291-98-9	190.15	16.813	2	21047	C10H20O2	6-methyl-3-heptyl acetate	32764-34-4	207.40	24.454	2
20604	C10H18	1,5-dimethyl-4-isopropylcyclopentene	6912-05-6	190.15	16.813	2	21048	C10H20O2	2-methylheptyl acetate, (±)	74112-36-0	207.40	24.454	2
20636	C10H18	decahydronaphthalene; (cis+trans)	91-17-8	242.59	8.825	2	21049	C10H20O2	heptyl propanoate	2216-81-1	222.25	26.025	2
20820	C10H18O4	sebacic acid	111-20-6	407.65	40.800	1	21050	C10H20O2	hexyl butanoate	2639-63-6	195.15	26.025	2
20856	C10H19Br	cis-1-bromo-1-decene	66291-72-3	256.68	27.143	2	21051	C10H20O2	1-methylpentyl butanoate, (S)	116723-96-7	195.15	26.025	2
20857	C10H19Br	trans-1-bromo-1-decene	66291-73-4	256.68	27.143	2	21052	C10H20O2	isopentyl isovalerate	659-70-1	215.00	18.979	2
20858	C10H19Br	1-bromo-2-decene	14304-30-4	256.68	27.143	2	21053	C10H20O2	1,1-dimethylpropyl 3-methylbutanoate	542-37-0	195.15	26.025	2
20859	C10H19Br	2-bromo-1-decene	3017-67-2	256.68	27.143	2	21054	C10H20O2	isopentyl pentanoate	2050-09-1	211.58	18.677	2
20867	C10H19Br3	1,1,1-tribromodecane	62127-67-7	383.78	30.097	2	21055	C10H20O2	pentyl pentanoate	2173-56-0	194.35	18.677	2
20868	C10H19Cl	cis-1-chloro-1-decene	66291-47-2	226.80	26.055	2	21056	C10H20O2	butyl hexanoate	626-82-4	208.85	18.677	2
20869	C10H19Cl	trans-1-chloro-1-decene	66291-48-3	226.80	26.055	2	21057	C10H20O2	isobutyl 4-methylpentanoate	25415-70-7	211.58	18.677	2
20870	C10H19Cl	(1R)-(-)-menthyl chloride	16052-42-9	255.00	27.135	2	21058	C10H20O2	propyl heptanoate	7778-87-2	209.65	18.677	2
20876	C10H19Cl3	1,1,1-trichlorodecane	62108-56-9	294.14	26.833	2	21059	C10H20O2	ethyl 2-ethylhexanoate	2983-37-1	211.58	18.677	2
20877	C10H19F	cis-1-fluoro-1-decene	66291-49-4	229.03	24.938	2	21060	C10H20O2	ethyl octanoate	106-32-1	230.05	18.677	2
20878	C10H19F	trans-1-fluoro-1-decene	66291-50-7	229.03	24.938	2	21063	C10H20O2	methyl nonanoate	1731-84-6	211.58	18.677	2
20882	C10H19F3	1,1,1-trifluorodecane	26288-16-4	300.83	23.482	2	21066	C10H20O2	8-methylnonanoic acid	5963-14-4	314.78	28.944	2
20883	C10H19I	cis-1-iodo-1-decene	66291-51-8	254.94	26.264	2	21067	C10H20O2	neodecanoic acid	26896-20-8	314.78	28.944	2
20884	C10H19I	trans-1-iodo-1-decene	66291-52-9	254.94	26.264	2	21068	C10H20O2	tert-decanoic acid	52627-73-3	314.78	28.944	2
20885	C10H19I3	1,1,1-triiododecane	---	378.56	27.460	2	21071	C10H20O2	n-hexyl isobutyrate	2349-07-7	211.58	18.677	2
20886	C10H19N	decanenitrile	1975-78-6	258.65	23.162	2	21073	C10H20O2	isobutyl hexanoate	105-79-3	211.58	18.677	2
20922	C10H20	pentylcyclopentane	3741-00-2	190.16	15.591	2	21074	C10H20O2	2-(4-isobutylphenyl)butyric acid	55837-18-8	325.15	28.944	2
20923	C10H20	butylcyclohexane	1678-93-9	198.42	14.159	1	21077	C10H20O2	4-nonanecarboxylic acid	31080-39-4	314.78	28.944	2
20924	C10H20	tert-butylcyclohexane	3178-22-1	231.95	13.634	2	21090	C10H21Br	1-bromodecane	112-29-8	243.95	26.941	2
20925	C10H20	sec-butylcyclohexane	7058-01-7	191.06	13.634	2	21091	C10H21Br	2-bromodecane	39563-53-6	243.95	26.941	2
20926	C10H20	isobutylcyclohexane	1678-98-4	178.15	13.634	2	21093	C10H21Cl	1-chlorodecane	1002-69-3	241.85	25.853	2
20927	C10H20	1-methyl-1-propylcyclohexane	4258-93-9	191.06	13.634	2	21094	C10H21Cl	decyl chloride (mixed isomers)	28519-06-4	241.85	25.853	2
20928	C10H20	1-methyl-2-propylcyclohexane	4291-79-6	191.06	13.634	2	21097	C10H21F	1-fluorodecane	334-56-5	238.15	24.736	2
20929	C10H20	1-methyl-3-propylcyclohexane	4291-80-9	191.06	13.634	2	21100	C10H21I	1-iododecane	2050-77-3	256.85	26.062	2
20930	C10H20	1-methyl-4-propylcyclohexane	4291-81-0	191.06	13.634	2	21117	C10H21NO2	1-nitrodecane	4609-87-4	345.57	29.715	2
20931	C10H20	1-methyl-2-isopropylcyclohexane	16580-23-7	191.06	13.634	2	21133	C10H22	decane	124-18-5	243.51	28.715	1
20932	C10H20	1-methyl-3-isopropylcyclohexane	16580-24-8	191.06	13.634	2	21134	C10H22	2-methylnonane	871-83-0	198.80	17.489	1
20933	C10H20	1-methyl-4-isopropylcyclohexane	99-82-1	185.55	13.634	2	21135	C10H22	3-methylnonane	5911-04-6	188.50	18.698	1
20934	C10H20	cis-1-methyl-4-isopropylcyclohexane	6069-98-3	183.25	13.634	2	21136	C10H22	4-methylnonane	17301-94-9	174.70	15.188	1
20935	C10H20	trans-1-methyl-4-isopropylcyclohexane	1678-82-6	186.85	13.634	2	21137	C10H22	5-methylnonane	15869-85-9	186.70	16.640	1
20936	C10H20	1,1,3,4-tetramethylcyclohexane	24612-75-7	191.06	13.634	2	21138	C10H22	3-ethyloctane	5881-17-4	185.46	18.133	2
20937	C10H20	trans-1,1,3,5-tetramethylcyclohexane	50876-31-8	191.06	13.634	2	21139	C10H22	4-ethyloctane	15869-86-0	185.46	18.133	2
20938	C10H20	cis-1,1,3,5-tetramethylcyclohexane	50876-32-9	191.06	13.634	2	21140	C10H22	2,2-dimethyloctane	15869-87-1	204.38	14.242	2
20939	C10H20	diethylcyclohexane; (mixed isomers)	1331-43-7	173.25	13.634	2	21141	C10H22	2,3-dimethyloctane	7146-60-3	219.16	14.610	2
20943	C10H20	1-decene	872-05-9	206.89	13.810	1	21142	C10H22	2,4-dimethyloctane	4032-94-4	219.16	16.000	1
20944	C10H20	4-decene	19689-18-0	219.00	17.302	2	21143	C10H22	2,5-dimethyloctane	15869-89-3	219.16	16.000	1

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
21144	C10H22	2,6-dimethyloctane	2051-30-1	219.16	16.000	1	21240	C10H22O	7-methyl-2-nonanol	66256-61-9	232.78	21.503	2
21145	C10H22	2,7-dimethyloctane	1072-16-8	219.16	17.300	1	21241	C10H22O	8-methyl-2-nonanol	14779-92-1	232.78	21.503	2
21146	C10H22	3,3-dimethyloctane	4110-44-5	219.16	16.000	1	21242	C10H22O	2-methyl-3-nonanol	26533-33-5	232.78	21.503	2
21147	C10H22	3,4-dimethyloctane	15869-92-8	219.16	17.000	1	21243	C10H22O	3-methyl-3-nonanol	21078-72-8	265.20	21.080	2
21148	C10H22	3,5-dimethyloctane	15869-93-9	219.16	15.000	1	21244	C10H22O	5-methyl-3-nonanol	66719-43-5	232.78	21.503	2
21149	C10H22	3,6-dimethyloctane	15869-94-0	219.16	15.000	1	21245	C10H22O	2-methyl-4-nonanol	26533-31-3	232.78	21.503	2
21150	C10H22	4,4-dimethyloctane	15869-95-1	219.16	14.300	1	21246	C10H22O	4-methyl-4-nonanol	23418-38-4	265.20	21.080	2
21151	C10H22	4,5-dimethyloctane	15869-96-2	219.16	16.000	1	21247	C10H22O	5-methyl-4-nonanol	66719-44-6	232.78	21.503	2
21152	C10H22	4-propylheptane	3178-29-8	219.16	18.000	1	21248	C10H22O	7-methyl-4-nonanol	26981-98-6	232.78	21.503	2
21153	C10H22	4-isopropylheptane	52896-87-4	219.16	16.000	1	21249	C10H22O	2-methyl-5-nonanol	29843-62-7	232.78	21.503	2
21154	C10H22	3-ethyl-2-methylheptane	14676-29-0	219.16	17.000	1	21250	C10H22O	3-methyl-5-nonanol	66779-42-4	232.78	21.503	2
21155	C10H22	4-ethyl-2-methylheptane	52896-88-5	219.16	15.000	1	21251	C10H22O	5-methyl-5-nonanol	33933-78-7	265.20	21.080	2
21156	C10H22	5-ethyl-2-methylheptane	13475-78-0	219.16	15.000	1	21252	C10H22O	2-ethyl-1-octanol	20592-10-3	247.78	25.554	2
21157	C10H22	3-ethyl-3-methylheptane	17302-01-1	219.16	15.000	1	21253	C10H22O	3-ethyl-1-octanol	66719-36-6	247.78	25.554	2
21158	C10H22	4-ethyl-3-methylheptane	52896-89-6	219.16	16.000	1	21254	C10H22O	2,2-dimethyl-1-octanol	2370-14-1	265.20	21.080	2
21159	C10H22	3-ethyl-5-methylheptane	52896-90-9	219.16	14.000	1	21255	C10H22O	2,6-dimethyl-1-octanol	62417-08-7	232.78	21.503	2
21160	C10H22	3-ethyl-4-methylheptane	52896-91-0	219.16	16.000	1	21256	C10H22O	3,7-dimethyl-1-octanol	106-21-8	232.78	21.503	2
21161	C10H22	4-ethyl-4-methylheptane	17302-04-4	219.16	14.000	1	21257	C10H22O	4,5-dimethyl-1-octanol	66719-32-2	232.78	21.503	2
21162	C10H22	2,2,3-trimethylheptane	52896-92-1	219.16	13.935	2	21258	C10H22O	4,6-dimethyl-1-octanol	66719-33-3	232.78	21.503	2
21163	C10H22	2,2,4-trimethylheptane	14720-74-2	219.16	13.935	2	21259	C10H22O	4,7-dimethyl-1-octanol	66719-34-4	232.78	21.503	2
21164	C10H22	2,2,5-trimethylheptane	20291-95-6	219.16	13.935	2	21260	C10H22O	7,7-dimethyl-1-octanol	66719-35-5	265.20	21.080	2
21165	C10H22	2,2,6-trimethylheptane	1190-83-6	219.16	13.935	2	21261	C10H22O	2,4-dimethyl-2-octanol	18675-20-2	250.20	17.028	2
21166	C10H22	2,3,3-trimethylheptane	52896-93-2	219.16	13.935	2	21262	C10H22O	2,6-dimethyt-2-octanol	18479-57-7	250.20	17.028	2
21167	C10H22	2,3,4-trimethylheptane	52896-95-4	219.16	14.413	2	21263	C10H22O	2,7-dimethyl-2-octanol	42007-73-8	250.20	17.028	2
21168	C10H22	2,3,5-trimethylheptane	20278-85-7	219.16	14.413	2	21264	C10H22O	3,7-dimethyl-2-octanol	15340-96-2	217.78	17.451	2
21169	C10H22	2,3,6-trimethylheptane	4032-93-3	219.16	14.413	2	21265	C10H22O	3-ethyl-3-octanol	2051-32-3	265.20	21.080	2
21170	C10H22	2,4,4-trimethylheptane	4032-92-2	219.16	13.935	2	21266	C10H22O	6-ethyl-3-octanol	19781-27-2	232.78	21.503	2
21171	C10H22	2,4,5-trimethylheptane	20278-84-6	219.16	14.413	2	21267	C10H22O	2,2-dimethyl-3-octanol	19841-72-6	250.20	17.028	2
21172	C10H22	2,4,6-trimethylheptane	2613-61-8	219.16	11.000	1	21268	C10H22O	2,3-dimethyl-3-octanol	19781-10-3	250.20	17.028	2
21173	C10H22	2,5,5-trimethylheptane	1189-99-7	219.16	11.000	1	21269	C10H22O	2,7-dimethyl-3-octanol	66719-55-9	217.78	17.451	2
21174	C10H22	3,3,4-trimethylheptane	20278-87-9	219.16	13.000	1	21270	C10H22O	3,5-dimethyl-3-octanol	56065-42-0	250.20	17.028	2
21175	C10H22	3,3,5-trimethylheptane	7154-80-5	219.16	14.000	1	21271	C10H22O	3,6-dimethyl-3-octanol	151-19-9	205.65	17.028	2
21176	C10H22	3,4,4-trimethylheptane	20278-88-0	219.16	12.000	1	21272	C10H22O	3,7-dimethyl-3-octanol	78-69-3	250.20	17.028	2
21177	C10H22	3,4,5-trimethylheptane	20278-89-1	219.16	14.000	1	21273	C10H22O	3-ethyl-4-octanol	63126-48-7	232.78	21.503	2
21178	C10H22	3-isopropyl-2-methylhexane	62016-13-1	219.16	11.000	1	21274	C10H22O	4-ethyl-4-octanol	38395-42-5	265.20	21.080	2
21179	C10H22	3,3-diethylhexane	17302-02-2	219.16	15.000	1	21275	C10H22O	2,2-dimethyl-4-octanol	66719-52-6	250.20	17.028	2
21180	C10H22	3,4-diethylhexane	19398-77-7	219.16	15.000	1	21276	C10H22O	2,4-dimethyl-4-octanol	33933-79-8	250.20	17.028	2
21181	C10H22	3-ethyl-2,2-dimethylhexane	20291-91-2	219.16	14.000	1	21277	C10H22O	2,5-dimethyl-4-octanol	66719-53-7	217.78	17.451	2
21182	C10H22	4-ethyl-2,2-dimethylhexane	52896-99-8	219.16	15.000	1	21278	C10H22O	2,6-dimethyl-4-octanol	66719-54-8	217.78	17.451	2
21183	C10H22	3-ethyl-2,3-dimethylhexane	52897-00-4	219.16	14.000	1	21279	C10H22O	2,7-dimethyl-4-octanol	19781-11-4	217.78	17.451	2
21184	C10H22	4-ethyl-2,3-dimethylhexane	52897-01-5	219.16	14.000	1	21280	C10H22O	3,4-dimethyl-4-octanol	66719-30-0	250.20	17.028	2
21185	C10H22	3-ethyl-2,4-dimethylhexane	7220-26-0	219.16	10.000	1	21281	C10H22O	3,6-dimethyl-4-octanol	66719-31-1	217.78	17.451	2
21186	C10H22	4-ethyl-2,4-dimethylhexane	52897-03-7	219.16	15.000	1	21282	C10H22O	4,6-dimethyl-4-octanol	56065-43-1	250.20	17.028	2
21187	C10H22	3-ethyl-2,5-dimethylhexane	52897-04-8	219.16	13.000	1	21283	C10H22O	4,7-dimethyl-4-octanol	19781-13-6	250.20	17.028	2
21188	C10H22	4-ethyl-3,3-dimethylhexane	52897-05-9	219.16	13.000	1	21284	C10H22O	2-propyl-1-heptanol	10042-59-8	247.78	25.554	2
21189	C10H22	3-ethyl-3,4-dimethylhexane	52897-06-0	219.16	13.000	1	21285	C10H22O	3-isopropyl-1-heptanol	38514-15-7	232.78	21.503	2
21190	C10H22	2,2,3,3-tetramethylhexane	13475-81-5	219.16	12.400	1	21286	C10H22O	2,4,6-trimethyl-2-heptanol	66256-47-1	235.20	12.977	2
21191	C10H22	2,2,3,4-tetramethylhexane	52897-08-2	219.16	9.000	1	21287	C10H22O	2,5,6-trimethyl-2-heptanol	66256-48-2	235.20	12.977	2
21192	C10H22	2,2,3,5-tetramethylhexane	52897-09-3	219.16	10.000	1	21288	C10H22O	4,6,6-trimethyl-2-heptanol	51079-79-9	235.20	12.977	2
21193	C10H22	2,2,4,4-tetramethylhexane	51750-65-3	219.16	13.000	1	21289	C10H22O	2-methyl-3-ethyl-3-heptanol	66719-37-7	250.20	17.028	2
21194	C10H22	2,2,4,5-tetramethylhexane	16747-42-5	219.16	14.000	1	21290	C10H22O	4-methyl-5-ethyl-3-heptanol	66731-94-0	217.78	17.451	2
21195	C10H22	2,2,5,5-tetramethylhexane	1071-81-4	260.56	9.800	1	21291	C10H22O	5-methyl-3-ethyl-3-heptanol	---	250.20	17.028	2
21196	C10H22	2,3,3,4-tetramethylhexane	52897-10-6	260.56	12.000	1	21292	C10H22O	2,2,3-trimethyl-3-heptanol	29772-40-5	267.62	12.553	2
21197	C10H22	2,3,3,5-tetramethylhexane	52897-11-7	260.56	15.000	1	21293	C10H22O	2,2,6-trimethyl-3-heptanol	66256-43-7	235.20	12.977	2
21198	C10H22	2,3,4,4-tetramethylhexane	52897-12-8	260.56	9.000	1	21294	C10H22O	2,3,6-trimethyl-3-heptanol	58046-40-5	235.20	12.977	2
21199	C10H22	2,3,4,5-tetramethylhexane	52897-15-1	260.56	12.000	1	21295	C10H22O	3,5,5-trimethyl-3-heptanol	66256-50-6	267.62	12.553	2
21200	C10H22	3,3,4,4-tetramethylhexane	5171-84-6	260.56	10.000	1	21296	C10H22O	4-propyl-4-heptanol	2198-72-3	265.20	21.080	2
21201	C10H22	2,4-dimethyl-3-isopropylpentane	13475-79-1	191.46	16.631	2	21297	C10H22O	4-isopropyl-4-heptanol	51200-82-9	250.20	17.028	2
21202	C10H22	3,3-diethyl-2-methylpentane	52897-16-2	191.46	16.079	2	21298	C10H22O	2,2,4-trimethyl-4-heptanol	57233-31-5	267.62	12.553	2
21203	C10H22	3-ethyl-2,2,3-trimethylpentane	52897-17-3	191.46	10.242	2	21299	C10H22O	2,2,5-trimethyl-4-heptanol	66256-42-6	235.20	12.977	2
21204	C10H22	3-ethyl-2,2,4-trimethylpentane	52897-18-4	191.46	10.794	2	21300	C10H22O	2,2,6-trimethyl-4-heptanol	66256-44-8	235.20	12.977	2
21205	C10H22	3-ethyl-2,3,4-trimethylpentane	52897-19-5	191.46	10.794	2	21301	C10H22O	2,4,5-trimethyl-4-heptanol	66256-46-0	235.20	12.977	2
21206	C10H22	2,2,3,3,4-pentamethylpentane	16747-44-7	236.71	4.958	2	21302	C10H22O	2,4,6-trimethyl-4-heptanol	60836-07-9	235.20	12.977	2
21207	C10H22	2,2,3,4,4-pentamethylpentane	16747-45-8	234.41	4.958	2	21303	C10H22O	3,3,6-trimethyl-4-heptanol	---	235.20	12.977	2
21224	C10H22O	1-decanol	112-30-1	280.05	37.660	1	21304	C10H22O	4-methyl-2-propyl-1-hexanol	66256-62-0	232.78	21.503	2
21225	C10H22O	isodecanol	25339-17-7	213.15	25.554	2	21305	C10H22O	4-methyl-2-isopropyl-1-hexanol	66719-41-3	216.41	17.451	2
21226	C10H22O	2-decanol	1120-06-5	270.75	25.554	2	21306	C10H22O	5-methyl-2-isopropyl-1-hexanol	2051-33-4	217.78	17.451	2
21227	C10H22O	2-decanol, (±)	74742-10-2	271.95	17.733	2	21307	C10H22O	5,5-dimethyl-2-ethyl-1-hexanol	---	250.20	17.028	2
21228	C10H22O	3-decanol	1565-81-7	268.15	25.554	2	21308	C10H22O	2,3,4,4-tetramethyl-2-hexanol	66256-66-4	252.62	8.502	2
21229	C10H22O	4-decanol	2051-31-2	261.75	25.554	2	21309	C10H22O	3,3,5,5-tetramethyl-2-hexanol	66256-69-7	252.62	8.502	2
21230	C10H22O	5-decanol	5205-34-5	281.85	25.554	2	21310	C10H22O	2-methyl-3-isopropyl-3-hexanol	51200-81-8	233.83	12.977	2
21231	C10H22O	2-methyl-1-nonanol	40589-14-8	247.78	25.554	2	21311	C10H22O	2,2-dimethyl-4-ethyl-3-hexanol	66719-47-9	235.20	12.977	2
21232	C10H22O	4-methyl-1-nonanol	1489-47-0	247.78	25.554	2	21312	C10H22O	2,4-dimethyl-4-ethyl-3-hexanol	66719-48-0	235.20	12.977	2
21233	C10H22O	5-methyl-1-nonanol	2768-16-3	247.78	25.554	2	21313	C10H22O	5,5-dimethyl-3-ethyl-3-hexanol	5340-62-5	267.62	12.553	2
21234	C10H22O	7-methyl-1-nonanol	33234-93-4	247.78	25.554	2	21314	C10H22O	2,2,3,4-tetramethyl-3-hexanol	66256-63-1	252.62	8.502	2
21235	C10H22O	3-methyl-1-nonanol	22663-64-5	247.78	25.554	2	21315	C10H22O	2,2,3,5-tetramethyl-3-hexanol	66256-64-2	252.62	8.502	2
21236	C10H22O	2-methyl-2-nonanol	10297-57-1	265.20	21.080	2	21316	C10H22O	2,2,4,4-tetramethyl-3-hexanol	66256-65-3	277.15	8.502	2
21237	C10H22O	3-methyl-2-nonanol	60671-32-1	232.78	21.503	2	21317	C10H22O	2,2,5,5-tetramethyl-3-hexanol	55073-86-4	325.15	8.502	2
21238	C10H22O	5-methyl-2-nonanol	66731-95-1	232.78	21.503	2	21318	C10H22O	2,3,4,4-tetramethyl-3-hexanol	66256-67-5	252.62	8.502	2
21239	C10H22O	6-methyl-2-nonanol	66256-60-8	232.78	21.503	2	21319	C10H22O	2,3,5,5-tetramethyl-3-hexanol	5396-09-8	252.62	8.502	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
21320	C10H22O	2,4,4,5-tetramethyl-3-hexanol	66256-68-6	220.20	8.925	2	22334	C11H16	1,3-dimethyl-5-propylbenzene	3982-64-7	214.05	17.509	2
21321	C10H22O	3,4,4,5-tetramethyl-3-hexanol	66256-39-1	252.62	8.502	2	22335	C11H16	1,4-dimethyl-2-propylbenzene	3042-50-0	264.69	17.509	2
21322	C10H22O	3,4,5,5-tetramethyl-3-hexanol	66256-40-4	252.62	8.502	2	22336	C11H16	1,2-dimethyl-3-isopropylbenzene	22539-65-7	249.69	13.986	2
21323	C10H22O	4-methyl-2-isobutyl-1-pentanol	22417-45-4	216.41	12.977	2	22337	C11H16	1,2-dimethyl-4-isopropylbenzene	4132-77-8	249.69	13.986	2
21324	C10H22O	4,4-dimethyl-3-isopropyl-1-pentanol	66719-51-5	235.20	12.977	2	22338	C11H16	1,3-dimethyl-2-isopropylbenzene	14411-75-7	249.69	13.986	2
21325	C10H22O	3,4-dimethyl-3-isopropyl-2-pentanol	66719-50-4	218.83	12.977	2	22339	C11H16	1,3-dimethyl-4-isopropylbenzene	4706-89-2	191.15	13.986	2
21326	C10H22O	2,4-dimethyl-3-propyl-3-pentanol	---	235.20	12.977	2	22340	C11H16	1,3-dimethyl-5-isopropylbenzene	4706-90-5	249.69	13.986	2
21327	C10H22O	2,4-dimethyl-3-isopropyl-3-pentanol	51200-83-0	258.45	12.977	2	22341	C11H16	1,4-dimethyl-2-isopropylbenzene	4132-72-3	249.69	13.986	2
21328	C10H22O	2,2,4-trimethyl-3-ethyl-3-pentanol	66256-41-5	252.62	8.502	2	22342	C11H16	1-methyl-2,3-diethylbenzene	13632-93-4	264.69	17.509	2
21329	C10H22O	2,2,3,4,4-pentamethyl-3-pentanol	5857-69-2	315.25	4.027	2	22343	C11H16	1-methyl-2,4-diethylbenzene	1758-85-6	264.69	17.509	2
21330	C10H22O	2,3-dimethyl-2-tert-butyl-1-butanol	81931-81-9	327.15	8.502	2	22344	C11H16	1-methyl-2,5-diethylbenzene	13632-94-5	264.69	17.509	2
21331	C10H22O	3,7-dimethyl-3-octanol, (±)	57706-88-4	304.65	17.733	2	22345	C11H16	1-methyl-2,6-diethyl benzene	13632-95-6	264.69	17.509	2
21332	C10H22O	3,7-dimethyl-1-octanol, (±)	59204-02-3	246.36	17.733	2	22346	C11H16	1-methyl-3,4-diethylbenzene	13732-80-4	264.69	17.509	2
21333	C10H22O	3-ethyl-6-methyl-3-heptanol	66719-40-2	246.36	17.733	2	22347	C11H16	1-methyl-3,5-diethylbenzene	2050-24-0	199.03	17.509	2
21334	C10H22O	8-methyl-1-nonanol	55505-26-5	246.36	17.733	2	22348	C11H16	1,2,3-trimethyl-4-ethylbenzene	61827-86-9	277.21	17.120	2
21335	C10H22O	di-pentyl ether	693-65-2	203.72	25.800	2	22349	C11H16	1,2,3-trimethyl-5-ethylbenzene	31366-00-4	277.21	17.120	2
21336	C10H22O	diisopentyl ether	544-01-4	244.69	30.988	2	22350	C11H16	1,2,4-trimethyl-3-ethylbenzene	61827-87-0	277.21	17.120	2
21337	C10H22O	ethyl octyl ether	929-61-3	285.65	30.988	2	22351	C11H16	1,2,4-trimethyl-5-ethylbenzene	17851-27-3	259.65	17.120	2
21338	C10H22O	(S)-(+)-2-decanol	33758-16-6	246.36	17.733	2	22352	C11H16	1,2,4-trimethyl-6-ethylbenzene	---	259.65	17.120	2
21339	C10H22O	(R)-3,7-dimethyl-1-octanol	1117-60-8	246.36	17.733	2	22353	C11H16	1,3,5-trimethyl-2-ethylbenzene	3982-67-0	257.65	17.120	2
21340	C10H22O	s-3,7-dimethyl-1-octanol	68680-98-8	246.36	17.733	2	22354	C11H16	pentamethylbenzene	700-12-9	327.45	10.670	1
21341	C10H22O	decyl alcohol (mixed isomers)	85566-12-7	246.36	17.733	2	22355	C11H16	1-ethyl-2,3,5-trimethylbenzene	18262-85-6	243.06	15.411	2
21380	C10H22O5	tetraethylene glycol dimethyl ether	143-24-8	243.45	25.400	2	22356	C11H16	sec-pentylbenzene	29316-05-0	203.25	15.411	2
21385	C10H22S	decyl mercaptan	143-10-2	247.56	31.000	1	22399	C11H16O	p-tert-amylphenol	80-46-6	366.00	22.000	2
21386	C10H22S	2-decanethiol	13402-60-3	231.15	26.610	2	22400	C11H16O	2-butyl-4-methylphenol	6891-45-8	292.15	23.000	2
21387	C10H22S	dipentyl sulfide	872-10-6	221.85	25.786	2	22401	C11H16O	2-tert-butyl-4-methylphenol	2409-55-4	324.65	22.420	2
21388	C10H22S	methyl nonyl sulfide	59973-07-8	238.16	25.786	2	22402	C11H16O	2-tert-butyl-5-methylphenol	88-60-8	319.65	22.420	2
21389	C10H22S	ethyl octyl sulfide	3698-94-0	238.16	25.786	2	22403	C11H16O	2-tert-butyl-6-methylphenol	2219-82-1	304.15	22.420	2
21390	C10H22S	propyl heptyl sulfide	24768-46-5	238.16	25.786	2	22404	C11H16O	4-tert-butyl-2-methylphenol	98-27-1	300.65	22.420	2
21391	C10H22S	butyl hexyl sulfide	16967-04-7	238.16	25.786	2	22405	C11H16O	4-isopentylphenol	1805-61-4	302.15	22.420	2
21392	C10H22S	bis(2-methylbutyl) sulfide	96034-00-3	228.84	25.141	2	22406	C11H16O	5-methyl-2-sec-butylphenol	29472-95-5	322.97	22.420	2
21393	C10H22S	diisopentyl sulfide	544-02-5	198.55	25.141	2	22407	C11H16O	pentamethylphenol	2819-86-5	401.15	22.420	2
21394	C10H22S2	dipentyl disulfide	112-51-6	214.16	23.933	2	22408	C11H16O	4-pentylphenol	14938-35-3	296.15	22.420	2
21395	C10H22S2	diisopentyl disulfide	2051-04-9	214.16	23.933	2	22439	C11H16O	2-(1-methylbutyl)phenol	87-26-3	322.97	22.420	2
21400	C10H23N	decylamine	2016-57-1	288.85	33.800	2	22440	C11H16O	o-amylphenol	136-81-2	322.97	22.420	2
21401	C10H23N	methylnonylamine	39093-27-1	234.65	26.054	2	22441	C11H16O	2-sec-amylphenol	26401-74-1	322.97	22.420	2
21402	C10H23N	dimethyloctylamine	7378-99-6	198.15	24.677	2	22442	C11H16O	4-sec-amylphenol	25735-67-5	322.97	22.420	2
21403	C10H23N	diethylhexylamine	44979-90-0	198.15	24.677	2	22665	C11H20	1-methyl-cis-decahydronaphthalene	---	225.04	13.187	2
21404	C10H23N	ethyloctylamine	4088-36-2	234.65	26.054	2	22666	C11H20	1-methyl-trans-decahydronaphthalene	---	237.65	13.187	2
21405	C10H23N	dipentylamine	2050-92-2	240.15	26.665	2	22667	C11H20	2-methyl-cis-decahydronaphthalene	---	225.04	13.187	2
21406	C10H23N	diisopentylamine	544-00-3	229.15	26.054	2	22668	C11H20	2-methyl-trans-decahydronaphthalene	4683-94-7	237.65	13.187	2
21407	C10H23N	N,N-diisopropylisobutylamine	44976-81-0	198.15	24.677	2	22669	C11H20	4a-methyl-cis-decahydronaphthalene	2547-26-4	225.04	13.187	2
21601	C11H10	1-methylnaphthalene	90-12-0	242.67	6.950	1	22670	C11H20	4a-methyl-trans-decahydronaphthalene	2547-27-5	237.65	13.187	2
21602	C11H10	2-methylnaphthalene	91-57-6	307.20	11.966	1	22671	C11H20	1-hexylcyclopentene	4291-99-0	189.32	19.403	2
21603	C11H10	methylnaphthalene	1321-94-4	307.15	9.655	2	22672	C11H20	1-undecyne	2243-98-3	248.16	27.220	2
22025	C11H14	1-methyl-[1,2,3,4-tetrahydronaphthalene]	1559-81-5	232.30	13.933	2	22673	C11H20	2-undecyne	60212-29-5	243.05	27.366	2
22026	C11H14	2-methyl-[1,2,3,4-tetrahydronaphthalene]	3877-19-8	230.15	13.933	2	22674	C11H20	3-undecyne	60212-30-8	319.33	27.366	2
22027	C11H14	1,2,3,4-tetrahydro-5-methylnaphthalene	2809-64-5	250.15	14.247	2	22675	C11H20	4-undecyne	60212-31-9	198.45	24.803	2
22028	C11H14	1,2,3,4-tetrahydro-6-methylnaphthalene	1680-51-9	233.15	14.247	2	22676	C11H20	5-undecyne	2294-72-6	199.05	24.803	2
22034	C11H14	1,1-dimethylindan	4912-92-9	227.35	11.993	1	22677	C11H20	3,3-dimethyl-4-nonyne	29022-31-9	241.61	24.803	2
22304	C11H16	pentylbenzene	538-68-1	198.15	15.240	1	22701	C11H20O2	2-ethylhexyl acrylate	103-11-7	183.15	23.812	2
22305	C11H16	2-phenylpentane	2719-52-0	224.65	14.764	2	22742	C11H20O4	undecanedioic acid	1852-04-6	385.00	39.652	1
22306	C11H16	3-phenylpentane	1196-58-3	224.65	14.764	2	22749	C11H21Br	cis-1-bromo-1-undecene	66142-59-4	267.95	29.733	2
22307	C11H16	1-phenyl-2-methylbutane	3968-85-2	224.65	14.764	2	22750	C11H21Br	trans-1-bromo-1-undecene	66142-60-7	267.95	29.733	2
22308	C11H16	1-phenyl-3-methylbutane	2049-94-7	224.65	14.764	2	22751	C11H21Br	11-bromo-1-undecene	7766-50-9	267.95	29.733	2
22309	C11H16	2-phenyl-2-methylbutane	2049-95-8	242.07	10.873	2	22755	C11H21Br3	1,1,1-tribromoundecane	62127-68-8	395.05	32.687	2
22310	C11H16	2-phenyl-3-methylbutane	4481-30-5	209.65	11.241	2	22756	C11H21Cl	cis-1-chloro-1-undecene	66172-73-4	238.07	28.645	2
22311	C11H16	1-phenyl-2,2-dimethylpropane	1007-26-7	242.07	10.873	2	22757	C11H21Cl	trans-1-chloro-1-undecene	66142-61-8	238.07	28.645	2
22312	C11H16	1-methyl-2-butylbenzene	1595-11-5	252.17	17.898	2	22762	C11H21Cl3	1,1,1-trichloroundecane	3922-25-6	305.41	29.423	2
22313	C11H16	1-methyl-3-butylbenzene	1595-04-6	252.17	17.898	2	22764	C11H21F	cis-1-fluoro-1-undecene	66172-74-5	240.30	27.528	2
22314	C11H16	1-methyl-4-butylbenzene	1595-05-7	188.15	17.898	2	22765	C11H21F	trans-1-fluoro-1-undecene	66142-62-9	240.30	27.528	2
22315	C11H16	1-methyl-2-sec-butylbenzene	1595-06-8	237.17	14.375	2	22767	C11H21F3	1,1,1-trifluoroundecane	62126-97-0	312.10	26.072	2
22316	C11H16	1-methyl-3-sec-butylbenzene	1772-10-7	237.17	14.375	2	22768	C11H21I	cis-1-iodo-1-undecene	66142-63-0	266.21	28.854	2
22317	C11H16	1-methyl-4-sec-butylbenzene	1595-16-0	237.17	14.375	2	22769	C11H21I	trans-1-iodo-1-undecene	66142-64-1	266.21	28.854	2
22318	C11H16	1-methyl-2-isobutylbenzene	36301-29-8	199.85	14.375	2	22770	C11H21I3	1,1,1-triiodoundecane	---	389.83	30.050	2
22319	C11H16	1-methyl-3-isobutylbenzene	5160-99-6	237.17	14.375	2	22771	C11H21N	undecanenitrile	2244-07-7	267.35	25.752	2
22320	C11H16	1-methyl-4-isobutylbenzene	5161-04-6	237.17	14.375	2	22791	C11H22	hexylcyclopentane	4457-00-5	200.16	18.181	2
22321	C11H16	1-methyl-2-tert-butyl benzene	1074-92-6	222.83	10.484	2	22792	C11H22	pentylcyclohexane	4292-92-6	215.66	19.297	2
22322	C11H16	1-methyl-3-tert-butylbenzene	1075-38-3	231.78	10.484	2	22793	C11H22	isopentylcyclohexane	54105-76-9	215.66	19.297	2
22323	C11H16	1-methyl-4-tert-butylbenzene	98-51-1	220.64	10.484	2	22795	C11H22	1-undecene	821-95-4	223.99	16.990	1
22324	C11H16	1-ethyl-2-propylbenzene	16021-20-8	252.17	17.898	2	22796	C11H22	cis-2-undecene	821-96-5	206.65	17.862	2
22325	C11H16	1-ethyl-3-propylbenzene	20024-91-3	252.17	17.898	2	22797	C11H22	trans-2-undecene	693-61-8	224.85	17.862	2
22326	C11H16	1-ethyl-4-propylbenzene	20024-90-2	252.17	17.898	2	22798	C11H22	3-undecene	60669-40-1	211.15	17.862	2
22327	C11H16	1-ethyl-2-isopropylbenzene	18970-44-0	237.17	14.375	2	22799	C11H22	cis-4-undecene	821-98-7	176.15	17.862	2
22328	C11H16	1-ethyl-3-isopropylbenzene	4920-99-4	237.17	14.375	2	22800	C11H22	trans-4-undecene	693-62-9	209.45	17.862	2
22329	C11H16	1-ethyl-4-isopropylbenzene	4218-48-8	237.17	14.375	2	22801	C11H22	cis-5-undecene	764-96-5	166.65	17.862	2
22330	C11H16	1,2-dimethyl-3-propylbenzene	17059-44-8	264.69	17.509	2	22802	C11H22	trans-5-undecene	764-97-6	212.05	17.862	2
22331	C11H16	1,2-dimethyl-4-propylbenzene	3982-66-9	253.15	17.509	2	22803	C11H22	2-methyl-1-decene	13151-27-4	221.67	21.656	2
22332	C11H16	1,3-dimethyl-2-propylbenzene	17059-45-9	264.69	17.509	2	22805	C11H22Br2	1,1-dibromoundecane	62168-28-9	317.83	31.293	2
22333	C11H16	1,3-dimethyl-4-propylbenzene	61827-85-8	264.69	17.509	2	22806	C11H22Br2	1,11-dibromoundecane	16696-65-4	439.15	37.265	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
22807	C11H22Cl2	1,1-dichloroundecane	822-01-5	258.07	29.117	2	22936	C11H24	2,3,6-trimethyloctane	62016-33-5	168.23	17.780	2
22809	C11H22F2	1,1-difluoroundecane	62127-44-0	262.53	26.883	2	22937	C11H24	2,3,7-trimethyloctane	62016-34-6	168.23	17.780	2
22810	C11H22I2	1,1-diiodoundecane	66142-53-8	314.35	29.535	2	22938	C11H24	2,4,4-trimethyloctane	62016-35-7	200.65	17.302	2
22822	C11H22O	undecanal	112-44-7	273.15	38.330	1	22939	C11H24	2,4,5-trimethyloctane	62016-36-8	168.23	17.780	2
22823	C11H22O	2-undecanone	112-12-9	285.95	33.599	2	22940	C11H24	2,4,6-trimethyloctane	62016-37-9	168.23	17.780	2
22824	C11H22O	3-undecanone	2216-87-7	285.15	33.096	2	22941	C11H24	2,4,7-trimethyloctane	62016-38-0	168.23	17.780	2
22825	C11H22O	4-undecanone	14476-37-0	275.45	33.096	2	22942	C11H24	2,5,5-trimethyloctane	62016-39-1	200.65	17.302	2
22826	C11H22O	5-undecanone	33083-83-9	274.15	33.096	2	22943	C11H24	2,5,6-trimethyloctane	62016-14-2	168.23	17.780	2
22827	C11H22O	6-undecanone	927-49-1	287.65	33.096	2	22944	C11H24	2,6,6-trimethyloctane	54166-32-4	200.65	17.302	2
22834	C11H22O	2-methyl-1-decanal	19009-56-4	273.15	38.330	2	22945	C11H24	3,3,4-trimethyloctane	62016-40-4	200.65	17.302	2
22835	C11H22O2	undecanoic acid	112-37-8	301.65	25.980	1	22946	C11H24	3,3,5-trimethyloctane	62016-41-5	200.65	17.302	2
22836	C11H22O2	decyl formate	5451-52-5	271.93	30.297	2	22947	C11H24	3,3,6-trimethyloctane	62016-42-6	200.65	17.302	2
22837	C11H22O2	nonyl acetate	143-13-5	247.15	28.615	2	22948	C11H24	3,4,4-trimethyloctane	62016-43-7	200.65	17.302	2
22838	C11H22O2	octyl propanoate	142-60-9	231.55	28.615	2	22949	C11H24	3,4,5-trimethyloctane	62016-44-8	168.23	17.780	2
22839	C11H22O2	heptyl butanoate	5870-93-9	215.65	28.615	2	22950	C11H24	3,4,6-trimethyloctane	62016-45-9	168.23	17.780	2
22840	C11H22O2	butyl heptanoate	5454-28-4	205.65	19.500	2	22951	C11H24	3,5,5-trimethyloctane	61868-94-8	200.65	17.302	2
22841	C11H22O2	ethyl nonanoate	123-29-5	236.45	21.499	2	22952	C11H24	4,4,5-trimethyloctane	61868-95-9	200.65	17.302	2
22842	C11H22O2	hexyl pentanoate	1117-59-5	210.05	21.499	2	22953	C11H24	4-tert-butylheptane	50302-21-8	200.65	17.302	2
22843	C11H22O2	isopentyl hexanoate	2198-61-0	226.73	21.499	2	22954	C11H24	2-methyl-4-propylheptane	61868-96-0	183.23	22.360	2
22844	C11H22O2	pentyl hexanoate	540-07-8	226.15	21.499	2	22955	C11H24	3-methyl-4-propylheptane	61868-97-1	183.23	22.360	2
22845	C11H22O2	isobutyl heptanoate	7779-80-8	226.73	21.499	2	22956	C11H24	4-methyl-4-propylheptane	17302-20-4	215.65	21.882	2
22846	C11H22O2	isopropyl octanoate	5458-59-3	226.73	21.499	2	22957	C11H24	2-methyl-3-isopropylheptane	6876-18-2	168.23	17.780	2
22847	C11H22O2	propyl octanoate	624-13-5	226.95	21.499	2	22958	C11H24	2-methyl-4-isopropylheptane	61868-98-2	168.23	17.780	2
22848	C11H22O2	methyl decanoate	110-42-9	255.15	21.499	2	22959	C11H24	3-methyl-4-isopropylheptane	61868-99-3	168.23	17.780	2
22851	C11H22O2	6-methyldecanoic acid	53696-14-3	301.65	25.980	2	22960	C11H24	4-methyl-4-isopropylheptane	61869-00-9	200.65	17.302	2
22853	C11H22O2	hexyl 2,2-dimethylpropanoate	5434-57-1	231.55	28.615	2	22961	C11H24	3,3-diethylheptane	17302-17-9	215.65	21.882	2
22854	C11H22O2	hexyl isovalerate	10032-13-0	226.73	21.499	2	22962	C11H24	3,4-diethylheptane	61869-01-0	183.23	22.360	2
22855	C11H22O2	hexyl 2-methylbutyrate	10032-15-2	226.73	21.499	2	22963	C11H24	3,5-diethylheptane	61869-02-1	183.23	22.360	2
22856	C11H22O2	3,5,5-trimethylhexyl acetate	58430-94-7	247.15	28.615	2	22964	C11H24	4,4-diethylheptane	17302-21-5	215.65	21.882	2
22870	C11H23Br	1-bromoundecane	693-67-4	263.45	33.470	1	22965	C11H24	2,2-dimethyl-3-ethylheptane	61869-03-2	200.65	17.302	2
22872	C11H23Cl	1-chloroundecane	2473-03-2	256.25	28.443	2	22966	C11H24	2,2-dimethyl-4-ethylheptane	62016-46-0	200.65	17.302	2
22875	C11H23F	1-fluoroundecane	506-05-8	257.15	27.326	2	22967	C11H24	2,2-dimethyl-5-ethylheptane	62016-47-1	200.65	17.302	2
22876	C11H23I	1-iodoundecane	4282-44-4	275.15	28.652	2	22968	C11H24	2,3-dimethyl-3-ethylheptane	61868-21-1	200.65	17.302	2
22885	C11H23NO2	1-nitroundecane	2216-25-3	356.84	32.046	2	22969	C11H24	2,3-dimethyl-4-ethylheptane	61868-22-2	168.23	17.780	2
22890	C11H24	undecane	1120-21-4	247.57	22.200	1	22970	C11H24	2,3-dimethyl-5-ethylheptane	61868-23-3	168.23	17.780	2
22891	C11H24	2-methyldecane	6975-98-0	224.31	25.087	1	22971	C11H24	2,4-dimethyl-3-ethylheptane	61868-24-4	168.23	17.780	2
22892	C11H24	3-methyldecane	13151-34-3	180.25	20.723	2	22972	C11H24	2,4-dimethyl-4-ethylheptane	61868-25-5	247.15	17.302	2
22893	C11H24	4-methyldecane	2847-72-5	181.15	20.723	2	22973	C11H24	2,4-dimethyl-5-ethylheptane	61868-26-6	168.23	17.780	2
22894	C11H24	5-methyldecane	13151-35-4	198.23	20.723	2	22974	C11H24	2,5-dimethyl-3-ethylheptane	61868-27-7	168.23	17.780	2
22895	C11H24	3-ethylnonane	17302-11-3	198.23	20.723	2	22975	C11H24	2,5-dimethyl-4-ethylheptane	61868-28-8	168.23	17.780	2
22896	C11H24	4-ethylnonane	5911-05-7	198.23	20.723	2	22976	C11H24	2,5-dimethyl-5-ethylheptane	61868-29-9	200.65	17.302	2
22897	C11H24	5-ethylnonane	17302-12-4	198.23	20.723	2	22977	C11H24	2,6-dimethyl-3-ethylheptane	61868-30-2	168.23	17.780	2
22898	C11H24	2,2-dimethylnonane	17302-14-6	215.65	16.832	2	22978	C11H24	2,6-dimethyl-4-ethylheptane	61868-31-3	168.23	17.780	2
22899	C11H24	2,3-dimethylnonane	2884-06-2	183.23	17.200	2	22979	C11H24	3,3-dimethyl-4-ethylheptane	61868-32-4	200.65	17.302	2
22900	C11H24	2,4-dimethylnonane	17302-24-8	183.23	17.200	2	22980	C11H24	3,3-dimethyl-5-ethylheptane	61868-33-5	200.65	17.302	2
22901	C11H24	2,5-dimethylnonane	17302-27-1	183.23	17.200	2	22981	C11H24	3,4-dimethyl-3-ethylheptane	61868-34-6	200.65	17.302	2
22902	C11H24	2,6-dimethylnonane	17302-28-2	183.23	17.200	2	22982	C11H24	3,4-dimethyl-4-ethylheptane	61868-35-7	200.65	17.302	2
22903	C11H24	2,7-dimethylnonane	17302-29-3	183.23	17.200	2	22983	C11H24	3,4-dimethyl-5-ethylheptane	61868-36-8	168.23	17.780	2
22904	C11H24	2,8-dimethylnonane	17302-30-6	183.23	17.200	2	22984	C11H24	3,5-dimethyl-3-ethylheptane	61868-37-9	200.65	17.302	2
22905	C11H24	3,3-dimethylnonane	17302-15-7	215.65	16.832	2	22985	C11H24	3,5-dimethyl-4-ethylheptane	61868-38-0	168.23	17.780	2
22906	C11H24	3,4-dimethylnonane	17302-22-6	183.23	17.200	2	22986	C11H24	4,4-dimethyl-3-ethylheptane	61868-39-1	200.65	17.302	2
22907	C11H24	3,5-dimethylnonane	17302-25-9	183.23	17.200	2	22987	C11H24	2,2,3,3-tetramethylheptane	61868-40-4	218.07	14.127	2
22908	C11H24	3,6-dimethylnonane	17302-31-7	183.23	17.200	2	22988	C11H24	2,2,3,4-tetramethylheptane	61868-41-5	185.65	14.679	2
22909	C11H24	3,7-dimethylnonane	17302-32-8	183.23	17.200	2	22989	C11H24	2,2,3,5-tetramethylheptane	61868-42-6	185.65	14.679	2
22910	C11H24	4,4-dimethylnonane	17302-18-0	215.65	16.832	2	22990	C11H24	2,2,3,6-tetramethylheptane	61868-43-7	185.65	14.679	2
22911	C11H24	4,5-dimethylnonane	17302-23-7	183.23	17.200	2	22991	C11H24	2,2,4,4-tetramethylheptane	61868-44-8	218.07	14.127	2
22912	C11H24	4,6-dimethylnonane	17302-26-0	183.23	17.200	2	22992	C11H24	2,2,4,5-tetramethylheptane	61868-45-9	185.65	14.679	2
22913	C11H24	5,5-dimethylnonane	6414-96-6	215.65	16.832	2	22993	C11H24	2,2,4,6-tetramethylheptane	61868-46-0	185.65	14.679	2
22914	C11H24	4-propyloctane	17302-13-5	198.23	20.723	2	22994	C11H24	2,2,5,5-tetramethylheptane	61868-47-1	218.07	14.127	2
22915	C11H24	4-isopropyloctane	62016-15-3	183.23	17.200	2	22995	C11H24	2,2,5,6-tetramethylheptane	61868-48-2	185.65	14.679	2
22916	C11H24	2-methyl-3-ethyloctane	62016-16-4	183.23	17.200	2	22996	C11H24	2,2,6,6-tetramethylheptane	40117-45-1	218.07	14.127	2
22917	C11H24	2-methyl-4-ethyloctane	62016-17-5	183.23	17.200	2	22997	C11H24	2,3,3,4-tetramethylheptane	61868-49-3	185.65	14.679	2
22918	C11H24	2-methyl-5-ethyloctane	62016-18-6	183.23	17.200	2	22998	C11H24	2,3,3,5-tetramethylheptane	61868-50-6	185.65	14.679	2
22919	C11H24	2-methyl-6-ethyloctane	62016-19-7	183.23	17.200	2	22999	C11H24	2,3,3,6-tetramethylheptane	61868-51-7	185.65	14.679	2
22920	C11H24	3-methyl-3-ethyloctane	17302-16-8	215.65	16.832	2	23000	C11H24	2,3,4,4-tetramethylheptane	61868-52-8	185.65	14.679	2
22921	C11H24	3-methyl-4-ethyloctane	62016-20-0	183.23	17.200	2	23001	C11H24	2,3,4,5-tetramethylheptane	61868-53-9	153.23	15.231	2
22922	C11H24	3-methyl-5-ethyloctane	62016-21-1	183.23	17.200	2	23002	C11H24	2,3,4,6-tetramethylheptane	61868-54-0	153.23	15.231	2
22923	C11H24	3-methyl-6-ethyloctane	62016-22-2	183.23	17.200	2	23003	C11H24	2,3,5,5-tetramethylheptane	61868-55-1	185.65	14.679	2
22924	C11H24	4-methyl-3-ethyloctane	62016-23-3	183.23	17.200	2	23004	C11H24	2,3,5,6-tetramethylheptane	52670-32-3	153.23	15.231	2
22925	C11H24	4-methyl-4-ethyloctane	17302-19-1	215.65	16.832	2	23005	C11H24	2,4,4,5-tetramethylheptane	61868-56-2	185.65	14.679	2
22926	C11H24	4-methyl-5-ethyloctane	62016-24-4	183.23	17.200	2	23006	C11H24	2,4,4,6-tetramethylheptane	61868-57-3	185.65	14.679	2
22927	C11H24	4-methyl-6-ethyloctane	62016-25-5	183.23	17.200	2	23007	C11H24	2,4,5,5-tetramethylheptane	61868-58-4	185.65	14.679	2
22928	C11H24	2,2,3-trimethyloctane	62016-26-6	200.65	17.302	2	23008	C11H24	3,3,4,4-tetramethylheptane	61868-59-5	218.07	14.127	2
22929	C11H24	2,2,4-trimethyloctane	18932-14-4	200.65	17.302	2	23009	C11H24	3,3,4,5-tetramethylheptane	61868-60-8	185.65	14.679	2
22930	C11H24	2,2,5-trimethyloctane	62016-27-7	200.65	17.302	2	23010	C11H24	3,3,5,5-tetramethylheptane	61868-61-9	218.07	14.127	2
22931	C11H24	2,2,6-trimethyloctane	62016-28-8	200.65	17.302	2	23011	C11H24	3,4,4,5-tetramethylheptane	61868-62-0	185.65	14.679	2
22932	C11H24	2,2,7-trimethyloctane	62016-29-9	200.65	17.302	2	23012	C11H24	2,2-dimethyl-3-isopropylhexane	61868-63-1	185.65	14.679	2
22933	C11H24	2,3,3-trimethyloctane	62016-30-2	200.65	17.302	2	23013	C11H24	2,3-dimethyl-3-isopropylhexane	61868-64-2	185.65	14.679	2
22934	C11H24	2,3,4-trimethyloctane	62016-31-3	168.23	17.780	2	23014	C11H24	2,4-dimethyl-3-isopropylhexane	61868-65-3	153.23	15.231	2
22935	C11H24	2,3,5-trimethyloctane	62016-32-4	168.23	17.780	2	23015	C11H24	2,5-dimethyl-3-isopropylhexane	61868-66-4	153.23	15.231	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
23016	C11H24	2-methyl-3,3-diethylhexane	61868-67-5	200.65	19.964	2	23683	C12H12	2,6-dimethylnaphthalene	581-42-0	384.55	25.060	1
23017	C11H24	2-methyl-3,4-diethylhexane	61868-68-6	168.23	20.516	2	23684	C12H12	2,7-dimethylnaphthalene	582-16-1	368.81	23.351	1
23018	C11H24	2-methyl-4,4-diethylhexane	61868-69-7	200.65	19.964	2	23685	C12H12	1-ethylnaphthalene	1127-76-0	259.34	16.300	1
23019	C11H24	3-methyl-3,4-diethylhexane	61868-70-0	200.65	19.964	2	23686	C12H12	2-ethylnaphthalene	939-27-5	265.76	17.507	2
23020	C11H24	3-methyl-4,4-diethylhexane	61868-71-1	200.65	19.964	2	23687	C12H12	dimethylnaphthalene, isomers	28804-88-8	307.53	17.926	2
23021	C11H24	2,2,3-trimethyl-3-ethylhexane	61868-72-2	218.07	14.127	2	23719	C12H12N2	hydrazobenzene	122-66-7	404.15	17.630	1
23022	C11H24	2,2,3-trimethyl-4-ethylhexane	61868-73-3	185.65	14.679	2	24002	C12H14O4	diethyl phthalate	84-66-2	269.15	17.984	2
23023	C11H24	2,2,4-trimethyl-3-ethylhexane	61868-74-4	185.65	14.679	2	24111	C12H16	cyclohexylbenzene	827-52-1	280.50	15.270	1
23024	C11H24	2,2,4-trimethyl-4-ethylhexane	61868-75-5	218.07	14.127	2	24112	C12H16	1-ethyl-[1,2,3,4-tetrahydronaphthalene]	13556-58-6	243.57	16.523	2
23025	C11H24	2,2,5-trimethyl-3-ethylhexane	61868-76-6	185.65	14.679	2	24113	C12H16	2-ethyl-[1,2,3,4-tetrahydronaphthalene]	32367-54-7	224.75	16.523	2
23026	C11H24	2,2,5-trimethyl-4-ethylhexane	61868-77-7	185.65	14.679	2	24114	C12H16	5-ethyl-1,2,3,4-tetrahydronaphthalene	42775-75-7	228.65	17.946	2
23027	C11H24	2,3,3-trimethyl-4-ethylhexane	61868-78-8	185.65	14.679	2	24115	C12H16	6-ethyl-1,2,3,4-tetrahydronaphthalene	22531-20-0	203.15	17.946	2
23028	C11H24	2,3,4-trimethyl-3-ethylhexane	61868-79-9	185.65	14.679	2	24116	C12H16	1,2,3,4-tetrahydro-1,3-dimethylnaphthalene	5195-37-9	253.92	17.946	2
23029	C11H24	2,3,4-trimethyl-4-ethylhexane	61868-80-2	185.65	14.679	2	24117	C12H16	1,2,3,4-tetrahydro-1,4-dimethylnaphthalene	4175-54-6	253.92	17.946	2
23030	C11H24	2,3,5-trimethyl-3-ethylhexane	61868-81-3	185.65	14.679	2	24118	C12H16	1,2,3,4-tetrahydro-1,5-dimethylnaphthalene	21564-91-0	253.92	17.946	2
23031	C11H24	2,3,5-trimethyl-4-ethylhexane	61868-82-4	153.23	15.231	2	24119	C12H16	1,2,3,4-tetrahydro-2,2-dimethylnaphthalene	13556-55-3	253.92	17.946	2
23032	C11H24	2,4,4-trimethyl-3-ethylhexane	61868-83-5	185.65	14.679	2	24120	C12H16	1,2,3,4-tetrahydro-2,3-dimethylnaphthalene	21564-92-1	270.65	17.946	2
23033	C11H24	3,3,4-trimethyl-4-ethylhexane	61868-84-6	218.07	14.127	2	24121	C12H16	1,2,3,4-tetrahydro-2,5-dimethylnaphthalene	25419-37-8	253.92	17.946	2
23034	C11H24	2,2,3,3,4-pentamethylhexane	61868-85-7	203.07	8.843	2	24122	C12H16	1,2,3,4-tetrahydro-2,6-dimethylnaphthalene	7524-63-2	293.15	17.946	2
23035	C11H24	2,2,3,3,5-pentamethylhexane	61868-86-8	203.07	8.843	2	24123	C12H16	1,2,3,4-tetrahydro-2,7-dimethylnaphthalene	13065-07-1	253.92	17.946	2
23036	C11H24	2,2,3,4,4-pentamethylhexane	61868-87-9	203.07	8.843	2	24124	C12H16	1,2,3,4-tetrahydro-2,8-dimethylnaphthalene	25419-36-7	253.92	17.946	2
23037	C11H24	2,2,3,4,5-pentamethylhexane	61868-88-0	170.65	9.395	2	24125	C12H16	1,2,3,4-tetrahydro-5,6-dimethylnaphthalene	20027-77-4	253.92	17.946	2
23038	C11H24	2,2,3,5,5-pentamethylhexane	14739-73-2	203.07	8.843	2	24126	C12H16	1,2,3,4-tetrahydro-5,7-dimethylnaphthalene	21693-54-9	267.15	17.946	2
23039	C11H24	2,2,4,4,5-pentamethylhexane	60302-23-0	203.07	8.843	2	24127	C12H16	1,2,3,4-tetrahydro-5,8-dimethylnaphthalene	14108-88-4	271.05	17.946	2
23040	C11H24	2,3,3,4,4-pentamethylhexane	61868-89-1	203.07	8.843	2	24128	C12H16	1,2,3,4-tetrahydro-6,7-dimethylnaphthalene	1076-61-5	283.15	17.946	2
23041	C11H24	2,3,3,4,5-pentamethylhexane	52670-33-4	170.65	9.395	2	24129	C12H16	1,2,3,4-tetrahydro-1,1-dimethylnaphthalene	1985-59-7	253.92	17.946	2
23042	C11H24	2,2,4-trimethyl-3-isopropylpentane	61868-90-4	170.65	9.395	2	24130	C12H16	1,2,3,4-tetrahydro-1,2-dimethylnaphthalene	5195-40-4	253.92	17.946	2
23043	C11H24	2,3,4-trimethyl-3-isopropylpentane	61868-91-5	170.65	9.395	2	24357	C12H18	hexylbenzene	1077-16-3	212.00	18.410	1
23044	C11H24	2,2-dimethyl-3,3-diethylpentane	60302-28-5	218.07	14.127	2	24358	C12H18	1,4-dipropylbenzene	4815-57-0	249.75	19.340	2
23045	C11H24	2,4-dimethyl-3,3-diethylpentane	61868-92-6	185.65	14.679	2	24359	C12H18	diisopropylbenzene	25321-09-9	249.75	19.340	2
23046	C11H24	2,2,3,4-tetramethyl-3-ethylpentane	61868-93-7	203.07	8.843	2	24360	C12H18	1,2-diisopropylbenzene	577-55-9	216.15	19.340	2
23047	C11H24	2,2,4,4-tetramethyl-3-ethylpentane	---	203.07	8.843	2	24361	C12H18	m-diisopropylbenzene	99-62-7	210.02	13.442	2
23048	C11H24	2,2,3,3,4,4-hexamethylpentane	60302-27-4	220.49	3.006	2	24362	C12H18	p-diisopropylbenzene	100-18-5	256.08	13.442	2
23055	C11H24O	1-undecanol	112-42-5	289.05	37.400	2	24363	C12H18	triethylbenzene; (mixed isomers)	25340-18-5	249.75	19.340	2
23056	C11H24O	2-undecanol	1653-30-1	273.15	28.533	2	24364	C12H18	1,2,3-triethylbenzene	42205-08-3	206.66	20.099	2
23057	C11H24O	2-undecanol, (±)	113666-64-1	285.15	33.341	2	24365	C12H18	1,2,4-triethylbenzene	877-44-1	206.66	20.099	2
23058	C11H24O	3-undecanol, (R)-	107494-37-1	290.15	33.341	2	24366	C12H18	1,3,5-triethylbenzene	102-25-0	206.66	20.099	2
23059	C11H24O	5-undecanol	37493-70-2	271.35	33.341	2	24367	C12H18	1-tert-butyl-3,5-dimethylbenzene	98-19-1	255.15	19.340	2
23060	C11H24O	6-undecanol	23708-56-7	298.15	33.341	2	24368	C12H18	(1,1-dimethylbutyl)benzene	1985-57-5	249.75	19.340	2
23061	C11H24O	2,8-dimethyl-5-nonanol	19780-96-2	285.15	33.341	2	24369	C12H18	2,4-dimethyl-1-sec-butylbenzene	1483-60-9	249.75	19.340	2
23062	C11H24O	undecanol	30207-98-8	289.05	33.341	2	24370	C12H18	(1-ethylbutyl)benzene	4468-42-2	217.75	19.340	2
23063	C11H24O	5-ethyl-2-nonanol	103-08-2	285.15	33.341	2	24371	C12H18	(1-ethyl-1-methylpropyl)benzene	1985-97-3	249.75	19.340	2
23081.1	C11H24O4	tripropylene glycol monoethyl ether	75899-69-3	256.50	28.350	2	24372	C12H18	(1-methylpentyl)benzene	6031-02-3	249.75	19.340	2
23084	C11H24S	1-undecanethiol	5332-52-5	270.15	39.900	2	24373	C12H18	(3-methylpentyl)benzene	54410-69-4	249.75	19.340	2
23085	C11H24S	2-undecanethiol	62155-02-6	239.15	29.718	2	24374	C12H18	(4-methylpentyl)benzene	4215-86-5	249.75	19.340	2
23086	C11H24S	methyl decyl sulfide	22438-39-7	254.66	28.376	2	24375	C12H18	1,2,4-trimethyl-5-isopropylbenzene	10222-95-4	294.15	19.340	2
23087	C11H24S	ethyl nonyl sulfide	59973-08-9	254.66	28.376	2	24376	C12H18	4-tert-butyl-o-xylene	7397-06-0	249.75	19.340	2
23088	C11H24S	propyl octyl sulfide	3698-93-9	254.66	28.376	2	24377	C12H18	hexamethyldewarbenzene	7641-77-2	277.00	19.340	2
23089	C11H24S	butyl heptyl sulfide	40813-84-1	254.66	28.376	2	24378	C12H18	hexamethylbenzene	87-85-4	438.66	20.600	1
23090	C11H25N	undecylamine	7307-55-3	288.26	35.332	2	24378.1	C12H18	p-tert-butyl ethylbenzene	7364-19-4	234.80	11.900	2
23091	C11H25N	methyldecylamine	7516-82-7	277.15	29.255	2	24378.2	C12H18	1,5,9-cyclododecatriene	706-31-0	256.35	12.200	2
23092	C11H25N	ethylnonylamine	66563-84-6	277.15	29.255	2	24378.3	C12H18	1,2,3-triethylebenzene	42205-08-3	215.00	15.400	2
23093	C11H25N	dimethylnonylamine	17373-27-2	215.00	27.267	2	24433	C12H18O	2-tert-butyl-4,5-dimethylphenol	1445-23-4	319.15	25.000	2
23094	C11H25N	diethylheptylamine	26981-81-7	215.00	27.267	2	24434	C12H18O	2-tert-butyl-4,6-dimethylphenol	1879-09-0	295.45	24.372	2
23095	C11H25N	4-ethyl-1-methyloctylamine	10024-78-9	288.26	35.332	2	24435	C12H18O	4-tert-butyl-2,5-dimethylphenol	17696-37-6	344.35	24.372	2
23261	C12H8	acenaphthylene	208-96-8	362.60	6.940	1	24436	C12H18O	4-tert-butyl-2,6-dimethylphenol	879-97-0	355.55	24.372	2
23308	C12H8N2	phenazine	92-82-0	447.89	18.880	1	24446	C12H18O	4-(1,1-dimethylpropyl)-2-methylphenol	71745-63-6	288.15	24.372	2
23309	C12H8N2	benzo[c]cinnoline	230-17-1	429.00	20.900	1	24447	C12H18O	2,6-dipropylphenol	6626-32-0	300.15	24.372	2
23335	C12H8O	dibenzofuran	132-64-9	355.65	22.700	1	24448	C12H18O	5-methyl-2-pentylphenol	1300-94-3	297.15	24.372	2
23336	C12H8OS	phenoxathiin	262-20-4	328.78	20.267	1	24451	C12H18O	6-n-amyl-m-cresol	53043-14-4	297.15	24.372	2
23348	C12H8S	dibenzothiophene	132-65-0	371.82	21.708	1	24452	C12H18O	2-tert-butyl-4-ethylphenol	96-70-8	303.15	24.372	2
23349	C12H8S2	thianthrene	92-85-3	429.58	27.555	1	24457	C12H18O	3,5-bis(1-methylethyl)phenol	26886-05-5	311.14	24.372	2
23365	C12H9Cl	2-chlorobiphenyl	2051-60-7	304.94	14.518	1	24458	C12H18O	2,4-bis(1-methylethyl)phenol	2934-05-6	311.14	24.372	2
23366	C12H9Cl	3-chlorobiphenyl	2051-61-8	289.15	13.483	2	24461	C12H18O	2-hexylphenol	3226-32-2	311.14	24.372	2
23367	C12H9Cl	4-chlorobiphenyl	2051-62-9	348.55	13.318	1	24653	C12H22	1-dodecyne	765-03-7	254.16	29.810	2
23394	C12H9N	dibenzopyrrole	86-74-8	517.95	24.100	1	24654	C12H22	2-dodecyne	629-49-2	264.15	29.956	2
23437.1	C12H9N3O4	4,4'-dinitrodiphenylamine	1821-27-8	491.05	30.800	2	24655	C12H22	3-dodecyne	6790-27-8	330.60	29.956	2
23444	C12H10	acenaphthene	83-32-9	366.56	21.462	1	24656	C12H22	6-dodecyne	6975-99-1	282.97	30.307	2
23445	C12H10	phenylbenzene (biphenyl)	92-52-4	342.37	18.577	1	24657	C12H22	3,3-dimethyl-4-decyne	70732-45-5	282.97	30.307	2
23488	C12H10N2	azobenzene	17082-12-1	340.50	22.368	1	24658	C12H22	4a-ethyl-cis-decahydronaphthalene	66553-61-5	236.31	15.777	2
23519	C12H10O	diphenyl ether	101-84-8	300.03	17.215	1	24659	C12H22	4a-ethyl-trans-decahydronaphthalene	66553-62-6	248.92	15.777	2
23609	C12H11N	diphenylamine	122-39-4	326.15	18.500	1	24660	C12H22	1-ethyl,cis-decahydronaphthalene	---	236.31	15.777	2
23675	C12H12	1,2-dimethylnaphthalene	573-98-8	272.16	17.118	2	24661	C12H22	1-ethyl-trans-decahydronaphthalene	---	248.92	15.777	2
23676	C12H12	1,3-dimethylnaphthalene	575-41-7	269.16	17.118	2	24662	C12H22	2-ethyl-cis-decahydronaphthalene	---	236.31	15.777	2
23677	C12H12	1,4-dimethylnaphthalene	571-58-4	280.82	10.600	1	24663	C12H22	2-ethyl-trans-decahydronaphthalene	---	248.92	15.777	2
23678	C12H12	1,5-dimethylnaphthalene	571-61-9	355.16	17.118	2	24664	C12H22	1,4a-dimethyl-cis-decahydronaphthalene	---	219.94	16.848	2
23679	C12H12	1,6-dimethylnaphthalene	575-43-9	259.16	17.118	2	24665	C12H22	1,4a-dimethyl-trans-decahydronaphthalene	---	232.55	16.848	2
23680	C12H12	1,7-dimethylnaphthalene	575-37-1	260.16	17.118	2	24666	C12H22	1-heptylcyclopentene	4292-00-6	200.59	21.993	2
23681	C12H12	1,8-dimethylnaphthalene	569-41-5	337.15	15.780	1	24782.1	C12H22S	dicyclohexyl sulfide	7133-46-2	283.05	10.900	2
23682	C12H12	2,3-dimethylnaphthalene	581-40-8	378.16	19.350	1	24787	C12H23Br	cis-1-bromo-1-dodecene	66553-39-7	279.22	32.323	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
24788	C12H23Br	trans-1-bromo-1-dodecene	66553-40-0	279.22	32.323	2	24935	C12H26	3,8-dimethyldecane	17312-55-9	194.50	19.790	2
24791	C12H23Br3	1,1,1-tribromododecane	62127-69-9	406.32	35.277	2	24936	C12H26	4,4-dimethyldecane	17312-39-9	226.92	19.422	2
24792	C12H23Cl	cis-1-chloro-1-dodecene	66553-41-1	249.34	31.235	2	24937	C12H26	4,5-dimethyldecane	17312-46-8	194.50	19.790	2
24793	C12H23Cl	trans-1-chloro-1-dodecene	66553-42-2	249.34	31.235	2	24938	C12H26	4,6-dimethyldecane	17312-49-1	194.50	19.790	2
24795	C12H23Cl3	1,1,1-trichlorododecane	62108-57-0	316.68	32.013	2	24939	C12H26	4,7-dimethyldecane	17312-56-0	194.50	19.790	2
24796	C12H23F	cis-1-fluoro-1-dodecene	66553-43-3	251.57	30.118	2	24940	C12H26	5,5-dimethyldecane	17453-92-8	226.92	19.422	2
24797	C12H23F	trans-1-fluoro-1-dodecene	66553-44-4	251.57	30.118	2	24941	C12H26	5,6-dimethyldecane	1636-43-7	194.50	19.790	2
24799	C12H23F3	1,1,1-trifluorododecane	764-84-1	323.37	28.662	2	24942	C12H26	4-propylnonane	6165-37-3	209.50	23.313	2
24800	C12H23I	cis-1-iodo-1-dodecene	66553-45-5	277.48	31.444	2	24943	C12H26	5-propylnonane	998-35-6	209.50	23.313	2
24801	C12H23I	trans-1-iodo-1-dodecene	66553-46-6	277.48	31.444	2	24944	C12H26	4-isopropylnonane	62184-71-8	194.50	19.790	2
24802	C12H23I3	1,1,1-triiodododecane	---	401.10	32.640	2	24945	C12H26	5-isopropylnonane	62184-72-9	194.50	19.790	2
24805	C12H23N	dodecanenitrile	2437-25-4	277.15	28.342	2	24946	C12H26	2-methyl-3-ethylnonane	62184-73-0	194.50	19.790	2
24818	C12H24	heptylcyclopentane	5617-42-5	220.00	20.771	2	24947	C12H26	2-methyl-4-ethylnonane	62184-37-6	194.50	19.790	2
24819	C12H24	hexylcyclohexane	4292-75-5	263.60	22.175	1	24948	C12H26	2-methyl-5-ethylnonane	62184-38-7	194.50	19.790	2
24820	C12H24	1-methyl-2-pentylcyclohexane	54411-01-7	263.60	22.175	2	24949	C12H26	2-methyl-6-ethylnonane	62184-39-8	194.50	19.790	2
24823	C12H24	1-dodecene	112-41-4	237.93	19.900	1	24950	C12H26	2-methyl-7-ethylnonane	62184-40-1	194.50	19.790	2
24823.1	C12H24	cis-2-dodecene	7206-26-0	233.00	28.300	2	24951	C12H26	3-methyl-3-ethylnonane	17302-39-5	226.92	19.422	2
24823.2	C12H24	trans-2-dodecene	7206-13-5	243.00	29.600	2	24952	C12H26	3-methyl-4-ethylnonane	62184-41-2	194.50	19.790	2
24824	C12H24	2-methyl-1-undecene	18516-37-5	232.38	24.246	2	24953	C12H26	3-methyl-5-ethylnonane	62184-42-3	194.50	19.790	2
24825	C12H24	4,4-dimethyl-2-neopentyl-1-pentene	141-70-8	271.55	22.064	2	24954	C12H26	3-methyl-6-ethylnonane	62184-43-4	194.50	19.790	2
24826	C12H24	2,2,4,6,6-pentamethyl-3-heptene	123-48-8	234.75	22.064	2	24955	C12H26	3-methyl-7-ethylnonane	62184-44-5	194.50	19.790	2
24827	C12H24	trans-2,2,4,6,6-pentamethyl-3-heptene	27656-50-4	234.75	22.064	2	24956	C12H26	4-methyl-3-ethylnonane	62184-45-6	194.50	19.790	2
24828	C12H24	isobutene, trimer	7756-94-7	197.15	22.064	2	24957	C12H26	4-methyl-4-ethylnonane	17312-40-2	226.92	19.422	2
24831	C12H24Br2	1,1-dibromododecane	62168-29-0	329.10	33.883	2	24958	C12H26	4-methyl-5-ethylnonane	62184-46-7	194.50	19.790	2
24832	C12H24Br2	1,12-dibromododecane	3344-70-5	314.15	33.113	2	24959	C12H26	4-methyl-6-ethylnonane	62184-47-8	194.50	19.790	2
24833	C12H24Cl2	1,1-dichlorododecane	62017-17-8	269.34	31.707	2	24960	C12H26	4-methyl-7-ethylnonane	62184-48-9	194.50	19.790	2
24834	C12H24Cl2	1,12-dichlorododecane	3922-28-9	302.15	33.638	2	24961	C12H26	5-methyl-3-ethylnonane	62184-49-0	194.50	19.790	2
24838	C12H24F2	1,1-difluorododecane	62127-45-1	273.80	29.473	2	24962	C12H26	5-methyl-4-ethylnonane	1632-71-9	194.50	19.790	2
24839	C12H24I2	1,1-diiodododecane	66553-33-1	325.62	32.125	2	24963	C12H26	5-methyl-5-ethylnonane	14531-16-9	226.92	19.422	2
24852	C12H24O	dodecanal	112-54-9	285.15	42.210	1	24964	C12H26	2,2,3-trimethylnonane	55499-04-2	211.92	20.669	2
24853	C12H24O	2-methylundecanal	110-41-8	285.15	42.210	2	24965	C12H26	2,2,4-trimethylnonane	62184-50-3	211.92	20.669	2
24854	C12H24O	2-dodecanone	6175-49-1	293.65	36.966	2	24966	C12H26	2,2,5-trimethylnonane	62184-51-4	211.92	20.669	2
24855	C12H24O	6-dodecanone	6064-27-3	283.15	34.306	2	24967	C12H26	2,2,6-trimethylnonane	62184-52-5	211.92	20.669	2
24855.1	C12H24O	isobutyl heptyl ketone	123-18-2	198.00	14.700	2	24968	C12H26	2,2,7-trimethylnonane	62184-53-6	211.92	20.669	2
24860	C12H24O	trimethyl nonanone	1331-50-6	198.25	34.306	2	24969	C12H26	2,2,8-trimethylnonane	62184-54-7	211.92	20.669	2
24861	C12H24O	3-dodecanone	1534-27-6	292.58	34.306	2	24970	C12H26	2,3,3-trimethylnonane	62184-55-8	211.92	20.669	2
24862	C12H24O	5-dodecanone	19780-10-0	282.85	34.306	2	24971	C12H26	2,3,4-trimethylnonane	62184-56-9	179.50	21.147	2
24863	C12H24O	4-dodecanone	6137-26-4	284.65	34.306	2	24972	C12H26	2,3,5-trimethylnonane	62184-57-0	179.50	21.147	2
24867	C12H24O2	dodecanoic acid	143-07-7	316.90	36.650	1	24973	C12H26	2,3,6-trimethylnonane	62184-58-1	179.50	21.147	2
24868	C12H24O2	undecyl formate	5454-24-0	283.20	32.887	2	24974	C12H26	2,3,7-trimethylnonane	62184-59-2	179.50	21.147	2
24869	C12H24O2	decyl acetate	112-17-4	258.12	31.205	2	24975	C12H26	2,3,8-trimethylnonane	62184-60-5	179.50	21.147	2
24870	C12H24O2	nonyl propanoate	53184-67-1	266.83	31.205	2	24976	C12H26	2,4,4-trimethylnonane	62184-61-6	211.92	20.669	2
24871	C12H24O2	octyl butanoate	110-39-4	217.15	31.205	2	24977	C12H26	2,4,5-trimethylnonane	62184-62-7	179.50	21.147	2
24872	C12H24O2	heptyl pentanoate	5451-80-9	226.75	24.000	2	24978	C12H26	2,4,6-trimethylnonane	62184-10-5	179.50	21.147	2
24873	C12H24O2	hexyl hexanoate	6378-65-0	218.15	24.375	2	24979	C12H26	2,4,7-trimethylnonane	62184-11-6	179.50	21.147	2
24874	C12H24O2	pentyl heptanoate	7493-82-5	223.15	24.375	2	24980	C12H26	2,4,8-trimethylnonane	49542-74-7	179.50	21.147	2
24875	C12H24O2	butyl octanoate	589-75-3	230.25	24.375	2	24981	C12H26	2,5,5-trimethylnonane	62184-12-7	211.92	20.669	2
24876	C12H24O2	ethyl decanoate	110-38-3	253.15	24.375	2	24982	C12H26	2,5,6-trimethylnonane	62184-13-8	179.50	21.147	2
24877	C12H24O2	ethyl 3-methylnonanoate	86051-37-8	230.29	24.375	2	24983	C12H26	2,5,7-trimethylnonane	62184-14-9	179.50	21.147	2
24878	C12H24O2	methyl undecanoate	1731-86-8	230.29	24.375	2	24984	C12H26	2,5,8-trimethylnonane	49557-09-7	179.50	21.147	2
24879	C12H24O2	2-butyloctanoic acid	27610-92-0	316.90	36.650	2	24985	C12H26	2,6,6-trimethylnonane	62184-15-0	211.92	20.669	2
24880	C12H24O2	3,7-dimethyloctanyl acetate	20780-49-8	258.12	31.205	2	24986	C12H26	2,6,7-trimethylnonane	62184-16-1	179.50	21.147	2
24885.1	C12H24O3	2,2,4-trimethyl-1,3-pentanediol monoisobutyr*	77-68-9	261.00	15.700	2	24987	C12H26	2,7,7-trimethylnonane	62184-17-2	211.92	20.669	2
24894	C12H25Br	1-bromododecane	143-15-7	263.65	32.121	2	24988	C12H26	3,3,4-trimethylnonane	62184-18-3	211.92	20.669	2
24895	C12H25Br	2-bromododecane	13187-99-0	177.25	26.858	2	24989	C12H26	3,3,5-trimethylnonane	62184-19-4	211.92	20.669	2
24897	C12H25Cl	1-chlorododecane	112-52-7	263.85	31.033	2	24990	C12H26	3,3,7-trimethylnonane	62184-21-8	211.92	20.669	2
24899	C12H25F	1-fluorododecane	334-68-9	260.15	29.916	2	24991	C12H26	3,3,6-trimethylnonane	62184-20-7	211.92	20.669	2
24900	C12H25I	1-iododododecane	4292-19-7	273.45	31.242	2	24992	C12H26	3,4,4-trimethylnonane	62184-22-9	211.92	20.669	2
24905	C12H25NO2	1-nitrododecane	16891-99-9	368.11	34.377	2	24993	C12H26	3,4,5-trimethylnonane	62184-23-0	179.50	21.147	2
24914	C12H26	dodecane	112-40-3	263.59	36.836	1	24994	C12H26	3,4,6-trimethylnonane	62184-24-1	179.50	21.147	2
24915	C12H26	3-methylundecane	1002-43-3	215.15	23.313	2	24995	C12H26	3,4,7-trimethylnonane	27802-85-3	179.50	21.147	2
24916	C12H26	4-methylundecane	2980-69-0	209.50	23.313	2	24996	C12H26	3,5,5-trimethylnonane	62184-25-2	211.92	20.669	2
24917	C12H26	5-methylundecane	1632-70-8	209.50	23.313	2	24997	C12H26	3,5,6-trimethylnonane	62184-26-3	179.50	21.147	2
24918	C12H26	6-methylundecane	17302-33-9	209.50	23.313	2	24998	C12H26	3,5,7-trimethylnonane	62184-27-4	179.50	21.147	2
24919	C12H26	3-ethyldecane	17085-96-0	209.50	23.313	2	24999	C12H26	3,6,6-trimethylnonane	62184-28-5	211.92	20.669	2
24920	C12H26	4-ethyldecane	1636-44-8	209.50	23.313	2	25000	C12H26	4,4,5-trimethylnonane	62184-29-6	211.92	20.669	2
24921	C12H26	5-ethyldecane	17302-36-2	209.50	23.313	2	25001	C12H26	4,4,6-trimethylnonane	62184-30-9	211.92	20.669	2
24922	C12H26	2,2-dimethyldecane	17302-37-3	226.92	19.422	2	25002	C12H26	4,5,5-trimethylnonane	62184-31-0	211.92	20.669	2
24923	C12H26	2,3-dimethyldecane	17312-44-6	194.50	19.790	2	25003	C12H26	4,5,6-trimethylnonane	62211-85-2	179.50	21.147	2
24924	C12H26	2,4-dimethyldecane	2801-84-5	194.50	5.439	1	25004	C12H26	4-tert-butyloctane	62184-32-1	211.92	20.669	2
24925	C12H26	2,5-dimethyldecane	17312-50-4	194.50	19.790	2	25005	C12H26	2-methyl-4-propyloctane	62184-33-2	194.50	25.727	2
24926	C12H26	2,6-dimethyldecane	13150-81-7	194.50	19.790	2	25006	C12H26	2-methyl-5-propyloctane	62184-34-3	194.50	25.727	2
24927	C12H26	2,7-dimethyldecane	17312-51-5	194.50	19.790	2	25007	C12H26	3-methyl-4-propyloctane	62184-35-4	194.50	25.727	2
24928	C12H26	2,8-dimethyldecane	17312-52-6	194.50	19.790	2	25008	C12H26	3-methyl-5-propyloctane	62184-36-5	194.50	25.727	2
24929	C12H26	2,9-dimethyldecane	1002-17-1	194.50	19.790	2	25009	C12H26	4-methyl-4-propyloctane	17312-41-3	226.92	25.249	2
24930	C12H26	3,3-dimethyldecane	17302-38-4	226.92	19.422	2	25010	C12H26	4-methyl-5-propyloctane	62183-85-1	194.50	25.727	2
24931	C12H26	3,4-dimethyldecane	17312-45-7	194.50	19.790	2	25011	C12H26	2-methyl-3-isopropyloctane	13287-19-9	179.50	21.147	2
24932	C12H26	3,5-dimethyldecane	17312-48-0	194.50	19.790	2	25012	C12H26	2-methyl-4-isopropyloctane	62183-86-2	179.50	21.147	2
24933	C12H26	3,6-dimethyldecane	17312-53-7	194.50	19.790	2	25013	C12H26	2-methyl-5-isopropyloctane	62183-87-3	179.50	21.147	2
24934	C12H26	3,7-dimethyldecane	17312-54-8	194.50	19.790	2	25014	C12H26	3-methyl-4-isopropyloctane	62183-88-4	179.50	21.147	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
25015	C12H26	3-methyl-5-isopropyloctane	62183-89-5	179.50	21.147	2	25095	C12H26	2,4,5,5-tetramethyloctane	62199-36-4	196.92	18.564	2
25016	C12H26	4-methyl-4-isopropyloctane	62183-90-8	211.92	20.669	2	25096	C12H26	2,4,5,6-tetramethyloctane	62199-37-5	164.50	19.116	2
25017	C12H26	4-methyl-5-isopropyloctane	62183-91-9	179.50	21.147	2	25097	C12H26	2,4,5,7-tetramethyloctane	2217-17-6	164.50	19.116	2
25018	C12H26	3,3-diethyloctane	17302-40-8	226.92	25.249	2	25098	C12H26	2,4,6,6-tetramethyloctane	62199-38-6	196.92	18.564	2
25019	C12H26	3,4-diethyloctane	62183-92-0	194.50	25.727	2	25099	C12H26	2,5,5,6-tetramethyloctane	62199-39-7	196.92	18.564	2
25020	C12H26	3,5-diethyloctane	62183-93-1	194.50	25.727	2	25100	C12H26	2,5,6,6-tetramethyloctane	62199-40-0	196.92	18.564	2
25021	C12H26	3,6-diethyloctane	62183-94-2	194.50	25.727	2	25101	C12H26	3,3,4,4-tetramethyloctane	62199-41-1	229.34	18.012	2
25022	C12H26	4,4-diethyloctane	17312-42-4	226.92	25.249	2	25102	C12H26	3,3,4,5-tetramethyloctane	62199-42-2	196.92	18.564	2
25023	C12H26	4,5-diethyloctane	1636-41-5	194.50	25.727	2	25103	C12H26	3,3,4,6-tetramethyloctane	62199-43-3	196.92	18.564	2
25024	C12H26	2,2-dimethyl-3-ethyloctane	62183-95-3	211.92	20.669	2	25104	C12H26	3,3,5,5-tetramethyloctane	62199-44-4	229.34	18.012	2
25025	C12H26	2,2-dimethyl-4-ethyloctane	62183-96-4	211.92	20.669	2	25105	C12H26	3,3,5,6-tetramethyloctane	62199-45-5	196.92	18.564	2
25026	C12H26	2,2-dimethyl-5-ethyloctane	62183-97-5	211.92	20.669	2	25106	C12H26	3,3,6,6-tetramethyloctane	62199-46-6	199.87	18.012	2
25027	C12H26	2,2-dimethyl-6-ethyloctane	62183-98-6	211.92	20.669	2	25107	C12H26	3,4,4,5-tetramethyloctane	62199-47-7	196.92	18.564	2
25028	C12H26	2,3-dimethyl-3-ethyloctane	62183-99-7	211.92	20.669	2	25108	C12H26	3,4,4,6-tetramethyloctane	62185-19-7	196.92	18.564	2
25029	C12H26	2,3-dimethyl-4-ethyloctane	62184-00-3	179.50	21.147	2	25109	C12H26	3,4,5,5-tetramethyloctane	62185-20-0	196.92	18.564	2
25030	C12H26	2,3-dimethyl-5-ethyloctane	62184-01-4	179.50	21.147	2	25110	C12H26	3,4,5,6-tetramethyloctane	62185-21-1	164.50	19.116	2
25031	C12H26	2,3-dimethyl-6-ethyloctane	62184-02-5	179.50	21.147	2	25111	C12H26	4,4,5,5-tetramethyloctane	62185-22-2	229.34	18.012	2
25032	C12H26	2,4-dimethyl-3-ethyloctane	62184-03-6	179.50	21.147	2	25112	C12H26	2-methyl-4-tert-butylheptane	62185-23-3	196.92	18.564	2
25033	C12H26	2,4-dimethyl-4-ethyloctane	62184-04-7	211.92	20.669	2	25113	C12H26	3-methyl-4-tert-butylheptane	62185-24-4	196.92	18.564	2
25034	C12H26	2,4-dimethyl-5-ethyloctane	62184-05-8	179.50	21.147	2	25114	C12H26	4-methyl-4-tert-butylheptane	62185-25-5	229.34	18.012	2
25035	C12H26	2,4-dimethyl-6-ethyloctane	62184-06-9	179.50	21.147	2	25115	C12H26	3-ethyl-4-propylheptane	62185-26-6	194.50	19.790	2
25036	C12H26	2,5-dimethyl-3-ethyloctane	62184-07-0	179.50	21.147	2	25116	C12H26	4-ethyl-4-propylheptane	17312-43-5	226.92	19.422	2
25037	C12H26	2,5-dimethyl-4-ethyloctane	62184-08-1	179.50	21.147	2	25117	C12H26	3-ethyl-4-isopropylheptane	62185-27-7	179.50	16.267	2
25038	C12H26	2,5-dimethyl-5-ethyloctane	62184-09-2	211.92	20.669	2	25118	C12H26	4-ethyl-4-isopropylheptane	62185-28-8	211.92	15.899	2
25039	C12H26	2,5-dimethyl-6-ethyloctane	62183-50-0	179.50	21.147	2	25119	C12H26	2,2-dimethyl-4-propylheptane	---	211.92	15.899	2
25040	C12H26	2,6-dimethyl-3-ethyloctane	62183-51-1	179.50	21.147	2	25120	C12H26	2,3-dimethyl-4-propylheptane	62185-30-2	179.50	16.267	2
25041	C12H26	2,6-dimethyl-4-ethyloctane	62183-52-2	179.50	21.147	2	25121	C12H26	2,4-dimethyl-4-propylheptane	62185-31-3	211.92	15.899	2
25042	C12H26	2,6-dimethyl-5-ethyloctane	62183-53-3	179.50	21.147	2	25122	C12H26	2,5-dimethyl-4-propylheptane	62185-32-4	179.50	16.267	2
25043	C12H26	2,6-dimethyl-6-ethyloctane	62183-54-4	211.92	20.669	2	25123	C12H26	2,6-dimethyl-4-propylheptane	62185-33-5	179.50	16.267	2
25044	C12H26	2,7-dimethyl-3-ethyloctane	62183-55-5	179.50	21.147	2	25124	C12H26	3,3-dimethyl-4-propylheptane	62185-34-6	211.92	15.899	2
25045	C12H26	2,7-dimethyl-4-ethyloctane	62183-56-6	179.50	21.147	2	25125	C12H26	3,4-dimethyl-4-propylheptane	62185-35-7	211.92	15.899	2
25046	C12H26	3,3-dimethyl-4-ethyloctane	62183-57-7	211.92	20.669	2	25126	C12H26	3,5-dimethyl-4-propylheptane	62185-36-8	179.50	16.267	2
25047	C12H26	3,3-dimethyl-5-ethyloctane	62183-58-8	211.92	20.669	2	25127	C12H26	2,2-dimethyl-3-isopropylheptane	62185-37-9	196.92	16.089	2
25048	C12H26	3,3-dimethyl-6-ethyloctane	62183-59-9	211.92	20.669	2	25128	C12H26	2,2-dimethyl-4-isopropylheptane	62185-38-0	196.92	16.089	2
25049	C12H26	3,4-dimethyl-3-ethyloctane	62212-28-6	211.92	20.669	2	25129	C12H26	2,3-dimethyl-3-isopropylheptane	62185-39-1	196.92	16.089	2
25050	C12H26	3,4-dimethyl-4-ethyloctane	62183-60-2	211.92	20.669	2	25130	C12H26	2,3-dimethyl-4-isopropylheptane	62185-40-4	164.50	16.567	2
25051	C12H26	3,4-dimethyl-5-ethyloctane	62183-61-3	179.50	21.147	2	25131	C12H26	2,4-dimethyl-3-isopropylheptane	62185-41-5	164.50	16.567	2
25052	C12H26	3,4-dimethyl-6-ethyloctane	62183-62-4	179.50	21.147	2	25132	C12H26	2,4-dimethyl-4-isopropylheptane	62185-42-6	196.92	16.089	2
25053	C12H26	3,5-dimethyl-3-ethyloctane	62183-63-5	211.92	20.669	2	25133	C12H26	2,5-dimethyl-3-isopropylheptane	62185-43-7	164.50	16.567	2
25054	C12H26	3,5-dimethyl-4-ethyloctane	62183-64-6	179.50	21.147	2	25134	C12H26	2,5-dimethyl-4-isopropylheptane	62185-44-8	164.50	16.567	2
25055	C12H26	3,5-dimethyl-5-ethyloctane	62183-65-7	211.92	20.669	2	25135	C12H26	2,6-dimethyl-3-isopropylheptane	62185-45-9	164.50	16.567	2
25056	C12H26	3,5-dimethyl-6-ethyloctane	62183-66-8	179.50	21.147	2	25136	C12H26	2,6-dimethyl-4-isopropylheptane	35866-89-8	164.50	16.567	2
25057	C12H26	3,6-dimethyl-3-ethyloctane	62183-67-9	211.92	20.669	2	25137	C12H26	3,3-dimethyl-4-isopropylheptane	62185-46-0	196.92	16.089	2
25058	C12H26	3,6-dimethyl-4-ethyloctane	62183-68-0	179.50	21.147	2	25138	C12H26	3,4-dimethyl-4-isopropylheptane	62185-47-1	196.92	16.089	2
25059	C12H26	4,4-dimethyl-3-ethyloctane	62183-69-1	211.92	20.669	2	25139	C12H26	3,5-dimethyl-4-isopropylheptane	62198-89-4	164.50	16.567	2
25060	C12H26	4,4-dimethyl-5-ethyloctane	62183-70-4	211.92	20.669	2	25140	C12H26	2-methyl-3,3-diethylheptane	62198-90-7	211.92	20.669	2
25061	C12H26	4,4-dimethyl-6-ethyloctane	62183-71-5	211.92	20.669	2	25141	C12H26	2-methyl-3,4-diethylheptane	62198-91-8	179.50	21.147	2
25062	C12H26	4,5-dimethyl-3-ethyloctane	62183-72-6	179.50	21.147	2	25142	C12H26	2-methyl-3,5-diethylheptane	62198-92-9	179.50	21.147	2
25063	C12H26	4,5-dimethyl-4-ethyloctane	62183-73-7	211.92	20.669	2	25143	C12H26	2-methyl-4,4-diethylheptane	62198-93-0	211.92	20.669	2
25064	C12H26	2,2,3,3-tetramethyloctane	62183-74-8	229.34	18.012	2	25144	C12H26	2-methyl-4,5-diethylheptane	62198-94-1	179.50	21.147	2
25065	C12H26	2,2,3,4-tetramethyloctane	62183-75-9	196.92	18.564	2	25145	C12H26	2-methyl-5,5-diethylheptane	62198-95-2	211.92	20.669	2
25066	C12H26	2,2,3,5-tetramethyloctane	62183-76-0	196.92	18.564	2	25146	C12H26	3-methyl-3,4-diethylheptane	62198-96-3	211.92	20.669	2
25067	C12H26	2,2,3,6-tetramethyloctane	62183-77-1	196.92	18.564	2	25147	C12H26	3-methyl-3,5-diethylheptane	62198-97-4	211.92	20.669	2
25068	C12H26	2,2,3,7-tetramethyloctane	62183-78-2	196.92	18.564	2	25148	C12H26	3-methyl-4,4-diethylheptane	62198-98-5	211.92	20.669	2
25069	C12H26	2,2,4,4-tetramethyloctane	62183-79-3	229.34	18.012	2	25149	C12H26	3-methyl-4,5-diethylheptane	62198-99-6	179.50	21.147	2
25070	C12H26	2,2,4,5-tetramethyloctane	62183-80-6	196.92	18.564	2	25150	C12H26	3-methyl-5,5-diethylheptane	62199-00-2	211.92	20.669	2
25071	C12H26	2,2,4,6-tetramethyloctane	62183-81-7	196.92	18.564	2	25151	C12H26	4-methyl-3,3-diethylheptane	62199-01-3	211.92	20.669	2
25072	C12H26	2,2,4,7-tetramethyloctane	62183-82-8	196.92	18.564	2	25152	C12H26	4-methyl-3,4-diethylheptane	62199-02-4	211.92	20.669	2
25073	C12H26	2,2,5,5-tetramethyloctane	62183-83-9	229.34	18.012	2	25153	C12H26	4-methyl-3,5-diethylheptane	62199-03-5	179.50	21.147	2
25074	C12H26	2,2,5,6-tetramethyloctane	62183-84-0	196.92	18.564	2	25154	C12H26	2,2,3-trimethyl-3-ethylheptane	62199-04-6	229.34	18.012	2
25075	C12H26	2,2,5,7-tetramethyloctane	62199-19-3	196.92	18.564	2	25155	C12H26	2,2,3-trimethyl-4-ethylheptane	62199-05-7	196.92	18.564	2
25076	C12H26	2,2,6,6-tetramethyloctane	62199-20-6	229.34	18.012	2	25156	C12H26	2,2,3-trimethyl-5-ethylheptane	62199-06-8	196.92	18.564	2
25077	C12H26	2,2,6,7-tetramethyloctane	62199-21-7	196.92	18.564	2	25157	C12H26	2,2,4-trimethyl-3-ethylheptane	62199-07-9	196.92	18.564	2
25078	C12H26	2,2,7,7-tetramethyloctane	1071-31-4	229.34	18.012	2	25158	C12H26	2,2,4-trimethyl-4-ethylheptane	62199-08-0	229.34	18.012	2
25079	C12H26	2,3,3,4-tetramethyloctane	62199-22-8	196.92	18.564	2	25159	C12H26	2,2,4-trimethyl-5-ethylheptane	62199-09-1	196.92	18.564	2
25080	C12H26	2,3,3,5-tetramethyloctane	62199-23-9	196.92	18.564	2	25160	C12H26	2,2,5-trimethyl-3-ethylheptane	62199-10-4	196.92	18.564	2
25081	C12H26	2,3,3,6-tetramethyloctane	62199-24-0	196.92	18.564	2	25161	C12H26	2,2,5-trimethyl-4-ethylheptane	62199-11-5	196.92	18.564	2
25082	C12H26	2,3,3,7-tetramethyloctane	62199-25-1	196.92	18.564	2	25162	C12H26	2,2,5-trimethyl-5-ethylheptane	62199-12-6	229.34	18.012	2
25083	C12H26	2,3,4,4-tetramethyloctane	62199-26-2	196.92	18.564	2	25163	C12H26	2,2,6-trimethyl-3-ethylheptane	62199-13-7	196.92	18.564	2
25084	C12H26	2,3,4,5-tetramethyloctane	62199-27-3	164.50	19.116	2	25164	C12H26	2,2,6-trimethyl-4-ethylheptane	62199-14-8	196.92	18.564	2
25085	C12H26	2,3,4,6-tetramethyloctane	62199-28-4	164.50	19.116	2	25165	C12H26	2,2,6-trimethyl-5-ethylheptane	62199-15-9	196.92	18.564	2
25086	C12H26	2,3,4,7-tetramethyloctane	62199-29-5	164.50	19.116	2	25166	C12H26	2,3,3-trimethyl-4-ethylheptane	62199-16-0	196.92	18.564	2
25087	C12H26	2,3,5,5-tetramethyloctane	62199-30-8	196.92	18.564	2	25167	C12H26	2,3,3-trimethyl-5-ethylheptane	62199-17-1	196.92	18.564	2
25088	C12H26	2,3,5,6-tetramethyloctane	62199-31-9	164.50	19.116	2	25168	C12H26	2,3,4-trimethyl-3-ethylheptane	62199-18-2	196.92	18.564	2
25089	C12H26	2,3,5,7-tetramethyloctane	62199-32-0	164.50	19.116	2	25169	C12H26	2,3,4-trimethyl-4-ethylheptane	62198-55-4	196.92	18.564	2
25090	C12H26	2,3,6,6-tetramethyloctane	62199-33-1	196.92	18.564	2	25170	C12H26	2,3,4-trimethyl-5-ethylheptane	62198-56-5	164.50	19.116	2
25091	C12H26	2,3,6,7-tetramethyloctane	52670-34-5	164.50	19.116	2	25171	C12H26	2,3,5-trimethyl-3-ethylheptane	62198-57-6	196.92	18.564	2
25092	C12H26	2,4,4,5-tetramethyloctane	62199-34-2	196.92	18.564	2	25172	C12H26	2,3,5-trimethyl-4-ethylheptane	62198-58-7	164.50	19.116	2
25093	C12H26	2,4,4,6-tetramethyloctane	62199-35-3	196.92	18.564	2	25173	C12H26	2,3,5-trimethyl-5-ethylheptane	62198-59-8	196.92	18.564	2
25094	C12H26	2,4,4,7-tetramethyloctane	35866-96-7	196.92	18.564	2	25174	C12H26	2,3,6-trimethyl-3-ethylheptane	62198-60-1	196.92	18.564	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
25175	C12H26	2,3,6-trimethyl-4-ethylheptane	62198-61-2	164.50	19.116	2	25255	C12H26	2,3,4,4-tetramethyl-3-ethylhexane	62185-09-5	214.34	12.728	2
25176	C12H26	2,3,6-trimethyl-5-ethylheptane	62198-62-3	164.50	19.116	2	25256	C12H26	2,3,4,5-tetramethyl-3-ethylhexane	62185-10-8	181.92	13.280	2
25177	C12H26	2,4,4-trimethyl-3-ethylheptane	62198-63-4	196.92	18.564	2	25257	C12H26	2,2,3,3,4,4-hexamethylhexane	62185-11-9	231.76	9.188	2
25178	C12H26	2,4,4-trimethyl-5-ethylheptane	62198-64-5	196.92	18.564	2	25258	C12H26	2,2,3,3,4,5-hexamethylhexane	62185-12-0	199.34	9.924	2
25179	C12H26	2,4,5-trimethyl-3-ethylheptane	62198-65-6	164.50	19.116	2	25259	C12H26	2,2,3,3,5,5-hexamethylhexane	60302-24-1	231.76	9.188	2
25180	C12H26	2,4,5-trimethyl-4-ethylheptane	62198-66-7	196.92	18.564	2	25260	C12H26	2,2,3,4,4,5-hexamethylhexane	62185-13-1	199.34	9.924	2
25181	C12H26	2,4,5-trimethyl-5-ethylheptane	62198-67-8	196.92	18.564	2	25261	C12H26	2,2,3,4,5,5-hexamethylhexane	62185-14-2	199.34	9.924	2
25182	C12H26	2,4,6-trimethyl-3-ethylheptane	62198-68-9	164.50	19.116	2	25262	C12H26	2,3,3,4,4,5-hexamethylhexane	52670-36-7	199.34	9.924	2
25183	C12H26	2,4,6-trimethyl-4-ethylheptane	62198-69-0	196.92	18.564	2	25263	C12H26	2,4-dimethyl-3-ethyl-3-isopropylpentane	62185-16-4	181.92	8.853	2
25184	C12H26	2,5,5-trimethyl-3-ethylheptane	62198-70-3	196.92	18.564	2	25264	C12H26	2,2,4-trimethyl-3,3-diethylpentane	62185-15-3	214.34	8.485	2
25185	C12H26	2,5,5-trimethyl-4-ethylheptane	62198-71-4	196.92	18.564	2	25265	C12H26	2,2,3,4-tetramethyl-3-isopropylpentane	62185-17-5	199.34	9.924	2
25186	C12H26	3,3,4-trimethyl-4-ethylheptane	62198-72-5	229.34	18.012	2	25266	C12H26	2,2,4,4-tetramethyl-3-isopropylpentane	62185-18-6	199.34	9.924	2
25187	C12H26	3,3,4-trimethyl-5-ethylheptane	62198-73-6	196.92	18.564	2	25267	C12H26	2,2,3,4,4-pentamethyl-3-ethylpentane	66576-21-4	231.76	9.188	2
25188	C12H26	3,3,5-trimethyl-4-ethylheptane	62198-74-7	196.92	18.564	2	25268	C12H26	2-methylundecane	7045-71-8	227.00	23.313	2
25189	C12H26	3,3,5-trimethyl-5-ethylheptane	62198-75-8	229.34	18.012	2	25277	C12H26O	1-dodecanol	112-53-8	296.95	40.200	1
25190	C12H26	3,4,4-trimethyl-3-ethylheptane	62198-76-9	229.34	18.012	2	25278	C12H26O	2-dodecanol	10203-28-8	292.15	31.511	2
25191	C12H26	3,4,4-trimethyl-5-ethylheptane	62198-77-0	196.92	18.564	2	25279	C12H26O	3-dodecanol	10203-30-2	298.15	34.142	2
25192	C12H26	3,4,5-trimethyl-3-ethylheptane	62198-78-1	196.92	18.564	2	25280	C12H26O	6-dodecanol	6836-38-0	303.15	34.142	2
25193	C12H26	3,4,5-trimethyl-4-ethylheptane	62198-79-2	196.92	18.564	2	25281	C12H26O	2-methyl-1-undecanol	10522-26-6	280.73	34.142	2
25194	C12H26	2,2,3,3,4-pentamethylheptane	62198-80-5	214.34	12.728	2	25282	C12H26O	2-methyl-3-undecanol	60671-36-5	280.73	34.142	2
25195	C12H26	2,2,3,3,5-pentamethylheptane	62198-81-6	214.34	12.728	2	25283	C12H26O	2-methyl-5-undecanol	33978-71-1	280.73	34.142	2
25196	C12H26	2,2,3,3,6-pentamethylheptane	62198-82-7	214.34	12.728	2	25284	C12H26O	2-butyl-1-octanol	3913-02-8	280.73	34.142	2
25197	C12H26	2,2,3,4,4-pentamethylheptane	62198-83-8	214.34	12.728	2	25285	C12H26O	dihexyl ether	112-58-3	230.15	30.500	2
25198	C12H26	2,2,3,4,5-pentamethylheptane	62198-84-9	181.92	13.280	2	25286	C12H26O	2,6,8-trimethylnonanol-4	123-17-1	213.25	34.142	2
25199	C12H26	2,2,3,4,6-pentamethylheptane	62198-85-0	181.92	13.280	2	25294	C12H26O3	diethylene glycol dibutyl ether	112-73-2	212.95	30.600	2
25200	C12H26	2,2,3,5,5-pentamethylheptane	62198-86-1	214.34	12.728	2	25310	C12H26S	1-dodecanethiol	112-55-0	265.15	39.000	2
25201	C12H26	2,2,3,5,6-pentamethylheptane	62198-87-2	181.92	13.280	2	25311	C12H26S	2-dodecanethiol	14402-50-7	256.15	32.826	2
25202	C12H26	2,2,3,6,6-pentamethylheptane	62198-88-3	214.34	12.728	2	25312	C12H26S	dihexyl sulfide	6294-31-1	259.16	30.966	2
25203	C12H26	2,2,4,4,5-pentamethylheptane	62199-61-5	214.34	12.728	2	25313	C12H26S	methyl undecyl sulfide	7289-44-3	259.16	30.966	2
25204	C12H26	2,2,4,4,6-pentamethylheptane	62199-62-6	214.34	12.728	2	25314	C12H26S	ethyl decyl sulfide	19313-61-2	259.16	30.966	2
25205	C12H26	2,2,4,5,5-pentamethylheptane	62199-63-7	214.34	12.728	2	25315	C12H26S	propyl nonyl sulfide	62103-66-6	259.16	30.966	2
25206	C12H26	2,2,4,5,6-pentamethylheptane	62199-64-8	181.92	13.280	2	25316	C12H26S	butyl octyl sulfide	16900-07-5	259.16	30.966	2
25207	C12H26	2,2,4,6,6-pentamethylheptane	13475-82-6	206.15	12.728	2	25317	C12H26S	tert-dodecylmercaptan	25103-58-6	265.75	36.104	2
25208	C12H26	2,2,5,5,6-pentamethylheptane	62199-65-9	214.34	12.728	2	25318	C12H26S2	dihexyl disulfide	10496-15-8	225.16	28.077	2
25209	C12H26	2,3,3,4,4-pentamethylheptane	62199-66-0	214.34	12.728	2	25340	C12H27N	dodecylamine	124-22-1	301.47	43.500	2
25210	C12H26	2,3,3,4,5-pentamethylheptane	62199-67-1	181.92	13.280	2	25341	C12H27N	methylundecylamine	66553-53-5	260.09	31.845	2
25211	C12H26	2,3,3,4,6-pentamethylheptane	62199-68-2	181.92	13.280	2	25342	C12H27N	ethyldecylamine	66553-52-4	260.09	31.845	2
25212	C12H26	2,3,3,5,5-pentamethylheptane	62199-69-3	214.34	12.728	2	25343	C12H27N	dihexylamine	143-16-8	260.09	31.845	2
25213	C12H26	2,3,3,5,6-pentamethylheptane	52670-35-6	181.92	13.280	2	25344	C12H27N	dimethyldecylamine	1120-24-7	229.15	29.857	2
25214	C12H26	2,3,4,4,5-pentamethylheptane	62199-70-6	181.92	13.280	2	25345	C12H27N	diethyloctylamine	4088-37-3	227.83	31.597	2
25215	C12H26	2,3,4,4,6-pentamethylheptane	62199-71-7	181.92	13.280	2	25346	C12H27N	tributylamine	102-82-9	203.00	29.857	2
25216	C12H26	2,3,4,5,5-pentamethylheptane	62199-72-8	181.92	13.280	2	25347	C12H27N	triisobutylamine	1116-40-1	251.35	31.597	2
25217	C12H26	2,3,4,5,6-pentamethylheptane	27574-98-7	149.50	13.832	2	25500	C13H8O2	xanthone	90-47-1	449.63	26.120	1
25218	C12H26	2,4,4,5,5-pentamethylheptane	62199-73-9	214.34	12.728	2	25537	C13H9N	acridine	260-94-6	383.24	20.682	1
25219	C12H26	3,3,4,4,5-pentamethylheptane	62199-74-0	214.34	12.728	2	25575	C13H10	fluorene	86-73-7	387.00	19.870	1
25220	C12H26	3,3,4,5,5-pentamethylheptane	62199-75-1	214.34	12.728	2	25623	C13H10O	benzophenone	119-61-9	321.03	18.194	1
25221	C12H26	2,2-dimethyl-3-tert-butylhexane	62199-76-2	214.34	12.728	2	25738	C13H12	diphenylmethane	101-81-5	298.30	18.569	1
25222	C12H26	2-methyl-3-ethyl-3-isopropylhexane	62199-77-3	211.92	20.669	2	25739	C13H12	1-methylbiphenyl	28652-72-4	273.15	17.119	2
25223	C12H26	2-methyl-4-ethyl-3-isopropylhexane	62199-78-4	179.50	21.147	2	25740	C13H12	3-methylbiphenyl	643-93-6	277.85	17.119	2
25224	C12H26	2,2,3-trimethyl-3-isopropylhexane	62199-79-5	214.34	12.728	2	25741	C13H12	4-methylbiphenyl	644-08-6	321.15	17.119	2
25225	C12H26	2,2,4-trimethyl-3-isopropylhexane	62199-80-8	181.92	13.280	2	25742	C13H12	2-methylbiphenyl	643-58-3	272.95	17.076	2
25226	C12H26	2,2,5-trimethyl-3-isopropylhexane	62199-81-9	181.92	13.280	2	25745	C13H12	methylbiphenyl	28652-72-4	297.20	17.076	2
25227	C12H26	2,2,5-trimethyl-4-isopropylhexane	62199-82-0	181.92	13.280	2	25903	C13H14	1-propylnaphthalene	2765-18-6	264.69	20.097	2
25228	C12H26	2,3,4-trimethyl-3-isopropylhexane	62199-83-1	181.92	13.280	2	25904	C13H14	2-propylnaphthalene	2027-19-2	270.16	20.097	2
25229	C12H26	2,3,5-trimethyl-3-isopropylhexane	62199-84-2	181.92	13.280	2	25905	C13H14	1-isopropylnaphthalene	6158-45-8	257.61	16.574	2
25230	C12H26	2,3,5-trimethyl-4-isopropylhexane	62199-85-3	149.50	13.832	2	25906	C13H14	2-isopropylnaphthalene	2027-17-0	288.31	16.574	2
25231	C12H26	2,4,4-trimethyl-3-isopropylhexane	62199-86-4	181.92	13.280	2	25907	C13H14	1-methyl-2-ethylnaphthalene	25607-16-3	338.14	19.708	2
25232	C12H26	3,3,4-triethylhexane	62199-87-5	211.92	15.899	2	25908	C13H14	1-methyl-3-ethylnaphthalene	17179-41-8	338.14	19.708	2
25233	C12H26	2,2-dimethyl,3,3-diethylhexane	62199-88-6	229.34	15.610	2	25909	C13H14	1-methyl-4-ethylnaphthalene	27424-87-9	338.14	19.708	2
25234	C12H26	2,2-dimethyl-3,4-diethylhexane	62199-89-7	196.92	16.089	2	25910	C13H14	1-methyl-5-ethylnaphthalene	17057-92-0	313.15	19.708	2
25235	C12H26	2,2-dimethyl-4,4-diethylhexane	62184-89-8	229.34	15.610	2	25911	C13H14	1-methyl-6-ethylnaphthalene	17059-53-9	338.14	19.708	2
25236	C12H26	2,3-dimethyl-3,4-diethylhexane	62184-90-1	196.92	16.089	2	25912	C13H14	1-methyl-7-ethylnaphthalene	2451-00-5	370.15	19.708	2
25237	C12H26	2,3-dimethyl-4,4-diethylhexane	62184-91-2	196.92	16.089	2	25913	C13H14	1-methyl-8-ethylnaphthalene	61886-71-3	338.14	19.708	2
25238	C12H26	2,4-dimethyl-3,3-diethylhexane	62184-92-3	196.92	16.089	2	25914	C13H14	2-methyl-1-ethylnaphthalene	---	338.14	19.708	2
25239	C12H26	2,4-dimethyl-3,4-diethylhexane	62184-93-4	196.92	16.089	2	25915	C13H14	2-methyl-3-ethylnaphthalene	31032-94-7	344.16	19.708	2
25240	C12H26	2,5-dimethyl-3,3-diethylhexane	62184-94-5	196.92	16.089	2	25916	C13H14	2-methyl-4-ethylnaphthalene	17057-94-2	338.14	19.708	2
25241	C12H26	2,5-dimethyl-3,4-diethylhexane	62184-95-6	164.50	16.567	2	25917	C13H14	2-methyl-5-ethylnaphthalene	---	338.14	19.708	2
25242	C12H26	3,3-dimethyl-4,4-diethylhexane	62184-96-7	229.34	15.610	2	25918	C13H14	2-methyl-6-ethylnaphthalene	7372-86-3	318.16	19.708	2
25243	C12H26	3,4-dimethyl-3,4-diethylhexane	62184-97-8	229.34	15.610	2	25919	C13H14	2-methyl-7-ethylnaphthalene	17059-55-1	318.16	19.708	2
25244	C12H26	2,2,3,3-tetramethyl-4-ethylhexane	62184-98-9	214.34	12.728	2	25920	C13H14	2-methyl-8-ethylnaphthalene	---	338.14	19.708	2
25245	C12H26	2,2,3,4-tetramethyl-3-ethylhexane	62184-99-0	214.34	12.728	2	25921	C13H14	1,2,3-trimethylnaphthalene	879-12-9	301.15	19.319	2
25246	C12H26	2,2,3,4-tetramethyl-4-ethylhexane	62185-00-6	214.34	12.728	2	25922	C13H14	1,2,4-trimethylnaphthalene	2717-42-2	325.15	19.319	2
25247	C12H26	2,2,3,5-tetramethyl-3-ethylhexane	62185-01-7	214.34	12.728	2	25923	C13H14	1,2,5-trimethylnaphthalene	641-91-8	306.65	19.319	2
25248	C12H26	2,2,3,5-tetramethyl-4-ethylhexane	62185-02-8	181.92	13.280	2	25924	C13H14	1,2,6-trimethylnaphthalene	3031-05-8	287.15	19.319	2
25249	C12H26	2,2,4,4-tetramethyl-3-ethylhexane	62185-03-9	214.34	12.728	2	25925	C13H14	1,2,7-trimethylnaphthalene	486-34-0	416.15	19.319	2
25250	C12H26	2,2,4,5-tetramethyl-3-ethylhexane	62185-04-0	181.92	13.280	2	25926	C13H14	1,2,8-trimethylnaphthalene	3876-97-9	417.15	19.319	2
25251	C12H26	2,2,4,5-tetramethyl-4-ethylhexane	62185-05-1	214.34	12.728	2	25927	C13H14	1,3,5-trimethylnaphthalene	2131-39-7	319.15	19.319	2
25252	C12H26	2,2,5,5-tetramethyl-3-ethylhexane	62185-06-2	214.34	12.728	2	25928	C13H14	1,3,6-trimethylnaphthalene	3031-08-1	338.14	19.319	2
25253	C12H26	2,3,3,4-tetramethyl-4-ethylhexane	62185-07-3	214.34	12.728	2	25929	C13H14	1,3,7-trimethylnaphthalene	2131-38-6	286.15	19.319	2
25254	C12H26	2,3,3,5-tetramethyl-4-ethylhexane	62185-08-4	181.92	13.280	2	25930	C13H14	1,3,8-trimethylnaphthalene	17057-91-9	321.15	19.319	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
25931	C13H14	1,4,5-trimethylnaphthalene	2131-41-1	335.15	19.319	2	26537	C13H28O	3-tridecanol	10289-68-6	305.15	37.884	2
25932	C13H14	1,4,6-trimethylnaphthalene	2131-42-2	338.14	19.319	2	26538	C13H28O	5-butyl-5-nonanol	597-93-3	293.15	37.884	2
25933	C13H14	1,6,7-trimethylnaphthalene	2245-38-7	298.15	19.319	2	26549	C13H28S	1-tridecanethiol	19484-26-5	282.04	40.162	2
25934	C13H14	2,3,6-trimethylnaphthalene	829-26-5	375.15	19.319	2	26550	C13H28S	2-tridecanethiol	62155-03-7	263.15	35.934	2
26158	C13H18	1-propyl-[1,2,3,4-tetrahydronaphthalene]	66324-83-2	254.84	19.113	2	26551	C13H28S	methyl dodecyl sulfide	---	271.16	33.556	2
26159	C13H18	2-propyl-[1,2,3,4-tetrahydronaphthalene]	66324-84-3	265.65	19.113	2	26552	C13H28S	ethyl undecyl sulfide	66577-30-8	271.16	33.556	2
26160	C13H18	1,2,3,4-tetrahydro-1,1,6-trimethylnaphthalene	475-03-6	260.25	19.121	2	26553	C13H28S	propyl decyl sulfide	66577-31-9	271.16	33.556	2
26161	C13H18	2,3-dihydro-1,1,4,7-tetramethyl-1H-indene	1078-04-2	260.25	19.121	2	26554	C13H28S	butyl nonyl sulfide	66577-32-0	271.16	33.556	2
26162	C13H18	2,3-dihydro-1,1,4,6-tetramethyl-1H-indene	941-60-6	260.25	19.121	2	26555	C13H29N	tridecylamine	2869-34-3	299.15	41.548	2
26163	C13H18	1,2,3,4-tetrahydro-2,5,8-trimethylnaphthalene	30316-17-7	260.25	19.121	2	26556	C13H29N	methyldodecylamine	7311-30-0	291.15	34.435	2
26283	C13H20	heptylbenzene	1078-71-3	225.15	21.801	1	26557	C13H29N	ethylundecylamine	59570-04-6	291.15	34.435	2
26284	C13H20	1-methyl-2,4-diisopropylbenzene	1460-98-6	228.72	22.147	2	26558	C13H29N	dimethylundecylamine	17373-28-3	299.15	41.548	2
26285	C13H20	1-methyl-3,5-diisopropylbenzene	3055-14-9	212.35	22.147	2	26559	C13H29N	diethylnonylamine	45124-35-4	299.15	41.548	2
26286	C13H20	[2-methyl-1-isopropylpropyl]benzene	21777-84-4	248.65	22.147	2	26560	C13H29N	6-methyl-N-isopentyl-2-heptanamine	502-59-0	291.15	34.435	2
26288	C13H20	(2,4-dimethylpentyl)benzene	54518-00-2	228.72	22.147	2	26561	C13H29N	tert-amyl-tert-octylamine	150285-07-7	291.15	34.435	2
26315	C13H20O	4-heptylphenol	1987-50-4	297.15	26.000	1	26562	C13H29N	N-methyldihexylamine	37615-53-5	299.15	41.548	2
26318	C13H20O	2-sec-butyl-6-isopropylphenol	74926-97-9	297.15	26.000	2	26654	C14H8O2	anthraquinone	84-65-1	559.15	32.552	1
26319	C13H20O	o-heptylphenol	5284-22-0	297.15	26.000	2	26728	C14H10	anthracene	120-12-7	489.25	29.400	1
26402	C13H24	1-tridecyne	26186-02-7	268.16	32.400	2	26729	C14H10	diphenylacetylene	501-65-5	335.65	21.402	1
26403	C13H24	2-tridecyne	28467-75-6	341.87	32.546	2	26730	C14H10	phenanthrene	85-01-8	372.38	16.460	1
26404	C13H24	3-tridecyne	60186-78-9	341.87	32.546	2	26866	C14H12	cis-stilbene	645-49-8	268.15	27.608	2
26406	C13H24	1-octylcyclopentene	52315-44-3	211.86	24.583	2	26867	C14H12	trans-stilbene	103-30-0	397.35	27.700	1
26439	C13H25Br	cis-1-bromo-1-tridecene	66324-50-3	290.49	34.913	2	26868	C14H12	1,1-diphenylethene	530-48-3	281.41	17.508	2
26440	C13H25Br	trans-1-bromo-1-tridecene	66324-51-4	290.49	34.913	2	26869	C14H12	9,10-dihydroanthracene	613-31-0	382.18	23.840	1
26442	C13H25Br3	1,1,1-tribromotridecane	62127-70-2	417.59	37.867	2	26873	C14H12	stilbene	588-59-0	397.55	27.829	1
26443	C13H25Cl	cis-1-chloro-1-tridecene	66324-52-5	260.61	33.825	2	26987.1	C14H12O4	dimethyl-2,6-naphthalenedicarboxylate	840-65-3	464.50	53.300	1
26444	C13H25Cl	trans-1-chloro-1-tridecene	66324-53-6	260.61	33.825	2	27052	C14H14	1,1-diphenylethane	612-00-0	255.20	17.573	1
26445	C13H25Cl3	1,1,1-trichlorotridecane	3922-24-5	327.95	34.603	2	27053	C14H14	1,2-diphenylethane	103-29-7	324.34	23.010	1
26446	C13H25F	cis-1-fluoro-1-tridecene	66324-54-7	262.84	32.708	2	27054	C14H14	2-methyldiphenylmethane	713-36-0	279.79	19.709	2
26447	C13H25F	trans-1-fluoro-1-tridecene	66324-55-8	262.84	32.708	2	27055	C14H14	3-methyldiphenylmethane	620-47-3	245.35	19.709	2
26448	C13H25F3	1,1,1-trifluorotridecane	62126-98-1	334.64	31.252	2	27056	C14H14	4-methyldiphenylmethane	620-83-7	277.76	19.709	2
26449	C13H25I	cis-1-iodo-1-tridecene	66324-56-9	288.75	34.034	2	27057	C14H14	2,2'-dimethylbiphenyl	605-39-0	291.15	19.320	2
26450	C13H25I	trans-1-iodo-1-tridecene	66324-57-0	288.75	34.034	2	27058	C14H14	2,3'-trimethylbiphenyl	611-43-8	322.15	19.320	2
26451	C13H25I3	1,1,1-triiodotridecane	---	412.37	35.230	2	27059	C14H14	2,4'-dimethlbiphenyl	611-61-0	322.15	19.320	2
26452	C13H25N	tridecanenitrile	629-60-7	283.05	30.932	2	27060	C14H14	3,3'-dimethylbiphenyl	612-75-9	280.15	19.320	2
26465	C13H26	octylcyclopentane	1795-20-6	229.16	23.361	2	27061	C14H14	3,4'-dimethylbiphenyl	7383-90-6	288.15	19.320	2
26466	C13H26	heptylcyclohexane	5617-41-4	242.66	25.941	1	27062	C14H14	4,4'-dimethylbiphenyl	613-33-2	394.15	19.320	2
26467	C13H26	2-butyl-1,1,3-trimethylcyclohexane	54676-39-0	242.66	25.941	2	27063	C14H14	2-ethylbiphenyl	1812-51-7	267.05	19.709	2
26469	C13H26	1-tridecene	2437-56-1	250.08	22.830	1	27064	C14H14	3-ethylbiphenyl	5668-93-9	245.65	19.709	2
26470	C13H26	2-methyl-1-dodecene	16435-49-7	241.94	26.836	2	27065	C14H14	4-ethylbiphenyl	5707-44-8	320.15	19.709	2
26471	C13H26	5-butyl-4-nonene	7367-38-6	246.01	24.873	2	27066	C14H14	2,3-dimethylbiphenyl	3864-18-4	315.15	19.320	2
26472	C13H26Br2	1,1-dibromotridecane	62168-30-3	340.37	36.473	2	27067	C14H14	3,4-dimethylbiphenyl	4433-11-8	302.65	19.320	2
26473	C13H26Br2	1,13-dibromotridecane	31772-05-1	282.15	33.354	2	27068	C14H14	2,6-dimethylbiphenyl	3976-34-9	270.65	19.320	2
26474	C13H26Cl2	1,1-dichlorotridecane	821-93-2	280.61	34.297	2	27069	C14H14	1,3-dimethyl-4-phenyl benzene	---	322.15	19.320	2
26475	C13H26F2	1,1-difluorotridecane	62127-02-0	285.07	32.063	2	27070	C14H14	1,3-dimethyl-5-phenyl benzene	---	322.15	19.320	2
26476	C13H26I2	1,1-diiodotridecane	66324-43-4	336.89	34.715	2	27071	C14H14	1,4-dimethyl-2-phenyl benzene	---	322.15	19.320	2
26486	C13H26O	1-tridecanal	10486-19-8	288.15	46.100	1	27072	C14H14	2,5-dimethylbiphenyl	7372-85-2	301.14	19.661	2
26487	C13H26O	2-tridecanone	593-08-8	300.65	40.333	2	27073	C14H14	2,4-dimethylbiphenyl	4433-10-7	301.14	19.661	2
26488	C13H26O	3-tridecanone	1534-26-5	304.15	40.735	2	27074	C14H14	3,5-dimethylbiphenyl	17057-88-4	295.65	19.661	2
26489	C13H26O	7-tridecanone	462-18-0	306.15	40.735	2	27138	C14H14O	dibenzyl ether	103-50-4	276.75	20.209	1
26492	C13H26O2	tridecanoic acid	638-53-9	314.95	33.730	1	27267	C14H16	1-butylnaphthalene	1634-09-9	253.43	25.100	1
26493	C13H26O2	2-methyldodecanoic acid	2874-74-0	295.15	32.670	2	27268	C14H16	2-butylnaphthalene	1134-62-9	268.16	22.687	2
26494	C13H26O2	dodecyl formate	28303-42-6	294.47	35.477	2	27269	C14H16	1-sec-butylnaphthalene	1680-58-6	333.04	19.164	2
26495	C13H26O2	undecyl acetate	1731-81-3	266.35	33.795	2	27270	C14H16	2-sec-butylnaphthalene	4614-03-3	333.04	19.164	2
26496	C13H26O2	decyl propanoate	5454-19-3	278.10	33.795	2	27271	C14H16	1-isobutylnaphthalene	16727-91-6	263.75	19.164	2
26497	C13H26O2	nonyl butanoate	2639-64-7	278.10	33.795	2	27272	C14H16	2-isobutylnaphthalene	26490-07-3	333.04	19.164	2
26498	C13H26O2	octyl pentanoate	5451-85-4	230.85	28.255	2	27273	C14H16	1-tert-butylnaphthalene	17085-91-5	262.15	15.273	2
26499	C13H26O2	heptyl hexanoate	6976-72-3	238.75	28.255	2	27274	C14H16	2-tert-butylnaphthalene	2876-35-9	268.15	15.273	2
26500	C13H26O2	hexyl heptanoate	1119-06-8	225.15	28.255	2	27275	C14H16	1-methyl-2-propylnaphthalene	39036-65-2	333.04	22.298	2
26501	C13H26O2	pentyl octanoate	638-25-5	238.35	28.255	2	27276	C14H16	2-methyl-1-propylnaphthalene	54774-89-9	333.04	22.298	2
26502	C13H26O2	butyl nonanoate	50623-57-9	235.15	26.000	2	27277	C14H16	3-methyl-2-propylnaphthalene	66577-19-3	333.04	22.298	2
26503	C13H26O2	propyl decanoate	30673-60-0	243.51	28.255	2	27278	C14H16	2-methyl-1-isopropylnaphthalene	32114-79-7	333.04	18.775	2
26504	C13H26O2	isopropyl decanoate	2311-59-3	243.51	28.255	2	27279	C14H16	3-methyl-2-isopropylnaphthalene	66577-18-2	333.04	18.775	2
26505	C13H26O2	methyl dodecanoate	111-82-0	278.15	33.795	2	27280	C14H16	1-methyl-3-isopropylnaphthalene	66577-16-0	333.04	18.775	2
26506	C13H26O2	ethyl undecanoate	627-90-7	258.15	28.255	2	27281	C14H16	1-methyl-4-isopropylnaphthalene	1680-53-1	333.04	18.775	2
26507	C13H26O2	isoamyl caprylate	2035-99-6	243.51	28.255	2	27282	C14H16	1-methyl-6-isopropylnaphthalene	10136-83-1	333.04	18.775	2
26515	C13H27Br	1-bromotridecane	765-09-3	279.35	34.711	2	27283	C14H16	1-methyl-7-isopropylnaphthalene	490-65-3	333.04	18.775	2
26516	C13H27Cl	1-chlorotridecane	822-13-9	273.85	33.623	2	27284	C14H16	2-methyl-8-isopropylnaphthalene	---	333.04	18.775	2
26517	C13H27F	1-fluorotridecane	1536-21-6	276.15	32.506	2	27285	C14H16	1,2-diethylnaphthalene	19182-11-7	333.04	22.298	2
26518	C13H27I	1-iodotridecane	35599-77-0	285.45	33.832	2	27286	C14H16	1,4-diethylnaphthalene	37796-58-0	293.15	22.298	2
26522	C13H27NO2	1-nitrotridecane	26817-31-2	379.38	36.708	2	27287	C14H16	1,6-diethylnaphthalene	19182-13-9	333.04	22.298	2
26526	C13H28	tridecane	629-50-5	267.76	28.500	1	27288	C14H16	1,7-diethylnaphthalene	66577-37-5	333.04	22.298	2
26527	C13H28	2-methyldodecane	1560-97-0	247.15	25.903	2	27289	C14H16	2,3-diethylnaphthalene	66610-91-1	333.04	22.298	2
26528	C13H28	3-methyldodecane	17312-57-1	220.15	25.903	2	27289.1	C14H16	2,6-diethylnaphthalene	59919-41-4	322.15	20.300	2
26529	C13H28	2,2-dimethylundecane	17312-64-0	238.19	22.012	2	27290	C14H16	2,4-dimethyl-1-ethylnaphthalene	66577-14-8	333.04	21.909	2
26530	C13H28	2,3-dimethylundecane	17312-77-5	205.77	22.380	2	27291	C14H16	4,6-dimethyl-1-ethylnaphthalene	66577-15-9	333.04	21.909	2
26531	C13H28	2,4-dimethylundecane	17312-80-0	205.77	22.380	2	27292	C14H16	2,5-dimethyl-3-ethylnaphthalene	---	333.04	21.909	2
26532	C13H28	5-butylnonane	17312-63-9	230.80	24.574	2	27293	C14H16	1,2-dimethyl-4-ethylnaphthalene	66577-38-6	333.04	21.909	2
26535	C13H28O	1-tridecanol	112-70-9	303.75	41.400	1	27294	C14H16	1,3-dimethyl-5-ethylnaphthalene	66577-40-0	303.15	21.909	2
26536	C13H28O	2-tridecanol	1653-31-2	295.15	34.490	2	27295	C14H16	1,4-dimethyl-5-ethylnaphthalene	66309-90-8	265.15	21.909	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
27296	C14H16	1,3-dimethyl-6-ethylnaphthalene	39622-45-2	333.04	21.909	2	27880	C14H28O2	hexyl octanoate	1117-55-1	242.55	8.720	2
27297	C14H16	1,4-dimethyl-6-ethylnaphthalene	66610-92-2	333.04	21.909	2	27881	C14H28O2	pentyl nonanoate	61531-45-1	246.15	8.720	2
27298	C14H16	1,2-dimethyl-7-ethylnaphthalene	66577-39-7	333.04	21.909	2	27882	C14H28O2	ethyl laurate	106-33-2	271.45	9.312	1
27299	C14H16	1,2,3,4-tetramethylnaphthalene	3031-15-0	379.15	21.520	2	27883	C14H28O2	methyl tridecanoate	1731-88-0	279.65	8.720	2
27300	C14H16	1,2,3,6-tetramethylnaphthalene	66577-20-6	332.15	21.520	2	27885	C14H28O2	3,7-dimethyloctanyl butyrate	67874-80-0	289.37	36.385	2
27301	C14H16	1,2,4,6-tetramethylnaphthalene	66577-21-7	317.15	21.520	2	27895	C14H29Br	1-bromotetradecane	112-71-0	278.75	37.301	2
27302	C14H16	1,2,4,7-tetramethylnaphthalene	16020-17-0	270.15	21.520	2	27896	C14H29Br	1-bromo-12-methyltridecane	111772-90-8	278.75	37.301	2
27303	C14H16	1,2,4,8-tetramethylnaphthalene	66577-22-8	329.15	21.520	2	27897	C14H29Cl	1-chlorotetradecane	2425-54-9	278.05	36.213	2
27304	C14H16	1,2,5,6-tetramethylnaphthalene	2131-43-3	387.15	21.520	2	27899	C14H29F	1-fluorotetradecane	73180-09-3	277.15	35.096	2
27305	C14H16	1,2,5,8-tetramethylnaphthalene	3031-16-1	333.04	21.520	2	27901	C14H29I	1-iodotetradecane	19218-94-1	286.75	36.422	2
27306	C14H16	1,2,6,8-tetramethylnaphthalene	66577-00-2	333.04	21.520	2	27908	C14H29NO2	1-nitrotetradecane	31241-42-6	390.65	39.039	2
27307	C14H16	1,3,5,8-tetramethylnaphthalene	14558-12-4	329.15	21.520	2	27912	C14H30	tetradecane	629-59-4	279.03	45.070	1
27308	C14H16	1,3,6,7-tetramethylnaphthalene	7435-50-9	318.15	21.520	2	27913	C14H30	2-methyltridecane	1560-96-9	248.15	28.493	2
27309	C14H16	1,4,5,8-tetramethylnaphthalene	2717-39-7	404.15	21.520	2	27914	C14H30	3-methyltridecane	6418-41-3	235.65	28.493	2
27310	C14H16	1,4,6,7-tetramethylnaphthalene	13764-18-6	336.15	21.520	2	27915	C14H30	2,2-dimethyldodecane	49598-54-1	249.46	24.602	2
27311	C14H16	2,3,6,7-tetramethylnaphthalene	1134-40-3	464.15	21.520	2	27916	C14H30	2,3-dimethyldodecane	6117-98-2	217.04	24.970	2
27313	C14H16	7-methyl-1-isopropylnaphthalene	66577-17-1	327.40	21.207	2	27917	C14H30	2,4-dimethyldodecane	6117-99-3	217.04	24.970	2
27314	C14H16	1,3,6,8-tetramethylnaphthalene	14558-14-6	357.65	21.207	2	27918	C14H30	7-methyltridecane	26730-14-3	235.95	29.079	2
27506.1	C14H18O8	di-1-glyceryl terephthalate	66032-51-76	397.40	86.800	2	27922	C14H30O	1-tetradecanol	112-72-1	311.00	49.400	1
27560	C14H20	1-butyl-[1,2,3,4-tetrahydronaphthalene]	38857-76-0	266.11	21.703	2	27923	C14H30O	2-tetradecanol	4706-81-4	307.15	32.581	2
27561	C14H20	2-butyl-[1,2,3,4-tetrahydronaphthalene]	36230-28-1	243.05	21.703	2	27924	C14H30O	3-tetradecanol	1653-32-3	304.65	39.975	2
27562	C14H20	1,2,3,4-tetrahydro-1,1,2,6-tetramethylnaphth*	1681-22-7	247.92	21.178	2	27925	C14H30O	12-methyl-1-tridecanol	21987-21-3	283.65	39.975	2
27565	C14H20	5-butyl-1,2,3,4-tetrahydronaphthalene	66325-42-6	224.05	21.178	2	27926	C14H30O	2-methyl-3-tridecanol	98930-89-3	293.15	39.975	2
27566	C14H20	1,2,3,4-tetrahydro-5-isobutylnaphthalene	5458-54-8	258.45	21.178	2	27927	C14H30O	2-methyl-4-tridecanol	36691-77-7	301.79	39.975	2
27566.1	C14H20	diamantane	2292-79-7	517.92	86.460	1	27928	C14H30O	diheptyl ether	629-64-1	269.27	33.204	2
27644	C14H22	octylbenzene	2189-60-8	234.20	29.957	1	27929	C14H30O	tetradecanol; mixed isomers	27196-00-5	311.15	39.975	2
27645	C14H22	1,2,3,4-tetraethylbenzene	642-32-0	284.96	24.890	2	27946	C14H30S	1-tetradecanethiol	2079-95-0	279.26	43.270	2
27646	C14H22	1,2,3,5-tetraethylbenzene	38842-05-6	284.16	24.890	2	27947	C14H30S	2-tetradecanethiol	62155-04-8	274.15	39.042	2
27647	C14H22	1,2,4,5-tetraethylbenzene	635-81-4	283.16	24.890	2	27948	C14H30S	diheptyl sulfide	629-65-2	343.15	36.146	2
27648	C14H22	1,4-di-tert-butylbenzene	1012-72-2	352.65	27.311	2	27949	C14H30S	methyl tridecyl sulfide	62155-09-3	276.16	36.146	2
27649	C14H22	(1-methylheptyl)benzene	777-22-0	234.25	27.311	2	27950	C14H30S	ethyl dodecyl sulfide	2851-83-4	276.16	36.146	2
27650	C14H22	1,3-di-tert-butylbenzene	1014-60-4	283.65	27.311	2	27951	C14H30S	propyl undecyl sulfide	66826-84-4	276.16	36.146	2
27679	C14H22O	p-tert-octylphenol	140-66-9	358.55	27.000	2	27952	C14H30S	butyl decyl sulfide	19313-57-6	276.16	36.146	2
27680	C14H22O	2,4-di-tert-butylphenol	96-76-4	329.65	24.258	2	27953	C14H30S2	diheptyl disulfide	10496-16-9	235.16	32.221	2
27681	C14H22O	2,6-di-sec-butylphenol	5510-99-6	231.15	24.258	2	27956	C14H31N	tetradecylamine	2016-42-4	311.34	51.000	2
27682	C14H22O	2,6-di-tert-butylphenol	128-39-2	312.15	24.258	2	27957	C14H31N	methyltridecylamine	45165-81-9	274.15	37.025	2
27687	C14H22O	4-octylphenol	1806-26-4	316.15	24.258	2	27958	C14H31N	ethyldodecylamine	35902-57-9	274.15	37.025	2
27688	C14H22O	tert-octylphenol	27193-28-8	346.15	24.258	2	27959	C14H31N	diheptylamine	2470-68-0	274.15	37.025	2
27689	C14H22O	3,5-bis(1,1-dimethylethyl)phenol	1138-52-9	361.15	24.258	2	27960	C14H31N	dimethyldodecylamine	112-18-5	252.85	35.037	2
27691	C14H22O	2-isopropyl-6-(1-methylbutyl)phenol	74926-98-0	322.14	24.258	2	27961	C14H31N	diethyldecylamine	6308-94-7	252.85	35.037	2
27779	C14H26	1-nonylcyclopentene	62184-74-1	223.13	27.173	2	28029	C15H10N2O2	diphenylmethane-4,4'-diisocyanate	101-68-8	313.57	27.300	1
27780	C14H26	1-tetradecyne	765-10-6	294.01	34.990	2	28135.1	C15H12	1-phenylindene	1961-96-2	310.65	13.500	2
27781	C14H26	3-tetradecyne	60212-32-0	353.14	35.136	2	28250	C15H14	1,1-diphenyl-1-propene	778-66-5	322.15	21.580	2
27782	C14H26	7-tetradecyne	35216-11-6	323.58	35.351	2	28251	C15H14	1,2-diphenyl-1-propene	779-51-1	355.15	21.563	2
27825	C14H27Br	cis-1-bromo-1-tetradecene	66827-02-9	301.76	37.503	2	28252	C15H14	1,3-diphenyl-1-propene	5209-18-7	289.15	21.563	2
27826	C14H27Br	trans-1-bromo-1-tetradecene	66827-03-0	301.76	37.503	2	28253	C15H14	2,3-diphenyl-1-propene	948-97-0	321.15	21.563	2
27828	C14H27Br3	1,1,1-tribromotetradecane	62155-25-3	428.86	40.457	2	28379	C15H16	1,1-diphenylpropane	1530-03-6	286.85	21.006	2
27829	C14H27Cl	cis-1-chloro-1-tetradecene	66827-04-1	271.88	36.415	2	28380	C15H16	1,2-diphenylpropane	5814-85-7	273.40	19.165	2
27830	C14H27Cl	trans-1-chloro-1-tetradecene	66827-05-2	271.88	36.415	2	28381	C15H16	1,3-diphenylpropane	1081-75-0	252.40	22.688	2
27832	C14H27Cl3	1,1,1-trichlorotetradecane	62108-58-1	339.22	37.193	2	28382	C15H16	2,2-diphenylpropane	778-22-3	302.35	15.274	2
27833	C14H27F	cis-1-fluoro-1-tetradecene	66827-06-3	274.11	35.298	2	28383	C15H16	2-methyl-1,1-diphenylethane	32341-92-7	304.56	18.776	2
27834	C14H27F	trans-1-fluoro-1-tetradecene	66827-07-4	274.11	35.298	2	28384	C15H16	3-methyl-1,1-diphenylethane	32341-91-6	304.56	18.776	2
27835	C14H27F3	1,1,1-trifluorotetradecane	62126-99-2	345.91	33.842	2	28385	C15H16	4-methyl-1,1-diphenylethane	3717-68-8	304.56	18.776	2
27836	C14H27I	cis-1-iodo-1-tetradecene	66827-08-5	300.02	36.624	2	28386	C15H16	2-methyl-1,2-diphenylethane	34403-05-9	304.56	22.299	2
27837	C14H27I	trans-1-iodo-1-tetradecene	66827-09-6	300.02	36.624	2	28387	C15H16	3-methyl-1,2-diphenylethane	34403-06-0	304.56	22.299	2
27838	C14H27I3	1,1,1-triiodotetradecane	---	423.64	37.820	2	28388	C15H16	4-methyl-1,2-diphenylethane	14310-20-4	304.56	22.299	2
27839	C14H27N	tetradecanenitrile	629-63-0	292.45	33.522	2	28389	C15H16	2-ethyldiphenylmethane	28122-25-0	262.03	22.299	2
27847	C14H28	nonylcyclopentane	2882-98-6	244.16	33.129	1	28390	C15H16	3-ethyldiphenylmethane	28122-24-9	263.95	22.299	2
27848	C14H28	octylcyclohexane	1795-15-9	253.46	30.125	1	28391	C15H16	4-ethyldiphenylmethane	620-85-9	249.65	22.299	2
27850	C14H28	1-tetradecene	1120-36-1	260.30	25.470	1	28392	C15H16	2',3'-dimethyldiphenylmethane	62155-16-2	304.56	21.910	2
27851	C14H28	2-tetradecene	638-60-8	279.65	32.218	2	28393	C15H16	2',4'-dimethyldiphenylmethane	28122-28-3	304.56	21.910	2
27852	C14H28	2-methyl-1-tridecene	18094-01-4	251.37	29.426	2	28394	C15H16	2',5'-dimethyldiphenylmethane	13540-50-6	304.56	21.910	2
27853	C14H28	trans-7-tetradecene	41446-63-3	263.77	29.026	2	28395	C15H16	2',6'-dimethyldiphenylmethane	---	304.56	21.910	2
27854	C14H28Br2	1,1-dibromotetradecane	62168-31-4	351.64	39.063	2	28396	C15H16	3',4'-dimethyldiphenylmethane	13540-56-2	304.56	21.910	2
27855	C14H28Br2	1,14-dibromotetradecane	37688-96-3	323.55	37.503	2	28397	C15H16	3',5'-dimethyldiphenylmethane	28122-27-2	304.56	21.910	2
27856	C14H28Cl2	1,1-dichlorotetradecane	4168-40-5	291.88	36.887	2	28398	C15H16	2',2"-dimethyldiphenylmethane	28122-29-4	304.56	21.910	2
27857	C14H28F2	1,1-difluorotetradecane	62127-03-1	296.34	34.653	2	28399	C15H16	2',3"-dimethyldiphenylmethane	21895-13-6	304.56	21.910	2
27858	C14H28I2	1,1-diiodotetradecane	66826-79-7	348.16	37.305	2	28400	C15H16	2',4"-dimethyldiphenylmethane	21895-17-0	304.56	21.910	2
27862	C14H28O	tetradecanal	124-25-4	298.15	48.027	2	28401	C15H16	3',3"-dimethyldiphenylmethane	---	304.56	21.910	2
27863	C14H28O	2-tetradecanone	2345-27-9	306.70	49.120	1	28402	C15H16	3',4"-dimethyldiphenylmethane	21895-16-9	304.56	21.910	2
27864	C14H28O	7-ethyl-2-methyl-4-undecanone	6976-00-7	311.33	49.862	2	28403	C15H16	4',4"-dimethyldiphenylmethane	4957-14-6	302.15	21.910	2
27865	C14H28O	2-methyl-3-tridecanone	40239-35-8	320.15	49.862	2	28429	C15H16O	p-cumylphenol	599-64-4	346.40	21.677	1
27866	C14H28O	3-tetradecanone	629-23-2	307.15	49.862	2	28436	C15H16O2	bisphenol a	80-05-7	426.15	29.286	2
27873	C14H28O2	tetradecanoic acid	544-63-8	327.55	45.100	1	28495	C15H18	2-pentylnaphthalene	93-22-1	269.16	25.277	2
27874	C14H28O2	tridecyl formate	42875-41-2	305.74	38.067	2	28496	C15H18	1,6-dimethyl-4-isopropylnaphthalene	483-78-3	260.16	25.307	2
27875	C14H28O2	dodecyl acetate	112-66-3	274.25	36.385	2	28497	C15H18	1-pentylnaphthalene	86-89-5	251.15	25.277	2
27876	C14H28O2	undecyl propanoate	5458-33-3	289.37	36.385	2	28604	C15H21AlO6	aluminum acetylacetonate	13963-57-0	466.70	33.700	1
27877	C14H28O2	decyl butanoate	5454-09-1	289.37	36.385	2	28609	C15H21CrO6	chromium acetylacetonate	21679-31-2	481.90	34.000	1
27878	C14H28O2	octyl hexanoate	4887-30-3	245.15	8.720	2	28647	C15H22	1-pentyl-[1,2,3,4-tetrahydronaphthalene]	66359-06-6	277.38	24.293	2
27879	C14H28O2	heptyl heptanoate	624-09-9	240.15	8.720	2	28648	C15H22	2-pentyl-[1,2,3,4-tetrahydronaphthalene]	66359-07-7	277.38	24.293	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
28725	C15H24	nonylbenzene	1081-77-2	249.00	28.870	1	28937	C15H33N	triisopentylamine	645-41-0	260.00	37.627	2
28726	C15H24	1,2,4-triisopropylbenzene	948-32-3	273.13	31.668	2	28938	C15H33N	tris(2-methylbutyl)amine	620-43-9	260.00	37.627	2
28727	C15H24	1,3,5-triisopropylbenzene	717-74-8	265.75	31.668	2	28984	C16H10	fluoranthene	206-44-0	383.36	18.728	1
28728	C15H24	3,5-di-tert-butyltoluene	15181-11-0	304.65	31.668	2	28985	C16H10	pyrene	129-00-0	423.81	17.360	1
28756	C15H24O	2,6-di-tert-butyl-p-cresol	128-37-0	344.00	27.000	2	29024	C16H12	1-phenylnaphthalene	605-02-7	318.15	21.908	2
28757	C15H24O	nonylphenol	25154-52-3	329.76	25.883	2	29232	C16H16	1,1-diphenyl-1-butene	1726-14-3	271.96	24.170	2
28758	C15H24O	2,4-di-tert-butyl-5-methylphenol	497-39-2	335.25	25.883	2	29233	C16H16	1,3-diphenyl-1-butene	7614-93-9	320.65	29.182	2
28759	C15H24O	2,4-di-tert-butyl-6-methylphenol	616-55-7	324.15	25.883	2	29234	C16H16	cis-2,3-diphenyl-2-butene	782-05-8	340.65	29.182	2
28764	C15H24O	4-nonylphenol	104-40-5	315.65	25.883	2	29235	C16H16	trans-2,3-diphenyl-2-butene	782-06-9	380.15	29.182	2
28765	C15H24O	4-nonylphenol, isomers	84852-15-3	329.76	25.883	2	29290.1	C16H16O2	trans-3,5-dimethoxystilbene	21956-56-9	329.55	23.900	1
28819	C15H28	1-decylcyclopentene	62184-75-2	234.40	29.763	2	29342	C16H18	1,1-diphenylbutane	719-79-9	247.95	21.755	2
28820	C15H28	1-pentadecyne	765-13-9	283.16	37.580	2	29343	C16H18	1,2-diphenylbutane	5223-59-6	302.63	26.552	2
28821	C15H28	2-pentadecyne	52112-25-1	364.41	37.726	2	29344	C16H18	1,4-diphenylbutane	1083-56-3	325.65	26.552	2
28822	C15H28	3-pentadecyne	61886-61-1	364.41	37.726	2	29346	C16H18	1,3-diphenylbutane, (±)	116783-21-2	302.63	26.552	2
28837	C15H29Br	cis-1-bromo-1-pentadecene	66374-76-3	313.03	40.093	2	29347	C16H18	1,3-diphenyl-2-methylpropane	1520-46-3	239.45	26.552	2
28838	C15H29Br	trans-1-bromo-1-pentadecene	66374-77-4	313.03	40.093	2	29356	C16H18	DL-2,3-diphenylbutane	2726-21-8	302.63	26.552	2
28839	C15H29Br3	1,1,1-tribromopentadecane	62127-71-3	440.13	43.047	2	29358	C16H18	meso-2,3-diphenylbutane	4613-11-0	397.45	26.552	2
28840	C15H29Cl	cis-1-chloro-1-pentadecene	66374-78-5	283.15	39.005	2	29359.1	C16H18	4-ethyl-bibenzyl	7439-15-8	292.00	21.300	2
28841	C15H29Cl	trans-1-chloro-1-pentadecene	66374-79-6	283.15	39.005	2	29440	C16H20	1-hexylnaphthalene	2876-53-1	255.15	27.867	2
28842	C15H29Cl3	1,1,1-trichloropentadecane	62108-59-2	350.49	39.783	2	29441	C16H20	2-hexylnaphthalene	2876-46-2	267.65	27.867	2
28843	C15H29F	cis-1-fluoro-1-pentadecene	66291-42-7	285.38	37.888	2	29442	C16H20	1-isopropyl-2,4,7-trimethylnaphthalene	6995-30-8	303.85	32.411	2
28844	C15H29F	trans-1-fluoro-1-pentadecene	66291-43-8	285.38	37.888	2	29443	C16H20	1,2,5-trimethyl-8-isopropylnaphthalene	6897-76-3	360.15	32.411	2
28845	C15H29F3	1,1,1-trifluoropentadecane	62127-00-8	357.18	36.432	2	29444	C16H20	1,3,8-trimethyl-5-isopropylnaphthalene	6897-88-7	294.65	32.411	2
28846	C15H29I	cis-1-iodo-1-pentadecene	66291-44-9	311.29	39.214	2	29445	C16H20	2,6-diisopropylnaphthalene	24157-81-1	341.65	32.411	2
28847	C15H29I	trans-1-iodo-1-pentadecene	66291-45-0	311.29	39.214	2	29446	C16H20	bis(isopropyl)naphthalene	38640-62-9	303.85	32.411	2
28848	C15H29I3	1,1,1-triiodopentadecane	---	434.91	40.410	2	29559	C16H24	1-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-11-9	288.65	26.883	2
28849	C15H29N	pentadecanenitrile	18300-91-9	295.85	36.112	2	29560	C16H24	2-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-09-5	288.65	26.883	2
28855	C15H30	decylcyclopentane	1795-21-7	251.02	33.125	1	29561	C16H24	1,2,3,4-tetrahydro-6-ethyl-1,1,4,4-tetrameth*	80-81-9	288.65	26.883	2
28856	C15H30	nonylcyclohexane	2883-02-5	262.96	34.309	1	29595	C16H26	decylbenzene	104-72-3	258.77	32.635	1
28857	C15H30	1-ethyl-1-methyl-2,4-diisopropylcyclohexane,*	515-12-8	262.96	34.309	2	29596	C16H26	pentaethylbenzene	605-01-6	327.66	29.681	2
28859	C15H30	1-pentadecene	13360-61-7	269.42	29.570	1	29599	C16H26	(1-methylnonyl)benzene	4537-13-7	272.65	31.027	2
28860	C15H30	2-methyl-1-tetradecene	52254-38-3	258.08	32.016	2	29640	C16H30	1-hexadecyne	629-74-3	288.16	40.170	2
28861	C15H30	7-pentadecene	15430-98-5	263.75	30.834	2	29641	C16H30	2-hexadecyne	629-75-4	293.15	40.316	2
28862	C15H30	8-pentadecene	15430-98-5	263.75	30.834	2	29642	C16H30	3-hexadecyne	61886-62-2	375.68	40.316	2
28862.1	C15H30	trans-2-pentadecene	74392-36-2	263.00	36.300	2	29646	C16H30	1-undecylcyclopentene	62184-76-3	245.67	32.353	2
28864	C15H30Br2	1,1-dibromopentadecane	62168-32-5	362.91	41.653	2	29684	C16H31Br	cis-1-bromo-1-hexadecene	66271-67-8	324.30	42.683	2
28865	C15H30Cl2	1,1-dichloropentadecane	822-15-1	303.15	39.477	2	29685	C16H31Br	trans-1-bromo-1-hexadecene	66271-68-9	324.30	42.683	2
28866	C15H30F2	1,1-difluoropentadecane	62127-04-2	307.61	37.243	2	29688	C16H31Br3	1,1,1-tribromohexadecane	62127-72-4	451.40	45.637	2
28867	C15H30I2	1,1-diiodopentadecane	66325-78-8	359.43	39.895	2	29689	C16H31Cl	cis-1-chloro-1-hexadecene	66271-69-0	294.42	41.595	2
28873	C15H30O	pentadecanal	2765-11-9	300.15	51.653	2	29690	C16H31Cl	trans-1-chloro-1-hexadecene	66271-70-3	294.42	41.595	2
28874	C15H30O	2-pentadecanone	2345-28-0	312.20	54.570	1	29692	C16H31Cl3	1,1,1-trichlorohexadecane	62108-60-5	361.76	42.373	2
28875	C15H30O	8-pentadecanone	818-23-5	316.15	54.915	2	29693	C16H31F	cis-1-fluoro-1-hexadecene	66271-71-4	296.65	40.478	2
28879	C15H30O2	pentadecanoic acid	1002-84-2	325.68	41.526	1	29694	C16H31F	trans-1-fluoro-1-hexadecene	66271-72-5	296.65	40.478	2
28880	C15H30O2	tetradecyl formate	5451-63-8	317.01	40.657	2	29695	C16H31F3	1,1,1-trifluorohexadecane	62127-01-9	368.45	39.022	2
28881	C15H30O2	tridecyl acetate	1072-33-9	281.55	38.975	2	29696	C16H31I	cis-1-iodo-1-hexadecene	66271-73-6	322.56	41.804	2
28882	C15H30O2	dodecyl propanoate	6221-93-8	300.64	38.975	2	29697	C16H31I	trans-1-iodo-1-hexadecene	66271-74-7	322.56	41.804	2
28883	C15H30O2	undecyl butanoate	5461-02-9	300.64	38.975	2	29698	C16H31I3	1,1,1-triiodohexadecane	---	446.18	43.000	2
28884	C15H30O2	octyl heptanoate	5132-75-2	250.65	11.300	2	29699	C16H31N	hexadecanenitrile	629-79-8	304.65	38.702	2
28885	C15H30O2	heptyl octanoate	4265-97-8	262.55	12.102	2	29704	C16H32	undecylcyclopentane	6785-23-5	263.16	31.131	2
28886	C15H30O2	propyl dodecanoate	3681-78-5	268.45	12.102	2	29705	C16H32	decylcyclohexane	1795-16-0	271.43	38.597	1
28887	C15H30O2	isopropyl dodecanoate	10233-13-3	268.45	12.102	2	29707	C16H32	1-hexadecene	629-73-2	277.51	30.192	1
28888	C15H30O2	methyl tetradecanoate	124-10-7	292.15	12.102	2	29708	C16H32	2-methyl-1-pentadecene	29833-69-0	266.58	34.606	2
28889	C15H30O2	ethyl tridecanoate	28267-29-0	268.45	12.102	2	29709	C16H32	2-methyl-1-propene, tetramer	15220-85-6	175.15	28.603	2
28898	C15H31Br	1-bromopentadecane	629-72-1	292.15	39.891	2	29710	C16H32Br2	1,16-dibromohexadecane	45223-18-5	329.15	41.581	2
28899	C15H31Cl	1-chloropentadecane	4862-03-1	287.85	38.803	2	29711	C16H32Br2	1,1-dibromohexadecane	62168-33-6	374.18	44.243	2
28900	C15H31F	1-fluoropentadecane	1555-17-5	290.15	37.686	2	29712	C16H32Cl2	1,1-dichlorohexadecane	62017-19-0	314.42	42.067	2
28901	C15H31I	1-iodopentadecane	35599-78-1	297.15	39.012	2	29713	C16H32F2	1,1-difluorohexadecane	62127-05-3	318.88	39.833	2
28903	C15H31NO2	1-nitropentadecane	39220-65-0	401.92	41.370	2	29714	C16H32I2	1,1-diiodohexadecane	66271-75-8	370.70	42.485	2
28904	C15H32	pentadecane	629-62-9	283.11	34.600	1	29717	C16H32O	hexadecanal	629-80-1	309.15	55.279	2
28905	C15H32	2-methyltetradecane	1560-95-8	264.85	31.083	2	29718	C16H32O	2-hexadecanone	18787-63-8	317.15	50.434	2
28906	C15H32	3-methyltetradecane	18435-22-8	241.15	31.083	2	29719	C16H32O	3-hexadecanone	18787-64-9	316.15	50.354	2
28907	C15H32	2,2-dimethyltridecane	61869-04-3	260.73	27.192	2	29721	C16H32O2	hexadecanoic acid	57-10-3	336.00	54.935	1
28908	C15H32	2,3-dimethyltridecane	18435-20-6	228.31	27.560	2	29722	C16H32O2	2-hexyldecanoic acid	25354-97-6	336.00	54.935	2
28909	C15H32	2,4-dimethyltridecane	61868-05-1	228.31	27.560	2	29723	C16H32O2	pentadecyl formate	66271-76-9	286.83	43.247	2
28912	C15H32O	1-pentadecanol	629-76-5	317.04	38.694	2	29724	C16H32O2	tetradecyl acetate	638-59-5	287.15	41.565	2
28913	C15H32O	2-pentadecanol	1653-34-5	308.15	35.171	2	29725	C16H32O2	tridecyl propanoate	66271-77-0	272.73	41.565	2
28914	C15H32O	3-pentadecanol	53346-71-7	311.95	36.890	2	29726	C16H32O2	dodecyl butanoate	3724-61-6	259.15	41.565	2
28915	C15H32O	2,8-dimethyl-6-isobutylnonanol-4	10143-20-1	312.38	36.890	2	29727	C16H32O2	octyl octanoate	2306-88-9	255.05	13.000	2
28921	C15H32S	1-pentadecanethiol	25276-70-4	290.93	46.378	2	29728	C16H32O2	heptyl nonanoate	71605-85-1	257.65	13.824	2
28922	C15H32S	2-pentadecanethiol	62155-05-9	280.15	42.150	2	29729	C16H32O2	ethyl myristate	124-06-1	285.45	13.824	2
28923	C15H32S	methyl tetradecyl sulfide	7289-45-4	284.16	38.736	2	29730	C16H32O2	methyl pentadecanoate	7132-64-1	291.65	13.824	2
28924	C15H32S	ethyl tridecyl sulfide	66271-81-6	284.16	38.736	2	29731	C16H32O2	n-butyl laurate	106-18-3	266.31	13.824	2
28925	C15H32S	propyl dodecyl sulfide	66271-82-7	284.16	38.736	2	29732	C16H32O2	2-ethylhexyl-2-ethylhexanoate	7425-14-1	271.22	13.824	2
28926	C15H32S	butyl undecyl sulfide	66271-83-8	284.16	38.736	2	29739	C16H33Br	1-bromohexadecane	112-82-3	291.05	42.481	2
28931	C15H33N	pentadecylamine	2570-26-5	309.65	47.764	2	29740	C16H33Cl	1-chlorohexadecane	4860-03-1	291.05	41.393	2
28932	C15H33N	methyltetradecylamine	29369-63-9	301.15	39.615	2	29744	C16H33F	1-fluorohexadecane	408-38-8	291.15	40.276	2
28933	C15H33N	ethyltridecylamine	59570-06-8	305.40	43.641	2	29746	C16H33I	1-iodohexadecane	544-77-4	297.85	41.602	2
28934	C15H33N	dimethyltridecylamine	17373-29-4	260.00	37.627	2	29750	C16H33NO2	1-nitrohexadecane	66271-50-9	413.19	43.701	2
28935	C15H33N	diethylundecylamine	54334-64-4	260.00	37.627	2	29754	C16H34	hexadecane	544-76-3	291.34	53.359	1
28936	C15H33N	tripentylamine	621-77-2	315.63	50.936	2	29755	C16H34	2-methylpentadecane	1560-93-6	266.15	33.673	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
29756	C16H34	3-methylpentadecane	2882-96-4	250.85	33.673	2	30340	C17H35I	1-iodoheptadecane	26825-83-2	306.85	44.192	2
29757	C16H34	2,2-dimethyltetradecane	59222-86-5	272.00	29.782	2	30343	C17H35NO2	1-nitroheptadecane	39220-66-1	424.46	46.032	2
29758	C16H34	2,3-dimethyltetradecane	18435-23-9	239.58	30.150	2	30346	C17H36	heptadecane	629-78-7	295.13	40.160	1
29759	C16H34	2,4-dimethyltetradecane	61868-06-2	239.58	30.150	2	30347	C17H36	2-methylhexadecane	1560-92-5	277.15	36.263	2
29760	C16H34	2,2,4,4,6,8,8-heptamethylnonane	4390-04-9	259.92	34.876	2	30348	C17H36	3-methylhexadecane	6418-43-5	258.15	36.263	2
29766	C16H34O	1-hexadecanol	36653-82-4	322.35	33.600	1	30349	C17H36	2,2-dimethylpentadecane	61869-05-4	283.27	32.372	2
29767	C16H34O	2-hexadecanol	14852-31-4	317.15	37.761	2	30350	C17H36	2,3-dimethylpentadecane	2882-97-5	250.85	32.740	2
29768	C16H34O	3-hexadecanol	593-03-3	323.15	34.843	2	30351	C17H36	2,4-dimethylpentadecane	61868-07-3	250.85	32.740	2
29769	C16H34O	2-methyl-1-pentadecanol	25354-98-7	285.65	34.843	2	30352	C17H36O	1-heptadecanol	1454-85-9	327.05	64.000	2
29770	C16H34O	6-methyl-6-pentadecanol	108836-86-8	312.08	34.843	2	30353	C17H36O	2-heptadecanol	16813-18-6	317.65	40.351	2
29771	C16H34O	dioctyl ether	629-82-3	265.55	47.600	2	30354	C17H36O	9-heptadecanol	624-08-8	334.15	52.684	2
29772	C16H34O	bis(2-ethylhexyl) ether	10143-60-9	265.55	47.600	2	30355	C17H36O	heptadecanol (mixed primary isomers)	52783-44-5	327.15	52.684	2
29773	C16H34O	2-hexyl-1-decanol	2425-77-6	312.08	34.843	2	30362	C17H36S	1-heptadecanethiol	53193-22-9	300.37	52.594	2
29789	C16H34S	1-hexadecanethiol	2917-26-2	290.93	49.486	2	30363	C17H36S	2-heptadecanethiol	66577-60-4	293.15	48.366	2
29790	C16H34S	2-hexadecanethiol	66271-53-2	288.15	45.258	2	30364	C17H36S	methyl hexadecyl sulfide	27563-68-4	294.16	43.916	2
29791	C16H34S	dioctyl sulfide	2690-08-6	288.16	41.326	2	30365	C17H36S	ethyl pentadecyl sulfide	64919-20-6	294.16	43.916	2
29792	C16H34S	methyl pentadecyl sulfide	62155-10-6	288.16	41.326	2	30366	C17H36S	propyl tetradecyl sulfide	66577-61-5	294.16	43.916	2
29793	C16H34S	ethyl tetradecyl sulfide	66271-54-3	288.16	41.326	2	30367	C17H36S	butyl tridecyl sulfide	66577-62-6	294.16	43.916	2
29794	C16H34S	propyl tridecyl sulfide	66271-55-4	288.16	41.326	2	30369	C17H37N	heptadecylamine	4200-95-7	317.15	53.980	2
29795	C16H34S	butyl dodecyl sulfide	16900-08-6	288.16	41.326	2	30370	C17H37N	methylhexadecylamine	13417-08-8	309.15	44.795	2
29797	C16H34S2	dioctyl disulfide	822-27-5	244.16	36.365	2	30371	C17H37N	ethylpentadecylamine	56392-13-3	309.15	44.795	2
29798	C16H35N	hexadecylamine	143-27-1	319.92	50.872	2	30372	C17H37N	dimethylpentadecylamine	17678-60-3	277.65	42.807	2
29799	C16H35N	ethyltetradecylamine	66271-56-5	287.77	42.205	2	30373	C17H37N	diethyltridecylamine	66577-48-8	260.35	40.140	2
29800	C16H35N	dioctylamine	1120-48-5	287.77	42.205	2	30374	C17H37N	methyldioctylamine	4455-26-9	243.05	40.140	2
29801	C16H35N	methylpentadecylamine	29664-53-7	287.77	42.205	2	30406	C18H12	chrysene	218-01-9	531.15	26.200	1
29802	C16H35N	N-(1-methylheptyl)-2-octanamine	5412-92-0	287.77	42.205	2	30410	C18H12	triphenylene	217-59-4	471.01	24.744	1
29803	C16H35N	dimethyltetradecylamine	112-75-4	270.15	40.217	2	30456.1	C18H13N3O4	4,4'-dinitrotriphenylamine	1100-1-3	479.65	30.100	2
29804	C16H35N	diethyldodecylamine	4271-27-6	270.15	40.217	2	30457	C18H14	m-terphenyl	92-06-8	360.00	24.090	1
29805	C16H35N	bis(2-ethylhexyl)amine	106-20-7	287.77	42.205	2	30458	C18H14	o-terphenyl	84-15-1	329.35	17.192	1
29862	C17H12	11H-benzo[a]fluorene	238-84-6	462.80	18.400	1	30459	C18H14	p-terphenyl	92-94-4	486.30	35.500	1
29863	C17H12	11H-benzo[b]fluorene	243-17-4	489.70	23.400	1	30566	C18H15O4P	triphenyl phosphate	115-86-6	323.15	23.970	1
30056	C17H18	1,1-diphenyl-1-pentene	1530-11-6	266.11	26.760	2	30567	C18H15P	triphenylphosphine	603-35-0	354.40	19.690	1
30117	C17H20	1,1-diphenylpentane	1726-12-1	261.13	24.345	2	30714	C18H20	1,1-diphenyl-1-hexene	1530-19-4	261.01	29.350	2
30118	C17H20	1,3-diphenylpentane	838-45-9	263.14	24.532	2	30715	C18H20	2,4-diphenyl-4-methyl-1-pentene	6362-80-7	261.01	29.350	2
30119	C17H20	1,5-diphenylpentane	1718-50-9	265.15	24.532	2	30778	C18H22	1,1-diphenylhexane	1530-04-7	261.61	26.935	2
30177	C17H22	1-heptylnaphthalene	2876-52-0	265.15	30.457	2	30779	C18H22	2,3-dimethyl-2,3-diphenylbutane	1889-67-4	392.15	33.655	2
30178	C17H22	2-heptylnaphthalene	2876-45-1	274.15	30.457	2	30806	C18H22O2	dicumyl peroxide	80-43-3	311.15	20.400	1
30241	C17H26	1-heptyl-[1,2,3,4-tetrahydronaphthalene]	66563-99-3	299.92	29.473	2	30836	C18H24	1-octylnaphthalene	2876-51-9	271.15	33.047	2
30242	C17H26	2-heptyl-[1,2,3,4-tetrahydronaphthalene]	26438-24-4	299.92	29.473	2	30837	C18H24	2-octylnaphthalene	2876-44-0	285.15	33.047	2
30264	C17H28	undecylbenzene	6742-54-7	268.00	36.000	1	30838	C18H24	2,6-bis(1,1-dimethylethyl)-naphthalene	3905-64-4	419.05	38.652	2
30284	C17H32	1-heptadecyne	26186-00-5	295.16	31.400	1	30913	C18H28	1-octyl-[1,2,3,4-tetrahydronaphthalene]	29138-91-8	311.19	32.063	2
30285	C17H32	2-heptadecyne	61847-96-9	386.95	42.906	2	30914	C18H28	2-octyl-[1,2,3,4-tetrahydronaphthalene]	66553-10-4	311.19	32.063	2
30286	C17H32	3-heptadecyne	61886-63-3	386.95	42.906	2	30947	C18H30	dodecylbenzene	123-01-3	275.93	40.166	1
30290	C17H32	1-dodecylcyclopentene	62184-77-4	256.94	34.943	2	30948	C18H30	hexaethylbenzene	604-88-6	401.16	34.472	2
30294	C17H33Br	cis-1-bromo-1-heptadecene	66563-89-1	335.57	45.273	2	30949	C18H30	1,2,4,5-tetraisopropylbenzene	635-11-0	391.55	40.152	2
30295	C17H33Br	trans-1-bromo-1-heptadecene	66563-90-4	335.57	45.273	2	30952	C18H30	1,3,5-tri-tert-butylbenzene	1460-02-2	344.65	40.152	2
30296	C17H33Br3	1,1,1-tribromoheptadecane	62127-73-5	462.67	48.227	2	30953	C18H30	1,2,4-tri-tert-butylbenzene	1459-11-6	321.15	40.152	2
30297	C17H33Cl	cis-1-chloro-1-heptadecene	66563-91-5	305.69	44.185	2	30991	C18H32O2	linoleic acid	60-33-3	268.15	47.700	1
30298	C17H33Cl	trans-1-chloro-1-heptadecene	66563-92-6	305.69	44.185	2	31013	C18H34	9-octadecyne	35365-59-4	274.65	44.821	2
30300	C17H33Cl3	1,1,1-trichloroheptadecane	62108-61-6	373.03	44.963	2	31014	C18H34	1-octadecyne	629-89-0	300.16	45.350	2
30301	C17H33F	cis-1-fluoro-1-heptadecene	66577-63-7	307.92	43.068	2	31015	C18H34	2-octadecyne	61847-97-0	303.15	45.496	2
30302	C17H33F	trans-1-fluoro-1-heptadecene	66577-51-3	307.92	43.068	2	31016	C18H34	3-octadecyne	61886-64-4	275.55	45.496	2
30303	C17H33F3	1,1,1-trifluoroheptadecane	62126-84-5	379.72	41.612	2	31018	C18H34	1-tridecylcyclopentene	62184-78-5	268.21	37.533	2
30304	C17H33I	cis-1-iodo-1-heptadecene	66577-52-4	333.83	44.394	2	31030	C18H34O2	oleic acid	112-80-1	286.53	39.600	1
30305	C17H33I	trans-1-iodo-1-heptadecene	66577-53-5	333.83	44.394	2	31031	C18H34O2	elaidic acid	112-79-8	318.15	43.003	2
30306	C17H33I3	1,1,1-triiodoheptadecane	---	457.45	45.590	2	31032	C18H34O2	trans-2-octadecenoic acid	2825-79-8	331.65	43.003	2
30307	C17H33N	heptadecanenitrile	5399-02-0	306.45	41.292	2	31033	C18H34O2	trans-11-octadecenoic acid	693-72-1	317.15	43.003	2
30310	C17H34	dodecylcyclopentane	5634-30-0	268.16	33.721	2	31034	C18H34O2	petroselinic acid	593-39-5	302.30	43.003	2
30311	C17H34	undecylcyclohexane	54105-66-7	278.96	42.677	1	31037	C18H34O3	castor oil	8001-79-4	264.87	17.016	1
30313	C17H34	1-heptadecene	6765-39-5	284.40	31.400	1	31054	C18H35Br	cis-1-bromo-1-octadecene	66292-44-2	346.84	47.863	2
30314	C17H34	2-methyl-1-hexadecene	61868-19-7	274.65	37.196	2	31055	C18H35Br	trans-1-bromo-1-octadecene	66292-45-3	346.84	47.863	2
30315	C17H34Br2	1,1-dibromoheptadecane	62168-34-7	385.45	46.833	2	31057	C18H35Br3	1,1,1-tribromooctadecane	62127-74-6	473.94	50.817	2
30316	C17H34Br2	1,17-dibromoheptadecane	81726-82-1	311.15	42.319	2	31058	C18H35Cl	cis-1-chloro-1-octadecene	66292-46-4	316.96	46.775	2
30317	C17H34Cl2	1,1-dichloroheptadecane	62046-36-0	325.69	44.657	2	31059	C18H35Cl	trans-1-chloro-1-octadecene	66292-47-5	316.96	46.775	2
30318	C17H34F2	1,1-difluoroheptadecane	62127-06-4	330.15	42.423	2	31061	C18H35Cl3	1,1,1-trichlorooctadecane	62108-62-7	384.30	47.553	2
30319	C17H34I2	1,1-diiodoheptadecane	66577-55-7	381.97	45.075	2	31062	C18H35F	cis-1-fluoro-1-octadecene	66292-48-6	319.19	45.658	2
30322	C17H34O	9-heptadecanone	540-08-9	326.15	54.219	2	31063	C18H35F	trans-1-fluoro-1-octadecene	66292-49-7	319.19	45.658	2
30323	C17H34O	2-heptadecanone	2922-51-2	321.15	53.801	2	31064	C18H35F3	1,1,1-trifluorooctadecane	1511-82-6	390.99	44.202	2
30324	C17H34O	heptadecanal	629-90-3	310.15	58.905	2	31065	C18H35I	cis-1-iodo-1-octadecene	66292-50-0	345.10	46.984	2
30325	C17H34O2	heptadecanoic acid	506-12-7	334.35	51.340	1	31066	C18H35I	trans-1-iodo-1-octadecene	66292-51-1	345.10	46.984	2
30326	C17H34O2	hexadecyl formate	4113-08-0	339.55	45.837	2	31067	C18H35I3	1,1,1-triiodooctadecane	---	468.72	48.180	2
30327	C17H34O2	pentadecyl acetate	629-58-3	291.65	44.155	2	31069	C18H35N	octadecanenitrile	638-65-3	314.65	43.882	2
30328	C17H34O2	tetradecyl propanoate	6221-95-0	323.18	44.155	2	31071	C18H36	1-octadecene	112-88-9	290.76	32.600	1
30329	C17H34O2	tridecyl butanoate	56164-20-6	323.18	44.155	2	31072	C18H36	9-octadecene	5557-31-3	242.65	34.420	2
30330	C17H34O2	isopropyl tetradecanoate	110-27-0	302.20	14.971	2	31073	C18H36	2-methyl-1-heptadecene	42764-74-9	281.65	39.786	2
30331	C17H34O2	propyl tetradecanoate	14303-70-9	302.20	14.971	2	31074	C18H36	tridecylcyclopentane	6006-34-4	278.16	36.311	2
30332	C17H34O2	methyl palmitate	112-39-0	302.20	14.971	1	31075	C18H36	dodecylcyclohexane	1795-17-1	258.80	45.836	1
30337	C17H35Br	1-bromoheptadecane	3508-00-7	302.75	45.071	2	31079	C18H36Br2	1,1-dibromooctadecane	62168-35-8	396.72	49.423	2
30338	C17H35Cl	1-chloroheptadecane	62016-75-5	299.35	43.983	2	31080	C18H36Cl2	1,1-dichlorooctadecane	62017-20-3	336.96	47.247	2
30339	C17H35F	1-fluoroheptadecane	1545-17-1	302.15	42.866	2	31083	C18H36F2	1,1-difluorooctadecane	62127-07-5	341.42	45.013	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
31084	C18H36I2	1,1-diiodooctadecane	66292-27-1	393.24	47.665	2	31703	C19H38I2	1,1-diiodononadecane	66359-60-2	404.51	50.255	2
31090	C18H36O	octadecanal	638-66-4	316.15	62.531	2	31704	C19H38O	nonadecanal	17352-32-8	317.15	66.157	2
31091	C18H36O	2-octadecanone	7373-13-9	325.15	57.168	2	31705	C19H38O	2-nonadecanone	629-66-3	329.15	60.535	2
31092	C18H36O	3-octadecanone	18261-92-2	324.15	57.080	2	31706	C19H38O	10-nonadecanone	504-57-4	338.65	61.408	2
31097	C18H36O2	octadecanoic acid	57-11-4	342.75	61.300	1	31708	C19H38O2	nonadecanoic acid	646-30-0	341.23	57.618	1
31098	C18H36O2	2-octyldecanoic acid	619-39-6	311.65	58.519	2	31709	C19H38O2	14-methyloctadecanoic acid	94434-64-7	310.65	55.117	2
31099	C18H36O2	heptadecyl formate	66292-28-2	350.82	48.427	2	31710	C19H38O2	17-methyloctadecanoic acid	2724-59-6	340.65	55.117	2
31100	C18H36O2	hexadecyl acetate	629-70-9	297.35	46.745	2	31711	C19H38O2	9-methyloctadecanoic acid	86073-38-3	313.15	55.117	2
31101	C18H36O2	pentadecyl propanoate	66292-29-3	334.45	46.745	2	31712	C19H38O2	octadecyl formate	5451-75-2	362.09	51.017	2
31102	C18H36O2	tetradecyl butanoate	6221-98-3	334.45	46.745	2	31713	C19H38O2	heptadecyl acetate	822-20-8	303.39	49.335	2
31103	C18H36O2	ethyl palmitate	628-97-7	296.35	15.093	1	31714	C19H38O2	hexadecyl propanoate	6221-96-1	345.72	49.335	2
31104	C18H36O2	methyl heptadecanoate	1731-92-6	303.15	14.930	2	31715	C19H38O2	pentadecyl butanoate	125164-51-4	345.72	49.335	2
31105	C18H36O2	n-butyl myristate	110-36-1	279.95	14.930	2	31716	C19H38O2	ethyl heptadecanoate	14010-23-2	301.15	18.438	2
31115	C18H37Br	1-bromooctadecane	112-89-0	301.35	47.661	2	31717	C19H38O2	isopropyl palmitate	142-91-6	286.65	18.438	2
31116	C18H37Cl	1-chlorooctadecane	3386-33-2	301.75	46.573	2	31718	C19H38O2	propyl palmitate	2239-78-3	293.55	18.438	2
31118	C18H37F	1-fluorooctadecane	1649-73-6	302.15	45.456	2	31719	C19H38O2	methyl stearate	112-61-8	310.93	19.234	1
31119	C18H37I	1-iodooctadecane	629-93-6	307.15	46.782	2	31727	C19H39Br	1-bromononadecane	4434-66-6	311.65	50.251	2
31124	C18H37NO2	1-nitrooctadecane	66292-30-6	435.73	48.363	2	31728	C19H39Cl	1-chlorononadecane	62016-76-6	308.85	49.163	2
31131	C18H38	octadecane	593-45-3	301.50	61.500	1	31729	C19H39F	1-fluorononadecane	1480-63-3	312.15	48.046	2
31132	C18H38	9-methylheptadecane	18869-72-2	277.73	40.594	2	31730	C19H39I	1-iodononadecane	62127-51-9	315.15	49.372	2
31133	C18H38	2-methylheptadecane	1560-89-0	279.15	38.853	2	31732	C19H39NO2	1-nitrononadecane	66359-36-2	447.00	50.694	2
31134	C18H38	3-methylheptadecane	6418-44-6	266.95	38.853	2	31733	C19H40	7-hexyltridecane	7225-66-3	244.85	39.547	2
31135	C18H38	2,2-dimethylhexadecane	19486-08-9	294.54	34.962	2	31734	C19H40	2,6,10,14-tetramethylpentadecane	1921-70-6	280.65	39.547	2
31136	C18H38	2,3-dimethylhexadecane	61868-02-8	262.12	35.330	2	31735	C19H40	nonadecane	629-92-5	305.33	45.800	1
31137	C18H38	2,4-dimethylhexadecane	61868-08-4	262.12	35.330	2	31736	C19H40	2-methyloctadecane	1560-88-9	288.15	41.443	2
31140	C18H38O	1-octadecanol	112-92-5	331.05	45.000	1	31737	C19H40	3-methyloctadecane	6561-44-0	273.65	41.443	2
31141	C18H38O	2-octadecanol	593-32-8	325.15	42.941	2	31738	C19H40	2,2-dimethylheptadecane	53594-82-4	305.81	37.552	2
31142	C18H38O	3-octadecanol, (±)	111897-18-8	324.15	43.788	2	31739	C19H40	2,3-dimethylheptadecane	61868-03-9	273.39	37.920	2
31143	C18H38O	dinonyl ether	2456-27-1	314.35	43.564	2	31740	C19H40	2,4-dimethylheptadecane	61868-09-5	273.39	37.920	2
31149	C18H38S	1-octadecanethiol	2885-00-9	300.93	55.702	2	31742	C19H40O	1-nonadecanol	1454-84-8	334.87	49.054	2
31150	C18H38S	2-octadecanethiol	62155-06-0	299.15	51.474	2	31743	C19H40O	2-nonadecanol	26533-36-8	325.15	45.531	2
31151	C18H38S	2-thianonadecane	62155-11-7	298.15	46.506	2	31750	C19H40S	1-nonadecanethiol	62155-07-1	307.04	58.810	2
31152	C18H38S	dinonyl sulfide	929-98-6	298.16	46.506	2	31751	C19H40S	2-nonadecanethiol	---	304.15	54.582	2
31153	C18H38S	methyl heptadecyl sulfide	---	298.16	46.506	2	31752	C19H40S	methyl octadecyl sulfide	40289-98-3	303.16	49.096	2
31154	C18H38S	ethyl hexadecyl sulfide	66292-31-7	298.16	46.506	2	31753	C19H40S	ethyl heptadecyl sulfide	66359-40-8	303.16	49.096	2
31155	C18H38S	propyl pentadecyl sulfide	66292-32-8	298.16	46.506	2	31754	C19H40S	propyl hexadecyl sulfide	66359-41-9	303.16	49.096	2
31156	C18H38S	butyl tetradecyl sulfide	66292-33-9	298.16	46.506	2	31755	C19H40S	butyl pentadecyl sulfide	66359-42-0	303.16	49.096	2
31157	C18H38S2	dinonyl disulfide	4485-77-2	252.16	40.509	2	31756	C19H41N	nonadecylamine	14130-05-3	325.15	60.196	2
31162	C18H39N	octadecylamine	124-30-1	326.23	57.088	2	31757	C19H41N	methyloctadecylamine	2439-55-6	315.15	49.975	2
31163	C18H39N	methylheptadecylamine	66292-34-0	298.15	47.385	2	31758	C19H41N	ethylheptadecylamine	66359-43-1	315.15	49.975	2
31164	C18H39N	ethylhexadecylamine	5877-76-9	298.15	47.385	2	31759	C19H41N	dimethylheptadecylamine	3002-57-1	290.00	47.987	2
31165	C18H39N	dinonylamine	2044-21-5	298.15	47.385	2	31760	C19H41N	diethylpentadecylamine	36555-73-4	290.00	47.987	2
31166	C18H39N	dimethylhexadecylamine	112-69-6	285.15	45.397	2	31800	C20H12	perylene	198-55-0	551.29	32.580	1
31167	C18H39N	diethyltetradecylamine	7307-58-6	285.15	45.397	2	31931	C20H14O4	phenolphthalein	77-09-8	534.00	51.045	1
31168	C18H39N	trihexylamine	102-86-3	285.15	45.397	2	32214	C20H24	1,1-diphenyl-1-octene	1530-21-8	250.81	34.530	2
31297	C19H15Cl	chlorotriphenylmethane	76-83-5	376.80	27.900	1	32259	C20H26	1,1-diphenyloctane	1530-06-9	269.15	32.115	2
31328	C19H16	triphenylmethane	519-73-3	365.60	20.920	1	32260	C20H26	2,5-dimethyl-2,5-diphenylhexane	17648-05-4	334.95	36.041	2
31477	C19H22	1,1-diphenyl-1-heptene	1530-20-7	255.91	31.940	2	32262	C20H26	3,4-dimethyl-3,4-diphenylhexane	10192-93-5	302.05	36.041	2
31515	C19H23NO	N-p-ethoxybenzylidene-p'-butylaniline	29743-08-6	305.62	27.090	1	32302	C20H28	1-decylnaphthalene	26438-27-7	288.15	38.227	2
31535	C19H24	1,1-diphenylheptane	1530-05-8	286.15	29.525	2	32303	C20H28	2-decylnaphthalene	14188-79-5	296.15	38.227	2
31568	C19H26	1-nonylnaphthalene	26438-26-6	284.15	35.637	2	32358.1	C20H30O2	isopimaric acid	5835-26-7	435.65	30.200	2
31569	C19H26	2-nonylnaphthalene	61886-67-7	284.15	35.637	2	32376	C20H32	1-decyl-[1,2,3,4-tetrahydronaphthalene]	55255-57-7	333.73	37.243	2
31621	C19H30	1-nonyl-[1,2,3,4-tetrahydronaphthalene]	33425-49-9	322.46	34.653	2	32377	C20H32	2-decyl-[1,2,3,4-tetrahydronaphthalene]	66455-67-2	333.73	37.243	2
31622	C19H30	2-nonyl-[1,2,3,4-tetrahydronaphthalene]	26437-45-6	322.46	34.653	2	32391.1	C20H32O2	isoagatholal	17990-11-3	325.00	70.600	2
31646	C19H32	tridecylbenzene	123-02-4	283.15	43.932	1	32399	C20H34	1-phenyltetradecane	1459-10-5	289.16	41.597	2
31647	C19H32	(1-hexylheptyl)benzene	2400-01-3	244.95	40.969	2	32407.1	C20H34O2	agathadiol	1857-24-5	379.55	37.900	2
31670	C19H36	1-nonadecyne	26186-01-6	306.16	47.940	2	32436	C20H38	1-eicosyne	765-27-5	309.16	34.300	1
31671	C19H36	2-nonadecyne	61847-98-1	409.49	48.086	2	32437	C20H38	2-eicosyne	61847-99-2	420.76	50.676	2
31672	C19H36	3-nonadecyne	61886-65-5	409.49	48.086	2	32438	C20H38	3-eicosyne	61886-66-6	420.76	50.676	2
31674	C19H36	1-tetradecylcyclopentene	62184-79-6	279.48	40.123	2	32440	C20H38	1-pentadecylcyclopentene	62184-80-9	290.75	42.713	2
31678	C19H37Br	cis-1-bromo-1-nonadecene	66359-51-1	358.11	50.453	2	32457	C20H39Br	cis-1-bromo-1-eicosene	66455-60-5	369.38	53.043	2
31679	C19H37Br	trans-1-bromo-1-nonadecene	66359-52-2	358.11	50.453	2	32458	C20H39Br	trans-1-bromo-1-eicosene	66455-61-6	369.38	53.043	2
31680	C19H37Br3	1,1,1-tribromononadecane	62127-75-7	485.21	53.407	2	32459	C20H39Br3	1,1,1-tribromoeicosane	62127-76-8	496.48	55.997	2
31681	C19H37Cl	cis-1-chloro-1-nonadecene	66359-53-3	328.23	49.365	2	32460	C20H39Cl	cis-1-chloro-1-eicosene	66455-62-7	339.50	51.955	2
31682	C19H37Cl	trans-1-chloro-1-nonadecene	66359-54-4	328.23	49.365	2	32461	C20H39Cl	trans-1-chloro-1-eicosene	66455-41-2	339.50	51.955	2
31683	C19H37Cl3	1,1,1-trichlorononadecane	62108-63-8	395.57	50.143	2	32462	C20H39Cl3	1,1,1-trichloroeicosane	62108-64-9	406.84	52.733	2
31684	C19H37F	cis-1-fluoro-1-nonadecene	66359-55-5	330.46	48.248	2	32463	C20H39F	cis-1-fluoro-1-eicosene	66455-42-3	341.73	50.838	2
31685	C19H37F	trans-1-fluoro-1-nonadecene	66359-56-6	330.46	48.248	2	32464	C20H39F	trans-1-fluoro-1-eicosene	66455-43-4	341.73	50.838	2
31686	C19H37F3	1,1,1-trifluorononadecane	62126-85-6	402.26	46.792	2	32465	C20H39F3	1,1,1-trifluoroeicosane	62126-86-7	413.53	49.382	2
31687	C19H37I	cis-1-iodo-1-nonadecene	66359-57-7	356.37	49.574	2	32466	C20H39I	cis-1-iodo-1-eicosene	66455-45-6	367.64	52.164	2
31688	C19H37I	trans-1-iodo-1-nonadecene	66359-58-8	356.37	49.574	2	32467	C20H39I	trans-1-iodo-1-eicosene	66455-44-5	367.64	52.164	2
31689	C19H37I3	1,1,1-triiodononadecane	---	479.99	50.770	2	32468	C20H39I3	1,1,1-triiodoeicosane	---	491.26	53.360	2
31690	C19H37N	nonadecanenitrile	28623-46-3	315.85	46.472	2	32469	C20H39N	eicosanenitrile	4616-73-3	323.75	49.062	2
31695	C19H38	tetradecylcyclopentane	1795-22-8	282.00	38.901	2	32473	C20H40	pentadecylcyclopentane	4669-01-6	290.00	41.491	2
31696	C19H38	tridecylcyclohexane	6006-33-3	291.66	51.045	1	32474	C20H40	tetradecylcyclohexane	1795-18-2	297.16	55.229	1
31698	C19H38	1-nonadecene	18435-45-5	296.55	33.500	1	32476	C20H40	1-eicosene	3452-07-1	301.76	34.300	1
31699	C19H38	2-methyl-1-octadecene	61868-20-0	287.15	42.376	2	32476.1	C20H40	trans-2-eicosene	42448-85-1	285.00	56.100	2
31700	C19H38Br2	1,1-dibromononadecane	62168-36-9	407.99	33.500	1	32477	C20H40	2-methyl-1-nonadecene	52254-50-9	292.65	44.966	2
31701	C19H38Cl2	1,1-dichlorononadecane	62017-21-4	348.23	49.837	2	32479	C20H40Br2	1,1-dibromoeicosane	62168-37-0	419.26	54.603	2
31702	C19H38F2	1,1-difluorononadecane	62127-08-6	352.69	47.603	2	32480	C20H40Cl2	1,1-dichloroeicosane	62017-22-5	359.50	52.427	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
32481	C20H40F2	1,1-difluoroeicosane	62127-09-7	363.96	50.193	2	33361	C22H32	1-dodecylnaphthalene	26438-28-8	301.15	43.407	2
32482	C20H40I2	1,1-diiodoeicosane	66455-47-8	415.78	52.845	2	33362	C22H32	2-dodecylnaphthalene	60899-39-0	305.15	43.407	2
32486	C20H40O	eicosanal	2400-66-0	324.15	69.783	2	33401	C22H38	1-phenylhexadecane	1459-09-2	300.16	46.777	2
32487	C20H40O	2-eicosanone	29703-52-4	332.15	63.902	2	33426	C22H42	1-docosyne	61847-82-3	318.15	55.710	2
32491	C20H40O2	eicosanoic acid	506-30-9	348.45	69.200	1	33454	C22H44	heptadecylcyclopentane	62016-52-8	300.15	46.671	2
32492	C20H40O2	3,7,11,15-tetramethylhexadecanoic acid	14721-66-5	208.15	55.269	2	33455	C22H44	hexadecylcyclohexane	6812-38-0	306.76	63.597	1
32493	C20H40O2	nonadecyl formate	66455-49-0	373.36	53.607	2	33456	C22H44	1-docosene	1599-67-3	310.95	51.456	2
32494	C20H40O2	octadecyl acetate	822-23-1	305.99	51.925	2	33457	C22H44Br2	1,1-dibromodocosane	62168-39-2	441.80	59.783	2
32495	C20H40O2	heptadecyl propanoate	---	356.99	51.925	2	33458	C22H44Cl2	1,1-dichlorodocosane	62017-24-7	382.04	57.607	2
32496	C20H40O2	hexadecyl butanoate	6221-99-4	356.99	51.925	2	33459	C22H44F2	1,1-difluorodocosane	62127-11-1	386.50	55.373	2
32497	C20H40O2	decyl decanoate	1654-86-0	282.85	22.834	2	33460	C22H44I2	1,1-diiododocosane	66326-05-4	438.32	58.025	2
32498	C20H40O2	butyl palmitate	111-06-8	290.05	24.087	2	33463	C22H44O2	eicosyl acetate	822-24-2	313.15	57.105	2
32499	C20H40O2	ethyl stearate	111-61-5	306.15	24.087	2	33464	C22H44O2	nonadecyl propanoate	66326-06-5	379.53	57.105	2
32500	C20H40O2	methyl nonadecanoate	1731-94-8	314.45	24.087	2	33465	C22H44O2	octadecyl butanoate	13373-83-6	379.53	57.105	2
32505	C20H41Br	1-bromoeicosane	4276-49-7	310.05	52.841	2	33466	C22H44O2	butyl stearate	123-95-5	299.45	56.902	2
32506	C20H41Cl	1-chloroeicosane	42217-02-7	310.75	51.753	2	33467	C22H44O2	isobutyl stearate	646-13-9	302.05	59.230	2
32507	C20H41F	1-fluoroeicosane	676-44-8	311.15	50.636	2	33469	C22H44O2	ethyl eicosanoate	18281-05-5	323.15	59.230	2
32508	C20H41I	1-iodoeicosane	34994-81-5	315.05	51.962	2	33470	C22H44O2	methyl heneicosanoate	6064-90-0	322.15	59.230	2
32511	C20H41NO2	1-nitroeicosane	66455-50-3	458.27	53.025	2	33473	C22H45Br	1-bromodocosane	6938-66-5	317.45	58.021	2
32515	C20H42	eicosane	112-95-8	308.80	67.800	1	33474	C22H45Cl	1-chlorodocosane	42217-03-8	318.15	56.933	2
32516	C20H42	2-methylnonadecane	1560-86-7	291.45	44.033	2	33475	C22H45F	1-fluorodocosane	62126-79-8	319.15	55.816	2
32517	C20H42	3-methylnonadecane	6418-45-7	281.15	44.033	2	33476	C22H45I	1-iododocosane	62127-53-1	321.95	57.142	2
32518	C20H42	2,2-dimethyloctadecane	61869-06-5	317.08	40.142	2	33477	C22H46	docosane	629-97-0	317.55	47.840	1
32519	C20H42	2,3-dimethyloctadecane	61868-04-0	284.66	40.510	2	33483	C22H47N	docosylamine	14130-06-4	336.15	69.520	2
32520	C20H42	2,4-dimethyloctadecane	61868-10-8	284.66	40.510	2	33484	C22H47N	methylheneicosylamine	66326-08-7	321.15	57.745	2
32522	C20H42O	1-eicosanol	629-96-9	338.55	42.000	1	33485	C22H47N	ethyleicosylamine	66326-07-6	318.15	57.750	2
32523	C20H42O	2-eicosanol	4340-76-5	333.15	48.121	2	33486	C22H47N	diundecylamine	16165-33-6	315.15	57.745	2
32524	C20H42O	didecyl ether	2456-28-2	257.15	48.744	2	33487	C22H47N	dimethyleicosylamine	45275-74-9	306.15	55.757	2
32525	C20H42O	2-octyl-1-dodecanol	5333-42-6	273.20	42.284	2	33488	C22H47N	diethyloctadecylamine	30427-51-1	306.15	55.757	2
32537	C20H42S	1-eicosanethiol	13373-97-2	310.37	61.918	2	33607	C23H30	1,1-diphenyl-1-undecene	1530-28-5	235.51	42.300	2
32538	C20H42S	2-eicosanethiol	62155-08-2	308.15	57.690	2	33633	C23H32	1,1-diphenylundecane	1530-08-1	294.15	39.885	2
32539	C20H42S	didecyl sulfide	693-83-4	308.16	51.686	2	33674	C23H40	heptadecylbenzene	14752-75-1	305.15	49.367	2
32540	C20H42S	methyl nonadecyl sulfide	62155-12-8	308.16	51.686	2	33678	C23H44	1-tricosyne	61847-83-4	322.15	58.300	2
32541	C20H42S	ethyl octadecyl sulfide	41947-84-6	308.16	51.686	2	33684	C23H46	octadecylcyclopentane	62016-53-9	303.15	49.261	2
32542	C20H42S	propyl heptadecyl sulfide	66455-35-4	308.16	51.686	2	33685	C23H46	heptadecylcyclohexane	19781-73-8	310.95	56.593	2
32543	C20H42S	butyl hexadecyl sulfide	18437-89-3	308.16	51.686	2	33686	C23H46	1-tricosene	18835-32-0	314.75	54.046	2
32544	C20H42S2	didecyl disulfide	10496-18-1	259.16	44.653	2	33687	C23H46	cis-9-tricosene	27519-02-4	273.15	50.474	2
32546	C20H43N	eicosylamine	10525-37-8	332.15	63.304	2	33688	C23H46Br2	1,1-dibromotricosane	62168-40-5	453.07	62.373	2
32547	C20H43N	methylnonadecylamine	66455-36-5	311.15	51.270	2	33689	C23H46Cl2	1,1-dichlorotricosane	62017-25-8	393.31	60.197	2
32548	C20H43N	ethyloctadecylamine	7317-85-3	309.15	51.924	2	33690	C23H46F2	1,1-difluorotricosane	62127-12-2	397.77	57.963	2
32549	C20H43N	didecylamine	1120-49-6	307.15	52.565	2	33691	C23H46I2	1,1-diiodotricosane	66325-82-4	449.59	60.615	2
32550	C20H43N	dimethyloctadecylamine	124-28-7	296.04	50.577	2	33695	C23H46O2	eicosyl propanoate	65591-14-2	390.80	59.695	2
32551	C20H43N	diethylhexadecylamine	30951-88-3	280.15	50.577	2	33696	C23H46O2	nonadecyl butanoate	84869-42-1	390.80	59.695	2
32860	C21H26	1,1-diphenyl-1-nonene	1530-26-3	245.71	37.120	2	33702	C23H47Br	1-bromotricosane	62108-44-5	325.85	60.611	2
32914	C21H28	1,1-diphenylnonane	1726-13-2	288.15	34.705	2	33703	C23H47Cl	1-chlorotricosane	62016-77-7	324.15	59.523	2
32944	C21H30	1-undecylnaphthalene	7225-71-0	296.15	40.817	2	33704	C23H47F	1-fluorotricosane	62126-80-1	327.15	58.406	2
32945	C21H30	2-undecylnaphthalene	61886-68-8	293.15	40.817	2	33705	C23H47I	1-iodotricosane	62127-54-2	328.35	59.732	2
32998	C21H36	pentadecylbenzene	2131-18-2	295.16	51.469	1	33706	C23H48	tricosane	638-67-5	324.05	53.970	1
33022	C21H40	1-hexadecylcyclopentene	62184-81-0	302.02	45.303	2	33707	C23H48	9-hexylheptadecane	55124-79-3	253.75	48.116	2
33023	C21H40	1-heneicosyne	61847-81-2	314.15	53.120	2	33710	C23H49N	tricosylamine	14130-07-5	337.15	72.628	2
33032	C21H41N	heneicosanenitrile	66326-13-4	324.15	51.652	2	33711	C23H49N	methyldocosylamine	66375-05-1	324.15	60.335	2
33036	C21H42	hexadecylcyclopentane	6812-39-1	294.16	44.081	2	33712	C23H49N	ethylheneicosylamine	66375-04-0	324.15	60.335	2
33037	C21H42	pentadecylcyclohexane	6006-95-7	302.16	59.413	1	33713	C23H49N	dimethylheneicosylamine	66375-03-9	311.00	58.347	2
33038	C21H42	1-heneicosene	1599-68-4	306.45	48.866	2	33714	C23H49N	diethylnonadecylamine	66375-02-8	311.00	58.347	2
33039	C21H42Br2	1,1-dibromoheneicosane	62168-38-1	430.53	57.193	2	33887	C24H32	1,1-diphenyl-1-dodecene	1530-29-6	230.41	44.890	2
33040	C21H42Cl2	1,1-dichloroheneicosane	62017-23-6	370.77	55.017	2	33906	C24H34	1,1-diphenyldodecane	1603-53-8	283.15	42.475	2
33041	C21H42F2	1,1-difluoroheneicosane	62127-10-0	375.23	52.783	2	33931.1	C24H38O4	heptyl nonyl phthalate	19295-81-9	240.00	46.400	2
33042	C21H42I2	1,1-diiodoheneicosane	66326-14-5	427.05	55.435	2	33959	C24H42	octadecylbenzene	4445-07-2	309.15	51.957	2
33043	C21H42O2	eicosyl formate	66326-15-6	384.63	56.197	2	33967	C24H46	1,1-dicyclohexyldodecane	18254-57-4	300.58	44.267	1
33044	C21H42O2	nonadecyl acetate	53939-51-8	310.75	54.515	2	33968	C24H46	1-tetracosyne	61847-84-5	325.15	60.890	2
33045	C21H42O2	octadecyl propanoate	52663-48-6	303.95	54.515	2	33983	C24H48	nonadecylcyclopentane	62016-54-0	308.15	51.851	2
33046	C21H42O2	heptadecyl butanoate	84869-41-0	368.26	54.515	2	33984	C24H48	octadecylcyclohexane	4445-06-1	313.65	59.701	2
33047	C21H42O2	isopropyl stearate	112-10-7	301.15	25.496	2	33985	C24H48	1-tetracosene	10192-32-2	318.45	56.636	2
33048	C21H42O2	propyl stearate	3634-92-2	302.05	25.496	2	33986	C24H48Br2	1,1-dibromotetracosane	62168-03-0	464.34	64.963	2
33049	C21H42O2	methyl eicosanoate	1120-28-1	318.56	26.434	1	33987	C24H48Cl2	1,1-dichlorotetracosane	62017-26-9	404.58	62.787	2
33051	C21H42O2	isopropyl isostearate	68171-33-5	307.25	25.496	2	33988	C24H48F2	1,1-difluorotetracosane	62127-13-3	409.04	60.553	2
33055	C21H43Br	1-bromoheneicosane	4276-50-0	319.25	55.431	2	33989	C24H48I2	1,1-diiodotetracosane	66374-96-7	460.86	63.205	2
33056	C21H43Cl	1-chloroheneicosane	66326-16-7	317.15	54.343	2	33990	C24H48O2	eicosyl butanoate	41927-66-6	402.07	62.285	2
33057	C21H43F	1-fluoroheneicosane	62126-78-7	320.15	53.226	2	33998	C24H49Br	1-bromotetracosane	6946-24-3	323.85	63.201	2
33058	C21H43I	1-iodoheneicosane	62127-52-0	322.25	54.552	2	33999	C24H49Cl	1-chlorotetracosane	6422-18-0	325.15	62.113	2
33059	C21H44	heneicosane	629-94-7	313.65	47.700	1	34000	C24H49F	1-fluorotetracosane	62126-81-2	326.15	60.996	2
33065	C21H45N	heneicosylamine	14130-15-5	331.15	66.412	2	34001	C24H49I	1-iodotetracosane	62127-55-3	327.85	62.322	2
33066	C21H45N	methyleicosylamine	66326-20-3	319.15	55.155	2	34002	C24H50	tetracosane	646-31-1	324.05	54.890	1
33067	C21H45N	ethylnonadecylamine	66326-79-0	319.15	55.155	2	34003	C24H50	2-methyltricosane	1928-30-9	310.75	53.764	2
33068	C21H45N	isopropyloctadecylamine	13329-71-0	319.15	55.155	2	34012	C24H51N	tetracosylamine	14130-08-6	340.15	75.736	2
33069	C21H45N	dimethylnonadecylamine	49859-87-2	300.00	53.167	2	34013	C24H51N	methyltricosylamine	66374-99-0	326.15	62.925	2
33070	C21H45N	diethylheptadecylamine	66326-18-9	300.00	53.167	2	34014	C24H51N	ethyldocosylamine	66374-98-9	325.15	62.926	2
33071	C21H45N	triheptylamine	2411-36-1	300.00	53.167	2	34015	C24H51N	didodecylamine	3007-31-6	324.15	62.925	2
33313	C22H28	1,1-diphenyl-1-decene	1530-27-4	240.61	39.710	2	34016	C24H51N	dimethyldocosylamine	21542-96-1	317.15	60.937	2
33343	C22H30	1,1-diphenyldecane	1530-07-0	276.15	37.295	2	34017	C24H51N	diethyleicosylamine	66374-97-8	277.85	62.181	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
34018	C24H51N	trioctylamine	1116-76-3	238.55	60.937	2	34561	C27H55F	1-fluoroheptacosane	62108-81-0	338.15	68.766	2
34019	C24H51N	triisooctylamine	2757-28-0	277.85	62.181	2	34562	C27H55I	1-iodoheptacosane	62127-57-5	338.45	70.092	2
34140	C25H34	1,1-diphenyl-1-tridecene	62155-37-7	225.31	47.480	2	34563	C27H56	heptacosane	593-49-7	332.15	60.417	1
34150	C25H36	1,1-diphenyltridecane	62155-14-0	300.15	45.065	2	34566	C27H57N	heptacosylamine	14130-11-1	345.15	85.060	2
34171	C25H44	nonadecylbenzene	29136-19-4	313.15	54.547	2	34567	C27H57N	methylhexacosylamine	66291-81-4	331.15	70.695	2
34172	C25H44	(3-octylundecyl)benzene	5637-96-7	246.45	46.029	2	34568	C27H57N	ethylpentacosylamine	66291-80-3	331.15	70.695	2
34173	C25H44	9-(4-tolyl)octadecane	4445-08-3	233.15	46.029	2	34569	C27H57N	dimethylpentacosylamine	66291-79-0	325.00	68.707	2
34179	C25H48	1-pentacosyne	61847-85-6	328.15	63.480	2	34570	C27H57N	diethyltricosylamine	66291-86-9	325.00	68.707	2
34182	C25H50	eicosylcyclopentane	22331-38-0	311.15	54.441	2	34571	C27H57N	trinonylamine	2044-22-6	325.00	68.707	2
34183	C25H50	nonadecylcyclohexane	22349-03-7	318.35	62.809	2	34663	C28H40	1,1-diphenyl-1-hexadecene	13456-25-2	210.01	55.250	2
34184	C26H52	heneicosylcyclopentane	6703-82-8	315.15	57.031	2	34677	C28H42	1,1-diphenylhexadecane	13456-23-0	299.15	52.835	2
34185	C25H50	1-pentacosene	16980-85-1	321.85	59.226	2	34704	C28H50	docosylbenzene	5634-22-0	324.15	62.317	2
34186	C25H50	9-octyl-8-heptadecene	24306-18-1	233.15	51.065	2	34713	C28H54	1-octacosyne	61847-88-9	335.15	71.250	2
34187	C25H50Br2	1,1-dibromopentacosane	62168-04-1	475.61	67.553	2	34716	C28H56	tricosylcyclopentane	62016-56-2	322.15	62.211	2
34188	C25H50Cl2	1,1-dichloropentacosane	62017-27-0	415.85	65.377	2	34717	C28H56	docosylcyclohexane	61828-07-7	327.55	72.133	2
34189	C25H50F2	1,1-difluoropentacosane	62127-14-4	420.31	63.143	2	34718	C28H56	1-octacosene	18835-34-2	330.65	66.996	2
34190	C25H50I2	1,1-diiodopentacosane	66359-84-0	472.13	65.795	2	34719	C28H56Br2	1,1-dibromooctacosane	62168-07-4	509.42	75.323	2
34193	C25H51Br	1-bromopentacosane	62108-45-6	331.45	65.791	2	34720	C28H56Cl2	1,1-dichlorooctacosane	62017-30-5	449.66	73.147	2
34194	C25H51Cl	1-chloropentacosane	62016-78-8	330.15	64.703	2	34721	C28H56F2	1,1-difluorooctacosane	62127-17-7	454.12	70.913	2
34195	C25H51F	1-fluoropentacosane	62126-82-3	333.15	63.586	2	34722	C28H56I2	1,1-diiodooctacosane	66291-74-5	505.94	73.565	2
34196	C25H51I	1-iodopentacosane	62127-56-4	333.75	64.912	2	34728	C28H57Br	1-bromooctacosane	16331-21-8	334.55	73.561	2
34197	C25H52	pentacosane	629-99-2	326.85	57.740	1	34729	C28H57Cl	1-chlorooctacosane	62016-80-2	336.15	72.473	2
34198	C25H52	9-octylheptadecane	7225-64-1	259.35	51.778	2	34730	C28H57F	1-fluorooctacosane	62108-82-1	337.15	71.356	2
34199	C25H53N	pentacosylamine	14130-09-7	341.15	78.844	2	34731	C28H57I	1-iodooctacosane	62154-80-7	337.75	72.682	2
34200	C25H53N	methyltetracosylamine	66359-78-2	327.15	65.515	2	34732	C28H58	octacosane	630-02-4	337.65	64.640	1
34201	C25H53N	ethyltricosylamine	66359-77-1	327.15	65.515	2	34733	C28H58	2,2,4,10,12,12-hexamethyl-7-(3,5,5-trimethyl*	3035-75-4	301.25	57.672	2
34202	C25H53N	dimethyltricosylamine	66359-76-0	320.00	63.527	2	34734	C28H58	7-hexyldocosane	55373-86-9	292.45	57.672	2
34203	C25H53N	diethylheneicosylamine	66359-75-9	320.00	63.527	2	34735	C28H58	9-octyleicosane	13475-77-9	273.65	57.672	2
34296	C26H36	1,1-diphenyl-1-tetradecene	62155-38-8	220.21	50.070	2	34738	C28H59N	octacosylamine	14130-12-2	348.15	88.168	2
34302	C26H38	1,1-diphenyltetradecane	55268-63-8	291.15	47.655	2	34739	C28H59N	methylheptacosylamine	66291-78-9	332.15	73.285	2
34319.1	C26H42O4	heptyl undecyl phthalate	65185-88-8	240.00	50.900	2	34740	C28H59N	ethylhexacosylamine	66291-77-8	332.96	73.285	2
34326	C26H46	eicosylbenzene	2398-68-7	317.15	57.137	2	34741	C28H59N	ditetradecylamine	17361-44-3	333.77	73.285	2
34327	C26H46	(1-butylhexadecyl)benzene	2400-04-6	303.35	54.669	2	34742	C28H59N	dimethylhexacosylamine	66291-76-7	328.15	71.297	2
34328	C26H46	(1-ethyloctadecyl)benzene	2400-02-4	302.45	54.669	2	34743	C28H59N	diethyltetracosylamine	66291-75-6	328.15	71.297	2
34329	C26H46	(1-methylnonadecyl)benzene	2398-66-5	302.15	54.669	2	34812	C29H52	tricosylbenzene	61828-04-4	327.15	64.907	2
34330	C26H46	(1-octyldodecyl)benzene	2398-65-4	291.05	54.669	2	34814	C29H56	1-nonacosyne	61847-89-0	338.15	73.840	2
34331	C26H46	(1-propylheptadecyl)benzene	2400-03-5	304.55	54.669	2	34815	C29H58	tetracosylcyclopentane	62016-57-3	324.15	64.801	2
34339	C26H50	1-hexacosyne	61847-86-7	330.15	66.070	2	34816	C29H58	tricosylcyclohexane	61828-08-8	330.15	75.241	2
34348	C26H52	eicosylcyclohexane	4443-55-4	321.65	65.917	2	34817	C29H58	1-nonacosene	18835-35-3	323.15	69.586	2
34349	C26H52	1-hexacosene	18835-33-1	324.95	61.816	2	34818	C29H58Br2	1,1-dibromononacosane	62168-08-5	520.69	77.913	2
34350	C26H52	3-cyclohexyleicosane	4443-57-6	295.88	63.634	2	34819	C29H58Cl2	1,1-dichlorononacosane	62017-31-6	460.93	75.737	2
34351	C26H52	9-cyclohexyleicosane	4443-61-2	314.00	63.634	2	34820	C29H58F2	1,1-difluorononacosane	62127-18-8	465.39	73.503	2
34352	C26H52Br2	1,1-dibromohexacosane	62168-05-2	486.88	70.143	2	34821	C29H58I2	1,1-diiodononacosane	66213-91-0	517.21	76.155	2
34353	C26H52Cl2	1,1-dichlorohexacosane	62017-28-1	427.12	67.967	2	34823	C29H59Br	1-bromononacosane	62108-47-8	340.95	76.151	2
34354	C26H52F2	1,1-difluorohexacosane	62127-15-5	431.58	65.733	2	34824	C29H59Cl	1-chlorononacosane	62016-81-3	340.15	75.063	2
34355	C26H52I2	1,1-diiodohexacosane	66291-94-9	483.40	68.385	2	34825	C29H59F	1-fluorononacosane	62108-83-2	343.15	73.946	2
34360	C26H53Br	1-bromohexacosane	4276-51-1	329.55	68.381	2	34826	C29H59I	1-iodononacosane	62154-81-8	342.65	75.272	2
34361	C26H53Cl	1-chlorohexacosane	56134-53-3	331.15	67.293	2	34827	C29H60	nonacosane	630-03-5	336.85	66.110	1
34362	C26H53F	1-fluorohexacosane	62126-83-4	332.15	66.176	2	34829	C29H61N	nonacosylamine	66213-93-2	349.15	91.276	2
34363	C26H53I	1-iodohexacosane	52644-81-2	333.05	67.502	2	34830	C29H61N	methyloctacosylamine	66213-97-6	334.15	75.875	2
34364	C26H54	hexacosane	630-01-3	329.55	59.500	1	34831	C29H61N	ethylheptacosylamine	66213-96-5	334.15	75.875	2
34365	C26H54	5-butyldocosane	55282-16-1	481.15	54.025	2	34832	C29H61N	dimethylheptacosylamine	66213-95-4	330.00	73.887	2
34366	C26H54	7-butyldocosane	55282-15-0	274.75	54.025	2	34833	C29H61N	diethylpentacosylamine	66213-94-3	330.00	73.887	2
34367	C26H54	9-butyldocosane	55282-14-9	273.85	54.025	2	34848	C30H22	p-quinquephenyl	3073-05-0	659.60	42.300	1
34368	C26H54	11-butyldocosane	13475-76-8	299.23	54.025	2	34922.1	C30H48O6	tri-n-heptyl trimellitate	1528-48-9	339.00	82.000	2
34369	C26H54	11-(2,2-dimethylpropyl)heneicosane	55282-10-5	252.15	54.025	2	34936	C30H54	tetracosylbenzene	61828-05-5	330.15	67.497	2
34370	C26H54	6,11-dipentylhexadecane	15874-03-0	256.95	54.025	2	34940	C30H58	1-triacontyne	61847-90-3	340.15	76.430	2
34371	C26H54	3-ethyl-5-(2-ethylbutyl)octadecane	55282-12-7	222.15	54.025	2	34946	C30H60	pentacosylcyclopentane	62016-74-4	327.15	67.391	2
34372	C26H54	3-ethyltetracosane	55282-17-2	303.25	54.025	2	34947	C30H60	tetracosylcyclohexane	61828-09-9	332.65	78.349	2
34377	C26H55N	hexacosylamine	14130-10-0	344.15	81.952	2	34948	C30H60	1-triacontene	18435-53-5	325.55	72.176	2
34378	C26H55N	methylpentacosylamine	66291-92-7	329.15	68.105	2	34949	C30H60Br2	1,1-dibromotriacontane	62168-09-6	531.96	80.503	2
34379	C26H55N	ethyltetracosylamine	66291-91-6	329.15	68.105	2	34950	C30H60Cl2	1,1-dichlorotriacontane	62017-32-7	472.20	78.327	2
34380	C26H55N	ditridecylamine	5910-75-8	329.65	68.105	2	34951	C30H60F2	1,1-difluorotriacontane	62127-19-9	476.66	76.093	2
34381	C26H55N	dimethyltetracosylamine	66291-90-5	322.15	66.117	2	34952	C30H60I2	1,1-diiodotriacontane	66213-98-7	528.48	78.745	2
34382	C26H55N	diethyldocosylamine	66291-89-2	325.90	67.108	2	34957	C30H61Br	1-bromotriacontane	4209-22-7	338.95	78.741	2
34464	C27H38	1,1-diphenyl-1-pentadecene	62155-39-9	215.11	52.660	2	34958	C30H61Cl	1-chlorotriacontane	62016-82-4	340.15	77.653	2
34475	C27H40	1,1-diphenylpentadecane	62155-15-1	306.15	50.245	2	34959	C30H61F	1-fluorotriacontane	62108-84-3	342.15	76.536	2
34536	C27H48	heneicosylbenzene	40775-09-5	321.15	59.727	2	34960	C30H61I	1-iodotriacontane	62154-82-9	281.85	77.862	2
34537	C27H48	11-phenylheneicosane	6703-80-6	294.30	64.772	1	34961	C30H62	triacontane	638-68-6	338.95	68.830	1
34548	C27H52	1-heptacosyne	61847-87-8	333.15	68.660	2	34962	C30H62	2,6,10,15,19,23-hexamethyltetracosane	111-01-3	235.15	57.932	2
34549	C27H54	docosylcyclopentane	62016-55-1	318.15	59.621	2	34963	C30H62	9-octyldocosane	55319-83-0	281.75	57.932	2
34550	C27H54	heneicosylcyclohexane	26718-82-1	324.65	69.025	2	34965	C30H63N	triacontylamine	66214-00-4	351.15	94.384	2
34551	C27H54	(1-decylundecyl)cyclohexane	6703-99-7	272.60	63.492	2	34966	C30H63N	methylnonacosylamine	66214-04-8	335.15	78.465	2
34552	C27H54	1-heptacosene	15306-27-1	327.85	64.406	2	34967	C30H63N	ethyloctacosylamine	66214-03-7	335.80	78.465	2
34553	C27H54Br2	1,1-dibromoheptacosane	62168-06-3	498.15	72.733	2	34968	C30H63N	dipentadecylamine	35551-81-6	336.45	78.465	2
34554	C27H54Cl2	1,1-dichloroheptacosane	62017-29-2	438.39	70.557	2	34969	C30H63N	dimethyloctacosylamine	66214-02-6	333.15	76.477	2
34555	C27H54F2	1,1-difluoroheptacosane	62127-16-6	442.85	68.323	2	34970	C30H63N	diethylhexacosylamine	66214-01-5	302.65	77.262	2
34556	C27H54I2	1,1-diiodoheptacosane	66291-84-7	494.67	70.975	2	34971	C30H63N	tri-N-decylamine	1070-01-5	272.15	76.477	2
34559	C27H55Br	1-bromoheptacosane	62108-46-7	336.55	70.971	2	35019	C31H56	pentacosylbenzene	61828-06-6	332.15	70.087	2
34560	C27H55Cl	1-chloroheptacosane	62016-79-9	335.15	69.883	2	35020	C31H56	13-phenylpentacosane	6006-90-2	304.85	67.207	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
35023	C31H60	1-hentriacontyne	61847-91-4	342.15	79.020	2	35284	C34H71N	dimethyldotriacontylamine	66214-31-1	342.15	86.837	2
35025	C31H62	hexacosylcyclopentane	62016-58-4	329.15	69.981	2	35285	C34H71N	diethyltriacontylamine	66214-30-0	342.15	86.837	2
35026	C31H62	pentacosylcyclohexane	61828-10-2	335.05	81.457	2	35312	C35H64	nonacosylbenzene	61828-27-1	341.15	80.447	2
35027	C31H62	1-hentriacontene	18435-54-6	327.75	74.766	2	35313	C35H68	1-pentatriacontyne	61847-94-7	349.15	89.380	2
35028	C31H62	13-cyclohexylpentacosane	6697-15-0	270.20	63.714	2	35314	C35H70	triacontylcyclopentane	61827-93-8	338.15	80.341	2
35029	C31H62Br2	1,1-dibromohentriacontane	62168-10-9	543.23	83.093	2	35315	C35H70	nonacosylcyclohexane	61828-14-6	343.05	93.889	2
35030	C31H62Cl2	1,1-dichlorohentriacontane	62017-33-8	483.47	80.917	2	35316	C35H70	1-pentatriacontene	61868-13-1	345.45	85.126	2
35031	C31H62F2	1,1-difluorohentriacontane	62127-20-2	487.93	78.683	2	35317	C35H70Br2	1,1-dibromopentatriacontane	---	588.31	93.453	2
35032	C31H62I2	1,1-diiodohentriacontane	66214-07-1	539.75	81.335	2	35318	C35H70Cl2	1,1-dichloropentatriacontane	62017-37-2	528.55	91.277	2
35034	C31H63Br	1-bromohentriacontane	62108-48-9	344.85	81.331	2	35319	C35H70F2	1,1-difluoropentatriacontane	62127-24-6	533.01	89.043	2
35035	C31H63Cl	1-chlorohentriacontane	62016-83-5	344.15	80.243	2	35320	C35H70I2	1,1-diiodopentatriacontane	66576-85-0	584.83	91.695	2
35036	C31H63F	1-fluorohentriacontane	62108-85-4	347.15	79.126	2	35322	C35H71Br	1-bromopentatriacontane	62108-51-4	351.65	91.691	2
35037	C31H63I	1-iodohentriacontane	57094-91-4	346.45	80.452	2	35323	C35H71Cl	1-chloropentatriacontane	---	351.15	90.603	2
35039	C31H64	hentriacontane	630-04-6	341.05	76.046	2	35324	C35H71F	1-fluoropentatriacontane	62108-89-8	354.15	89.486	2
35040	C31H64	11-decylheneicosane	55320-06-4	282.34	71.207	1	35325	C35H71I	1-iodopentatriacontane	62154-86-3	352.85	90.812	2
35041	C31H65N	hentriacontylamine	66214-08-2	352.15	97.492	2	35326	C35H72	pentatriacontane	630-07-9	347.85	86.406	2
35042	C31H65N	methyltriacontylamine	66214-12-8	336.15	81.055	2	35327	C35H73N	pentatriacontylamine	66576-87-2	358.15	109.924	2
35043	C31H65N	ethylnonacosylamine	66214-11-7	336.15	81.055	2	35328	C35H73N	methyltetratriacontylamine	66576-91-8	341.15	91.415	2
35044	C31H65N	dimethylnonacosylamine	66214-10-6	335.00	79.067	2	35329	C35H73N	ethyltritriacontylamine	66576-90-7	341.15	91.415	2
35045	C31H65N	diethylheptacosylamine	66214-09-3	335.00	79.067	2	35330	C35H73N	dimethyltritriacontylamine	66576-89-4	342.00	89.427	2
35105	C32H58	hexacosylbenzene	13024-80-1	335.15	72.677	2	35331	C35H73N	diethylhentriacontylamine	66576-88-3	342.00	89.427	2
35108	C32H62	1-dotriacontyne	61847-92-5	344.15	81.610	2	35400	C36H66	triacontylbenzene	50715-02-1	343.15	83.037	2
35111	C32H64	heptacosylcyclopentane	61827-90-5	332.15	72.571	2	35408	C36H70	1-hexatriacontyne	61847-95-8	350.15	91.970	2
35112	C32H64	hexacosylcyclohexane	61828-11-3	337.15	84.565	2	35418	C36H72	hentriacontylcyclopentane	61827-94-9	340.15	82.931	2
35113	C32H64	1-dotriacontene	18435-55-7	329.85	77.356	2	35419	C36H72	triacontylcyclohexane	61828-15-7	344.75	96.997	2
35114	C32H64Br2	1,1-dibromodotriacontane	62168-11-0	554.50	85.683	2	35420	C36H72	1-hexatriacontene	61868-14-2	347.05	87.716	2
35115	C32H64Cl2	1,1-dichlorodotriacontane	62017-34-9	494.74	83.507	2	35421	C36H72Br2	1,1-dibromohexatriacontane	62168-15-4	599.58	96.043	2
35116	C32H64F2	1,1-difluorodotriacontane	62127-21-3	499.20	81.273	2	35422	C36H72Cl2	1,1-dichlorohexatriacontane	62017-38-3	539.82	93.867	2
35117	C32H64I2	1,1-diiododotriacontane	66214-13-9	551.02	83.925	2	35424	C36H72F2	1,1-difluorohexatriacontane	62127-25-7	544.28	91.633	2
35122	C32H65Br	1-bromodotriacontane	7596-92-1	342.85	83.921	2	35425	C36H72I2	1,1-diiodohexatriacontane	66576-72-5	596.10	94.285	2
35123	C32H65Cl	1-chlorodotriacontane	62016-84-6	344.15	82.833	2	35430	C36H73Br	1-bromohexatriacontane	7461-19-0	349.65	94.281	2
35124	C32H65F	1-fluorodotriacontane	62108-86-5	346.15	81.716	2	35431	C36H73Cl	1-chlorohexatriacontane	62016-88-0	351.15	93.193	2
35125	C32H65I	1-iododotriacontane	62154-83-0	345.55	83.042	2	35432	C36H73F	1-fluorohexatriacontane	62108-90-1	353.15	92.076	2
35126	C32H66	dotriacontane	544-85-4	342.85	78.636	2	35433	C36H73I	1-iodohexatriacontane	62154-87-4	351.95	93.402	2
35127	C32H66	3-methylhentriacontane	4981-99-1	274.15	70.757	2	35434	C36H74	hexatriacontane	630-06-8	349.35	88.826	1
35129	C32H67N	dotriacontylamine	66214-14-0	354.15	100.600	2	35435	C36H74	13-undecylpentacosane	55517-89-0	282.85	80.372	2
35130	C32H67N	methylhentriacontylamine	66214-18-4	338.15	83.645	2	35437	C36H75N	hexatriacontylamine	45313-33-5	359.15	113.032	2
35131	C32H67N	ethyltriacontylamine	66214-17-3	339.17	83.646	2	35438	C36H75N	methylpentatriacontylamine	66577-27-3	342.15	94.005	2
35132	C32H67N	dihexadecylamine	16724-63-3	340.18	83.645	2	35439	C36H75N	ethyltetratriacontylamine	66577-26-2	345.45	94.005	2
35133	C32H67N	dimethyltriacontylamine	66214-16-2	338.15	81.657	2	35440	C36H75N	dioctadecylamine	112-99-2	345.45	94.005	2
35134	C32H67N	diethyloctacosylamine	66214-15-1	338.15	81.657	2	35441	C36H75N	dimethyltetratriacontylamine	66577-25-1	346.15	92.017	2
35178	C33H60	heptacosylbenzene	61828-25-9	337.15	75.267	2	35442	C36H75N	diethyldotriacontylamine	66577-24-0	325.72	93.279	2
35179	C33H64	1-tritriacontyne	61847-93-6	346.15	84.200	2	35443	C36H75N	tridodecylamine	102-87-4	288.85	92.017	2
35180	C33H66	octacosylcyclopentane	61827-91-6	334.15	75.161	2	35476	C37H68	hentriacontylbenzene	61828-28-2	345.15	85.627	2
35181	C33H66	heptacosylcyclohexane	61828-12-4	339.25	87.673	2	35477	C37H72	1-heptatriacontyne	---	352.15	94.560	2
35182	C33H66	1-tritriacontene	61868-11-9	331.85	79.946	2	35478	C37H74	dotriacontylcyclopentane	---	342.15	85.521	2
35183	C33H66Br2	1,1-dibromotritriacontane	62168-12-1	565.77	88.273	2	35479	C37H74	hentriacontylcyclohexane	61828-16-8	346.45	100.105	2
35184	C33H66Cl2	1,1-dichlorotritriacontane	62017-35-0	506.01	86.097	2	35480	C37H74	1-heptatriacontene	61868-15-3	348.65	90.306	2
35185	C33H66F2	1,1-difluorotritriacontane	62127-22-4	510.47	83.863	2	35481	C37H74Br2	1,1-dibromoheptatriacontane	62168-16-5	610.85	98.633	2
35186	C33H66I2	1,1-diiodotritriacontane	66214-19-5	562.29	86.515	2	35482	C37H74Cl2	1,1-dichloroheptatriacontane	62017-39-4	551.09	96.457	2
35187	C33H67Br	1-bromotritriacontane	62108-49-0	348.45	86.511	2	35483	C37H74F2	1,1-difluoroheptatriacontane	62127-26-8	555.55	94.223	2
35188	C33H67Cl	1-chlorotritriacontane	62016-85-7	348.15	85.423	2	35484	C37H74I2	1,1-diiodoheptatriacontane	66577-05-7	607.37	96.875	2
35189	C33H67F	1-fluorotritriacontane	62108-87-6	350.15	84.306	2	35486	C37H75Br	1-bromoheptatriacontane	62108-52-5	354.55	96.871	2
35190	C33H67I	1-iodotritriacontane	62154-84-1	349.85	85.632	2	35487	C37H75Cl	1-chloroheptatriacontane	62016-89-1	354.15	95.783	2
35191	C33H68	tritriacontane	630-05-7	344.20	105.039	1	35488	C37H75F	1-fluoroheptatriacontane	62108-91-2	357.15	94.666	2
35192	C33H69N	tritriacontylamine	---	355.15	103.708	2	35489	C37H75I	1-iodoheptatriacontane	62154-88-5	355.65	95.992	2
35193	C33H69N	methyldotriacontylamine	66214-25-3	339.15	86.235	2	35490	C37H76	heptatriacontane	7194-84-5	350.85	91.586	2
35194	C33H69N	ethylhentriacontylamine	66214-24-2	339.15	86.235	2	35491	C37H77N	heptatriacontylamine	66577-08-0	360.15	116.140	2
35195	C33H69N	dimethylhentriacontylamine	66214-23-1	340.00	84.247	2	35492	C37H77N	methylhexatriacontylamine	66577-12-6	343.15	96.595	2
35196	C33H69N	diethylnonacosylamine	66214-22-0	340.00	84.247	2	35493	C37H77N	ethylpentatriacontylamine	66577-11-5	343.15	96.595	2
35197	C33H69N	triundecylamine	42910-16-7	340.00	84.247	2	35494	C37H77N	dimethylpentatriacontylamine	66577-10-4	317.65	94.607	2
35257	C34H62	octacosylbenzene	61828-26-0	339.15	77.857	2	35495	C37H77N	diethyltritriacontylamine	66577-09-1	317.65	94.607	2
35260	C34H66	1-tetratriacontyne	26185-83-1	347.15	86.790	2	35496	C37H77N	N-methyldioctadecylamine	4088-22-6	317.65	94.607	2
35263	C34H67I	1-iodotetratriacontane	62154-85-2	348.95	86.381	2	35513	C38H70	dotriacontylbenzene	61828-29-3	347.15	88.217	2
35265	C34H68	nonacosylcyclopentane	61827-92-7	336.15	77.751	2	35514	C38H74	1-octatriacontyne	---	353.15	97.150	2
35266	C34H68	octacosylcyclohexane	61828-13-5	341.15	90.781	2	35518	C38H76	tritriacontylcyclopentane	---	343.15	88.111	2
35267	C34H68	1-tetratriacontene	61868-12-0	343.65	82.536	2	35519	C38H76	dotriacontylcyclohexane	61828-17-9	347.95	103.213	2
35268	C34H68Br2	1,1-dibromotetratriacontane	62168-13-2	577.04	90.863	2	35520	C38H76	1-octatriacontene	61868-16-4	350.15	92.896	2
35269	C34H68Cl2	1,1-dichlorotetratriacontane	62017-36-1	517.28	88.687	2	35521	C38H76Br2	1,1-dibromooctatriacontane	62168-17-6	622.12	101.223	2
35270	C34H68F2	1,1-difluorotetratriacontane	62127-23-5	521.74	86.453	2	35522	C38H76Cl2	1,1-dichlorooctatriacontane	62017-40-7	562.36	99.047	2
35271	C34H68I2	1,1-diiodotetratriacontane	66214-26-4	573.56	89.105	2	35523	C38H76F2	1,1-difluorooctatriacontane	62126-87-8	566.82	96.813	2
35274	C34H69Br	1-bromotetratriacontane	62108-50-3	346.45	89.101	2	35524	C38H76I2	1,1-diiodooctatriacontane	66577-13-7	618.64	99.465	2
35275	C34H69Cl	1-chlorotetratriacontane	62016-86-8	348.15	88.013	2	35526	C38H77Br	1-bromooctatriacontane	62108-53-6	352.55	99.461	2
35276	C34H69F	1-fluorotetratriacontane	62108-88-7	349.15	86.896	2	35527	C38H77Cl	1-chlorooctatriacontane	62016-90-4	354.15	98.373	2
35277	C34H70	tetratriacontane	14167-59-0	343.25	83.816	2	35528	C38H77F	1-fluorooctatriacontane	62108-92-3	355.15	97.256	2
35278	C34H70	11-decyltetracosane	55429-84-0	283.95	76.576	2	35529	C38H77I	1-iodooctatriacontane	62154-89-6	354.75	98.582	2
35280	C34H71N	tetratriacontylamine	66214-29-7	357.15	106.816	2	35530	C38H78	octatriacontane	7194-85-6	352.15	94.176	2
35281	C34H71N	methyltritriacontylamine	66214-33-3	340.15	88.825	2	35531	C38H78	13-dodecylhexacosane	55517-73-2	286.85	85.444	2
35282	C34H71N	ethyldotriacontylamine	66214-32-2	342.15	88.828	2	35532	C38H79N	octatriacontylamine	66576-94-1	361.15	119.248	2
35283	C34H71N	diheptadecylamine	16130-73-7	344.15	88.825	2	35533	C38H79N	methylheptatriacontylamine	66576-99-6	344.15	99.185	2

Table 11 Enthalpy of Fusion at Freezing Point - Organic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
35534	C38H79N	ethylhexatriacontylamine	66576-98-5	348.15	98.531	2	35816	C48H98	n-octatetracontane	7098-26-2	361.40	120.076	2
35535	C38H79N	dinonadecylamine	66576-97-4	351.15	99.185	2	35817	C48H99N	trihexadecylamine	28947-77-5	316.15	123.097	2
35536	C38H79N	dimethylhexatriacontylamine	66576-96-3	349.15	97.197	2	35823	C49H100	n-nonatetracontane	7098-27-3	363.00	122.666	2
35537	C38H79N	diethyltetratriacontylamine	66576-95-2	337.00	97.197	2	35831	C50H102	n-pentacontane	6596-40-3	365.30	125.256	2
35553	C39H72	tritriacontylbenzene	61828-30-6	348.15	90.807	2	35838	C51H104	n-henpentacontane	7667-76-7	366.00	127.846	2
35553.1	C39H72O5	glycerol dioleate	2465-32-9	294.65	105.000	2	35839	C51H105N	triheptadecylamine	66575-83-5	325.00	130.867	2
35555	C39H76	1-nonatriacontyne	---	355.15	99.740	2	35847	C52H106	n-dopentacontane	7719-79-1	367.00	130.436	2
35556	C39H78	tetratriacontylcyclopentane	---	345.15	90.701	2	35849	C53H108	n-tripentacontane	'7719-80-4	367.50	133.026	2
35557	C39H78	tritriacontylcyclohexane	55517-75-4	349.45	106.321	2	35869	C54H110	n-tetrapentacontane	5856-66-6	368.00	135.616	2
35558	C39H78	1-nonatriacontene	61868-17-5	351.55	95.486	2	35871	C54H111N	trioctadecylamine	102-88-5	327.15	138.637	2
35559	C39H78Br2	1,1-dibromononatriacontane	62168-18-7	633.39	103.813	2	35880	C55H112	n-pentapentacontane	5846-40-2	368.50	138.206	2
35560	C39H78Cl2	1,1-dichlorononatriacontane	62017-41-8	573.63	101.637	2	35891	C56H114	n-hexapentacontane	7719-82-6	369.00	140.796	2
35561	C39H78F2	1,1-difluorononatriacontane	62126-88-9	578.09	99.403	2	35900	C57H116	n-heptapentacontane	5856-67-7	369.70	143.386	2
35562	C39H78I2	1,1-diiodononatriacontane	66576-58-7	629.91	102.055	2	35901	C57H117N	trinonadecylamine	66575-72-2	330.00	146.407	2
35563	C39H79Br	1-bromononatriacontane	62108-54-7	357.25	102.051	2	35904	C58H118	n-octapentacontane	7667-78-9	370.00	145.976	2
35564	C39H79Cl	1-chlorononatriacontane	62016-91-5	357.15	100.963	2	35908	C59H120	n-nonapentacontane	7667-79-0	371.00	148.566	2
35565	C39H79F	1-fluorononatriacontane	62108-93-4	359.15	99.846	2	35922	C60H122	n-hexacontane	7667-80-3	372.10	151.156	2
35566	C39H79I	1-iodononatriacontane	62154-90-9	358.15	101.172	2	35923	C60H123N	trieicosylamine	45324-58-1	335.15	154.177	2
35567	C39H80	nonatriacontane	7194-86-7	353.45	96.766	2	35925	C61H124	n-henhexacontane	7667-81-4	373.00	153.746	2
35568	C39H81N	nonatriacontylamine	66576-42-9	362.15	122.356	2	35932	C62H126	n-dohexacontane	7719-83-7	375.00	156.336	2
35569	C39H81N	methyloctatriacontylamine	66576-46-3	345.15	101.775	2	35940	C63H128	n-trihexacontane	7719-84-8	375.10	158.926	2
35570	C39H81N	ethylheptatriacontylamine	66576-45-2	345.15	101.775	2	35943	C64H130	n-tetrahexacontane	7719-87-1	375.20	161.516	2
35571	C39H81N	dimethylheptatriacontylamine	66576-44-1	347.00	99.787	2	35944	C65H132	n-pentahexacontane	7719-88-2	376.00	164.106	2
35572	C39H81N	diethylpentatriacontylamine	66576-43-0	347.00	99.787	2	35949	C66H134	n-hexahexacontane	7719-89-3	376.80	166.696	2
35573	C39H81N	tritridecylamine	5910-77-0	347.00	99.787	2	35952	C67H136	n-heptahexacontane	7719-90-6	377.30	169.286	2
35615	C40H74	tetratriacontylbenzene	61828-31-7	350.15	93.397	2	35956	C68H138	n-octahexacontane	7719-91-7	377.70	171.876	2
35616	C40H78	1-tetracontyne	---	356.15	102.330	2	35958	C69H140	n-nonahexacontane	7719-92-8	378.10	174.466	2
35617	C40H80	pentatriacontylcyclopentane	61827-98-3	347.15	93.291	2	35960	C70H142	n-heptacontane	7719-93-9	378.40	177.056	2
35618	C40H80	tetratriacontylcyclohexane	61828-19-1	350.85	109.429	2	35961	C71H144	n-henheptacontane	7667-82-5	373.80	179.646	2
35619	C40H80	1-tetracontene	61868-18-6	352.95	98.076	2	35968	C72H146	n-doheptacontane	7667-83-6	374.60	182.236	2
35620	C40H80Br2	1,1-dibromotetracontane	62168-19-8	644.66	106.403	2	35970	C73H148	n-triheptacontane	7667-84-7	375.40	184.826	2
35621	C40H80Cl2	1,1-dichlorotetracontane	62017-42-9	584.90	104.227	2	35972	C74H150	n-tetraheptacontane	7667-85-8	376.20	187.416	2
35622	C40H80F2	1,1-difluorotetracontane	62126-89-0	589.36	101.993	2	35975	C75H152	n-pentaheptacontane	7667-86-9	377.00	190.006	2
35623	C40H80I2	1,1-diiodotetracontane	66576-47-4	641.18	104.645	2	35977	C76H154	n-hexaheptacontane	7667-87-0	377.80	192.596	2
35626	C40H81Br	1-bromotetracontane	62108-55-8	355.25	104.641	2	35979	C77H156	n-heptaheptacontane	7719-94-0	378.60	195.186	2
35627	C40H81Cl	1-chlorotetracontane	62016-92-6	357.15	103.553	2	35980	C78H158	n-octaheptacontane	7719-85-9	379.40	197.776	2
35628	C40H81F	1-fluorotetracontane	62108-94-5	358.15	102.436	2	35982	C79H160	n-nonaheptacontane	7719-86-0	380.20	200.366	2
35629	C40H81I	1-iodotetracontane	62154-91-0	357.25	103.762	2	35984	C80H162	n-octacontane	7667-88-1	381.00	202.956	2
35630	C40H82	tetracontane	4181-95-7	354.65	99.356	2	35985	C81H164	n-henoctacontane	7667-89-2	382.00	205.546	2
35631	C40H83N	tetracontylamine	66576-50-9	363.15	125.464	2	35986	C82H166	n-dooctacontane	7719-95-1	383.50	208.136	2
35632	C40H83N	methylnonatriacontylamine	66576-36-1	346.15	104.365	2	35987	C83H168	n-trioctacontane	7667-90-5	383.80	210.726	2
35633	C40H83N	ethyloctatriacontylamine	66576-53-2	349.65	104.375	2	35990	C84H170	n-tetraoctacontane	7667-91-6	384.10	213.316	2
35634	C40H83N	dieicosylamine	3071-00-9	353.15	104.365	2	35991	C85H172	n-pentaoctacontane	7719-96-2	384.40	215.906	2
35635	C40H83N	dimethyloctatriacontylamine	66576-52-1	352.15	102.377	2	35992	C86H174	n-hexaoctacontane	7667-92-7	384.70	218.496	2
35636	C40H83N	diethylhexatriacontylamine	66576-51-0	352.15	102.377	2	35993	C87H176	n-heptaoctacontane	7667-93-8	385.00	221.086	2
35656	C41H76	pentatriacontylbenzene	61828-32-8	352.15	95.987	2	35998	C88H178	n-octaoctacontane	7667-94-9	385.30	223.676	2
35658	C41H82	hexatriacontylcyclopentane	61827-99-4	348.15	95.881	2	36000	C89H180	n-nonaoctacontane	7719-76-8	385.60	226.266	2
35659	C41H82	pentatriacontylcyclohexane	61828-20-4	352.25	112.537	2	36002	C90H182	n-nonacontane	7667-51-8	385.90	228.856	2
35660	C41H84	n-hentetracontane	7194-87-8	353.90	101.946	2	36003	C91H184	n-hennonacontane	7719-97-3	386.20	231.446	2
35703	C42H78	hexatriacontylbenzene	61828-33-9	353.15	98.577	2	36004	C92H186	n-dononacontane	7667-95-0	386.50	234.036	2
35705	C42H84	hexatriacontylcyclohexane	61828-21-5	353.55	115.645	2	36005	C93H188	n-trinonacontane	7667-96-1	386.80	236.626	2
35708	C42H86	n-dotetracontane	7098-20-6	356.10	104.536	2	36006	C94H190	n-tetranonacontane	1574-32-9	387.40	239.216	2
35709	C42H87N	tritetradecylamine	27911-72-4	306.15	107.557	2	36008	C95H192	n-pentanonacontane	7667-97-2	387.50	241.806	2
35735	C43H88	tritetracontane	7098-21-7	358.65	107.126	2	36010	C96H194	n-hexanonacontane	7763-13-5	387.60	244.396	2
35763	C44H90	n-tetratetracontane	7098-22-8	359.15	109.716	2	36011	C97H196	n-heptanonacontane	7670-25-9	387.70	246.986	2
35774	C45H92	n-pentatetracontane	7098-23-9	360.00	112.306	2	36012	C98H198	n-octanonacontane	7670-26-0	387.80	249.576	2
35775	C45H93N	tripentadecylamine	66576-66-7	310.00	115.327	2	36013	C99H200	n-nonanonacontane	7670-27-1	387.90	252.166	2
35788	C46H94	n-hexatetracontane	7098-24-0	361.00	114.896	2	36014	C100H202	n-hectane	6703-98-6	388.40	254.756	2
35798	C47H96	n-heptatetracontane	7098-25-1	361.20	117.486	2							

Code: 1 - data, 2 - estimate

* Use ID or CAS No for complete name (See Chapther 1 of this book).

Chapter 12

ENTHALPY OF FUSION AT FREEZING POINT – INORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 12 for enthalpy of fusion at freezing point. The tabulation is arranged by alphabetical order (Ag, Al, Ar, ..., Zr) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. The next columns provides the freezing point and the enthalpy of fusion at the freezing point. The last column gives the code for the tabulation.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-13). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (1-2), Daubert and Danner (3), Lange's Handbook (6-7), web sites (8-10), and Yaws (11-12) were used extensively for enthalpy of fusion.

Example

In an engineering analysis, the enthalpy of fusion is needed for ammonia (NH3) at the freezing point temperature of 195.41 K. Determine the enthalpy of fusion of ammonia at the freezing point.

Inspection of the tabulation provides the following:

HFUS = 5.657 kjoule/mol

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Table 12 Enthalpy of Fusion at Freezing Point - Inorganic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
1	Ac	actinium	7440-34-8	1324.15	14.000	1	689	CaC2	calcium carbide	75-20-7	2573.15	32.000	1
13	Ag	silver	7440-22-4	1234.93	11.280	1	713	CaCl2	calcium chloride	10043-52-4	1045.00	28.050	1
16	AgBr	silver bromide	7785-23-1	705.15	9.120	1	728	CaF2	calcium fluoride	7789-75-5	1691.00	29.300	1
35	AgCl	silver (i) chloride	7783-90-6	728.15	13.200	1	732	CaH2	calcium hydride	7789-78-8	1273.15	6.700	1
40	AgF	silver (i) fluoride	7775-41-9	708.15	16.700	1	746	CaI2	calcium iodide	10102-68-8	1056.15	41.800	1
45	AgI	silver (i) iodide	7783-96-2	831.15	9.410	1	751	CaN2O6	calcium nitrate	10124-37-5	834.15	21.400	1
49	AgNO3	silver (i) nitrate	7761-88-8	485.15	11.500	1	752	CaO	calcium oxide	1305-78-8	3173.20	79.500	1
67	Ag2S	silver (i) sulfide	21548-73-2	1098.15	14.100	1	754	CaO3Si	calcium metasilicate	1344-95-2	1813.15	56.100	1
77	Al	aluminum	7429-90-5	933.45	10.711	1	757	CaO4S	calcium sulfate	7778-18-9	1723.20	28.000	1
82	AlBr3	aluminum bromide	7727-15-3	370.65	11.250	1	760	CaS	calcium sulfide	20548-54-3	2797.15	70.000	1
88	AlC3H9	aluminum, trimethyl	75-24-1	288.43	87.906	1	776	Cd	cadmium	7440-43-9	594.22	6.210	1
127	AlCl3	aluminum chloride	7446-70-0	465.70	35.400	1	777	CdBr2	cadmium bromide	7789-42-6	841.15	20.900	1
134	AlF3	aluminum fluoride	7784-18-1	1563.15	98.000	1	791	CdCl2	cadmium chloride	10108-64-2	837.15	48.580	1
146	AlI3	aluminum iodide	7784-23-8	461.43	15.900	1	798	CdF2	cadmium fluoride	7790-79-6	1383.15	22.600	1
167	Al2O3	aluminum oxide	1344-28-1	2325.00	107.000	1	804	CdI2	cadmium iodide	7790-80-9	660.15	15.300	1
174	Al2S3	aluminum sulfide	1302-81-4	1373.15	55.000	1	830	Ce	cerium	7440-45-1	1071.15	5.460	1
183	Am	americium	7440-35-9	1449.15	14.390	1	842	CeCl3	cerium (iii) chloride	7790-86-5	1090.15	54.400	1
200	Ar	argon	7440-37-1	83.80	1.182	1	857	CeI3	cerium (iii) iodide	7790-87-6	1039.15	51.900	1
202	As	arsenic	7440-38-3	1090.00	24.440	1	892	ClFO3	perchloryl fluoride	7616-94-6	125.41	3.834	1
203	AsBr3	arsenic (iii) bromide	7784-33-0	304.25	11.700	1	893	ClF3	chlorine trifluoride	7790-91-2	196.81	7.610	1
228	AsCl3	arsenic trichloride	7784-34-1	257.15	10.100	1	899	Cl2	chlorine	7782-50-5	172.12	6.406	1
230	AsF3	arsenic trifluoride	7784-35-2	267.25	10.400	1	906	Cm	curium	7440-51-9	1618.15	15.000	2
234	AsH3	arsine	7784-42-1	156.28	1.195	1	916	Co	cobalt	7440-48-4	1768.15	16.200	1
245	As2O3	arsenic trioxide	1327-53-3	551.00	18.400	1	968	CoCl2	cobalt chloride	7646-79-9	1013.15	45.000	1
255	At	astatine	7440-68-8	575.15	23.800	1	978	CoF2	cobalt (ii) fluoride	10026-17-2	1400.15	59.000	1
256	Au	gold	7440-57-5	1337.33	12.550	1	1035	Cr	chromium	7440-47-3	2180.15	21.000	1
283	B	boron	7440-42-8	2348.15	50.200	1	1071	CrCl2	chromium (ii) chloride	10049-05-5	1087.15	32.200	1
361	BCl3	boron trichloride	10294-34-5	166.15	2.100	1	1100	CrO3	chromium (vi) oxide	1333-82-0	470.00	15.770	1
363	BF3	boron trifluoride	7637-07-2	146.05	4.200	1	1116	Cr2O3	chromium (iii) oxide	1308-38-9	2602.15	129.700	1
367	BHO2	metaboric acid (c form)	13460-50-9	509.15	14.300	1	1124	Cs	cesium	7440-46-2	301.65	2.090	1
370	BH3O3	boric acid	10043-35-3	444.10	22.300	1	1128	CsBr	cesium bromide	7787-69-1	909.15	23.600	1
373	BN	boron nitride	10043-11-5	3239.15	81.000	1	1137	CsCl	cesium chloride	7647-17-8	918.15	15.900	1
394	B2H6	diborane	19287-45-7	107.65	4.473	1	1140	CsF	cesium fluoride	13400-13-0	956.15	21.700	1
395	B2O3	boron oxide	1303-86-2	723.15	24.560	1	1144	CsI	cesium iodide	7789-17-5	894.15	23.900	1
402	B4C	boron carbide	12069-32-8	2623.15	105.000	1	1150	CsOH	cesium hydroxide	21351-79-1	615.45	4.560	1
413	B10H14	decaborane	---	372.75	32.500	1	1165	Cs2SO4	cesium sulfate	10294-54-9	1278.15	35.700	1
416	Ba	barium	7440-39-3	1000.15	7.120	1	1169	Cu	copper	7440-50-8	1357.77	12.930	1
423	BaBr2	barium bromide	10553-31-8	1130.15	32.200	1	1173	CuBr	cuprous bromide	7787-70-4	770.15	9.600	1
454	BaCl2	barium chloride	10361-37-2	1235.15	15.850	1	1229	CuCl	cuprous chloride	7758-89-6	703.00	10.200	1
460	BaCO3	barium carbonate	513-77-9	1084.15	40.000	1	1230	CuCl2	cupric chloride	7447-39-4	906.15	20.400	1
464	BaF2	barium fluoride	7787-32-8	1641.15	17.800	1	1240	CuF2	copper (ii) fluoride	7789-19-7	1109.15	55.000	1
467	BaH2	barium hydride	13477-09-3	1473.15	25.000	1	1255	CuI	copper iodide	7681-65-4	879.15	10.900	1
470	BaH2O2	barium hydroxide	17194-00-2	681.15	16.000	1	1260	CuO	copper (ii) oxide	1317-38-0	1719.15	11.800	1
481	BaI2	barium iodide	13718-50-8	984.15	26.500	1	1281	Cu2O	copper (i) oxide	1317-39-1	1508.15	64.800	1
491	BaO	barium oxide	1304-28-5	2245.15	46.000	1	1302	D2	deuterium	7782-39-0	18.73	0.199	1
501	BaO4S	barium sulfate	7727-43-7	1853.15	40.000	1	1303	D2O	deuterium oxide	7789-20-0	276.96	6.339	1
511	BaS	barium sulfide	21109-95-5	2502.15	63.000	1	1307	Dy	dysprosium	7429-91-6	1685.15	11.060	1
530	Be	beryllium	7440-41-7	1556.00	7.895	1	1332	Er	erbium	7440-52-0	1802.15	19.900	1
534	BeBr2	beryllium bromide	7787-46-4	781.15	18.000	1	1369	Eu	europium	7440-53-1	1095.15	9.210	1
541	BeCl2	beryllium chloride	7787-47-5	688.15	8.660	1	1409	F2	fluorine	7782-41-4	53.54	0.510	1
543	BeF2	beryllium fluoride	7787-49-7	825.15	4.770	1	1420	Fe	iron	7439-89-6	1811.00	13.810	1
550	BeI2	beryllium iodide	7787-53-3	743.15	18.000	1	1424	FeBr2	iron (ii) bromide	7789-46-0	964.15	50.200	1
551	BeO	beryllium oxide	1304-56-9	2850.15	85.000	1	1434	FeC5O5	iron pentacarbonyl	13463-40-6	253.15	13.230	1
552	BeO4S	beryllium sulfate	13510-49-1	1400.15	6.000	1	1502	FeCl2	ferrous chloride	7758-94-3	950.00	43.012	1
558	Be3N2	beryllium nitride	1304-54-7	2473.15	129.300	1	1505	FeCl3	ferric chloride	7705-08-0	577.00	43.100	1
562	Bi	bismuth	7440-69-9	544.54	11.300	1	1509	FeF2	iron (ii) fluoride	7789-28-8	1373.15	51.900	1
564	BiBr3	bismuth tribromide	7787-58-8	491.15	21.700	1	1527	FeI2	iron (ii) iodide	7783-86-0	860.15	45.000	1
576	BiCl3	bismuth trichloride	7787-60-2	503.15	10.900	1	1532	FeO	iron (ii) oxide	1345-25-1	1650.00	24.058	1
599	Bi2O3	bismuth oxide	1304-76-3	1090.15	28.500	1	1537	FeS	iron (ii) sulfide	1317-37-9	1461.15	31.500	1
604	Bi2Te3	bismuth telluride	1304-82-1	853.15	120.500	1	1566	Fe3O4	iron (ii,iii) oxide	1317-61-9	1870.15	138.100	1
622	BrCl	bromine chloride	13863-41-7	207.15	10.400	1	1574	Fr	francium	7440-73-5	300.15	2.000	2
626	BrF3	bromine trifluoride	7787-71-5	281.92	12.050	1	1575	Ga	gallium	7440-55-3	302.91	5.590	1
628	BrF5	bromine pentafluoride	7789-30-2	212.65	5.670	1	1577	GaBr3	gallium (iii) bromide	13450-88-9	394.65	12.100	1
633	Br2	bromine	7726-95-6	265.90	10.573	1	1578	GaC3H9	gallium, trimethyl	1445-79-0	257.45	9.250	1
637	C	carbon (amphorous)	7440-44-0	4300.00	104.600	1	1585	GaCl3	gallium trichloride	13450-90-3	350.90	11.130	1
639	C	graphite	7782-42-5	4762.15	117.000	1	1593	GaI3	gallium (iii) iodide	13450-91-4	485.15	12.900	1
641	CCl2O	carbonyl chloride	75-44-5	145.37	5.738	1	1600	GaSb	gallium antimonide	12064-03-8	985.15	25.100	1
642	CF2O	carbonyl fluoride	353-50-4	159.15	6.708	1	1605	Ga2O3	gallium (iii) oxide	12024-21-4	2079.15	100.000	1
644	CH4N2O	urea	57-13-6	405.85	14.790	1	1610	Gd	gadolinium	7440-54-2	1586.15	10.050	1
647	CNCl	cyanogen chloride	506-77-4	266.65	11.400	1	1637	Ge	germanium	7440-56-4	1210.40	36.940	1
651	CN4O8	tetranitromethane	509-14-8	285.65	25.200	2	1675	GeH4	germane	7782-65-2	107.26	0.836	1
652	CO	carbon monoxide	630-08-0	68.15	0.837	1	1679	GeO2	germanium (iv) oxide	1310-53-8	1388.15	43.900	1
653	COS	carbonyl sulfide	463-58-1	134.31	7.730	1	1691	HBr	hydrogen bromide	10035-10-6	186.34	2.406	1
655	CO2	carbon dioxide	124-38-9	216.58	9.019	1	1694	HCN	hydrogen cyanide	74-90-8	259.86	8.406	1
656	CS2	carbon disulfide	75-15-0	161.05	4.393	1	1695	HCl	hydrogen chloride	7647-01-0	158.97	2.000	1
661	C2N2	cyanogen	460-19-5	245.32	8.100	1	1697	HClO4	perchloric acid	7601-90-3	171.95	6.933	1
663	C3O2	carbon suboxide	504-64-3	161.85	5.400	1	1698	HF	hydrogen fluoride	7664-39-3	189.79	4.580	1
675	Ca	calcium	7440-70-2	1115.00	8.540	1	1699	HI	hydrogen iodide	10034-85-2	222.38	2.872	1
682	CaBr2	calcium bromide	7789-41-5	1015.15	29.100	1	1702	HNO3	nitric acid	7697-37-2	231.55	10.500	1
688	CaCO3	calcium carbonate (calcite)	471-34-1	1612.15	36.000	1	1709	H2	hydrogen	1333-74-0	13.95	0.117	1

Table 12 Enthalpy of Fusion at Freezing Point - Inorganic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
1712	H2O	water	7732-18-5	273.15	6.010	1	2453	Mg2SiO4	magnesium orthosilicate	26686-77-1	2170.15	71.000	1
1713	H2O2	hydrogen peroxide	7722-84-1	272.73	12.500	1	2464	Mn	manganese	7439-96-5	1519.15	12.910	1
1714	H2S	hydrogen sulfide	7783-06-4	187.68	2.377	1	2469	MnBr2	manganese (ii) bromide	13446-03-2	971.15	33.000	1
1716	H2SO4	sulfuric acid	7664-93-9	283.46	10.710	1	2495	MnCl2	manganese (ii) chloride	7773-01-5	923.15	30.700	1
1719	H2Se	hydrogen selenide	7783-07-5	207.45	2.514	1	2499	MnF2	manganese (ii) fluoride	7782-64-1	1203.15	23.000	1
1722	H3NO	hydroxylamine	7803-49-8	306.25	16.500	1	2512	MnI2	manganese (ii) iodide	7790-33-2	911.15	42.000	1
1723	H3PO2	hypophosphorous acid	6303-21-5	299.65	9.670	1	2517	MnO	manganese (ii) oxide	1344-43-0	2112.15	54.400	1
1724	H3PO3	phosphorous acid	13598-36-2	347.55	12.800	1	2523	MnS	manganese (ii) sulfide (a form)	18820-29-6	1883.15	26.400	1
1725	H3PO4	phosphoric acid	7664-38-2	315.51	13.389	1	2529	MnSiO3	manganese (ii) metasilicate	7759-00-4	1564.15	66.900	1
1739	He	helium-4	7440-59-7	1.76	0.014	1	2548	Mo	molybdenum	7439-98-7	2896.15	37.480	1
1740	Hf	hafnium	7440-58-6	2506.15	27.200	1	2566	MoCl4	molybdenum (iv) chloride	13320-71-3	443.15	17.000	1
1755	HfCl4	hafnium (iv) chloride	13499-05-3	705.15	75.000	1	2567	MoCl5	molybdenum (v) chloride	10241-05-1	467.15	18.800	1
1761	HfO2	hafnium oxide	12055-23-1	3047.15	104.600	1	2573	MoF6	molybdenum fluoride	7783-77-9	290.65	4.330	1
1771	Hg	mercury	7439-97-6	234.29	2.295	1	2585	MoO3	molybdenum oxide	1313-27-5	1074.15	48.000	1
1773	HgBr2	mercuric bromide	7789-47-1	509.15	17.900	1	2602	Mo2S3	molybdenum (iii) sulfide	12033-33-9	2080.15	130.000	1
1800	HgCl2	mercuric chloride	7487-94-7	549.15	19.410	1	2607	NClO	nitrosyl chloride	2696-92-6	213.55	5.983	1
1804	HgF2	mercury (ii) fluoride	7783-39-3	918.15	23.000	1	2613	NF3	nitrogen trifluoride	7783-54-2	66.46	0.398	1
1813	HgI2	mercuric iodide	7774-29-0	532.15	18.900	1	2619	NH3	ammonia	7664-41-7	195.41	5.657	1
1834	Hg2I2	mercury (i) iodide	15385-57-6	563.15	27.800	1	2634	NH4I	ammonium iodide	12027-06-4	824.15	21.000	1
1841	Ho	holmium	7440-60-0	1747.15	17.000	2	2644	NH5O4S	ammonium hydrogen sulfate	7803-63-6	420.05	14.310	1
1863	ICl	iodine chloride	7790-99-0	300.54	11.600	1	2674	NO	nitric oxide	10102-43-9	112.15	2.301	1
1873	I2	iodine	7553-56-2	386.75	15.517	1	2676	NO2	nitrogen dioxide	10102-44-0	261.90	14.650	1
1877	In	indium	7440-74-6	429.75	3.281	1	2678	N2	nitrogen	7727-37-9	63.15	0.720	1
1879	InBr	indium (i) bromide	14280-53-6	563.15	15.000	1	2682	N2F2	cis-difluorodiazine	13812-43-6	78.15	15.400	1
1881	InBr3	indium (iii) bromide	13465-09-3	693.15	26.000	1	2683	N2F2	trans-difluorodiazine	13776-62-0	101.15	14.200	1
1890	InCl	indium (i) chloride	13465-10-6	484.15	21.300	1	2685	N2H4	hydrazine	302-01-2	274.69	12.660	1
1892	InCl3	indium (iii) chloride	10025-82-8	856.15	27.000	1	2689	N2H4O3	ammonium nitrate	6484-52-2	442.75	6.402	1
1896	InF3	indium (iii) fluoride	7783-52-0	1443.15	64.000	1	2747	N2O	nitrous oxide	10024-97-2	182.33	6.540	1
1900	InI	indium (i) iodide	13966-94-4	637.55	17.260	1	2749	N2O4	nitrogen tetraoxide	10544-72-6	261.90	14.650	1
1901	InI3	indium (iii) iodide	13510-35-5	480.15	18.480	1	2750	N2O5	nitrogen pentoxide	10102-03-1	314.15	34.640	1
1907	InSb	indium antimonide	1312-41-0	798.15	25.500	1	2781	Na	sodium	7440-23-5	370.95	2.602	1
1912	In2O3	indium (iii) oxide	1312-43-2	2185.15	105.000	1	2798	NaBO2	sodium metaborate	7775-19-1	1239.15	36.200	1
1917	Ir	iridium	7439-88-5	2719.15	41.120	1	2800	NaBr	sodium bromide	7647-15-6	1020.00	26.110	1
1940	IrF6	iridium (vi) fluoride	7783-75-7	317.15	8.400	1	2802	NaBrO3	sodium bromate	7789-38-0	654.15	28.110	1
1960	K	potassium	7440-09-7	336.35	2.321	1	2810	NaCN	sodium cyanide	143-33-9	836.85	8.790	1
1972	KBr	potassium bromide	7758-02-3	1007.00	25.500	1	2855	NaCl	sodium chloride	7647-14-5	1074.00	28.160	1
1979	KCN	potassium cyanide	151-50-8	907.15	14.600	1	2860	NaClO3	sodium chlorate	7775-09-9	533.00	22.100	1
2009	KCl	potassium chloride	7447-40-7	1044.00	26.530	1	2864	NaF	sodium fluoride	7681-49-4	1269.00	33.346	1
2018	KF	potassium fluoride	7789-23-3	1131.15	27.200	1	2888	NaI	sodium iodide	7681-82-5	933.00	23.600	1
2024	KHF2	potassium hydrogen fluoride	7789-29-9	512.05	6.620	1	2894	NaNO3	sodium nitrate	7631-99-4	580.15	15.000	1
2035	KI	potassium iodide	7681-11-0	954.00	24.016	1	2897	NaOH	sodium hydroxide	1310-73-2	596.00	6.600	1
2042	KNO3	potassium nitrate	7757-79-1	610.15	10.100	1	2911	Na2B4O7	sodium tetraborate	1330-43-4	1016.15	76.900	1
2047	KOH	potassium hydroxide	1310-58-3	679.00	8.600	1	2916	Na2CO3	sodium carbonate	497-19-8	1131.25	29.640	1
2064	K2CO3	potassium carbonate	584-08-7	1171.15	27.600	1	2961	Na2O	sodium oxide	1313-59-3	1405.15	47.700	1
2088	K2CrO4	potassium chromate	7789-00-6	1248.15	29.000	1	2972	Na2S	sodium sulfide	1313-82-2	1223.00	19.300	1
2089	K2Cr2O7	potassium dichromate	7778-50-9	671.15	36.700	1	2974	Na2SO4	sodium sulfate	7757-82-6	1157.00	23.600	1
2126	K2S	potassium sulfide	1312-73-8	1221.15	16.150	1	2980	Na2SiO3	sodium metasilicate	6834-92-0	1362.00	51.800	1
2127	K2SO4	potassium sulfate	7778-80-5	1342.15	36.400	1	3019	Nb	niobium	7440-03-1	2750.15	30.000	1
2140	K2WO4	potassium tungstate	7790-60-5	1194.15	19.500	1	3024	NbBr5	niobium (v) bromide	13478-45-0	527.15	24.000	1
2153	K3PO4	potassium phosphate	7778-53-2	1613.15	37.200	1	3034	NbCl5	niobium (v) chloride	10026-12-7	477.85	38.300	1
2162	Kr	krypton	7439-90-9	115.78	1.640	1	3037	NbF5	niobium (v) fluoride	7783-68-8	353.15	12.200	1
2168	La	lanthanum	7439-91-0	1191.15	6.200	1	3042	NbI5	niobium (v) iodide	13779-92-5	473.15	37.700	1
2177	LaCl3	lanthanum chloride	10099-58-8	1132.15	43.100	1	3043	NbN	niobium nitride	24621-21-4	2573.15	46.000	1
2203	Li	lithium	7439-93-2	453.69	3.000	1	3044	NbO	niobium (ii) oxide	12034-57-0	2209.15	85.000	1
2212	LiBO2	lithium metaborate	13453-69-5	1122.15	33.800	1	3047	NbO2	niobium (iv) oxide	12034-59-2	2174.15	92.000	1
2213	LiBr	lithium bromide	7550-35-8	820.15	17.600	1	3052	Nb2O5	niobium (v) oxide	1313-96-8	1785.15	104.300	1
2253	LiCl	lithium chloride	7447-41-8	883.15	19.900	1	3057	Nd	neodymium	7440-00-8	1294.15	7.140	1
2258	LiClO4	lithium perchlorate	7791-03-9	509.15	29.000	1	3091	Ne	neon	7440-01-9	24.55	0.335	1
2261	LiF	lithium fluoride	7789-24-4	1121.35	27.090	1	3092	Ni	nickel	7440-02-0	1728.15	17.480	1
2265	LiH	lithium hydride	7580-67-8	961.85	22.600	1	3105	NiC4O4	nickel carbonyl	13463-39-3	253.85	13.800	1
2270	LiI	lithium iodide	10377-51-2	742.00	14.600	1	3133	NiCl2	nickel (ii) chloride	7718-54-9	1282.15	71.200	1
2274	LiNO3	lithium nitrate	7790-69-4	526.15	24.900	1	3162	NiS	nickel sulfide	16812-54-7	1249.15	30.100	1
2277	LiOH	lithium hydroxide	1310-65-2	744.25	20.880	1	3178	Ni3S2	nickel (iii) sulfide	12035-72-2	1060.15	19.700	1
2282	Li2B4O7	lithium tetraborate	12007-60-2	1190.15	121.000	1	3182	Np	neptunium	7439-99-8	917.15	3.200	1
2283	Li2CO3	lithium carbonate	554-13-2	996.15	41.000	1	3198	O2	oxygen	7782-44-7	54.36	0.444	1
2306	Li2SO4	lithium sulfate	10377-48-7	1132.15	7.500	1	3199	O3	ozone	10028-15-6	80.15	2.000	2
2308	Li2SiO3	lithium metasilicate	10102-24-6	1474.15	28.000	1	3200	Os	osmium	7440-04-2	3306.15	57.850	1
2316	Lu	lutetium	7439-94-3	1936.15	22.000	2	3222	OsO4	osmium tetroxide	20816-12-0	314.15	9.800	1
2335	Mg	magnesium	7439-95-4	923.15	8.480	1	3234	P	phosphorus (white)	7723-14-0	317.30	0.660	1
2341	MgBr2	magnesium bromide	7789-48-2	984.15	39.300	1	3282	PC6H18N3O	phosphoramide, hexamethyl	680-31-9	280.15	16.945	1
2350	MgCO3	magnesium carbonate	546-93-0	1263.15	59.000	1	3381	PCl3	phosphorus (iii) chloride	7719-12-2	181.15	7.100	1
2392	MgCl2	magnesium chloride	7786-30-3	987.15	43.100	1	3389	PH3	phosphine	7803-51-2	139.37	1.130	1
2399	MgF2	magnesium fluoride	7783-40-6	1536.15	58.500	1	3395	POBr3	phosphorus (v) oxybromide	7789-59-5	329.15	38.000	1
2402	MgH2	magnesium hydride	7693-27-8	600.15	14.000	1	3396	POCl3	phosphorus oxychloride	10025-87-3	274.33	13.100	1
2424	MgI2	magnesium iodide	10377-58-9	907.15	26.000	1	3449	P2O5	phosphorus pentoxide	1314-56-3	693.15	27.200	1
2427	MgN2O6	magnesium nitrate	10377-60-3	363.05	16.000	1	3451	P2S5	phosphorus (v) sulfide	1314-80-3	561.15	20.550	1
2429	MgO	magnesium oxide	1309-48-4	3105.00	77.000	1	3461	P4O6	phosphorous (iii) oxide	12440-00-5	296.95	14.060	1
2439	MgS	magnesium sulfide	12032-36-9	2499.15	63.000	1	3462	P4S3	phosphorus sesquisulfide	1314-85-8	445.15	9.200	1
2440	MgSO4	magnesium sulfate	7487-88-9	1400.00	14.600	1	3469	Pa	protactinium	7440-13-3	1845.15	12.340	1
2452	Mg2Si	magnesium silicide	22831-39-6	1375.15	85.800	1	3483	Pb	lead	7439-92-1	600.61	4.770	1

Table 12 Enthalpy of Fusion at Freezing Point - Inorganic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
3487	PbBr2	lead bromide	10031-22-8	644.15	16.440	1	4479	SrCl2	strontium chloride	10476-85-4	1147.15	17.500	1
3498	PbC4H12	lead, tetramethyl	75-74-1	245.65	10.860	1	4484	SrF2	strontium fluoride	7783-48-4	1750.15	28.500	1
3504	PbC8H20	tetraethyl lead	78-00-2	139.41	8.800	1	4486	SrH2	strontium hydride	13598-33-9	1323.15	23.000	1
3514	PbCl2	lead chloride	7758-95-4	774.15	21.900	1	4487	SrH2O2	strontium hydroxide	18480-07-4	808.15	23.000	1
3521	PbF2	lead fluoride	7783-46-2	1103.15	14.700	1	4492	SrI2	strontium iodide	10476-86-5	788.15	19.700	1
3530	PbI2	lead iodide	10101-63-0	675.15	23.400	1	4498	SrO	strontium oxide	1314-11-0	2804.15	81.000	1
3537	PbO	lead oxide	1317-36-8	1161.15	25.500	1	4502	SrO4S	strontium sulfate	7759-02-6	1878.00	36.000	1
3545	PbS	lead sulfide	1314-87-0	1387.15	18.800	1	4506	SrS	strontium sulfide	1314-96-1	2499.15	63.000	1
3547	PbSO4	lead (ii) sulfate	7446-14-2	1360.15	40.200	1	4517	Ta	tantalum	7440-25-7	3290.15	36.570	1
3553	PbSiO3	lead (ii) metasilicate	10099-76-0	1037.15	26.000	1	4520	TaB2	tantalum diboride	12007-35-1	3413.15	83.700	1
3563	Pb2SiO4	lead (ii) orthosilicate	13566-17-1	1016.15	51.000	1	4523	TaBr5	tantalum (v) bromide	13451-11-1	538.15	45.600	1
3571	Pd	palladium	7440-05-3	1828.05	16.740	1	4524	TaC	tantalum carbide	12070-06-3	4153.15	105.000	1
3608	PdCl2	palladium (ii) chloride	7647-10-1	952.15	40.100	1	4531	TaCl5	tantalum (v) chloride	7721-01-9	489.15	41.600	1
3637	Pm	promethium	7440-12-2	1315.15	7.130	2	4533	TaF5	tantalum (v) fluoride	7783-71-3	368.25	18.800	1
3641	Po	polonium	7440-08-6	527.15	13.000	2	4536	TaI5	tantalum (v) iodide	14693-81-3	769.15	41.800	1
3650	Pr	praseodymium	7440-10-0	1204.15	6.890	1	4537	TaN	tantalum nitride	12033-62-4	3363.15	67.000	1
3691	Pt	platinum	7440-06-4	2041.55	22.170	1	4548	Ta2O5	tantalum (v) oxide	1314-61-0	2057.15	120.000	1
3756	Pu	plutonium	7440-07-5	913.15	2.820	1	4550	Tb	terbium	7440-27-9	1629.15	10.150	1
3757	PuBr3	plutonium (iii) bromide	15752-46-2	954.15	55.200	1	4570	Tc	technetium	7440-26-8	2430.15	33.290	1
3758	PuCl3	plutonium (iii) chloride	13569-62-5	1033.15	63.600	1	4578	TcF6	technetium (vi) fluoride	13842-93-8	310.55	4.720	1
3760	PuF3	plutonium (iii) fluoride	13842-83-6	1669.15	59.800	1	4583	Te	tellurium	13494-80-9	722.66	17.490	1
3761	PuF4	plutonium (iv) fluoride	13709-56-3	1300.15	65.300	1	4588	TeCl4	tellurium tetrachloride	10026-07-0	497.15	18.800	1
3762	PuF6	plutonium (vi) fluoride	13693-06-6	325.15	17.600	1	4596	TeO2	tellurium dioxide	7446-07-3	1006.15	29.100	1
3765	PuI3	plutonium (iii) iodide	13813-46-2	1050.15	50.200	1	4609	Th	thorium	7440-29-1	2023.15	13.810	1
3773	Ra	radium	7440-14-4	973.15	8.500	1	4611	ThBr4	thorium (iv) bromide	13453-49-1	952.15	66.900	1
3781	Rb	rubidium	7440-17-7	312.45	2.190	1	4617	ThCl4	thorium (iv) chloride	10026-08-1	1043.15	40.200	1
3786	RbBr	rubidium bromide	7789-39-1	955.15	15.500	1	4621	ThF4	thorium (iv) fluoride	13709-59-6	1383.15	44.000	1
3791	RbCl	rubidium chloride	7791-11-9	988.15	18.400	1	4628	ThI4	thorium (iv) iodide	7790-49-0	843.15	61.400	1
3795	RbF	rubidium fluoride	13446-74-7	1106.15	17.300	1	4639	Ti	titanium	7440-32-6	1941.15	14.150	1
3801	RbI	rubidium iodide	7790-29-6	915.15	12.500	1	4643	TiBr4	titanium (iv) bromide	7789-68-6	312.15	12.900	1
3803	RbNO3	rubidium nitrate	13126-12-0	578.15	5.610	1	4644	TiC	titanium carbide	12070-08-5	3340.15	71.000	1
3806	RbOH	rubidium hydroxide	1310-82-3	574.15	8.000	1	4678	TiCl4	titanium tetrachloride	7550-45-0	249.05	9.970	1
3828	Re	rhenium	7440-15-5	3459.15	60.430	1	4686	TiI4	titanium (iv) iodide	7720-83-4	423.15	19.800	1
3852	ReF6	rhenium (vi) fluoride	10049-17-9	291.65	4.600	1	4687	TiN	titanium nitride	25583-20-4	3223.15	66.900	1
3853	ReF7	rhenium (vii) fluoride	17029-21-9	321.45	7.500	1	4688	TiO	titanium (ii) oxide	12137-20-1	2023.15	41.800	1
3858	ReOF4	rhenium (vi) oxytetrafluoride	17026-29-8	381.15	13.500	1	4689	TiO2	titanium (iv) oxide	13463-67-7	2116.15	66.944	1
3862	ReO3	rhenium (vi) oxide	1314-28-9	673.15	21.800	1	4690	TiO2	rutile	1317-80-2	2130.00	58.000	1
3875	Re2O7	rhenium heptoxide	1314-68-7	570.15	64.200	1	4698	Ti2O3	titanium (iii) oxide	1344-54-3	2115.15	105.000	1
3880	Rh	rhodium	7440-16-6	2237.15	26.590	1	4703	Tl	thallium	7440-28-0	577.15	4.140	1
3940	Rn	radon	10043-92-2	202.15	3.247	1	4704	TlBr	thallous bromide	7789-40-4	733.15	16.400	1
3941	Ru	ruthenium	7440-18-8	2607.15	38.590	1	4719	TlCl	thallium chloride	7791-12-0	703.15	15.560	1
3991	S	sulfur	7704-34-9	388.36	1.727	1	4725	TlF	thallium (i) fluoride	7789-27-7	599.15	13.870	1
4001	SF6	sulfur hexafluoride	2551-62-4	222.45	5.024	1	4728	TlI	thallium iodide	7790-30-9	714.85	14.730	1
4007	SO2	sulfur dioxide	7446-09-5	200.00	7.400	1	4731	TlNO3	thallium (i) nitrate	10102-45-1	479.15	9.560	1
4010	SO3	sulfur trioxide	7446-11-9	289.95	8.600	1	4738	Tl2CO3	thallium (i) carbonate	6533-73-9	545.15	18.400	1
4023	Sb	antimony	7440-36-0	903.78	19.790	1	4741	Tl2O	thallium (i) oxide	1314-12-1	852.15	30.300	1
4025	SbBr3	antimony tribromide	7789-61-9	369.75	14.600	1	4742	Tl2O3	thallium (iii) oxide	1314-32-5	1107.15	53.000	1
4042	SbCl3	antimony trichloride	10025-91-9	346.55	12.700	1	4743	Tl2S	thallium (i) sulfide	1314-97-2	721.15	12.000	1
4044	SbCl5	antimony pentachloride	7647-18-9	275.95	10.000	1	4744	Tl2SO4	thallium (i) sulfate	7446-18-6	905.15	23.000	1
4049	SbI3	antimony triiodide	7790-44-5	440.15	22.800	1	4747	Tm	thulium	7440-30-4	1818.15	16.840	1
4056	Sb2O3	antimony (iii) oxide	1309-64-4	928.15	54.400	1	4766	U	uranium	7440-61-1	1408.15	9.140	1
4065	Sc	scandium	7440-20-2	1814.15	14.100	1	4769	UBr3	uranium (iii) bromide	13470-19-4	1000.15	43.900	1
4083	Se	selenium (gray)	7782-49-2	493.65	6.690	1	4770	UBr4	uranium (iv) bromide	13470-20-7	792.15	55.200	1
4110	SeF6	selenium hexafluoride	7783-79-1	238.45	8.400	1	4779	UCl3	uranium (iii) chloride	10025-93-1	1110.15	46.400	1
4115	SeOCl2	selenium oxychloride	7791-23-3	281.65	4.230	1	4780	UCl4	uranium (iv) chloride	10026-10-5	863.15	44.800	1
4140	Si	silicon	7440-21-3	1685.00	50.208	1	4781	UCl5	uranium (v) chloride	13470-21-8	560.15	35.600	1
4149	SiCH3Cl3	silane, methyltrichloro	75-79-6	195.35	8.945	1	4782	UCl6	uranium (vi) chloride	13763-23-0	450.15	20.900	1
4150	SiCH4Cl2	silane, methyldichloro	75-54-7	182.55	9.870	1	4784	UF4	uranium (iv) fluoride	10049-14-6	1309.15	42.700	1
4152	SiC2H5Cl3	silane, ethyltrichloro	115-21-9	167.55	6.958	1	4785	UF5	uranium (v) fluoride	13775-07-0	621.15	33.500	1
4153	SiC2H6Cl2	silane, dimethyldichloro	75-78-5	197.05	8.782	1	4787	UF6	uranium fluoride	7783-81-5	337.15	19.190	1
4187	SiC7H8Cl2	silane, methylphenyldichloro	149-74-6	229.65	12.885	1	4797	UI4	uranium (iv) iodide	13470-22-9	779.15	70.700	1
4196	SiC8H20	silane, tetraethyl	631-36-7	190.60	13.390	1	4836	V	vanadium	7440-62-2	2190.00	21.500	1
4238	SiClC3H9	chlorotrimethylsilane	75-77-4	233.15	10.600	1	4860	VCl4	vanadium tetrachloride	7632-51-1	247.45	2.300	1
4244	SiCl4	silicon tetrachloride	10026-04-7	204.30	7.600	1	4865	VF5	vanadium (v) fluoride	7783-72-4	292.65	50.000	1
4245	SiF4	silicon tetrafluoride	7783-61-1	186.35	9.380	1	4874	VO	vanadium (ii) oxide	12035-98-2	2062.15	63.000	1
4261	SiH4	silane	7803-62-5	88.48	0.667	1	4882	VO2	vanadium (iv) oxide	12036-21-4	2240.15	56.900	1
4263	SiI4	silane, tetraiodo	13465-84-4	393.65	19.700	1	4889	V2O3	vanadium (iii) oxide	1314-34-7	2340.15	117.200	1
4265	SiO2	silicon dioxide (alpha quartz)	14808-60-7	1696.00	7.699	1	4891	V2O5	vanadium (v) oxide	1314-62-1	943.15	64.500	1
4267	SiO2	silicon dioxide (cristobalite)	14464-46-1	1995.15	8.510	1	4899	W	tungsten	7440-33-7	3695.15	52.310	1
4271	SiS2	silicon disulfide	13759-10-9	1363.15	20.900	1	4904	WBr5	tungsten (v) bromide	13470-11-6	559.15	17.100	1
4274	Si2C6H18O	disiloxane, hexamethyl	107-46-0	204.90	11.920	1	4913	WCl5	tungsten (v) chloride	13470-14-9	515.15	20.500	1
4303	Sm	samarium	7440-19-9	1347.15	8.620	1	4914	WCl6	tungsten (vi) chloride	13283-01-7	548.15	6.600	1
4332	Sn	tin (white)	7440-31-5	505.08	7.030	1	4917	WF6	tungsten fluoride	7783-82-6	275.45	4.100	1
4334	SnBr2	tin (ii) bromide	10031-24-0	488.15	7.200	1	4926	WOCl4	tungsten (vi) oxytetrachloride	13520-78-0	484.15	45.000	1
4335	SnBr4	stannic bromide	7789-67-5	302.25	11.900	1	4927	WOF4	tungsten (vi) oxytetrafluoride	13520-79-1	379.15	5.000	1
4422	SnCl2	stannous chloride	7772-99-8	520.25	12.800	1	4932	WO3	tungsten (vi) oxide	1314-35-8	1745.15	73.400	1
4424	SnCl4	stannic chloride	7646-78-8	239.08	9.200	1	4945	Xe	xenon	7440-63-3	161.36	2.270	1
4461	Sr	strontium	7440-24-6	1050.15	7.430	1	4960	Y	yttrium	7440-65-5	1795.15	11.420	1
4464	SrBr2	strontium bromide	10476-81-0	930.15	10.100	1	4991	Y2O3	yttrium oxide	1314-36-9	2711.15	105.000	1
4467	SrCO3	strontium carbonate	1633-05-2	1767.15	40.000	1	4995	Yb	ytterbium	7440-64-4	1092.15	7.660	1

Table 12 Enthalpy of Fusion at Freezing Point - Inorganic Compounds

HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)							HFUS at Freezing Point (HFUS - kjoule/mol, TF - K)						
ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code	ID	FORMULA	NAME	CAS No	TF, K	HFUS@TF	code
5021	Zn	zinc	7440-66-6	692.68	7.320	1	5118	ZrC	zirconium carbide	12020-14-3	3805.15	79.500	1
5024	ZnBr2	zinc bromide	7699-45-8	667.15	16.700	1	5138	ZrCl2	zirconium dichloride	13762-26-0	1000.15	27.000	1
5062	ZnCl2	zinc chloride	7646-85-7	563.15	10.250	1	5142	ZrCl4	zirconium chloride	10026-11-6	710.15	50.000	1
5087	ZnO	zinc oxide	1314-13-2	2248.20	52.300	1	5143	ZrF4	zirconium (iv) fluoride	7783-64-4	1205.15	64.200	1
5113	Zr	zirconium	7440-67-7	2128.15	21.000	1	5153	ZrN	zirconium nitride	25658-42-8	3233.15	67.400	1
5115	ZrB2	zirconium boride	12045-64-6	3518.15	104.600	1	5154	ZrO2	zirconium (iv) oxide	1314-23-4	2982.15	87.000	1

Code: 1 - data, 2 - estimate

* Use ID or CAS No for complete name (See Chapther 1 of this book).

Chapter 13

SOLUBILITY PARAMETER AND LIQUID VOLUME – ORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 13. The tabulation is arranged by carbon number (C, C2, C3, ...) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for solubility parameter and liquid volume are given in the adjacent columns. The next column provides the code for the tabulation.

For the tabulation, the results for solubility parameter are ascertained from heat of vaporization and liquid volume

$$\text{sol par} = [\ (\Delta H_{vap} - RT) / v\ ]^{0.5} \qquad (13)$$

where sol par = solubility parameter, $(\text{joule/cm}^3)^{0.5}$
ΔH_{vap} = enthalpy of vaporization, joule/mol
R = universal gas constant, joule/(mol K)
T = temperature, K
v = liquid volume, cm^3/mol

For compounds that are liquids at ambient conditions, the values apply at 25 C. For compounds that are gases at ambient conditions, the values apply at the normal boiling point temperature. For compounds that are solids at ambient conditions, the values apply at the melting point temperature.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-33). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (1-2), Daubert and Danner (3), TRC (11-12), and Yaws (15-33) were used extensively. Estimates for enthalpy of vaporization at the boiling point were primarily based on the Kistiakowsky rule (9) and Riedel method (9). The Joback method (9) was used for estimating critical temperature. Estimates of liquid density were primarily based on Schroeder correlation (9, group contribution), Le Bas method (9, group contribution), and Tyn-Calus equation (9, critical volume). Liquid volume was ascertained from molecular weight and liquid density (molecular weight/density).

Example

In an engineering analysis, the solubility parameter and liquid volume are needed for carbon tetrachloride (CCl4). Determine the solubility parameter and liquid volume for carbon tetrachloride.

Inspection of the tabulation yields:

sol par = 17.571 $(\text{joule/cm}^3)^{0.5}$

v = 97.171 cm^3/mol

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Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
13	CBrClF2	bromochlorodifluoromethane	353-59-3	15.259	86.475	1,2	554	C2HF3	trifluoroethene	359-11-5	15.555	71.515	1,2
16	CBrCl3	bromotrichloromethane	75-62-7	18.323	99.435	1,2	556	C2HF3O2	trifluoroacetic acid	76-05-1	20.583	77.043	1,2
17	CBrF3	bromotrifluoromethane	75-63-8	14.500	74.869	1,2	558	C2HF5	pentafluoroethane	354-33-6	14.674	80.261	1,2
23	CBr2F2	dibromodifluoromethane	75-61-6	16.218	91.974	1,2	571	C2H2	acetylene	74-86-2	15.526	41.831	1,2
29	CBr4	carbon tetrabromide	558-13-4	20.918	111.136	1,2	592	C2H2Br4	1,1,2,2-tetrabromoethane	79-27-6	22.932	118.092	1,2
34	CClF3	chlorotrifluoromethane	75-72-9	14.466	66.927	1,2	593	C2H2Br4	1,1,1,2-tetrabromoethane	630-16-0	22.822	120.636	1,2
39	CClN	cyanogen chloride	506-77-4	21.834	51.351	1,2	604	C2H2ClF3	1-chloro-1,1,2-trifluoroethane	421-04-5	15.601	84.686	2
42	CCl2F2	dichlorodifluoromethane	75-71-8	15.149	80.981	1,2	605	C2H2ClF3	1-chloro-1,2,2-trifluoroethane	431-07-2	15.602	85.579	2
44	CCl2O	phosgene	75-44-5	17.834	70.566	1,2	606	C2H2ClF3	2-chloro-1,1,1-trifluoroethane	75-88-7	15.719	86.289	1,2
47	CCl3F	trichlorofluoromethane	75-69-4	15.633	92.827	1,2	615	C2H2Cl2	1,1-dichloroethylene	75-35-4	16.816	86.789	1,2
50	CCl4	carbon tetrachloride	56-23-5	17.571	97.171	1,2	616	C2H2Cl2	cis-1,2-dichloroethylene	156-59-2	19.477	76.635	1,2
68	CF2O	carbonyl fluoride	353-50-4	16.492	60.560	1,2	617	C2H2Cl2	trans-1,2-dichloroethylene	156-60-5	18.546	77.928	1,2
74	CF4	carbon tetrafluoride	75-73-0	13.840	54.727	1,2	618	C2H2Cl2	dichloroethylene	25323-30-2	20.807	75.501	1,2
96	CHBr3	bromoform	75-25-2	21.724	87.876	1,2	619	C2H2Cl2	1,2-dichloroethylene, cis and trans	540-59-0	19.999	76.453	1,2
97	CHClF2	chlorodifluoromethane	75-45-6	17.261	61.294	1,2	620	C2H2Cl2F2	1,1-dichloro-1,2-difluoroethane	1842-05-3	16.262	96.013	2
101	CHCl2F	dichlorofluoromethane	75-43-4	17.448	73.236	1,2	621	C2H2Cl2F2	1,1-dichloro-2,2-difluoroethane	471-43-2	17.074	95.922	2
104	CHCl3	chloroform	67-66-3	19.028	80.660	1,2	622	C2H2Cl2F2	1,2-dichloro-1,1-difluoroethane	1649-08-7	16.637	95.990	1,2
113	CHF3	fluoroform	75-46-7	17.580	48.607	1,2	623	C2H2Cl2F2	1,2-dichloro-1,2-difluoroethane	431-06-1	16.470	96.014	1,2
117	CHI3	iodoform	75-47-8	20.288	106.131	1,2	625	C2H2Cl2O	chloroacetyl chloride	79-04-9	22.166	78.760	1,2
122	CHN	hydrogen cyanide	74-90-8	24.812	39.744	1,2	626	C2H2Cl2O	dichloroacetaldehyde	79-02-7	21.252	78.815	1,2
140	CH2BrCl	bromochloromethane	74-97-5	21.423	67.177	1,2	627	C2H2Cl2O2	dichloroacetic acid	79-43-6	26.756	83.027	1,2
144	CH2Br2	dibromomethane	74-95-3	22.344	70.038	1,2	630	C2H2Cl3F	1,1,1-trichloro-2-fluoroethane	2366-36-1	18.423	96.123	1,2
145	CH2ClF	chlorofluoromethane	593-70-4	20.157	50.573	1,2	631	C2H2Cl3F	1,1,2-trichloro-1-fluoroethane	811-95-0	18.106	97.524	2
149	CH2Cl2	dichloromethane	75-09-2	20.376	64.440	1,2	632	C2H2Cl3F	1,1,2-trichloro-2-fluoroethane	359-28-4	18.048	98.963	1,2
158	CH2F2	difluoromethane	75-10-5	20.592	43.314	1,2	635	C2H2Cl4	1,1,1,2-tetrachloroethane	630-20-6	18.915	109.347	1,2
161	CH2I2	diiodomethane	75-11-6	24.057	81.015	1,2	636	C2H2Cl4	1,1,2,2-tetrachloroethane	79-34-5	20.484	105.764	1,2
175	CH2O	formaldehyde	50-00-0	23.827	37.074	1,2	642	C2H2F2	1,1-difluoroethylene	75-38-7	15.455	56.723	1,2
176	CH2O2	formic acid	64-18-6	24.242	37.912	1,2	643	C2H2F2	cis-1,2-difluoroethene	1630-77-9	18.756	55.081	1,2
191	CH3Br	methyl bromide	74-83-9	19.952	55.201	1,2	644	C2H2F2	trans-1,2-difluoroethene	1630-78-0	18.756	55.081	1,2
196	CH3Cl	methyl chloride	74-87-3	19.700	50.192	1,2	650	C2H2F4	1,1,1,2-tetrafluoroethane	811-97-2	16.015	73.770	1,2
210	CH3Cl3Si	methyl trichlorosilane	75-79-6	15.386	118.071	1,2	651	C2H2F4	1,1,2,2-tetrafluoroethane	359-35-3	16.429	73.746	2
214	CH3F	methyl fluoride	593-53-3	20.309	38.913	1,2	660	C2H2I4	1,1,1,2-tetraiodoethane	---	20.066	158.200	2
222	CH3I	methyl iodide	74-88-4	20.172	62.666	1,2	661	C2H2I4	1,1,2,2-tetraiodoethane	---	20.769	155.480	2
232	CH3NO	formamide	75-12-7	37.654	39.895	1,2	681	C2H2O	ketene	463-51-4	18.195	52.963	1,2
235	CH3NO2	nitromethane	75-52-5	26.112	54.066	1,2	684	C2H2O4	oxalic acid	144-62-7	37.789	55.695	1,2
251	CH4	methane	74-82-8	13.794	38.009	1,2	688	C2H3Br	vinyl bromide	593-60-2	17.821	70.258	1,2
254	CH4Cl2Si	methyl dichlorosilane	75-54-7	15.403	104.291	1,2	697	C2H3Br3	1,1,1-tribromoethane	2311-14-0	21.208	105.856	1,2
272	CH4O	methyl alcohol	67-56-1	29.520	40.714	1,2	698	C2H3Br3	1,1,2-tribromoethane	78-74-0	22.438	102.202	1,2
278	CH4S	methyl mercaptan	74-93-1	20.261	54.212	1,2	701	C2H3Cl	vinyl chloride	75-01-4	17.894	64.651	1,2
284	CH5ClSi	methyl chlorosilane	993-00-0	15.440	88.582	1,2	702	C2H3ClF2	1-chloro-1,1-difluoroethane	75-68-3	15.509	84.040	1,2
286	CH5N	methylamine	74-89-5	23.114	44.721	1,2	703	C2H3ClF2	1-chloro-1,2-difluoroethane	338-64-7	16.546	78.840	2
322	CH6Si	methyl silane	992-94-9	14.265	75.195	1,2	704	C2H3ClF2	2-chloro-1,1-difluoroethane	338-65-8	17.316	81.693	2
337	CI4	carbon tetraiodide	507-25-5	20.215	134.260	1,2	707	C2H3ClO	acetyl chloride	75-36-5	20.189	71.232	1,2
363	CN4O8	tetranitromethane	509-14-8	18.561	120.562	1,2	708	C2H3ClO	chloroacetaldehyde	107-20-0	23.168	65.415	1,2
372	CO	carbon monoxide	630-08-0	12.145	35.457	1,2	710	C2H3ClO2	chloroacetic acid	79-11-8	27.259	68.554	1,2
373	COS	carbonyl sulfide	463-58-1	18.134	50.963	1,2	711	C2H3ClO2	methyl chloroformate	79-22-1	20.971	77.904	1,2
375	CO2	carbon dioxide	124-38-9	19.657	35.441	1,2	714	C2H3Cl2F	1,1-dichloro-1-fluoroethane	1717-00-6	15.726	95.705	1,2
382	CS2	carbon disulfide	75-15-0	20.321	60.623	1,2	715	C2H3Cl2F	1,1-dichloro-2-fluoroethane	430-53-5	16.309	90.389	2
404	C2BrF3	bromotrifluoroethylene	598-73-2	15.621	83.009	1,2	716	C2H3Cl2F	1,2-dichloro-1-fluoroethane	430-57-9	18.800	85.216	1,2
413	C2Br2F4	1,2-dibromotetrafluoroethane	124-73-2	14.578	120.178	1,2	720	C2H3Cl3	1,1,1-trichloroethane	71-55-6	17.300	100.303	1,2
423	C2ClF3	chlorotrifluoroethylene	79-38-9	15.626	79.282	1,2	721	C2H3Cl3	1,1,2-trichloroethane	79-00-5	19.951	92.964	1,2
427	C2ClF5	chloropentafluoroethane	76-15-3	13.188	99.956	1,2	728	C2H3F	vinyl fluoride	75-02-5	17.756	52.816	1,2
441	C2Cl2F4	1,2-dichloro-1,1,2,2-tetrafluoroethane	76-14-2	13.601	112.677	1,2	735	C2H3F3	1,1,1-trifluoroethane	420-46-2	15.719	71.140	1,2
442	C2Cl2F4	1,1-dichloro-1,2,2,2-tetrafluoroethane	374-07-2	13.596	111.136	1,2	736	C2H3F3	1,1,2-trifluoroethane	430-66-0	17.152	71.501	2
449	C2Cl3F3	1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	14.759	119.805	1,2	743	C2H3I	vinyl iodide	593-66-8	18.776	75.838	1,2
450	C2Cl3F3	1,1,1-trichloro-2,2,2-trifluoroethane	354-58-5	14.734	119.675	1,2	746	C2H3I3	1,1,1-triiodoethane	594-21-8	19.000	136.013	2
455	C2Cl4	tetrachloroethylene	127-18-4	18.956	102.810	1,2	747	C2H3I3	1,1,2-triiodoethane	---	20.400	130.374	2
456	C2Cl4F2	1,1,2,2-tetrachloro-1,2-difluoroethane	76-12-0	16.445	123.901	1,2	753	C2H3N	acetonitrile	75-05-8	24.087	52.699	1,2
457	C2Cl4F2	1,1,1,2-tetrachloro-2,2-difluoroethane	76-11-9	15.800	125.911	1,2	754	C2H3N	methyl isocyanide	593-75-9	22.685	55.297	1,2
459	C2Cl4O	trichloroacetyl chloride	76-02-8	18.627	112.729	1,2	755	C2H3NO	methyl isocyanate	624-83-9	20.135	61.611	1,2
462	C2Cl5F	pentachlorofluoroethane	354-56-3	15.902	137.035	1,2	787	C2H4	ethylene	74-85-1	15.613	49.446	1,2
463	C2Cl6	hexachloroethane	67-72-1	18.240	135.795	1,2	798	C2H4Br2	1,1-dibromoethane	557-91-5	20.405	91.864	1,2
488	C2F4	tetrafluoroethylene	116-14-3	15.179	66.035	1,2	799	C2H4Br2	1,2-dibromoethane	106-93-4	21.098	86.612	1,2
494	C2F6	hexafluoroethane	76-16-4	12.927	86.750	1,2	801	C2H4ClF	1-chloro-1-fluoroethane	1615-75-4	17.103	75.132	2
511	C2HBrClF3	halothane	151-67-7	15.797	105.608	1,2	802	C2H4ClF	1-chloro-2-fluoroethane	762-50-5	19.525	70.756	1,2
525	C2HClF2	2-chloro-1,1-difluoroethylene	359-10-4	16.457	73.530	1,2	812	C2H4Cl2	1,1-dichloroethane	75-34-3	18.329	84.725	1,2
528	C2HClF4	1-chloro-1,1,2,2-tetrafluoroethane	354-25-6	14.505	94.216	2	813	C2H4Cl2	1,2-dichloroethane	107-06-2	20.251	79.421	1,2
529	C2HClF4	2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0	14.555	94.151	2	814	C2H4Cl2	dichloroethane	1300-21-6	19.460	81.987	2
534	C2HCl2F3	1,1-dichloro-1,2,2-trifluoroethane	812-04-4	14.812	103.185	2	816	C2H4Cl2O	bis(chloromethyl) ether	542-88-1	20.576	87.621	1,2
535	C2HCl2F3	1,2-dichloro-1,1,2-trifluoroethane	354-23-4	15.196	101.954	1,2	834	C2H4F2	1,1-difluoroethane	75-37-6	17.301	65.353	1,2
536	C2HCl2F3	2,2-dichloro-1,1,1-trifluoroethane	306-83-2	14.949	104.446	1,2	835	C2H4F2	1,2-difluoroethane	624-72-6	19.814	63.363	1,2
539	C2HCl3	trichloroethylene	79-01-6	19.003	90.115	1,2	844	C2H4I2	1,1-diiodoethane	594-02-5	20.664	102.124	1,2
540	C2HCl3F2	1,1,1-trichloro-2,2-difluoroethane	354-12-1	16.594	109.150	2	845	C2H4I2	1,2-diiodoethane	624-73-7	22.103	89.618	1,2
541	C2HCl3F2	1,1,2-trichloro-1,2-difluoroethane	354-15-4	16.609	108.670	1,2	884	C2H4O	acetaldehyde	75-07-0	19.796	56.513	1,2
542	C2HCl3F2	1,2,2-trichloro-1,1-difluoroethane	354-21-2	16.514	109.634	1,2	885	C2H4O	ethylene oxide	75-21-8	21.630	49.915	1,2
543	C2HCl3O	dichloroacetyl chloride	79-36-7	20.037	97.029	1,2	888	C2H4OS	thioacetic-acid	507-09-5	22.204	71.878	1,2
544	C2HCl3O	trichloroacetaldehyde	75-87-6	19.151	98.323	1,2	889	C2H4O2	acetic acid	64-19-7	20.613	57.577	1,2
549	C2HCl4F	1,1,1,2-tetrachloro-2-fluoroethane	354-11-0	17.834	114.372	2	890	C2H4O2	methyl formate	107-31-3	20.530	62.102	1,2
550	C2HCl4F	1,1,2,2-tetrachloro-1-fluoroethane	354-14-3	17.334	120.872	1,2	901	C2H4S	ethylene sulfide	420-12-2	21.708	59.702	1,2
551	C2HCl5	pentachloroethane	76-01-7	18.981	120.772	1,2	910	C2H5Br	bromoethane	74-96-4	18.475	75.149	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
914	C2H5Cl	ethyl chloride	75-00-3	17.728	71.202	1,2	1626	C3H4O2	acrylic acid	79-10-7	26.235	68.894	1,2
917	C2H5ClO	2-chloroethanol	107-07-3	26.399	67.319	1,2	1627	C3H4O2	beta-propiolactone	57-57-8	29.040	57.103	1,2
939	C2H5F	ethyl fluoride	353-36-6	17.503	58.753	1,2	1628	C3H4O2	vinyl formate	692-45-5	20.057	75.538	1,2
948	C2H5I	ethyl iodide	75-03-6	19.075	81.232	1,2	1633	C3H4O3	ethylene carbonate	96-49-1	29.905	66.534	1,2
954	C2H5N	ethyleneimine	151-56-4	24.609	51.828	1,2	1634	C3H4O3	pyruvic acid	127-17-3	27.759	69.615	1,2
956	C2H5NO	acetamide	60-35-5	32.525	58.935	1,2	1642	C3H5Br	cis-1-bromo-1-propene	590-13-6	18.165	85.213	1,2
957	C2H5NO	N-methylformamide	123-39-7	30.067	59.127	1,2	1643	C3H5Br	trans-1-bromo-1-propene	590-15-8	18.325	86.037	1,2
958	C2H5NO2	nitroethane	79-24-3	23.000	71.973	1,2	1644	C3H5Br	2-bromo-1-propene	557-93-7	17.420	87.645	1,2
985	C2H6	ethane	74-84-0	15.325	56.014	1,2	1645	C3H5Br	3-bromo-1-propene	106-95-6	18.865	87.096	1,2
986	C2H6AlCl	dimethylaluminum chloride	1184-58-3	20.103	93.628	1,2	1647	C3H5Br	1-bromo-1-propene; (cis+trans)	590-14-7	18.584	85.617	1,2
1065	C2H6O	ethyl alcohol	64-17-5	26.577	58.538	1,2	1663	C3H5Br3	1,1,1-tribromopropane	62127-61-1	20.557	120.131	1,2
1066	C2H6O	dimethyl ether	115-10-6	17.540	63.370	1,2	1664	C3H5Br3	1,1,2-tribromopropane	14602-62-1	21.106	119.733	1,2
1067	C2H6OS	dimethyl sulfoxide	67-68-5	26.333	71.356	1,2	1665	C3H5Br3	1,1,3-tribromopropane	23511-78-6	21.403	119.483	1,2
1072	C2H6O2	ethylene glycol	107-21-1	34.477	55.918	1,2	1666	C3H5Br3	1,2,2-tribromopropane	14476-30-3	20.261	123.296	1,2
1083	C2H6O4S	dimethyl sulfate	77-78-1	23.252	95.411	1,2	1667	C3H5Br3	1,2,3-tribromopropane	96-11-7	22.206	116.460	1,2
1084	C2H6O4S	ethyl sulfate	540-82-9	21.511	92.687	1,2	1668	C3H5Cl	cis-1-chloro-1-propene	16136-84-8	16.941	82.543	1,2
1092	C2H6S	ethyl mercaptan	75-08-1	18.273	74.593	1,2	1669	C3H5Cl	trans-1-chloro-1-propene	16136-85-9	17.171	82.551	1,2
1093	C2H6S	dimethyl sulfide	75-18-3	18.512	73.101	1,2	1670	C3H5Cl	2-chloro-1-propene	557-98-2	16.026	85.184	1,2
1094	C2H6S2	dimethyl disulfide	624-92-0	20.122	89.122	1,2	1671	C3H5Cl	3-chloro-1-propene	107-05-1	17.323	82.197	1,2
1115	C2H7N	ethylamine	75-04-7	19.498	65.601	1,2	1672	C3H5Cl	1-chloro-1-propene	590-21-6	16.341	83.270	1,2
1116	C2H7N	dimethylamine	124-40-3	19.008	67.278	1,2	1676	C3H5ClO	alpha-epichlorohydrin	106-89-8	22.522	78.811	1,2
1117	C2H7NO	monoethanolamine	141-43-5	31.201	60.241	1,2	1688	C3H5ClO2	methyl chloroacetate	96-34-4	22.354	88.303	1,2
1118	C2H7NO	1-aminoethanol	75-39-8	29.363	69.246	2	1689	C3H5ClO2	ethyl chloroformate	541-41-3	22.210	96.295	1,2
1159	C2H8N2	ethylenediamine	107-15-3	25.260	67.301	1,2	1703	C3H5Cl3	1,1,1-trichloropropane	7789-89-1	17.272	114.866	1,2
1168	C2H8Si	dimethyl silane	1111-74-6	13.790	94.476	1,2	1704	C3H5Cl3	1,1,2-trichloropropane	598-77-6	18.909	107.456	1,2
1210	C2N2	cyanogen	460-19-5	19.745	54.684	1,2	1705	C3H5Cl3	1,1,3-trichloropropane	20395-25-9	19.376	108.853	1,2
1284	C3F6	hexafluoropropylene	116-15-4	13.357	97.397	1,2	1706	C3H5Cl3	1,2,2-trichloropropane	3175-23-3	18.098	111.859	1,2
1287	C3F6O	hexafluoroacetone	684-16-2	13.498	108.119	1,2	1707	C3H5Cl3	1,2,3-trichloropropane	96-18-4	20.147	106.525	1,2
1299	C3F8	octafluoropropane	76-19-7	12.302	117.190	1,2	1711	C3H5F	cis-1-fluoro-1-propene	19184-10-2	16.828	72.150	1,2
1368	C3H2F6	1,1,1,2,2,3-hexafluoropropane	677-56-5	14.754	99.527	2	1712	C3H5F	trans-1-fluoro-1-propene	20327-65-5	16.828	72.150	1,2
1369	C3H2F6	1,1,1,2,3,3-hexafluoropropane	431-63-0	14.318	102.123	2	1713	C3H5F	2-fluoro-1-propene	1184-60-7	16.589	67.413	1,2
1370	C3H2F6	1,1,1,3,3,3-hexafluoropropane	690-39-1	14.398	100.473	2	1714	C3H5F	3-fluoro-1-propene	818-92-8	15.721	70.622	1,2
1371	C3H2F6	1,1,2,2,3,3-hexafluoropropane	680-00-2	14.580	102.974	2	1721	C3H5F3	1,1,1-trifluoropropane	421-07-8	15.213	85.404	1,2
1377	C3H2N2	malononitrile	109-77-3	31.480	56.082	1,2	1722	C3H5F3	1,1,2-trifluoropropane	---	15.211	87.295	2
1402	C3H3Cl	propargyl chloride	624-65-7	19.318	72.763	1,2	1723	C3H5F3	1,1,3-trifluoropropane	24270-67-5	15.324	87.035	2
1449	C3H3F5	1,1,1,2,2-pentafluoropropane	1814-88-6	14.477	90.055	2	1724	C3H5F3	1,2,2-trifluoropropane	811-94-9	15.096	86.835	2
1450	C3H3F5	1,1,1,2,3-pentafluoropropane	431-31-2	14.809	94.694	2	1725	C3H5F3	1,2,3-trifluoropropane	66794-36-3	15.324	87.035	2
1451	C3H3F5	1,1,1,3,3-pentafluoropropane	460-73-1	14.809	94.694	2	1734	C3H5I	cis-1-iodo-1-propene	7796-36-3	18.363	94.369	1,2
1452	C3H3F5	1,1,2,2,3-pentafluoropropane	679-86-7	15.118	101.551	2	1735	C3H5I	trans-1-iodo-1-propene	7796-54-5	18.363	94.369	1,2
1453	C3H3F5	1,1,2,3,3-pentafluoropropane	24270-66-4	15.225	101.551	2	1736	C3H5I	2-iodo-1-propene	4375-96-6	18.633	94.073	1,2
1462	C3H3N	acrylonitrile	107-13-1	21.866	66.247	1,2	1737	C3H5I	3-iodo-1-propene	556-56-9	17.373	91.342	1,2
1463	C3H3NO	oxazole	288-42-6	21.701	65.774	1,2	1742	C3H5I3	1,1,1-triiodopropane	---	19.571	146.916	2
1492	C3H4	methylacetylene	74-99-7	18.394	59.614	1,2	1743	C3H5I3	1,1,2-triiodopropane	---	19.793	146.786	2
1493	C3H4	allene	463-49-0	17.547	60.454	1,2	1744	C3H5I3	1,1,3-triiodopropane	---	19.940	146.786	2
1514	C3H4Br4	1,1,1,2-tetrabromopropane	62127-49-5	20.675	139.729	1,2	1745	C3H5I3	1,2,2-triiodopropane	---	19.571	146.916	2
1515	C3H4Br4	1,1,1,3-tetrabromopropane	62127-50-8	20.873	140.596	2	1746	C3H5I3	1,2,3-triiodopropane	---	19.940	146.786	2
1516	C3H4Br4	1,1,2,2-tetrabromopropane	34570-59-7	20.261	139.606	1,2	1752	C3H5N	propionitrile	107-12-0	21.862	70.888	1,2
1517	C3H4Br4	1,1,2,3-tetrabromopropane	34581-76-5	21.785	137.272	2	1753	C3H5N	ethyl isocyanide	624-79-3	20.583	74.654	1,2
1518	C3H4Br4	1,1,3,3-tetrabromopropane	51525-97-4	22.115	136.590	1,2	1755	C3H5NO	acrylamide	79-06-1	33.071	78.121	2
1519	C3H4Br4	1,2,2,3-tetrabromopropane	54268-02-9	21.841	133.710	1,2	1756	C3H5NO	hydracrylonitrile	109-78-4	31.786	68.345	1,2
1533	C3H4Cl2	2,3-dichloropropene	78-88-6	18.555	92.398	1,2	1757	C3H5NO	lactonitrile	78-97-7	30.175	72.308	1,2
1534	C3H4Cl2	1,1-dichloropropene	563-58-6	16.939	93.535	1,2	1760	C3H5NO	ethyl isocyanate	109-90-0	18.847	79.257	1,2
1535	C3H4Cl2	cis-1,2-dichloropropene	6923-20-2	18.616	92.834	2	1796	C3H5N3O9	nitroglycerine	55-63-0	25.029	143.183	1,2
1536	C3H4Cl2	trans-1,2-dichloropropene	7069-38-7	16.906	94.415	1,2	1809	C3H6	cyclopropane	75-19-4	17.334	60.188	1,2
1537	C3H4Cl2	cis-1,3-dichloropropene	10061-01-5	20.032	91.176	1,2	1810	C3H6	propylene	115-07-1	15.540	68.809	1,2
1538	C3H4Cl2	trans-1,3-dichloropropene	10061-02-6	20.897	91.698	1,2	1824	C3H6Br2	1,1-dibromopropane	598-17-4	20.019	102.222	1,2
1539	C3H4Cl2	3,3-dichloropropene	563-57-5	17.550	94.958	1,2	1825	C3H6Br2	1,2-dibromopropane	78-75-1	20.855	104.877	1,2
1540	C3H4Cl2	1,3-dichloropropene; (cis+trans)	542-75-6	20.340	91.786	1,2	1826	C3H6Br2	1,3-dibromopropane	109-64-8	21.335	102.414	1,2
1541	C3H4Cl2	1,2-dichloropropene	563-54-2	16.866	92.834	2	1827	C3H6Br2	2,2-dibromopropane	594-16-1	18.314	110.928	1,2
1542	C3H4Cl2	dichloropropylene	26952-23-8	18.447	92.834	2	1844	C3H6Cl2	1,1-dichloropropane	78-99-9	18.123	100.342	1,2
1565	C3H4Cl4	1,1,1,2-tetrachloropropane	812-03-3	18.120	124.147	1,2	1845	C3H6Cl2	1,2-dichloropropane	78-87-5	18.450	98.248	1,2
1566	C3H4Cl4	1,1,1,3-tetrachloropropane	1070-78-6	18.745	121.185	1,2	1846	C3H6Cl2	1,3-dichloropropane	142-28-9	19.819	95.669	1,2
1567	C3H4Cl4	1,1,2,2-tetrachloropropane	13116-60-4	18.492	121.250	1,2	1847	C3H6Cl2	2,2-dichloropropane	594-20-7	16.894	102.157	1,2
1568	C3H4Cl4	1,1,2,3-tetrachloropropane	18495-30-2	19.477	121.121	1,2	1848	C3H6Cl2	1,2-dichloropropane, (±)	26198-63-0	18.645	98.296	1,2
1569	C3H4Cl4	1,1,3,3-tetrachloropropane	1653-17-4	19.122	121.250	1,2	1849	C3H6Cl2	dichloropropane	26638-19-7	18.610	98.893	2
1570	C3H4Cl4	1,2,2,3-tetrachloropropane	13116-53-5	18.808	122.384	1,2	1865	C3H6F2	1,1-difluoropropane	430-61-5	15.965	84.033	1,2
1578	C3H4F4	1,1,1,2-tetrafluoropropane	421-48-7	15.084	90.708	2	1866	C3H6F2	1,2-difluoropropane	62126-90-3	16.391	81.682	1,2
1579	C3H4F4	1,1,1,3-tetrafluoropropane	460-36-6	16.004	92.227	1,2	1867	C3H6F2	1,3-difluoropropane	462-39-5	17.874	79.624	1,2
1580	C3H4F4	1,1,2,2-tetrafluoropropane	40723-63-5	15.465	96.173	2	1868	C3H6F2	2,2-difluoropropane	420-45-1	15.601	83.447	1,2
1581	C3H4F4	1,1,2,3-tetrafluoropropane	---	15.631	96.173	2	1871	C3H6I2	1,1-diiodopropane	10250-52-9	19.295	119.503	1,2
1582	C3H4F4	1,1,3,3-tetrafluoropropane	---	15.631	96.173	2	1872	C3H6I2	1,2-diiodopropane	598-29-8	20.860	115.312	1,2
1583	C3H4F4	1,2,2,3-tetrafluoropropane	813-75-2	15.543	96.173	2	1873	C3H6I2	1,3-diiodopropane	627-31-6	21.016	115.379	1,2
1585	C3H4I4	1,1,1,2-tetraiodopropane	66794-31-8	19.615	174.552	2	1874	C3H6I2	2,2-diiodopropane	630-13-7	18.809	119.503	1,2
1586	C3H4I4	1,1,1,3-tetraiodopropane	66794-32-9	19.567	175.982	2	1920	C3H6O	allyl alcohol	107-18-6	24.983	68.734	1,2
1587	C3H4I4	1,1,2,2-tetraiodopropane	66794-33-0	19.615	174.552	2	1921	C3H6O	methyl vinyl ether	107-25-5	17.360	75.445	1,2
1588	C3H4I4	1,1,2,3-tetraiodopropane	66794-21-6	20.162	173.130	2	1922	C3H6O	propionaldehyde	123-38-6	19.370	72.965	1,2
1589	C3H4I4	1,1,3,3-tetraiodopropane	66794-34-1	20.162	173.130	2	1923	C3H6O	acetone	67-64-1	20.054	73.893	1,2
1590	C3H4I4	1,2,2,3-tetraiodopropane	66794-20-5	19.567	175.982	2	1924	C3H6O	1,2-propylene oxide	75-56-9	19.107	70.571	1,2
1621	C3H4O	acrolein	107-02-8	20.471	67.223	1,2	1925	C3H6O	1,3-propylene oxide	503-30-0	20.482	64.966	1,2
1622	C3H4O	propargyl alcohol	107-19-7	28.132	59.327	1,2	1927	C3H6O	(S)-(-)-propylene oxide	16088-62-3	18.596	70.400	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
1928	C3H6O	(R)-(+)-propylene oxide	15448-47-2	19.779	70.700	2	2635	C4H5Cl	4-chloro-1,2-butadiene	25790-55-0	20.943	90.134	1,2
1930	C3H6O2	propanoic acid	79-09-4	21.592	74.979	1,2	2636	C4H5Cl	1-chloro-1,3-butadiene	627-22-5	18.084	92.791	1,2
1931	C3H6O2	ethyl formate	109-94-4	18.959	80.785	1,2	2695	C4H5N	trans-crotonitrile	627-26-9	21.670	83.136	1,2
1932	C3H6O2	methyl acetate	79-20-9	19.390	79.913	1,2	2696	C4H5N	cis-crotonitrile	1190-76-7	21.089	81.918	1,2
1942	C3H6O2S	3-mercaptopropionic acid	107-96-0	27.221	87.507	1,2	2697	C4H5N	methacrylonitrile	126-98-7	19.413	84.391	1,2
1948	C3H6O3	lactic acid	50-21-5	30.907	75.003	1,2	2698	C4H5N	vinylacetonitrile	109-75-1	21.561	80.930	1,2
1949	C3H6O3	methoxyacetic acid	625-45-6	29.220	76.990	1,2	2699	C4H5N	2-butenenitrile	4786-20-3	22.995	81.930	1,2
1950	C3H6O3	trioxane	110-88-3	22.265	76.707	1,2	2701	C4H5N	pyrrole	109-97-7	24.905	69.524	1,2
1967	C3H6S	thiacyclobutane	287-27-4	21.274	73.123	1,2	2713	C4H5NO2	methyl cyanoacetate	105-34-0	25.812	88.552	1,2
1968	C3H6S	2-methylthiacyclopropane	1072-43-1	19.382	78.963	1,2	2753	C4H6	cyclobutene	822-35-5	17.832	73.946	1,2
1978	C3H7Br	1-bromopropane	106-94-5	18.081	91.444	1,2	2754	C4H6	dimethylacetylene	503-17-3	17.467	78.851	1,2
1979	C3H7Br	2-bromopropane	75-26-3	17.066	95.938	1,2	2755	C4H6	ethylacetylene	107-00-6	16.557	80.923	1,2
1986	C3H7Cl	1-chloropropane	540-54-5	17.037	91.754	1,2	2756	C4H6	1,2-butadiene	590-19-2	16.367	81.603	1,2
1987	C3H7Cl	2-chloropropane	75-29-6	16.453	91.861	1,2	2757	C4H6	butadiene (1,3 butadiene)	106-99-0	15.613	83.048	1,2
2020	C3H7F	1-fluoropropane	460-13-9	16.708	74.125	1,2	2806	C4H6Cl2	1,3-dichloro-trans-2-butene	7415-31-8	19.224	108.410	1,2
2021	C3H7F	2-fluoropropane	420-26-8	15.889	78.901	1,2	2807	C4H6Cl2	1,4-dichloro-cis-2-butene	1476-11-5	20.275	105.216	1,2
2025	C3H7I	1-iodopropane	107-08-4	18.328	97.753	1,2	2808	C4H6Cl2	1,4-dichloro-trans-2-butene	110-57-6	20.377	105.305	1,2
2026	C3H7I	2-iodopropane	75-30-9	17.786	100.291	1,2	2809	C4H6Cl2	3,4-dichloro-1-butene	760-23-6	18.716	108.882	1,2
2030	C3H7N	allylamine	107-11-9	19.919	75.423	1,2	2810	C4H6Cl2	3-chloro-2-(chloromethyl)-1-propene	1871-57-4	19.314	106.593	1,2
2031	C3H7N	propyleneimine	75-55-8	20.468	71.191	1,2	2811	C4H6Cl2	1,3-dichloro-1-butene	52497-07-1	17.737	110.318	1,2
2036	C3H7NO	N,N-dimethylformamide	68-12-2	23.967	77.349	1,2	2812	C4H6Cl2	2,3-dichloro-1-butene	7013-11-8	16.577	110.730	1,2
2037	C3H7NO	N-methylacetamide	79-16-3	26.974	78.190	1,2	2813	C4H6Cl2	1,1-dichloro-2-butene	56800-09-0	17.772	111.023	1,2
2038	C3H7NO	N-ethylformamide	627-45-2	25.717	76.912	1,2	2814	C4H6Cl2	1,2-dichloro-2-butene	13602-13-6	18.423	108.249	1,2
2045	C3H7NO2	1-nitropropane	108-03-2	21.290	89.452	1,2	2815	C4H6Cl2	cis-1,3-dichloro-2-butene	10075-38-4	18.378	108.212	1,2
2046	C3H7NO2	2-nitropropane	79-46-9	20.472	90.635	1,2	2816	C4H6Cl2	cis-2,3-dichloro-2-butene	1587-26-4	17.965	108.092	1,2
2094	C3H8	propane	74-98-6	14.962	75.398	1,2	2817	C4H6Cl2	trans-2,3-dichloro-2-butene	1587-29-7	15.830	109.996	1,2
2129	C3H8O	propyl alcohol	71-23-8	24.832	74.933	1,2	2818	C4H6Cl2	1,1-dichloro-2-methyl-1-propene	6065-93-6	16.367	109.700	1,2
2130	C3H8O	isopropyl alcohol	67-63-0	23.322	76.751	1,2	2819	C4H6Cl2	3,3-dichloro-2-methyl-1-propene	22227-75-4	16.294	110.134	1,2
2131	C3H8O	methyl ethyl ether	540-67-0	16.029	84.046	1,2	2820	C4H6Cl2	1,4-dichloro-2-butene	764-41-0	21.247	108.542	2
2138	C3H8O2	2-methoxyethanol	109-86-4	23.741	79.266	1,2	2821	C4H6Cl2	1,3-dichloro-2-butene, cis and trans	926-57-8	18.235	107.663	1,2
2139	C3H8O2	methylal	109-87-5	17.192	89.105	1,2	2822	C4H6Cl2	dichlorobutene	11069-19-5	18.130	108.542	2
2140	C3H8O2	1,2-propanediol (propylene glycol)	57-55-6	30.428	73.664	1,2	2856	C4H6Cl4	1,1,1,2-tetrachlorobutane	39966-95-5	16.194	141.818	1,2
2141	C3H8O2	1,3-propanediol	504-63-2	31.176	72.334	1,2	2857	C4H6Cl4	1,2,2,3-tetrachlorobutane	79630-70-9	18.179	138.033	1,2
2143	C3H8O2	(R)-(-)-1,2-propanediol	4254-14-2	23.190	79.675	1,2	2858	C4H6Cl4	1,2,3,3-tetrachlorobutane	13138-51-7	17.998	138.870	1,2
2144	C3H8O2	(S)-(+)-1,2-propanediol	4254-15-3	23.190	79.675	1,2	2859	C4H6Cl4	1,1,1,2-tetrachloro-2-methylpropane	7086-07-9	14.950	159.647	2
2148	C3H8O3	glycerol	56-81-5	34.315	73.265	1,2	2860	C4H6Cl4	1,1,2,3-tetrachloro-2-methylpropane	18963-01-4	18.640	136.109	1,2
2156	C3H8O4S	ethyl methyl sulfate	814-40-4	20.194	114.416	1,2	2861	C4H6Cl4	1,2,3-trichloro-2-(chloromethyl)propane	18963-00-3	19.840	130.656	1,2
2158	C3H8S	propyl mercaptan	107-03-9	18.018	91.103	1,2	2862	C4H6Cl4	1,2,3,4-tetrachlorobutane	3405-32-1	18.110	137.156	2
2159	C3H8S	isopropyl mercaptan	75-33-2	17.007	94.144	1,2	2939.1	C4H6O	cis-crotonaldehyde	15798-64-8	19.748	82.752	1,2
2160	C3H8S	methyl ethyl sulfide	624-89-5	17.895	91.541	1,2	2940	C4H6O	trans-crotonaldehyde	123-73-9	21.172	82.752	1,2
2161	C3H8S2	bis(methylthio)methane	1618-26-4	21.856	100.824	2	2941	C4H6O	methacrolein	78-85-3	18.857	83.442	1,2
2200	C3H9N	propylamine	107-10-8	18.517	82.789	1,2	2942	C4H6O	2,5-dihydrofuran	1708-29-8	20.083	74.644	1,2
2201	C3H9N	isopropylamine	75-31-0	17.443	86.420	1,2	2944	C4H6O	divinyl ether	109-93-3	15.980	95.884	1,2
2202	C3H9N	methylethylamine	624-78-2	17.059	86.420	1,2	2946	C4H6O	3-buten-2-one	78-94-4	19.358	81.661	1,2
2203	C3H9N	trimethylamine	75-50-3	15.315	90.169	1,2	2956	C4H6O	crotonaldehyde	4170-30-3	22.525	82.170	1,2
2204	C3H9NO	1-amino-2-propanol	78-96-6	26.087	78.486	1,2	2958	C4H6O	2-methyl-1-propen-1-one	598-26-5	20.164	79.860	2
2205	C3H9NO	3-amino-1-propanol	156-87-6	29.634	77.275	1,2	2959	C4H6O	methyl vinyl ketone	78-94-4	22.906	79.860	2
2206	C3H9NO	methylethanolamine	109-83-1	25.938	80.418	1,2	2963	C4H6O2	2-butyne-1,4-diol	110-65-6	31.793	85.455	2
2207	C3H9NO	2-amino-1-propanol, (±)	6168-72-5	24.279	78.521	2	2965	C4H6O2	gamma-butyrolactone	96-48-0	25.592	76.525	1,2
2210	C3H9NO	s(+)-2-amino-1-propanol	2749-11-3	24.386	77.835	1,2	2966	C4H6O2	cis-2-butenoic acid	503-64-0	25.811	84.155	1,2
2211	C3H9NO	(R)-(-)-1-amino-2-propanol	2799-16-8	26.727	78.898	1,2	2967	C4H6O2	trans-2-butenoic acid	107-93-7	25.119	87.648	1,2
2212	C3H9NO	(S)-(+)-1-amino-2-propanol	2799-17-9	26.755	78.733	1,2	2968	C4H6O2	vinylacetic acid	625-38-7	23.127	85.577	1,2
2213	C3H9NO	(R)-(-)-2-amino-1-propanol	35320-23-1	24.348	78.078	1,2	2969	C4H6O2	methacrylic acid	79-41-4	21.056	85.070	1,2
2214	C3H9NO	2-aminopropanol	78-91-1	24.250	78.521	2	2970	C4H6O2	methyl acrylate	96-33-3	19.022	90.717	1,2
2241	C3H9O4P	trimethyl phosphate	512-56-1	20.387	116.536	1,2	2971	C4H6O2	vinyl acetate	108-05-4	18.422	92.970	1,2
2255	C3H10N2	1,2-propanediamine	78-90-0	22.436	86.596	1,2	2972	C4H6O2	allyl formate	1838-59-1	19.851	91.608	1,2
2257	C3H10N2	1,2-propanediamine, (±)	10424-38-1	22.809	85.372	1,2	2978	C4H6O2	cyclopropanecarboxylic acid	1759-53-1	27.415	79.475	1,2
2258	C3H10N2	1,3-propanediamine	109-76-2	22.021	83.853	1,2	2981	C4H6O2	crotonic acid	3724-65-0	23.688	85.339	1,2
2268	C3H10Si	trimethyl silane	993-07-7	13.012	116.561	1,2	2990	C4H6O3	acetic anhydride	108-24-7	22.437	94.791	1,2
2317	C4Cl4S	tetrachlorothiophene	6012-97-1	21.165	130.149	1,2	3006	C4H6O4	succinic acid	110-15-6	30.969	87.394	1,2
2318	C4Cl6	hexachloro-1,3-butadiene	87-68-3	18.091	167.583	1,2	3023	C4H6O5	diglycolic acid	110-99-6	29.356	110.392	2
2334	C4F8	octafluoro-2-butene	360-89-4	12.275	129.420	1,2	3024	C4H6O5	malic acid	6915-15-7	32.509	109.575	2
2335	C4F8	perfluoroisobutene	382-21-8	12.789	127.846	1,2	3033	C4H6O6	tartaric acid	87-69-4	36.762	101.254	2
2336	C4F8	octafluorocyclobutane	115-25-3	13.010	124.039	1,2	3047	C4H7Br	cis-1-bromo-1-butene	31849-78-2	17.775	102.907	1,2
2337	C4F8	1,1,2,3,3,4,4,4-octafluoro-1-butene	357-26-6	12.692	128.187	2	3048	C4H7Br	trans-1-bromo-1-butene	32620-08-9	18.117	102.829	1,2
2338.1	C4F8O	pentafluoroethyl trifluorovinyl ether	10493-43-3	12.744	147.152	2	3049	C4H7Br	2-bromo-1-butene	23074-36-4	17.472	103.348	1,2
2344	C4F10	decafluorobutane	355-25-9	11.869	148.607	1,2	3050	C4H7Br	3-bromo-1-butene	22037-73-6	18.523	101.813	1,2
2345	C4F10	perfluoroisobutane	354-92-7	11.050	145.361	1,2	3051	C4H7Br	4-bromo-1-butene	5162-44-7	18.336	102.532	1,2
2374	C4H2	biacetylene	460-12-8	20.877	69.093	2	3052	C4H7Br	1-bromo-cis-2-butene	39616-19-8	18.564	101.828	1,2
2420.1	C4H2N2	maleonitrile	928-53-0	29.697	68.164	2	3053	C4H7Br	1-bromo-trans-2-butene	29576-14-5	18.564	101.828	1,2
2430	C4H2O3	maleic anhydride	108-31-6	26.953	74.104	1,2	3054	C4H7Br	2-bromo-cis-2-butene	3017-68-3	17.701	102.532	1,2
2510	C4H4	vinylacetylene	689-97-4	17.038	73.993	1,2	3055	C4H7Br	2-bromo-trans-2-butene	3017-71-8	18.088	102.113	1,2
2562	C4H4N2	succinonitrile	110-61-2	28.397	81.048	1,2	3056	C4H7Br	1-bromo-2-methyl-1-propene	3017-69-4	17.880	102.813	1,2
2592	C4H4O	furan	110-00-9	18.560	72.808	1,2	3057	C4H7Br	3-bromo-2-methyl-1-propene	1458-98-6	18.019	103.372	1,2
2598	C4H4O2	diketene	674-82-8	23.016	80.071	1,2	3058	C4H7Br	1-bromo-2-butene	4784-77-4	19.613	100.967	1,2
2603	C4H4O3	succinic anhydride	108-30-5	26.110	88.409	1,2	3059	C4H7Br	2-bromo-2-butene; (cis+trans)	13294-71-8	17.778	101.966	1,2
2605	C4H4O4	fumaric acid	110-17-8	26.217	95.670	1,2	3083	C4H7Br3	1,1,1-tribromobutane	62127-62-2	19.751	137.942	2
2606	C4H4O4	maleic acid	110-16-7	32.433	80.580	1,2	3084	C4H7Br3	1,1,2-tribromobutane	3675-68-1	20.464	135.111	1,2
2613	C4H4S	thiophene	110-02-1	20.224	79.454	1,2	3085	C4H7Br3	1,1,3-tribromobutane	---	20.375	135.986	2
2634	C4H5Cl	chloroprene	126-99-8	17.003	93.196	1,2	3086	C4H7Br3	1,1,4-tribromobutane	---	20.524	136.055	2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
3087	C4H7Br3	1,2,2-tribromobutane	3675-69-2	19.801	138.367	1,2	3232	C4H7I3	2,2,3-triiodobutane	---	19.112	163.197	2
3088	C4H7Br3	1,2,3-tribromobutane	632-05-3	20.591	134.863	1,2	3233	C4H7I3	1,1,1-triiodo-2-methylpropane	---	19.112	163.197	2
3089	C4H7Br3	1,2,4-tribromobutane	38300-67-3	20.569	135.235	1,2	3234	C4H7I3	1,1,2-triiodo-2-methylpropane	---	19.112	163.197	2
3090	C4H7Br3	1,3,3-tribromobutane	62127-46-2	18.836	140.216	1,2	3235	C4H7I3	1,1,3-triiodo-2-methylpropane	---	19.450	163.197	2
3091	C4H7Br3	2,3,3-tribromobutane	62127-47-3	19.822	135.808	1,2	3236	C4H7I3	1,2,3-triiodo-2-methylpropane	---	19.079	164.411	2
3092	C4H7Br3	1,1,1-tribromo-2-methylpropane	---	19.940	136.292	2	3237	C4H7I3	1,3-diiodo-2-(iodomethyl)-propane	---	19.597	163.197	2
3093	C4H7Br3	1,1,2-tribromo-2-methylpropane	15331-16-5	20.425	136.265	2	3238	C4H7N	butyronitrile	109-74-0	20.455	87.922	1,2
3094	C4H7Br3	1,1,3-tribromo-2-methylpropane	---	20.375	135.986	2	3239	C4H7N	isobutyronitrile	78-82-0	20.012	90.217	1,2
3095	C4H7Br3	1,2,3-tribromo-2-methylpropane	631-28-7	20.103	136.632	1,2	3240	C4H7N	propyl isocyanide	627-36-1	19.553	91.824	1,2
3096	C4H7Br3	1,3-dibromo-2-(bromomethyl)propane	62127-48-4	20.522	137.762	1,2	3241	C4H7N	isopropyl isocyanide	598-45-8	18.751	93.602	1,2
3098	C4H7Cl	cis-1-chloro-1-butene	7611-86-1	16.790	100.224	1,2	3246	C4H7NO	acetone cyanohydrin	75-86-5	22.952	91.709	1,2
3099	C4H7Cl	trans-1-chloro-1-butene	7611-87-2	17.035	99.606	1,2	3247	C4H7NO	2-methacrylamide	79-39-0	23.439	95.773	2
3100	C4H7Cl	2-chloro-1-butene	2211-70-3	16.480	100.759	1,2	3248	C4H7NO	3-methoxypropionitrile	110-67-8	22.444	92.106	1,2
3101	C4H7Cl	3-chloro-1-butene	563-52-0	16.646	101.402	1,2	3249	C4H7NO	2-pyrrolidone	616-45-5	28.713	76.810	1,2
3102	C4H7Cl	4-chloro-1-butene	927-73-1	17.280	99.947	1,2	3254	C4H7NO	propyl isocyanate	110-78-1	18.517	93.729	1,2
3103	C4H7Cl	1-chloro-cis-2-butene	4628-21-1	17.958	96.682	1,2	3318	C4H8	methylcyclopropane	594-11-6	15.676	83.892	1,2
3104	C4H7Cl	1-chloro-trans-2-butene	4894-61-5	17.868	98.053	1,2	3319	C4H8	cyclobutane	287-23-0	16.428	80.066	1,2
3105	C4H7Cl	2-chloro-cis-2-butene	2211-69-0	16.934	99.181	1,2	3320	C4H8	1-butene	106-98-9	15.019	89.661	1,2
3106	C4H7Cl	2-chloro-trans-2-butene	2211-68-9	16.700	99.870	1,2	3321	C4H8	2-butene; (cis+trans)	107-01-7	15.828	86.258	1,2
3107	C4H7Cl	1-chloro-2-methyl-1-propene	513-37-1	16.984	99.224	1,2	3322	C4H8	cis-2-butene	590-18-1	15.548	87.398	1,2
3108	C4H7Cl	3-chloro-2-methyl-1-propene	563-47-3	17.252	98.426	1,2	3323	C4H8	trans-2-butene	624-64-6	15.187	89.428	1,2
3110	C4H7Cl	1-chloro-2-butene	591-97-9	18.307	97.473	1,2	3324	C4H8	isobutene	115-11-7	14.951	89.464	1,2
3111	C4H7Cl	2-chloro-2-butene	4461-41-0	16.686	97.788	1,2	3333	C4H8Br2	1,1-dibromobutane	62168-25-6	19.340	121.029	1,2
3156	C4H7Cl3	1,1,1-trichlorobutane	13279-85-1	17.184	131.159	1,2	3334	C4H8Br2	1,2-dibromobutane	533-98-2	20.120	120.961	1,2
3157	C4H7Cl3	1,1,2-trichlorobutane	---	18.030	126.559	2	3335	C4H8Br2	1,3-dibromobutane	107-80-2	19.874	121.138	1,2
3158	C4H7Cl3	1,1,3-trichlorobutane	13279-87-3	17.890	128.549	1,2	3336	C4H8Br2	1,4-dibromobutane	110-52-1	20.908	118.720	1,2
3159	C4H7Cl3	1,1,4-trichlorobutane	66250-03-1	18.150	126.562	2	3337	C4H8Br2	2,2-dibromobutane	50341-35-0	18.438	123.380	1,2
3160	C4H7Cl3	1,2,2-trichlorobutane	---	18.517	126.552	2	3338	C4H8Br2	DL-2,3-dibromobutane	598-71-0	19.286	121.056	1,2
3161	C4H7Cl3	1,2,3-trichlorobutane	18338-40-4	18.906	122.818	1,2	3339	C4H8Br2	meso-2,3-dibromobutane	5780-13-2	19.135	121.663	1,2
3162	C4H7Cl3	1,2,4-trichlorobutane	1790-22-3	19.037	123.129	1,2	3340	C4H8Br2	1,1-dibromo-2-methylpropane	33693-78-6	18.777	121.986	1,2
3163	C4H7Cl3	1,3,3-trichlorobutane	13280-60-9	17.902	126.558	2	3341	C4H8Br2	1,2-dibromo-2-methylpropane	594-34-3	18.609	123.254	1,2
3164	C4H7Cl3	2,3,3-trichlorobutane	10403-60-8	17.507	128.856	1,2	3342	C4H8Br2	1,3-dibromo-2-methylpropane	28148-04-1	19.968	119.993	1,2
3165	C4H7Cl3	1,1,1-trichloro-2-methylpropane	---	17.629	126.558	2	3343	C4H8Br2	2,3-dibromobutane	5408-86-6	19.795	120.996	1,2
3166	C4H7Cl3	1,1,2-trichloro-2-methylpropane	29559-52-2	17.656	127.362	1,2	3360	C4H8Cl2	1,1-dichlorobutane	541-33-3	17.502	117.604	1,2
3167	C4H7Cl3	1,1,3-trichloro-2-methylpropane	62108-65-0	17.839	127.012	1,2	3361	C4H8Cl2	1,2-dichlorobutane	616-21-7	18.113	114.261	1,2
3168	C4H7Cl3	1,2,3-trichloro-2-methylpropane	1871-58-5	18.614	124.083	1,2	3362	C4H8Cl2	1,3-dichlorobutane	1190-22-3	18.411	114.601	1,2
3169	C4H7Cl3	1,3-dichloro-2-(chloromethyl)-propane	2014-83-7	17.590	126.569	2	3363	C4H8Cl2	1,4-dichlorobutane	110-56-5	19.568	111.905	1,2
3177	C4H7F	cis-1-fluoro-1-butene	66675-34-1	15.594	91.976	1,2	3364	C4H8Cl2	2,2-dichlorobutane	4279-22-5	16.781	119.261	1,2
3178	C4H7F	trans-1-fluoro-1-butene	66675-35-2	15.594	91.976	1,2	3365	C4H8Cl2	DL-2,3-dichlorobutane	2211-67-8	17.790	114.932	1,2
3179	C4H7F	2-fluoro-1-butene	430-44-4	15.709	91.171	1,2	3366	C4H8Cl2	meso-2,3-dichlorobutane	4028-56-2	17.648	115.204	1,2
3180	C4H7F	3-fluoro-1-butene	---	15.450	90.392	2	3367	C4H8Cl2	1,1-dichloro-2-methylpropane	598-76-5	17.241	115.466	1,2
3181	C4H7F	4-fluoro-1-butene	---	15.540	90.373	2	3368	C4H8Cl2	1,2-dichloro-2-methylpropane	594-37-6	17.110	116.632	1,2
3182	C4H7F	cis-1-fluoro-2-butene	---	15.611	91.778	2	3369	C4H8Cl2	1,3-dichloro-2-methylpropane	616-19-3	18.393	115.466	1,2
3183	C4H7F	trans-1-fluoro-2-butene	---	15.611	91.778	2	3370	C4H8Cl2	2,3-dichlorobutane, dl and meso	7581-97-7	17.618	114.736	1,2
3184	C4H7F	cis-2-fluoro-2-butene	66675-38-5	15.679	92.623	1,2	3371	C4H8Cl2	mixo-dichlorobutane	26761-81-9	17.846	115.432	2
3185	C4H7F	trans-2-fluoro-2-butene	66675-39-6	15.679	92.623	1,2	3389	C4H8F2	1,1-difluorobutane	2358-38-5	15.788	103.412	1,2
3186	C4H7F	1-fluoro-2-methyl-1-propene	---	15.918	92.623	1,2	3390	C4H8F2	1,2-difluorobutane	686-65-7	16.323	100.111	1,2
3187	C4H7F	3-fluoro-2-methyl-1-propene	---	15.939	92.623	1,2	3391	C4H8F2	1,3-difluorobutane	691-42-9	16.947	98.026	1,2
3192	C4H7F3	1,1,1-trifluorobutane	460-34-4	14.355	109.239	1,2	3392	C4H8F2	1,4-difluorobutane	372-90-7	17.977	96.349	1,2
3193	C4H7F3	1,1,2-trifluorobutane	---	14.545	104.822	2	3393	C4H8F2	2,2-difluorobutane	353-81-1	14.891	105.074	1,2
3194	C4H7F3	1,1,3-trifluorobutane	---	14.545	104.822	2	3394	C4H8F2	2,3-difluorobutane	666-21-7	16.267	98.026	1,2
3195	C4H7F3	1,1,4-trifluorobutane	---	14.631	104.827	2	3395	C4H8F2	1,1-difluoro-2-methylpropane	62126-91-4	15.607	98.026	1,2
3196	C4H7F3	1,2,2-trifluorobutane	---	14.438	104.294	2	3396	C4H8F2	1,2-difluoro-2-methylpropane	62126-92-5	15.613	98.026	1,2
3197	C4H7F3	1,2,3-trifluorobutane	---	14.545	104.822	2	3397	C4H8F2	1,3-difluoro-2-methylpropane	62126-93-6	17.080	98.026	1,2
3198	C4H7F3	1,2,4-trifluorobutane	---	14.631	104.827	2	3401	C4H8I2	1,1-diiodobutane	66587-65-3	18.813	136.768	1,2
3199	C4H7F3	1,3,3-trifluorobutane	---	14.438	104.294	2	3402	C4H8I2	1,2-diiodobutane	53161-72-1	18.820	135.928	1,2
3200	C4H7F3	2,3,3-trifluorobutane	---	14.353	104.320	2	3403	C4H8I2	1,3-diiodobutane	18371-24-9	18.871	135.928	1,2
3201	C4H7F3	1,1,1-trifluoro-2-methylpropane	---	14.353	104.320	2	3404	C4H8I2	1,4-diiodobutane	628-21-7	19.299	131.907	1,2
3202	C4H7F3	1,1,2-trifluoro-2-methylpropane	---	14.353	104.320	2	3405	C4H8I2	2,2-diiodobutane	29443-50-3	18.535	135.928	1,2
3203	C4H7F3	1,1,3-trifluoro-2-methylpropane	---	14.545	104.822	2	3406	C4H8I2	2,3-diiodobutane	66587-66-4	18.732	135.928	1,2
3204	C4H7F3	1,3-difluoro-2-(fluoromethyl)-propane	---	14.631	104.827	2	3407	C4H8I2	1,1-diiodo-2-methylpropane	10250-55-2	18.732	135.928	1,2
3209	C4H7I	cis-1-iodo-1-butene	54068-75-6	19.605	110.978	1,2	3408	C4H8I2	1,2-diiodo-2-methylpropane	66794-23-8	18.535	135.928	1,2
3210	C4H7I	trans-1-iodo-1-butene	62154-92-1	18.281	110.978	1,2	3409	C4H8I2	1,3-diiodo-2-methylpropane	17616-44-3	18.871	135.928	1,2
3211	C4H7I	2-iodo-1-butene	24308-61-0	18.196	110.978	1,2	3474	C4H8O	1,2-epoxybutane	106-88-7	18.121	87.508	1,2
3212	C4H7I	3-iodo-1-butene	62154-74-9	18.179	110.978	1,2	3476	C4H8O	ethyl vinyl ether	109-92-2	16.123	96.271	1,2
3213	C4H7I	4-iodo-1-butene	7766-51-0	18.294	110.978	1,2	3477	C4H8O	3-methoxy-1-propene	627-40-7	17.222	95.749	1,2
3214	C4H7I	1-iodo-cis-2-butene	53121-23-6	18.439	110.910	1,2	3478	C4H8O	butyraldehyde	123-72-8	18.933	90.473	1,2
3215	C4H7I	1-iodo-trans-2-butene	38169-04-9	18.439	110.910	1,2	3479	C4H8O	isobutyraldehyde	78-84-2	18.238	91.973	1,2
3216	C4H7I	2-iodo-cis-2-butene	24298-09-7	17.754	110.978	1,2	3480	C4H8O	methyl ethyl ketone	78-93-3	19.019	90.246	1,2
3217	C4H7I	2-iodo-trans-2-butene	24298-08-6	17.754	110.978	1,2	3481	C4H8O	tetrahydrofuran	109-99-9	19.130	81.940	1,2
3218	C4H7I	1-iodo-2-methyl-1-propene	20687-01-8	17.754	110.978	1,2	3482	C4H8O	cis-crotonyl alcohol	4088-60-2	21.362	83.691	1,2
3219	C4H7I	3-iodo-2-methyl-1-propene	3756-30-7	17.418	112.348	1,2	3483	C4H8O	trans-2-buten-1-ol	504-61-0	21.085	85.068	1,2
3224	C4H7I3	1,1,1-triiodobutane	---	19.079	164.411	2	3484	C4H8O	2-buten-1-ol	6117-91-5	21.116	84.959	1,2
3225	C4H7I3	1,1,2-triiodobutane	---	19.450	163.197	2	3485	C4H8O	3-buten-1-ol	627-27-0	20.533	86.042	1,2
3226	C4H7I3	1,1,3-triiodobutane	---	19.450	163.197	2	3486	C4H8O	3-buten-2-ol, (±)	6118-14-5	19.537	87.133	1,2
3227	C4H7I3	1,1,4-triiodobutane	---	19.597	163.197	2	3487	C4H8O	2-methyl-2-propenol	513-42-8	20.699	85.127	1,2
3228	C4H7I3	1,2,2-triiodobutane	---	19.079	164.411	2	3493	C4H8O	3-buten-2-ol	598-32-3	19.562	86.771	1,2
3229	C4H7I3	1,2,3-triiodobutane	---	19.450	163.197	2	3504	C4H8O2	butyric acid	107-92-6	23.988	92.452	1,2
3230	C4H7I3	1,2,4-triiodobutane	---	19.597	163.197	2	3505	C4H8O2	isobutyric acid	79-31-2	23.153	93.136	1,2
3231	C4H7I3	1,3,3-triiodobutane	---	19.079	164.411	2	3506	C4H8O2	propyl formate	110-74-7	18.204	97.896	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
3507	C4H8O2	isopropyl formate	625-55-8	17.101	101.237	1,2	3905	C4H10O2	2-methyl-1,3-propanediol	2163-42-0	25.155	88.790	1,2
3508	C4H8O2	ethyl acetate	141-78-6	18.350	98.553	1,2	3906	C4H10O2	3-methoxy-1-propanol	1589-49-7	21.980	94.454	2
3509	C4H8O2	methyl propanoate	554-12-1	18.628	96.927	1,2	3918	C4H10O3	diethylene glycol	111-46-6	27.781	95.262	1,2
3510	C4H8O2	1,4-dioxane	123-91-1	20.523	85.623	1,2	3937	C4H10O4S	diethyl sulfate	64-67-5	19.327	131.559	1,2
3511	C4H8O2	cis-2-butene-1,4-diol	6117-80-2	31.695	82.342	1,2	3938	C4H10O4S	methyl propyl sulfate	5867-91-4	19.707	130.116	1,2
3512	C4H8O2	trans-2-butene-1,4-diol	821-11-4	31.609	82.888	1,2	3942	C4H10S	butyl mercaptan	109-79-5	17.934	107.753	1,2
3513	C4H8O2	3-butene-1,2-diol	497-06-3	27.393	84.527	1,2	3943	C4H10S	isobutyl mercaptan	513-44-0	17.271	108.662	1,2
3526	C4H8O2	2-butene-1,4-diol	110-64-5	20.668	82.342	1,2	3944	C4H10S	sec-butyl mercaptan	513-53-1	17.054	109.320	1,2
3533	C4H8O2	R,S-3-butene-1,2-diol	86161-40-2	21.005	84.718	1,2	3945	C4H10S	tert-butyl mercaptan	75-66-1	15.798	113.446	1,2
3535.1	C4H8O2	4-hydroxybutraldehyde	25714-71-0	26.707	81.516	1,2	3946	C4H10S	2-butanethiol	91840-99-2	17.052	109.354	1,2
3535.2	C4H8O2	3-hydroxy-2-methyl propionaldehyde	38433-80-6	26.281	89.747	2	3947	C4H10S	diethyl sulfide	352-93-2	17.504	108.401	1,2
3536	C4H8O2S	sulfolane	126-33-0	26.339	95.017	1,2	3948	C4H10S	methyl propyl sulfide	3877-15-4	17.661	107.753	1,2
3581	C4H8S	tetrahydrothiophene	110-01-0	20.546	88.439	1,2	3949	C4H10S	methyl isopropyl sulfide	1551-21-9	16.984	109.320	1,2
3583	C4H8S	2-ethylthiacyclopropane	3195-86-6	18.918	95.633	1,2	3950	C4H10S2	diethyl disulfide	110-81-6	18.583	123.740	1,2
3584	C4H8S	2,2-dimethylthiacyclopropane	3772-13-2	17.941	96.894	1,2	3951	C4H10S2	1,2-bis(methylthio)ethane	6628-18-8	20.015	118.422	1,2
3585	C4H8S	2,cis-3-dimethylthiacyclopropane	5954-71-2	17.187	96.894	1,2	3954	C4H10S2	methyl propyl disulfide	2179-60-4	19.282	124.750	1,2
3586	C4H8S	2,trans-3-dimethylthiacyclopropane	5955-98-6	17.187	96.894	1,2	3977	C4H11N	butylamine	109-73-9	18.282	98.702	1,2
3598	C4H9Br	1-bromobutane	109-65-9	18.423	107.974	1,2	3978	C4H11N	isobutylamine	78-81-9	17.667	100.190	1,2
3599	C4H9Br	2-bromobutane	78-76-2	17.517	109.353	1,2	3979	C4H11N	sec-butylamine	13952-84-6	17.287	101.581	1,2
3600	C4H9Br	1-bromo-2-methylpropane	78-77-3	17.457	108.996	1,2	3980	C4H11N	tert-butylamine	75-64-9	15.734	106.306	1,2
3601	C4H9Br	2-bromo-2-methylpropane	507-19-7	16.245	112.941	1,2	3981	C4H11N	2-butanamine, (.+/-.)-	33966-50-6	17.432	101.691	1,2
3602	C4H9Br	2-bromobutane, (±)	5787-31-5	17.684	109.500	1,2	3982	C4H11N	methyl-propylamine	627-35-0	17.083	102.722	1,2
3610	C4H9Cl	1-chlorobutane	109-69-3	17.298	105.191	1,2	3983	C4H11N	methylisopropylamine	4747-21-1	17.916	103.012	1,2
3611	C4H9Cl	1-chloro-2-methylpropane	513-36-0	16.510	106.168	1,2	3984	C4H11N	diethylamine	109-89-7	16.472	104.186	1,2
3612	C4H9Cl	2-chlorobutane	78-86-4	16.460	106.645	1,2	3985	C4H11N	dimethylethylamine	598-56-1	14.440	109.702	1,2
3613	C4H9Cl	2-chloro-2-methylpropane	507-20-0	15.298	110.727	1,2	3986	C4H11N	(R)-(-)-sec-butylamine	13250-12-9	17.141	101.300	1,2
3614	C4H9Cl	2-chlorobutane	53178-20-4	16.640	106.705	1,2	3987	C4H11N	(S)-(+)-sec-butylamine	513-49-5	17.444	100.465	1,2
3657	C4H9F	1-fluorobutane	2366-52-1	15.632	98.504	1,2	3988	C4H11NO	dimethylethanolamine	108-01-0	22.792	101.063	1,2
3658	C4H9F	2-fluorobutane	359-01-3	14.981	100.680	1,2	3989	C4H11NO	3-amino-1-butanol	2867-59-6	21.314	97.954	2
3659	C4H9F	1-fluoro-2-methylpropane	359-00-2	14.802	99.783	1,2	3990	C4H11NO	3-amino-2-butanol	42551-55-3	21.976	95.403	1,2
3660	C4H9F	2-fluoro-2-methylpropane	353-61-7	14.444	101.200	1,2	3991	C4H11NO	4-amino-1-butanol	13325-10-5	25.384	93.624	1,2
3666	C4H9I	1-iodobutane	542-69-8	19.959	114.497	1,2	3992	C4H11NO	2-amino-1-butanol, (±)-	13054-87-0	22.839	97.858	1,2
3667	C4H9I	2-iodobutane	513-48-4	19.310	115.787	1,2	3993	C4H11NO	2-amino-2-methyl-1-propanol	124-68-5	22.231	96.059	1,2
3668	C4H9I	1-iodo-2-methylpropane	513-38-2	19.361	115.359	1,2	3995	C4H11NO	2-(ethylamino)ethanol	110-73-6	22.259	98.092	1,2
3669	C4H9I	2-iodo-2-methylpropane	558-17-8	16.233	119.805	1,2	3998	C4H11NO	4-amino-2-butanol	39884-48-5	21.547	95.847	1,2
3670	C4H9I	2-iodobutane, (±)	52152-71-3	19.804	116.134	1,2	3999	C4H11NO	1-amino-2-butanol	13552-21-1	22.237	97.954	2
3675	C4H9N	pyrrolidine	123-75-1	20.706	82.701	1,2	4000	C4H11NO	4-aminobutan-2-ol	39884-48-5	21.547	95.847	1,2
3681	C4H9NO	N,N-dimethylacetamide	127-19-5	22.358	92.980	1,2	4001	C4H11NO	(S)-(+)-2-amino-1-butanol	5856-62-2	20.789	102.537	1,2
3682	C4H9NO	morpholine	110-91-8	21.794	87.472	1,2	4002	C4H11NO	(R)-(-)-2-amino-1-butanol	5856-63-3	22.952	94.126	1,2
3697	C4H9NO2	1-nitrobutane	627-05-4	20.449	106.530	1,2	4003	C4H11NO	2-aminobutan-1-ol	96-20-8	23.183	94.426	1,2
3698	C4H9NO2	2-nitrobutane	600-24-8	19.766	105.441	1,2	4005	C4H11NO	1-amino-2-methyl-2-propanol	2854-16-2	21.372	95.950	1,2
3699	C4H9NO2	1-nitro-2-methylpropane	625-74-1	19.746	107.588	1,2	4006	C4H11NO2	diethanolamine	111-42-2	29.475	96.324	1,2
3700	C4H9NO2	2-nitro-2-methylpropane	594-70-7	19.000	108.324	1,2	4007	C4H11NO2	2-aminoethoxyethanol	929-06-6	28.656	100.035	1,2
3715	C4H9NO2	2-nitrobutane, (±)	116781-85-2	20.187	105.536	1,2	4008	C4H11NO2	2-amino-2-methyl-1,3-propanediol	115-69-5	22.350	108.356	2
3783	C4H10	butane	106-97-8	14.454	96.533	1,2	4010	C4H11NO2	3-methylamino-1,2-propanediol	40137-22-2	23.571	100.426	1,2
3784	C4H10	isobutane	75-28-5	14.026	97.709	1,2	4070	C4H12N2	1,4-butanediamine	110-60-1	20.766	100.781	1,2
3830	C4H10N2	piperazine	110-85-0	19.623	108.402	2	4071	C4H12N2	2,3-butanediamine, (R*,R*)-(±)	20699-48-3	19.343	103.722	1,2
3865	C4H10O	butanol	71-36-3	22.632	91.964	1,2	4072	C4H12N2	N,N'-dimethyl-1,2-ethanediamine	110-70-3	18.704	107.503	1,2
3866	C4H10O	isobutanol	78-83-1	22.895	93.002	1,2	4073	C4H12N2	N-ethyl-1,2-ethanediamine	110-72-5	19.833	105.321	1,2
3867	C4H10O	sec-butanol	78-92-2	22.537	92.078	1,2	4074	C4H12N2	2-methyl-1,2-propanediamine	811-93-8	19.247	104.820	1,2
3868	C4H10O	tert-butanol	75-65-0	21.598	94.746	1,2	4077	C4H12N2	1,3-butanediamine	590-88-5	21.983	103.710	1,2
3869	C4H10O	diethyl ether	60-29-7	15.530	104.693	1,2	4078	C4H12N2	N,N-dimethylethylenediamine	108-00-9	17.163	109.780	1,2
3870	C4H10O	methyl propyl ether	557-17-5	16.955	102.521	1,2	4079	C4H12N2	3-(methylamino)propylamine	6291-84-5	21.167	104.447	1,2
3871	C4H10O	methyl isopropyl ether	598-53-8	15.322	103.813	1,2	4080	C4H12N2O	N-aminoethyl ethanolamine	111-41-1	29.171	101.911	1,2
3872	C4H10O	(R)-(-)-2-butanol	14898-79-4	21.423	92.193	1,2	4110	C4H12Si	tetramethylsilane	75-76-3	12.609	137.635	1,2
3873	C4H10O	(S)-(+)-2-butanol	4221-99-2	21.389	92.422	1,2	4118	C4H13N3	diethylene triamine	111-40-0	23.445	108.143	1,2
3874	C4H10O	(<+->)-2-butanol	15892-23-6	20.892	96.084	2	4169	C5Cl6	hexachlorocyclopentadiene	77-47-4	19.186	160.170	1,2
3881	C4H10O2	t-butyl hydroperoxide	75-91-2	21.169	101.718	1,2	4175	C5F8	octafluorocyclopentene	559-40-0	12.379	134.204	1,2
3882	C4H10O2	1,2-dimethoxyethane	110-71-4	17.733	104.188	1,2	4327	C5H4O2	furfural	98-01-1	23.642	83.191	1,2
3883	C4H10O2	2-ethoxyethanol	110-80-5	21.543	97.429	1,2	4391	C5H5N	pyridine	110-86-1	21.810	80.798	1,2
3884	C4H10O2	1,2-butanediol	584-03-2	27.420	90.240	1,2	4447	C5H6	cyclopentadiene	542-92-7	17.046	82.939	1,2
3885	C4H10O2	1,3-butanediol	107-88-0	28.444	89.942	1,2	4448	C5H6	2-methyl-1-butene-3-yne	78-80-8	15.588	94.567	1,2
3886	C4H10O2	1,4-butanediol	110-63-4	30.380	88.966	1,2	4449	C5H6	1-pentene-3-yne	646-05-9	17.270	90.058	1,2
3887	C4H10O2	DL-2,3-butanediol	6982-25-8	26.619	91.300	1,2	4450	C5H6	1-pentene-4-yne	871-28-3	16.439	91.302	1,2
3888	C4H10O2	meso-2,3-butanediol	5341-95-7	26.631	90.675	1,2	4451	C5H6	cis-3-penten-1-yne	1574-40-9	16.757	89.509	2
3889	C4H10O2	2-methyl-1,2-propanediol	558-43-0	26.324	91.033	1,2	4452	C5H6	trans-3-penten-1-yne	2004-69-5	17.609	89.509	2
3890	C4H10O2	1-methyl-1,3-propanediol	18826-95-4	27.741	94.424	2	4490	C5H6N2	glutaronitrile	544-13-8	26.834	95.939	1,2
3891	C4H10O2	1,2-butanediol, (±)	26171-83-5	23.521	90.355	1,2	4534	C5H6O	2-methylfuran	534-22-5	17.935	90.467	1,2
3893.1	C4H10O2	n-butylhydroperoxide	4813-50-7	23.995	99.948	1,2	4535	C5H6O	3-methylfuran	930-27-8	18.080	89.739	1,2
3894	C4H10O2	2-methoxy-1-propanol	1589-47-5	20.161	96.647	1,2	4548	C5H6O2	furfuryl alcohol	98-00-0	25.789	87.047	1,2
3895	C4H10O2	propylene glycol monomethyl ether	107-98-2	21.874	94.248	1,2	4567	C5H6O3	glutaric anhydride	108-55-4	29.001	82.738	1,2
3896	C4H10O2	(2S,3S)-(+)-2,3-butanediol	19132-06-0	22.783	91.309	1,2	4576	C5H6O4	citraconic acid	498-23-7	33.518	84.318	1,2
3897	C4H10O2	(2R,3R)-(-)-2,3-butanediol	24347-58-8	21.928	98.922	1,2	4577	C5H6O4	itaconic acid	97-65-4	30.170	93.348	1,2
3898	C4H10O2	(S)-(+)-1,3-butanediol	24621-61-2	24.335	89.942	1,2	4587	C5H6S	2-methylthiophene	554-14-3	19.269	96.813	1,2
3899	C4H10O2	2,3-butanediol	513-85-9	23.096	89.942	1,2	4588	C5H6S	3-methylthiophene	616-44-4	19.419	96.623	1,2
3900	C4H10O2	(R)-(-)-1,3-butanediol	6290-03-5	24.335	89.942	1,2	4658	C5H7N	N-methylpyrrole	96-54-8	20.642	89.831	1,2
3901	C4H10O2	(S)-(+)-2-methoxypropanol	116422-39-0	21.793	96.079	1,2	4659	C5H7N	2-methylpyrrole	636-41-9	24.569	86.799	1,2
3902	C4H10O2	methoxypropanol	1320-67-8	21.581	98.066	1,2	4660	C5H7N	3-methylpyrrole	616-43-3	23.011	93.690	2
3903	C4H10O2	(S)-(+)-1-methoxy-2-propanol	26550-55-0	21.583	97.959	1,2	4677	C5H7NO2	ethyl cyanoacetate	105-56-6	27.260	106.915	1,2
3904	C4H10O2	(R)-(-)-1-methoxy-2-propanol	4984-22-9	21.583	97.959	1,2	4736	C5H8	spiropentane	157-40-4	16.424	92.678	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
4737	C5H8	cyclopentene	142-29-0	17.160	88.812	1,2	4988	C5H9Br	4-bromo-3-methyl-1-butene	31950-55-7	16.952	122.156	1,2
4738	C5H8	isoprene	78-79-5	15.450	100.916	1,2	4989	C5H9Br	1-bromo-2-methyl-cis-2-butene	57253-29-9	17.871	119.224	1,2
4739	C5H8	3-methyl-1,2-butadiene	598-25-4	15.865	100.027	1,2	4990	C5H9Br	1-bromo-2-methyl-trans-2-butene	57253-30-2	17.871	119.224	1,2
4740	C5H8	1,2-pentadiene	591-95-7	16.111	99.009	1,2	4991	C5H9Br	1-bromo-3-methyl-2-butene	870-63-3	17.614	116.576	1,2
4741	C5H8	cis-1,3-pentadiene	1574-41-0	16.014	99.298	1,2	4992	C5H9Br	2-bromo-3-methyl-2-butene	3017-70-7	17.792	116.248	1,2
4742	C5H8	trans-1,3-pentadiene	2004-70-8	15.634	101.518	1,2	4993	C5H9Br	3-bromo-2-ethyl-1-propene	---	17.391	116.430	1,2
4743	C5H8	1,4-pentadiene	591-93-5	14.548	104.316	1,2	4995	C5H9Br	1-bromo-1-pentene	60468-23-7	18.366	118.863	1,2
4744	C5H8	2,3-pentadiene	591-96-8	16.469	98.722	1,2	4996	C5H9Br	1-bromo-2-pentene	20599-27-3	18.816	119.438	1,2
4745	C5H8	1-pentyne	627-19-0	16.105	99.009	1,2	4997	C5H9Br	2-bromo-2-pentene	80204-19-9	17.542	117.435	1,2
4746	C5H8	2-pentyne	627-21-4	17.167	96.622	1,2	4998	C5H9Br	3-bromo-2-pentene	21964-23-8	18.129	117.803	1,2
4747	C5H8	3-methyl-1-butyne	598-23-2	15.176	103.210	1,2	4999	C5H9Br	4-bromo-2-pentene	1809-26-3	18.056	121.560	1,2
4751	C5H8	1,3-pentadiene; (cis+trans)	504-60-9	15.583	99.734	1,2	5000	C5H9Br	5-bromo-2-pentene	51952-42-2	18.013	117.849	1,2
4770	C5H8Cl2	3-chloro-2-(chloromethyl)-1-butene	69295-21-2	18.243	124.303	1,2	5022	C5H9Br3	1,1,1-tribromopentane	16644-66-9	19.052	157.041	2
4771	C5H8Cl2	1,3-dichloro-2-methyl-2-butene	25148-87-2	18.089	123.645	1,2	5023	C5H9Cl	cis-1-chloro-1-pentene	66213-69-2	16.669	115.813	1,2
4772	C5H8Cl2	1,4-dichloro-2-methyl-2-butene	29843-58-1	18.356	121.155	1,2	5024	C5H9Cl	trans-1-chloro-1-pentene	66213-70-5	16.669	115.813	1,2
4773	C5H8Cl2	3,3-dichloro-2-methyl-1-butene	42101-38-2	18.141	124.044	1,2	5025	C5H9Cl	2-chloro-1-pentene	42131-85-1	16.586	115.941	1,2
4774	C5H8Cl2	2,5-dichloro-2-pentene	20177-02-0	18.002	125.400	1,2	5026	C5H9Cl	3-chloro-1-pentene	24356-00-1	16.685	116.913	1,2
4797	C5H8Cl4	2,2-bis(chloromethyl)-1,3-dichloropropane	3228-99-7	16.592	167.709	2	5027	C5H9Cl	4-chloro-1-pentene	10524-08-0	16.688	118.921	1,2
4798	C5H8Cl4	1,1,1,5-tetrachloropentane	2467-10-9	17.963	156.028	1,2	5028	C5H9Cl	5-chloro-1-pentene	928-50-7	17.274	115.277	1,2
4845	C5H8N4O12	pentaerythritol tetranitrate	78-11-5	20.429	206.010	1,2	5029	C5H9Cl	1-chloro-cis-2-pentene	6261-19-4	17.382	116.251	1,2
4848	C5H8O	cyclopentanone	120-92-3	21.497	89.014	1,2	5030	C5H9Cl	1-chloro-trans-2-pentene	6261-25-2	17.580	114.107	1,2
4849	C5H8O	methyl isopropenyl ketone	814-78-8	18.577	99.430	1,2	5031	C5H9Cl	2-chloro-cis-2-pentene	42131-98-6	16.684	116.199	1,2
4861	C5H8O	trans-2-methyl-2-butenal	497-03-0	19.427	97.096	1,2	5032	C5H9Cl	2-chloro-trans-2-pentene	42132-00-3	16.684	116.199	1,2
4862	C5H8O	2-methyl-2-butenal	1115-11-3	19.427	97.096	1,2	5033	C5H9Cl	3-chloro-cis-2-pentene	26423-60-9	16.550	117.044	1,2
4863	C5H8O	3-methyl-2-butenal	107-86-8	20.334	96.963	1,2	5034	C5H9Cl	3-chloro-trans-2-pentene	26423-61-0	16.550	117.044	1,2
4864	C5H8O	4-pentenal	2100-17-6	18.329	99.250	1,2	5035	C5H9Cl	4-chloro-cis-2-pentene	26423-63-2	16.801	116.874	1,2
4871	C5H8O	trans-3-penten-2-one	3102-33-8	19.543	98.109	1,2	5036	C5H9Cl	4-chloro-trans-2-pentene	18610-33-8	16.801	116.874	1,2
4872	C5H8O	1-penten-3-one	1629-58-9	18.434	99.903	1,2	5037	C5H9Cl	5-chloro-cis-2-pentene	53543-44-5	17.341	116.328	1,2
4874	C5H8O	2-ethylacrolein	922-63-4	18.142	97.925	1,2	5038	C5H9Cl	5-chloro-trans-2-pentene	10524-07-9	17.341	116.328	1,2
4876	C5H8O	trans-2-pentenal	1576-87-0	19.509	97.812	1,2	5039	C5H9Cl	cis-1-chloro-2-methyl-1-butene	7611-88-3	16.610	116.199	1,2
4877	C5H8O	3-penten-2-one	625-33-2	19.586	97.925	1,2	5040	C5H9Cl	trans-1-chloro-2-methyl-1-butene	7611-89-4	16.610	116.199	1,2
4880	C5H8O	2-pentenal	764-39-6	19.768	97.216	2	5041	C5H9Cl	3-chloro-2-methyl-1-butene	5166-35-8	16.711	115.749	1,2
4882	C5H8O2	acetylacetone	123-54-6	21.247	103.107	1,2	5042	C5H9Cl	4-chloro-2-methyl-1-butene	10523-96-3	17.078	116.199	1,2
4883	C5H8O2	allyl acetate	591-87-7	17.944	108.587	1,2	5043	C5H9Cl	cis-1-chloro-3-methyl-1-butene	66213-67-0	16.705	116.199	1,2
4884	C5H8O2	isopropenyl acetate	108-22-5	17.445	110.792	1,2	5044	C5H9Cl	trans-1-chloro-3-methyl-1-butene	66213-68-1	16.705	116.199	1,2
4885	C5H8O2	vinyl propionate	105-38-4	18.515	100.311	2	5045	C5H9Cl	2-chloro-3-methyl-1-butene	17773-64-7	16.540	116.199	1,2
4886	C5H8O2	methyl cis-2-butenoate	4358-59-2	19.279	100.315	2	5046	C5H9Cl	3-chloro-3-methyl-1-butene	2190-48-9	15.860	119.029	1,2
4887	C5H8O2	methyl trans-2-butenoate	623-43-8	18.850	106.661	1,2	5047	C5H9Cl	4-chloro-3-methyl-1-butene	10524-01-3	16.700	116.199	1,2
4888	C5H8O2	ethyl acrylate	140-88-5	18.278	109.060	1,2	5048	C5H9Cl	1-chloro-2-methyl-cis-2-butene	23009-74-7	17.520	112.741	1,2
4889	C5H8O2	methyl methacrylate	80-62-6	18.606	106.849	1,2	5049	C5H9Cl	1-chloro-2-methyl-trans-2-butene	23009-73-6	17.371	113.279	1,2
4890	C5H8O2	2-methylenebutanoic acid	3586-58-1	21.797	101.027	1,2	5050	C5H9Cl	1-chloro-3-methyl-2-butene	503-60-6	17.555	113.205	1,2
4891	C5H8O2	trans-2-methyl-2-butenoic acid	80-59-1	21.382	102.733	1,2	5051	C5H9Cl	2-chloro-3-methyl-2-butene	17773-65-8	16.709	115.646	1,2
4892	C5H8O2	cis-2-methyl-2-butenoic acid	565-63-9	21.460	101.430	1,2	5052	C5H9Cl	3-chloro-2-ethyl-1-propene	---	16.641	116.199	1,2
4893	C5H8O2	2-methyl-3-butenoic acid	53774-20-2	21.668	100.344	2	5053	C5H9Cl	1-chloro-2-methyl-1-butene	23378-11-2	16.988	114.720	1,2
4894	C5H8O2	3-methyl-2-butenoic acid	541-47-9	21.107	103.841	1,2	5054	C5H9Cl	1-chloro-2-methyl-2-butene	13417-43-1	18.622	112.799	1,2
4895	C5H8O2	3-methyl-3-butenoic acid	1617-31-8	21.696	100.343	2	5055	C5H9Cl	1-chloro-3-methyl-1-butene	23010-00-6	15.995	115.572	2
4896	C5H8O2	trans-2-pentenoic acid	13991-37-2	22.209	102.036	1,2	5056	C5H9Cl	1-chloro-2-pentene	10071-60-0	18.166	115.582	1,2
4897	C5H8O2	cis-2-pentenoic acid	16666-42-5	21.934	100.607	2	5057	C5H9Cl	2-chloro-2-pentene	67747-70-0	16.841	116.016	1,2
4898	C5H8O2	trans-3-pentenoic acid	1617-32-9	22.213	100.343	2	5058	C5H9Cl	3-chloro-2-pentene	34238-52-3	16.397	115.282	1,2
4899	C5H8O2	cis-3-pentenoic acid	33698-87-2	20.128	100.607	2	5059	C5H9Cl	4-chloro-2-pentene	1458-99-7	17.500	117.030	1,2
4900	C5H8O2	4-pentenoic acid	591-80-0	21.990	102.684	1,2	5060	C5H9Cl	5-chloro-2-pentene	16435-50-0	18.108	116.322	1,2
4918	C5H8O2	methyl 3-butenoate	3724-55-8	19.934	106.621	1,2	5100	C5H9Cl3	1,1,1-trichloropentane	3922-27-8	16.970	148.213	1,2
4927	C5H8O3	2-hydroxyethyl acrylate	818-61-1	23.645	115.195	1,2	5101	C5H9Cl3	1,2,3-trichloro-2-methylbutane	62521-69-1	18.509	140.775	1,2
4928	C5H8O3	levulinic acid	123-76-2	25.314	103.573	1,2	5102	C5H9Cl3	2,2,3-trichloro-3-methylbutane	98070-91-8	18.122	145.808	1,2
4929	C5H8O3	methyl acetoacetate	105-45-3	21.681	108.318	1,2	5103	C5H9Cl3	1,3-dichloro-2-(chloromethyl)-2-methylpropane	1067-09-0	18.274	138.068	1,2
4945	C5H8O4	glutaric acid	110-94-1	31.128	98.085	1,2	5109	C5H9F	cis-1-fluoro-1-pentene	66213-83-0	15.341	109.066	1,2
4964	C5H9Br	cis-1-bromo-1-pentene	31849-75-9	17.524	121.065	1,2	5110	C5H9F	trans-1-fluoro-1-pentene	66213-84-1	15.341	109.066	1,2
4965	C5H9Br	trans-1-bromo-1-pentene	31849-76-0	17.524	121.065	1,2	5111	C5H9F	2-fluoro-1-pentene	66213-89-6	14.971	108.796	1,2
4966	C5H9Br	2-bromo-1-pentene	31844-95-8	17.155	121.956	1,2	5112	C5H9F	3-fluoro-1-pentene	66702-88-3	14.945	108.796	1,2
4967	C5H9Br	3-bromo-1-pentene	53045-71-9	17.195	122.156	1,2	5113	C5H9F	4-fluoro-1-pentene	66702-91-8	14.945	108.796	1,2
4968	C5H9Br	4-bromo-1-pentene	31950-56-8	17.342	120.585	1,2	5114	C5H9F	5-fluoro-1-pentene	407-79-4	16.158	108.796	1,2
4969	C5H9Br	5-bromo-1-pentene	1119-51-3	18.164	118.967	1,2	5115	C5H9F	1-fluoro-cis-2-pentene	66213-85-2	15.360	108.796	1,2
4970	C5H9Br	1-bromo-cis-2-pentene	7348-78-9	17.927	119.348	1,2	5116	C5H9F	1-fluoro-trans-2-pentene	66213-86-3	15.360	108.796	1,2
4971	C5H9Br	1-bromo-trans-2-pentene	7348-71-2	17.927	119.348	1,2	5117	C5H9F	2-fluoro-cis-2-pentene	66213-87-4	15.283	108.796	1,2
4972	C5H9Br	2-bromo-cis-2-pentene	54653-29-1	17.596	117.347	1,2	5118	C5H9F	2-fluoro-trans-2-pentene	66213-88-5	15.283	108.796	1,2
4973	C5H9Br	2-bromo-trans-2-pentene	54653-30-4	17.596	117.347	1,2	5119	C5H9F	3-fluoro-cis-2-pentene	66213-90-9	15.283	108.796	1,2
4974	C5H9Br	3-bromo-cis-2-pentene	23068-94-2	17.498	117.718	1,2	5120	C5H9F	3-fluoro-trans-2-pentene	66702-87-2	15.283	108.796	1,2
4975	C5H9Br	3-bromo-trans-2-pentene	54653-28-0	17.498	117.718	1,2	5121	C5H9F	4-fluoro-cis-2-pentene	66702-89-4	15.257	108.796	1,2
4976	C5H9Br	4-bromo-cis-2-pentene	56535-63-8	17.711	117.690	1,2	5122	C5H9F	4-fluoro-trans-2-pentene	66702-90-7	15.257	108.796	1,2
4977	C5H9Br	4-bromo-trans-2-pentene	23068-95-3	17.711	117.690	1,2	5123	C5H9F	5-fluoro-cis-2-pentene	66702-92-9	15.360	108.796	1,2
4978	C5H9Br	5-bromo-cis-2-pentene	50273-84-2	18.118	117.745	1,2	5124	C5H9F	5-fluoro-trans-2-pentene	66702-93-0	15.360	108.796	1,2
4979	C5H9Br	5-bromo-trans-2-pentene	7515-62-0	18.118	117.745	1,2	5125	C5H9F	cis-1-fluoro-2-methyl-1-butene	66213-72-7	15.283	108.796	1,2
4980	C5H9Br	cis-1-bromo-2-methyl-1-butene	36668-55-0	17.535	120.526	1,2	5126	C5H9F	trans-1-fluoro-2-methyl-1-butene	66213-74-9	15.283	108.796	1,2
4981	C5H9Br	trans-1-bromo-2-methyl-1-butene	54265-17-7	17.535	120.526	1,2	5127	C5H9F	3-fluoro-2-methyl-1-butene	53731-24-1	14.872	108.796	1,2
4982	C5H9Br	3-bromo-2-methyl-1-butene	51872-48-1	16.925	121.163	1,2	5128	C5H9F	4-fluoro-2-methyl-1-butene	66213-81-8	14.971	108.796	1,2
4983	C5H9Br	4-bromo-2-methyl-1-butene	20038-12-4	17.048	121.163	1,2	5129	C5H9F	cis-1-fluoro-3-methyl-1-butene	66213-73-8	15.257	108.796	1,2
4984	C5H9Br	cis-1-bromo-3-methyl-1-butene	16416-44-7	17.225	121.262	1,2	5130	C5H9F	trans-1-fluoro-3-methyl-1-butene	66213-75-0	15.257	108.796	1,2
4985	C5H9Br	trans-1-bromo-3-methyl-1-butene	16416-41-4	17.225	121.262	1,2	5131	C5H9F	2-fluoro-3-methyl-1-butene	66213-78-3	14.872	108.796	1,2
4986	C5H9Br	2-bromo-3-methyl-1-butene	31844-96-9	16.850	121.262	1,2	5132	C5H9F	3-fluoro-3-methyl-1-butene	66213-80-7	14.658	108.796	1,2
4987	C5H9Br	3-bromo-3-methyl-1-butene	865-58-7	16.702	121.163	1,2	5133	C5H9F	4-fluoro-3-methyl-1-butene	66213-82-9	14.945	108.796	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
5134	C5H9F	1-fluoro-2-methyl-cis-2-butene	66213-76-1	15.470	106.175	1,2	5312	C5H10Br2	1,4-dibromo-2-methylbutane	69498-28-8	18.911	134.879	1,2
5135	C5H9F	1-fluoro-2-methyl-trans-2-butene	66213-77-2	15.470	106.175	1,2	5313	C5H10Br2	2,2-dibromo-3-methylbutane	62127-60-0	18.281	136.870	1,2
5136	C5H9F	1-fluoro-3-methyl-2-butene	23425-81-2	15.283	108.796	1,2	5314	C5H10Br2	2,3-dibromo-2-methylbutane	594-51-4	18.671	137.139	2
5137	C5H9F	2-fluoro-3-methyl-2-butene	66213-79-4	15.207	108.796	1,2	5315	C5H10Br2	1,1-dibromo-2,2-dimethylpropane	2443-91-6	18.896	138.336	1,2
5138	C5H9F	3-fluoro-2-ethyl-1-propene	---	14.971	108.796	1,2	5316	C5H10Br2	1,3-dibromo-2,2-dimethylpropane	5434-27-5	18.716	136.343	1,2
5144	C5H9F3	1,1,1-trifluoropentane	406-82-6	14.456	127.396	1,2	5317	C5H10Br2	1,3-dibromo-2-ethylpropane	---	18.475	136.061	1,2
5147	C5H9I	cis-1-iodo-1-pentene	66703-02-4	17.783	128.545	1,2	5330	C5H10Cl2	1,1-dichloropentane	820-55-3	17.319	134.580	1,2
5148	C5H9I	trans-1-iodo-1-pentene	66703-03-5	17.783	128.545	1,2	5331	C5H10Cl2	1,2-dichloropentane	1674-33-5	17.756	131.383	1,2
5149	C5H9I	2-iodo-1-pentene	66688-59-3	17.167	128.125	1,2	5332	C5H10Cl2	1,3-dichloropentane	30122-12-4	18.054	130.665	1,2
5150	C5H9I	3-iodo-1-pentene	66688-61-7	17.255	126.423	1,2	5333	C5H10Cl2	1,4-dichloropentane	626-92-6	18.188	131.825	1,2
5151	C5H9I	4-iodo-1-pentene	59967-14-5	17.374	124.702	1,2	5334	C5H10Cl2	1,5-dichloropentane	628-76-2	19.324	128.686	1,2
5152	C5H9I	5-iodo-1-pentene	7766-48-5	18.078	125.339	1,2	5335	C5H10Cl2	2,2-dichloropentane	34887-14-4	16.589	136.138	1,2
5153	C5H9I	1-iodo-cis-2-pentene	66703-04-6	17.582	126.472	1,2	5336	C5H10Cl2	2,3-dichloropentane	600-11-3	17.399	131.212	1,2
5154	C5H9I	1-iodo-trans-2-pentene	66688-56-0	17.582	126.472	1,2	5337	C5H10Cl2	2,4-dichloropentane	625-67-2	17.563	133.434	1,2
5155	C5H9I	2-iodo-cis-2-pentene	66688-57-1	17.481	126.472	1,2	5338	C5H10Cl2	3,3-dichloropentane	21571-91-5	16.850	134.451	1,2
5156	C5H9I	2-iodo-trans-2-pentene	66688-58-2	17.481	126.472	1,2	5339	C5H10Cl2	1,1-dichloro-2-methylbutane	23010-05-1	16.813	134.323	1,2
5157	C5H9I	3-iodo-cis-2-pentene	35895-39-7	17.481	126.472	1,2	5340	C5H10Cl2	1,1-dichloro-3-methylbutane	625-66-1	16.846	135.186	1,2
5158	C5H9I	3-iodo-trans-2-pentene	66688-60-6	17.481	126.472	1,2	5341	C5H10Cl2	1,2-dichloro-2-methylbutane	23010-04-0	17.170	131.813	1,2
5159	C5H9I	4-iodo-cis-2-pentene	66688-62-8	17.455	126.472	1,2	5342	C5H10Cl2	1,2-dichloro-3-methylbutane	600-10-2	17.566	130.592	1,2
5160	C5H9I	4-iodo-trans-2-pentene	66688-63-9	17.455	126.472	1,2	5343	C5H10Cl2	1,3-dichloro-2-methylbutane	23010-07-3	17.706	129.394	1,2
5161	C5H9I	5-iodo-cis-2-pentene	66688-64-0	17.582	126.472	1,2	5344	C5H10Cl2	1,3-dichloro-3-methylbutane	624-96-4	17.433	131.591	1,2
5162	C5H9I	5-iodo-trans-2-pentene	56399-98-5	17.582	126.472	1,2	5345	C5H10Cl2	1,4-dichloro-2-methylbutane	623-34-7	17.905	128.218	1,2
5163	C5H9I	cis-1-iodo-2-methyl-1-butene	52812-57-4	17.481	126.472	1,2	5346	C5H10Cl2	2,2-dichloro-3-methylbutane	17773-66-9	17.466	129.394	1,2
5164	C5H9I	trans-1-iodo-2-methyl-1-butene	66702-95-2	17.481	126.472	1,2	5347	C5H10Cl2	2,3-dichloro-2-methylbutane	507-45-9	17.466	129.394	1,2
5165	C5H9I	3-iodo-2-methyl-1-butene	66703-00-2	17.374	126.472	1,2	5348	C5H10Cl2	1,3-dichloro-2-ethylpropane	---	17.824	129.394	1,2
5166	C5H9I	4-iodo-2-methyl-1-butene	53750-52-0	17.486	126.472	1,2	5349	C5H10Cl2	1,1-dichloro-2,2-dimethylpropane	29559-54-4	17.466	129.394	1,2
5167	C5H9I	cis-1-iodo-3-methyl-1-butene	64245-25-6	17.455	126.472	1,2	5350	C5H10Cl2	1,3-dichloro-2,2-dimethylpropane	29559-55-5	17.567	130.122	1,2
5168	C5H9I	trans-1-iodo-3-methyl-1-butene	66702-96-3	17.455	126.472	1,2	5351	C5H10Cl2	dichloropentane	30586-10-8	16.235	131.446	2
5169	C5H9I	2-iodo-3-methyl-1-butene	32442-47-0	17.155	126.472	1,2	5358	C5H10F2	1,1-difluoropentane	62127-40-6	15.906	118.826	1,2
5170	C5H9I	3-iodo-3-methyl-1-butene	59128-91-5	16.938	126.472	1,2	5359	C5H10F2	1,2-difluoropentane	62126-94-7	16.169	117.534	1,2
5171	C5H9I	4-iodo-3-methyl-1-butene	66703-01-3	17.252	126.472	1,2	5360	C5H10F2	1,3-difluoropentane	62126-95-8	16.454	116.270	1,2
5172	C5H9I	1-iodo-2-methyl-cis-2-butene	66702-97-4	17.481	126.472	1,2	5361	C5H10F2	1,4-difluoropentane	62126-96-9	16.865	113.823	1,2
5173	C5H9I	1-iodo-2-methyl-trans-2-butene	66702-98-5	17.481	126.472	1,2	5362	C5H10F2	1,5-difluoropentane	373-17-1	17.784	112.966	1,2
5174	C5H9I	1-iodo-3-methyl-2-butene	41004-19-7	17.481	126.472	1,2	5363	C5H10F2	2,2-difluoropentane	371-65-3	15.089	121.811	1,2
5175	C5H9I	2-iodo-3-methyl-2-butene	66702-99-6	17.382	126.472	1,2	5364	C5H10F2	2,3-difluoropentane	66688-46-8	15.425	116.270	1,2
5176	C5H9I	3-iodo-2-ethyl-1-propene	---	17.279	126.472	1,2	5365	C5H10F2	2,4-difluoropentane	66688-47-9	15.425	116.270	1,2
5182	C5H9I3	1,1,1-triiodopentane	---	18.686	182.099	2	5366	C5H10F2	3,3-difluoropentane	358-03-2	15.191	120.575	1,2
5183	C5H9N	valeronitrile	110-59-8	19.983	104.702	1,2	5367	C5H10F2	1,1-difluoro-2-methylbutane	66688-67-3	14.387	120.146	1,2
5184	C5H9N	2-methylbutanenitrile	18936-17-9	19.189	106.268	1,2	5368	C5H10F2	1,1-difluoro-3-methylbutane	53731-22-9	14.387	120.146	1,2
5185	C5H9N	3-methylbutanenitrile	625-28-5	19.424	105.741	1,2	5369	C5H10F2	1,2-difluoro-2-methylbutane	66688-68-4	14.199	120.146	1,2
5186	C5H9N	2,2-dimethylpropanenitrile	630-18-2	17.999	108.600	1,2	5370	C5H10F2	1,2-difluoro-3-methylbutane	66688-69-5	14.387	120.146	1,2
5187	C5H9N	butyl isocyanide	2769-64-4	19.094	108.388	1,2	5371	C5H10F2	1,3-difluoro-2-methylbutane	66688-43-5	14.387	120.146	1,2
5188	C5H9N	isobutyl isocyanide	590-94-3	18.352	109.285	1,2	5372	C5H10F2	1,3-difluoro-3-methylbutane	66688-44-6	14.199	120.146	1,2
5189	C5H9N	sec-butyl isocyanide	14069-89-7	18.465	108.771	1,2	5373	C5H10F2	1,4-difluoro-2-methylbutane	66688-45-7	14.485	120.146	1,2
5190	C5H9N	tert-butyl isocyanide	7188-38-7	17.258	111.186	1,2	5374	C5H10F2	2,2-difluoro-3-methylbutane	51891-58-8	14.106	120.146	1,2
5195	C5H9N	(S)-(+)-2-methylbutyronitrile	25570-03-0	19.472	105.768	1,2	5375	C5H10F2	2,3-difluoro-2-methylbutane	53731-25-2	14.106	120.146	1,2
5197	C5H9NO	butyl isocyanate	111-36-4	18.731	113.036	1,2	5376	C5H10F2	1,3-difluoro-2-ethylpropane	---	14.485	120.146	1,2
5198	C5H9NO	N-methyl-2-pyrrolidone	872-50-4	22.957	96.715	1,2	5377	C5H10F2	1,1-difluoro-2,2-dimethylpropane	53731-23-0	14.106	120.146	1,2
5203	C5H9NO	isobutyl isocyanate	1873-29-6	18.474	103.954	2	5378	C5H10F2	1,3-difluoro-2,2-dimethylpropane	66688-66-2	14.199	120.146	1,2
5204	C5H9NO	2-isocyanato-2-methylpropane	1609-86-5	18.696	126.332	1,2	5380	C5H10I2	1,1-diiodopentane	66688-35-5	18.476	153.819	1,2
5245	C5H9NO4	L-glutamic acid	56-86-0	30.523	111.988	1,2	5381	C5H10I2	1,2-diiodopentane	998-76-5	18.494	153.528	1,2
5269.1	C5H9NS	N-methylthiopyrrolidone	10441-57-3	25.815	85.643	2	5382	C5H10I2	1,3-diiodopentane	66688-36-6	18.538	152.803	1,2
5280	C5H10	1,1-dimethylcyclopropane	1630-94-0	14.425	106.277	1,2	5383	C5H10I2	1,4-diiodopentane	55930-45-5	18.581	152.086	1,2
5281	C5H10	1,cis-2-dimethylcyclopropane	930-18-7	15.395	101.806	1,2	5384	C5H10I2	1,5-diiodopentane	628-77-3	18.915	149.008	1,2
5282	C5H10	1,trans-2-dimethylcyclopropane	2402-06-4	14.725	105.497	1,2	5385	C5H10I2	2,2-diiodopentane	66688-37-7	18.120	154.259	1,2
5283	C5H10	ethylcyclopropane	1191-96-4	15.321	103.291	1,2	5386	C5H10I2	2,3-diiodopentane	66688-38-8	18.443	152.086	1,2
5284	C5H10	methylcyclobutane	598-61-8	15.103	101.880	1,2	5387	C5H10I2	2,4-diiodopentane	66719-29-7	18.356	153.528	1,2
5285	C5H10	cyclopentane	287-92-3	16.795	93.513	1,2	5388	C5H10I2	3,3-diiodopentane	66688-39-9	18.120	154.259	1,2
5286	C5H10	1-pentene	109-67-1	14.600	110.448	1,2	5389	C5H10I2	1,1-diiodo-2-methylbutane	66688-50-4	18.356	153.528	1,2
5287	C5H10	2-pentene; (cis+trans)	109-68-2	14.925	107.899	1,2	5390	C5H10I2	1,1-diiodo-3-methylbutane	66688-51-5	18.356	153.528	1,2
5288	C5H10	cis-2-pentene	627-20-3	15.165	107.899	1,2	5391	C5H10I2	1,2-diiodo-2-methylbutane	66688-52-6	18.249	152.086	1,2
5289	C5H10	trans-2-pentene	646-04-8	14.974	109.074	1,2	5392	C5H10I2	1,2-diiodo-3-methylbutane	66688-53-7	18.443	152.086	1,2
5290	C5H10	2-methyl-1-butene	563-46-2	14.728	108.736	1,2	5393	C5H10I2	1,3-diiodo-2-methylbutane	66688-54-8	18.443	152.086	1,2
5291	C5H10	3-methyl-1-butene	563-45-1	14.010	111.820	1,2	5394	C5H10I2	1,3-diiodo-3-methylbutane	66688-55-9	18.249	152.086	1,2
5292	C5H10	2-methyl-2-butene	513-35-9	15.244	106.749	1,2	5395	C5H10I2	1,4-diiodo-2-methylbutane	66688-32-2	18.581	152.086	1,2
5297	C5H10Br2	1,1-dibromopentane	13320-56-4	18.850	139.022	1,2	5396	C5H10I2	2,2-diiodo-3-methylbutane	66688-33-3	18.158	151.375	1,2
5298	C5H10Br2	1,2-dibromopentane	3234-49-9	19.025	138.178	1,2	5397	C5H10I2	2,3-diiodo-2-methylbutane	66688-34-4	18.158	151.375	1,2
5299	C5H10Br2	1,3-dibromopentane	42474-20-4	19.167	138.662	1,2	5398	C5H10I2	1,3-diiodo-2-ethylpropane	---	18.712	149.974	1,2
5300	C5H10Br2	1,4-dibromopentane	626-87-9	19.578	136.944	1,2	5399	C5H10I2	1,1-diiodo-2,2-dimethylpropane	2443-89-2	18.243	149.974	1,2
5301	C5H10Br2	1,5-dibromopentane	111-24-0	20.451	135.675	1,2	5400	C5H10I2	1,3-diiodo-2,2-dimethylpropane	66688-49-1	18.377	149.974	1,2
5302	C5H10Br2	2,2-dibromopentane	54653-26-8	18.207	140.209	1,2	5445	C5H10O	pentanal	110-62-3	18.602	106.999	1,2
5303	C5H10Br2	2,3-dibromopentane	5398-25-4	18.783	137.402	1,2	5446	C5H10O	2-methylbutanal	96-17-3	17.785	107.937	1,2
5304	C5H10Br2	2,4-dibromopentane	19398-53-9	18.804	138.603	1,2	5447	C5H10O	3-methylbutanal	590-86-3	17.763	108.495	1,2
5305	C5H10Br2	3,3-dibromopentane	54653-27-9	18.229	138.520	1,2	5448	C5H10O	2,2-dimethylpropanal	630-19-3	16.683	110.005	1,2
5306	C5H10Br2	1,1-dibromo-2-methylbutane	62127-58-6	18.518	138.520	1,2	5449	C5H10O	2-methylbutanal, (±)	57456-98-1	18.257	107.963	1,2
5307	C5H10Br2	1,1-dibromo-3-methylbutane	62127-59-7	18.518	138.520	1,2	5450	C5H10O	methyl propyl ketone	107-87-9	18.282	107.399	1,2
5308	C5H10Br2	1,2-dibromo-2-methylbutane	10428-64-5	18.397	138.653	1,2	5451	C5H10O	diethyl ketone	96-22-0	18.265	106.338	1,2
5309	C5H10Br2	1,2-dibromo-3-methylbutane	10288-13-8	18.577	137.632	1,2	5452	C5H10O	methyl isopropyl ketone	563-80-4	18.252	106.999	1,2
5310	C5H10Br2	1,3-dibromo-2-methylbutane	49623-50-9	19.352	126.837	1,2	5453	C5H10O	2-methyltetrahydrofuran	96-47-9	17.615	100.389	1,2
5311	C5H10Br2	1,3-dibromo-3-methylbutane	24443-15-0	18.343	138.021	1,2	5454	C5H10O	3-methyltetrahydrofuran	13423-15-9	19.743	100.093	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
5455	C5H10O	allyl ethyl ether	557-31-3	16.653	113.363	1,2	5673	C5H11N	2-methylpyrrolidine	765-38-8	19.428	102.098	1,2
5456	C5H10O	isopropyl vinyl ether	926-65-8	15.213	115.112	1,2	5674	C5H11N	3-methylpyrrolidine	34375-89-8	18.432	103.765	2
5457	C5H10O	3-methoxy-2-methyl-1-propene	22418-49-1	16.713	111.610	1,2	5675	C5H11NO	tert-butylformamide	2425-74-3	22.009	112.513	1,2
5458	C5H10O	propyl vinyl ether	764-47-6	16.378	113.026	1,2	5676	C5H11NO	N,N-diethylformamide	617-84-5	19.551	111.992	1,2
5461	C5H10O	2-methyl-3-buten-2-ol	115-18-4	17.669	105.528	1,2	5696	C5H11NO2	1-nitropentane	628-05-7	19.856	123.405	1,2
5462	C5H10O	3-methyl-2-buten-1-ol	556-82-1	20.157	101.573	1,2	5697	C5H11NO2	2-nitropentane	4609-89-6	18.824	124.891	1,2
5463	C5H10O	3-methyl-3-buten-2-ol	10473-14-0	18.809	101.743	1,2	5698	C5H11NO2	3-nitropentane	551-88-2	18.834	124.758	1,2
5464	C5H10O	1-penten-3-ol	616-25-1	18.729	103.150	1,2	5699	C5H11NO2	1-nitro-2-methylbutane	3457-57-6	19.161	124.506	1,2
5465	C5H10O	3-penten-2-ol, (±)	42569-16-4	19.029	103.427	1,2	5700	C5H11NO2	1-nitro-3-methylbutane	627-67-8	17.530	133.761	1,2
5466	C5H10O	4-penten-1-ol	821-09-0	20.135	102.337	1,2	5701	C5H11NO2	2-nitro-2-methylbutane	595-42-6	18.676	123.704	1,2
5467	C5H10O	4-penten-2-ol	625-31-0	18.752	103.432	1,2	5702	C5H11NO2	2-nitro-3-methylbutane	2625-35-6	18.763	124.229	1,2
5468	C5H10O	cis-2-penten-1-ol	1576-95-0	20.060	101.478	1,2	5703	C5H11NO2	1-nitro-2,2-dimethylpropane	34715-98-5	18.673	124.006	1,2
5469	C5H10O	trans-2-penten-1-ol	1576-96-1	19.992	102.169	1,2	5772	C5H12	pentane	109-66-0	14.436	116.184	1,2
5476	C5H10O	ethyl propenyl ether	928-55-2	17.214	109.725	1,2	5773	C5H12	isopentane	78-78-4	13.856	117.127	1,2
5477	C5H10O	2-methyl-3-buten-1-ol	4516-90-9	18.999	103.154	1,2	5774	C5H12	neopentane	463-82-1	13.058	119.609	1,2
5478	C5H10O	3-methyl-3-buten-1-ol	763-32-6	19.735	100.977	1,2	5831	C5H12O	1-pentanol	71-41-0	22.496	108.559	1,2
5481	C5H10O	3-penten-2-ol	3899-34-1	19.065	102.175	1,2	5832	C5H12O	2-pentanol	6032-29-7	21.601	109.503	1,2
5482	C5H10O	pent-3-en-2-ol	1569-50-2	19.107	102.175	1,2	5833	C5H12O	3-pentanol	584-02-1	21.617	107.762	1,2
5492	C5H10O2	pentanoic acid	109-52-4	23.453	109.350	1,2	5834	C5H12O	2-methyl-1-butanol	137-32-6	22.272	108.292	1,2
5493	C5H10O2	2-methylbutyric acid	116-53-0	22.617	109.585	1,2	5835	C5H12O	2-methyl-1-butanol, (±)	34713-94-5	18.993	108.133	1,2
5494	C5H10O2	3-methylbutanoic acid	503-74-2	21.640	110.295	1,2	5836	C5H12O	3-methyl-2-butanol, (±)	70116-68-6	19.686	108.403	1,2
5495	C5H10O2	2,2-dimethylpropanoic acid	75-98-9	20.588	111.321	1,2	5837	C5H12O	3-methyl-1-butanol	123-51-3	22.121	108.559	1,2
5496	C5H10O2	2-methylbutanoic acid	600-07-7	20.558	109.861	1,2	5838	C5H12O	tert-pentyl-alcohol	75-85-4	20.872	109.503	1,2
5497	C5H10O2	butyl formate	592-84-7	18.394	115.145	1,2	5839	C5H12O	3-methyl-2-butanol	598-75-4	21.975	108.292	1,2
5498	C5H10O2	isobutyl formate	542-55-2	17.825	116.724	1,2	5840	C5H12O	2,2-dimethyl-1-propanol	75-84-3	19.906	113.423	1,2
5499	C5H10O2	sec-butyl formate	589-40-2	16.778	116.245	1,2	5841	C5H12O	methyl butyl ether	628-28-4	16.133	119.234	1,2
5500	C5H10O2	tert-butyl formate	762-75-4	16.422	117.152	1,2	5842	C5H12O	methyl isobutyl ether	625-44-5	15.081	121.586	1,2
5501	C5H10O2	propyl acetate	109-60-4	18.008	115.666	1,2	5843	C5H12O	methyl sec-butyl ether	6795-87-5	15.441	119.606	1,2
5502	C5H10O2	isopropyl acetate	108-21-4	17.119	117.260	1,2	5844	C5H12O	methyl tert-butyl ether	1634-04-4	15.220	119.932	1,2
5503	C5H10O2	ethyl propanoate	105-37-3	17.662	115.535	1,2	5845	C5H12O	ethyl propyl ether	628-32-0	15.010	121.754	1,2
5504	C5H10O2	methyl butanoate	623-42-7	17.714	114.371	1,2	5846	C5H12O	ethyl isopropyl ether	625-54-7	14.845	123.217	1,2
5505	C5H10O2	methyl isobutanoate	547-63-7	16.779	115.367	1,2	5847	C5H12O	sec-butyl methyl ether	116783-23-4	15.473	119.742	1,2
5506	C5H10O2	tetrahydrofurfuryl alcohol	97-99-4	25.190	97.455	1,2	5848	C5H12O	sec-butyl methyl ether (d)	66610-39-7	15.690	119.121	1,2
5530	C5H10O2	(S)-(+)-2-methylbutyric acid	1730-91-2	18.407	109.350	1,2	5849	C5H12O	(S)-(-)-2-methyl-1-butanol	1565-80-6	18.965	108.693	1,2
5537	C5H10O2S	3-methyl sulfolane	872-93-5	24.082	112.962	1,2	5850	C5H12O	(S)-(+)-2-pentanol	26184-62-3	20.384	108.693	1,2
5543	C5H10O3	diethyl carbonate	105-58-8	18.704	121.786	1,2	5851	C5H12O	pentanol	30899-19-5	18.719	112.841	2
5544	C5H10O3	ethyl lactate	97-64-3	22.376	115.027	1,2	5852	C5H12O	(R)-(-)-2-pentanol	31087-44-2	18.798	108.292	1,2
5593	C5H10S	thiacyclohexane	1613-51-0	19.423	104.180	1,2	5853	C5H12O	(S)-3-methyl-2-butanol	1517-66-4	17.704	112.841	2
5594	C5H10S	2,2,3-trimethylthiacyclopropane	53971-47-4	16.820	112.308	1,2	5857	C5H12O2	ethylene glycol monopropyl ether	2807-30-9	20.857	114.955	1,2
5595	C5H10S	2-methylthiacyclopentane	1795-09-1	18.717	107.531	1,2	5858	C5H12O2	neopentyl glycol	126-30-7	23.410	125.625	2
5596	C5H10S	3-methylthiacyclopentane	4740-00-5	18.995	106.625	1,2	5859	C5H12O2	1,2-pentanediol	5343-92-0	26.010	107.559	1,2
5597	C5H10S	cyclopentanethiol	1679-07-8	19.030	106.348	1,2	5860	C5H12O2	1,2-pentanediol, (±)	91049-43-3	22.523	107.644	1,2
5603	C5H11Br	1-bromopentane	110-53-2	17.731	124.626	1,2	5861	C5H12O2	1,3-pentanediol	3174-67-2	26.646	106.098	1,2
5604	C5H11Br	2-bromopentane	107-81-3	17.262	125.746	1,2	5862	C5H12O2	1,4-pentanediol	626-95-9	23.944	105.878	1,2
5605	C5H11Br	3-bromopentane	1809-10-5	17.339	125.225	1,2	5863	C5H12O2	1,5-pentanediol	111-29-5	26.517	104.778	1,2
5606	C5H11Br	1-bromo-2-methylbutane	10422-35-2	17.459	124.420	1,2	5864	C5H12O2	2,3-pentanediol	42027-23-6	21.439	106.928	1,2
5607	C5H11Br	1-bromo-3-methylbutane	107-82-4	17.359	125.809	1,2	5865	C5H12O2	2,4-pentanediol	625-69-4	21.158	111.683	1,2
5608	C5H11Br	2-bromo-2-methylbutane	507-36-8	16.773	124.883	1,2	5866	C5H12O2	DL-erythro-2,3-pentanediol	61828-35-1	24.978	112.476	2
5609	C5H11Br	2-bromo-3-methylbutane	18295-25-5	17.182	124.257	1,2	5867	C5H12O2	DL-threo-2,3-pentanediol	61828-36-2	24.978	112.476	2
5610	C5H11Br	1-bromo-2,2-dimethylpropane	630-17-1	16.593	126.568	1,2	5868	C5H12O2	DL-2,4-pentanediol	1825-14-5	24.257	115.156	2
5611	C5H11Br	1-bromo-2-methylbutane, (S)	534-00-9	18.214	124.139	1,2	5869	C5H12O2	meso-2,4-pentanediol	3950-21-8	24.257	115.156	2
5620	C5H11Cl	1-chloropentane	543-59-9	17.249	121.406	1,2	5870	C5H12O2	2-methyl-1,2-butanediol	41051-72-3	24.290	112.491	2
5621	C5H11Cl	2-chloropentane	625-29-6	16.441	123.103	1,2	5871	C5H12O2	2-methyl-1,3-butanediol	684-84-4	25.293	105.628	1,2
5622	C5H11Cl	3-chloropentane	616-20-6	16.671	120.392	1,2	5872	C5H12O2	2-methyl-1,4-butanediol	2938-98-9	24.528	112.492	2
5623	C5H11Cl	1-chloro-2-methylbutane	616-13-7	16.700	121.393	1,2	5873	C5H12O2	2-methyl-2,3-butanediol	5396-58-7	24.078	107.481	1,2
5624	C5H11Cl	1-chloro-3-methylbutane	107-84-6	16.525	123.231	1,2	5874	C5H12O2	3-methyl-1,2-butanediol	50468-22-9	25.868	104.285	1,2
5625	C5H11Cl	2-chloro-2-methylbutane	594-36-5	15.667	123.947	1,2	5875	C5H12O2	3-methyl-1,3-butanediol	2568-33-4	24.861	110.744	1,2
5626	C5H11Cl	2-chloro-3-methylbutane	631-65-2	16.125	124.381	1,2	5876	C5H12O2	2-ethyl-1,3-propanediol	2612-29-5	24.982	112.489	2
5627	C5H11Cl	1-chloro-2,2-dimethylpropane	753-89-9	15.754	123.818	1,2	5881	C5H12O2	1-ethoxy-2-propanol	1569-02-4	19.858	116.001	1,2
5628	C5H11Cl	1-chloro-2-methylbutane, (±)	114180-21-1	16.840	122.408	1,2	5882	C5H12O2	2-ethoxy-1-propanol	19089-47-5	18.817	115.797	1,2
5629	C5H11Cl	2-chloropentane, (+)	29882-57-3	16.482	123.266	1,2	5883	C5H12O2	2-isopropoxyethanol	109-59-1	19.025	115.976	1,2
5649	C5H11F	1-fluoropentane	592-50-7	15.840	114.814	1,2	5884	C5H12O2	3-methoxy-1-butanol	2517-43-3	19.886	113.094	1,2
5650	C5H11F	2-fluoropentane	590-87-4	15.290	116.582	1,2	5886	C5H12O2	3-ethoxy-1-propanol	111-35-3	19.181	115.209	1,2
5651	C5H11F	3-fluoropentane	41909-29-9	15.163	117.066	1,2	5887	C5H12O2	1-methoxy-2-butanol	53778-73-7	20.330	114.955	1,2
5652	C5H11F	1-fluoro-2-methylbutane	10086-64-3	15.431	114.829	1,2	5888	C5H12O2	(R,R)-(-)-2,4-pentanediol	42075-32-1	19.495	115.256	2
5653	C5H11F	1-fluoro-3-methylbutane	407-06-7	15.296	115.358	1,2	5889	C5H12O2	(2S,4S)-(+)-pentanediol	72345-23-4	19.580	114.854	2
5654	C5H11F	2-fluoro-2-methylbutane	661-53-0	14.677	116.612	1,2	5890	C5H12O2	ethyl ether of propylene glycol	52125-53-8	20.696	112.539	2
5655	C5H11F	2-fluoro-3-methylbutane	62108-95-6	14.870	117.066	1,2	5899	C5H12O3	2-(2-methoxyethoxy)ethanol	111-77-3	22.830	118.140	1,2
5656	C5H11F	1-fluoro-2,2-dimethylpropane	59006-05-2	14.446	117.066	1,2	5912	C5H12O4	pentaerythritol	115-77-5	27.719	157.999	2
5660	C5H11I	1-iodopentane	628-17-1	19.712	131.261	1,2	5921	C5H12S	pentyl mercaptan	110-66-7	17.642	124.363	1,2
5661	C5H11I	2-iodopentane	637-97-8	19.050	131.820	1,2	5922	C5H12S	2-pentanethiol	2084-19-7	16.828	125.848	1,2
5662	C5H11I	3-iodopentane	1809-05-8	19.133	131.619	1,2	5923	C5H12S	3-pentanethiol	616-31-9	17.021	124.586	1,2
5663	C5H11I	1-iodo-2-methylbutane	29394-58-9	19.226	130.828	1,2	5924	C5H12S	2-methyl-1-butanethiol	1878-18-8	17.217	123.781	1,2
5664	C5H11I	1-iodo-3-methylbutane	541-28-6	19.185	132.420	1,2	5925	C5H12S	3-methyl-1-butanethiol	541-31-1	16.765	125.322	1,2
5665	C5H11I	2-iodo-2-methylbutane	594-38-7	18.190	133.212	1,2	5926	C5H12S	2-methyl-2-butanethiol	1679-09-0	16.123	126.938	1,2
5666	C5H11I	2-iodo-3-methylbutane	18295-27-7	18.733	132.917	1,2	5927	C5H12S	3-methyl-2-butanethiol	2084-18-6	16.745	124.655	1,2
5667	C5H11I	1-iodo-2,2-dimethylpropane	15501-33-4	18.365	133.185	1,2	5928	C5H12S	2,2-dimethyl-1-propanethiol	1679-08-9	16.425	126.277	1,2
5668	C5H11I	2-iodopentane, (±)	52152-72-4	17.572	131.779	1,2	5929	C5H12S	2-methyl-1-butanethiol, (+)	20089-07-0	17.490	124.437	1,2
5669	C5H11N	N-methylpyrrolidine	120-94-5	16.971	105.644	1,2	5930	C5H12S	methyl butyl sulfide	628-29-5	17.390	124.363	1,2
5670	C5H11N	piperidine	110-89-4	18.942	99.242	1,2	5931	C5H12S	ethyl propyl sulfide	4110-50-3	17.392	125.260	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
5932	C5H12S	3-methyl-2-thiapentane	10359-64-5	16.667	126.017	1,2	6692	C6H5Cl	chlorobenzene	108-90-7	19.526	102.233	1,2
5933	C5H12S	4-methyl-2-thiapentane	5008-69-5	16.725	125.668	1,2	6720	C6H5ClO	m-chlorophenol	108-43-0	23.010	102.287	1,2
5934	C5H12S	2-methyl-3-thiapentane	5145-99-3	16.283	127.109	1,2	6721	C6H5ClO	o-chlorophenol	95-57-8	21.391	102.436	1,2
5935	C5H12S	3,3-dimethyl-2-thiabutane	6163-64-0	15.742	127.014	1,2	6722	C6H5ClO	p-chlorophenol	106-48-9	23.284	101.853	1,2
5937	C5H12S2	1,3-bis(methylthio)propane	24949-35-7	12.352	138.613	2	6740	C6H5Cl2N	3,4-dichloroaniline	95-76-1	22.540	126.084	2
5938	C5H12S2	1,1'-[methylenebis(thio)]bisethane	4396-19-4	16.578	138.613	2	6769	C6H5F	fluorobenzene	462-06-6	18.440	94.312	1,2
5947	C5H13N	pentylamine	110-58-7	18.099	116.066	1,2	6795	C6H5I	iodobenzene	591-50-4	20.368	111.970	1,2
5948	C5H13N	1-methylbutylamine	625-30-9	17.037	118.494	1,2	6819	C6H5NO2	nitrobenzene	98-95-3	22.617	102.678	1,2
5949	C5H13N	2-methylbutylamine	96-15-1	17.347	116.296	1,2	6876	C6H6	benzene	71-43-2	18.910	89.477	1,2
5950	C5H13N	3-methylbutylamine	107-85-7	17.351	116.967	1,2	6923	C6H6ClN	m-chloroaniline	108-42-9	23.563	105.345	1,2
5951	C5H13N	1,1-dimethylpropylamine	594-39-8	16.259	119.797	1,2	6924	C6H6ClN	o-chloroaniline	95-51-2	22.848	105.118	2
5952	C5H13N	1,2-dimethylpropylamine	598-74-3	16.850	115.756	1,2	6925	C6H6ClN	p-chloroaniline	106-47-8	24.414	93.477	1,2
5953	C5H13N	2,2-dimethylpropylamine	5813-64-9	16.255	119.716	1,2	6979	C6H6N2	cis-dicyano-1-butene	2141-58-4	25.694	99.932	1,2
5954	C5H13N	3-pentanamine	616-24-0	17.807	117.211	1,2	6980	C6H6N2	trans-dicyano-1-butene	2141-59-5	25.459	100.690	1,2
5955	C5H13N	methyl-butylamine	110-68-9	17.009	119.732	1,2	6981	C6H6N2	trans-1,4-dicyano-2-butene	1119-85-3	25.389	107.934	2
5956	C5H13N	methylisobutylamine	14610-37-8	16.234	121.063	1,2	6996	C6H6N2O2	m-nitroaniline	99-09-2	22.210	161.339	1,2
5957	C5H13N	methyl-sec-butylamine	7713-69-1	16.287	121.063	1,2	6997	C6H6N2O2	o-nitroaniline	88-74-4	22.571	157.508	1,2
5958	C5H13N	methyl-tert-butylamine	625-43-4	16.113	119.404	1,2	6998	C6H6N2O2	p-nitroaniline	100-01-6	22.722	163.920	2
5959	C5H13N	ethylpropylamine	20193-20-8	16.392	119.963	1,2	7000	C6H6N2O2	N-nitroaniline	645-55-6	21.242	155.127	2
5960	C5H13N	ethylisopropylamine	19961-27-4	16.193	121.063	1,2	7057	C6H6O	phenol	108-95-2	25.088	88.957	1,2
5961	C5H13N	methyldiethylamine	616-39-7	15.431	124.238	1,2	7070	C6H6O2	pyrocatechol	120-80-9	26.552	87.580	1,2
5962	C5H13N	dimethyl-propylamine	926-63-6	14.783	125.327	1,2	7071	C6H6O2	resorcinol	108-46-3	28.709	91.119	1,2
5963	C5H13N	dimethylisopropylamine	996-35-6	15.437	122.664	1,2	7072	C6H6O2	p-hydroquinone	123-31-9	27.244	93.195	1,2
5964	C5H13N	(S)-(-)-2-methylbutylamine	20626-52-2	16.850	117.158	1,2	7085	C6H6O3	1,2,3-benzenetriol	87-66-1	29.252	94.090	1,2
5965	C5H13N	N,N-dimethyl-2-propanamine	996-35-0	15.142	119.494	2	7121	C6H6S	phenyl mercaptan	108-98-5	21.163	102.684	1,2
5966	C5H13NO	2-amino-3-methyl-1-butanol, (±)	16369-05-4	21.464	111.490	1,2	7172	C6H7N	aniline	62-53-3	24.145	91.482	1,2
5967	C5H13NO	2-amino-3-pentanol	116836-16-9	20.150	111.851	1,2	7173	C6H7N	2-methylpyridine	109-06-8	20.080	99.073	1,2
5968	C5H13NO	5-amino-1-pentanol	2508-29-4	22.795	111.220	1,2	7174	C6H7N	3-methylpyridine	108-99-6	20.710	97.824	1,2
5969	C5H13NO	1-(dimethylamino)-2-propanol	108-16-7	16.593	123.822	1,2	7175	C6H7N	4-methylpyridine	108-89-4	20.641	98.030	1,2
5970	C5H13NO	2-(dimethylamino)-1-propanol	15521-18-3	19.554	117.415	1,2	7178	C6H7N	methylpyridine	1333-41-1	20.973	98.133	2
5971	C5H13NO	3-(dimethylamino)-1-propanol	3179-63-3	20.951	118.873	1,2	7267	C6H8	1,3-cyclohexadiene	592-57-4	17.970	95.734	1,2
5973	C5H13NO	2-(isopropylamino)ethanol	109-56-8	19.985	115.584	1,2	7268	C6H8	methylcyclopentadiene	26519-91-5	17.400	99.540	1,2
5975	C5H13NO	2-(propylamino)ethanol	16369-21-4	20.345	115.700	1,2	7269	C6H8	1,4-cyclohexadiene	628-41-1	18.680	95.146	1,2
5976	C5H13NO	(S)-(+)-2-amino-3-methyl-1-butanol	2026-48-4	21.387	112.105	1,2	7273	C6H8	1-hexen-3-yne	13721-54-5	17.172	107.605	1,2
5977	C5H13NO	(R)-(-)-2-amino-3-methyl-1-butanol	4276-09-9	20.576	116.663	2	7274	C6H8	1-hexen-4-yne	5009-11-0	17.411	105.886	1,2
5978	C5H13NO	2-amino-3-methyl-1-butanol	473-75-6	21.533	110.778	1,2	7275	C6H8	1-hexen-5-yne	14548-31-3	16.619	105.396	1,2
5979	C5H13NO	DL-2-amino-1-pentanol	4146-04-7	21.281	112.453	1,2	7276	C6H8	2-hexen-4-yne	14092-20-7	17.595	104.581	1,2
5980	C5H13NO	(S)-(+)-1-dimethylamino-2-propanol	53636-17-2	16.550	123.822	1,2	7277	C6H8	2-methyl-1-penten-3-yne	926-55-6	17.063	104.656	2
5986	C5H13NO2	methyl diethanolamine	105-59-9	28.854	115.806	1,2	7278	C6H8	3-methyl-3-penten-1-yne	1574-33-0	16.173	109.081	1,2
5987	C5H13NO2	2-amino-2-ethyl-1,3-propanediol	115-70-8	20.435	110.319	1,2	7316	C6H8N2	adiponitrile	111-69-3	26.318	112.650	1,2
6009	C5H14N2	1,5-pentanediamine	462-94-2	20.034	117.045	1,2	7317	C6H8N2	methylglutaronitrile	4553-62-2	24.946	113.835	1,2
6010	C5H14N2	N,N,N',N'-tetramethylmethanediamine	51-80-9	12.789	137.171	1,2	7318	C6H8N2	m-phenylenediamine	108-45-2	25.049	107.671	1,2
6011	C5H14N2	1,3-diaminopentane	589-37-7	20.534	119.509	1,2	7319	C6H8N2	o-phenylenediamine	95-54-5	23.506	110.961	2
6012	C5H14N2	3-dimethylamino-1-propylamine	109-55-7	17.020	125.993	1,2	7320	C6H8N2	p-phenylenediamine	106-50-3	23.510	113.801	2
6013	C5H14N2	N,N'-dimethyl-1,3-propanediamine	111-33-1	18.122	125.068	1,2	7321	C6H8N2	phenylhydrazine	100-63-0	25.561	98.851	1,2
6014	C5H14N2	2,2-dimethyl-1,3-propanediamine	7328-91-8	19.183	120.627	1,2	7343	C6H8N2O	bis(cyanoethyl) ether	1656-48-0	26.669	118.911	1,2
6015	C5H14N2	1-dimethylamino-2-propylamine	62689-51-4	14.980	130.161	1,2	7381	C6H8O	2-ethylfuran	3208-16-0	17.706	107.212	1,2
6016	C5H14N2	N-isopropylethylenediamine	19522-67-9	17.280	125.374	1,2	7382	C6H8O	3-ethylfuran	67363-95-5	17.919	104.390	2
6017	C5H14N2	N-propylethylenediamine	111-39-7	18.593	123.257	1,2	7383	C6H8O	2,3-dimethylfuran	14920-89-9	18.010	104.384	2
6018	C5H14N2	N,N,N'-trimethylethylenediamine	142-25-6	15.527	128.529	1,2	7384	C6H8O	2,4-dimethylfuran	3710-43-8	17.767	107.501	1,2
6067	C6Cl6	hexachlorobenzene	118-74-1	20.336	165.847	1,2	7385	C6H8O	2,5-dimethylfuran	625-86-5	17.581	108.832	1,2
6080	C6F6	hexafluorobenzene	392-56-3	16.916	115.851	1,2	7386	C6H8O	3,4-dimethylfuran	20843-07-6	17.373	104.407	2
6115	C6HCl5	pentachlorobenzene	608-93-5	20.500	144.174	1,2	7446	C6H8O4	dimethyl maleate	624-48-6	21.414	125.546	1,2
6174	C6H2Cl4	1,2,3,4-tetrachlorobenzene	634-66-2	20.334	140.792	2	7459	C6H8O6	ascorbic acid	50-81-7	34.495	121.725	1,2
6175	C6H2Cl4	1,2,3,5-tetrachlorobenzene	634-90-2	19.970	141.720	2	7464	C6H8O7	citric acid	77-92-9	31.588	136.959	1,2
6176	C6H2Cl4	1,2,4,5-tetrachlorobenzene	95-94-3	19.830	129.627	1,2	7467	C6H8S	2-ethylthiophene	872-55-9	18.521	113.558	1,2
6281	C6H3ClN2O4	1-chloro-2,4-dinitrobenzene	97-00-7	24.986	133.326	1,2	7468	C6H8S	3-ethylthiophene	1795-01-3	18.635	112.975	1,2
6296	C6H3Cl2NO2	1,2-dichloro-4-nitrobenzene	99-54-7	22.557	128.593	1,2	7469	C6H8S	2,3-dimethylthiophene	632-16-6	18.859	112.533	1,2
6305	C6H3Cl3	1,2,4-trichlorobenzene	120-82-1	20.623	125.222	1,2	7470	C6H8S	2,4-dimethylthiophene	638-00-6	18.766	113.272	1,2
6306	C6H3Cl3	1,2,3-trichlorobenzene	87-61-6	20.044	127.622	1,2	7471	C6H8S	2,5-dimethylthiophene	638-02-8	18.534	114.497	1,2
6307	C6H3Cl3	1,3,5-trichlorobenzene	108-70-3	19.512	128.981	2	7472	C6H8S	3,4-dimethylthiophene	632-15-5	19.032	111.860	1,2
6308	C6H3Cl3	trichlorobenzene	12002-48-1	20.380	126.145	1,2	7533	C6H9N	2,4-dimethylpyrrole	625-82-1	20.833	103.503	1,2
6367	C6H3N3O6	1,3,5-trinitrobenzene	99-35-4	23.974	141.856	1,2	7534	C6H9N	2,5-dimethylpyrrole	625-84-3	21.114	102.214	1,2
6411	C6H4Br2	m-dibromobenzene	108-36-1	20.433	121.164	1,2	7535	C6H9N	1-ethyl-1H-pyrrole	617-92-5	18.796	106.100	1,2
6412	C6H4Br2	o-dibromobenzene	583-53-9	21.504	119.303	1,2	7536	C6H9N	2-ethyl-1H-pyrrole	1551-06-0	20.419	105.715	1,2
6413	C6H4Br2	p-dibromobenzene	106-37-6	21.015	110.457	1,2	7619	C6H10	1-methylcyclopentene	693-89-0	16.629	105.857	1,2
6414	C6H4Br2	dibromobenzene	26249-12-7	21.476	114.837	2	7620	C6H10	3-methylcyclopentene	1120-62-3	16.311	108.228	1,2
6443	C6H4ClNO2	m-chloronitrobenzene	121-73-3	22.785	116.828	1,2	7621	C6H10	4-methylcyclopentene	1759-81-5	16.549	107.661	1,2
6444	C6H4ClNO2	o-chloronitrobenzene	88-73-3	26.682	89.029	1,2	7622	C6H10	cyclohexene	110-83-8	17.644	101.917	1,2
6445	C6H4ClNO2	p-chloronitrobenzene	100-00-5	22.123	120.812	1,2	7623	C6H10	1,2-hexadiene	592-44-9	16.105	115.665	1,2
6469	C6H4Cl2	o-dichlorobenzene	95-50-1	20.306	112.992	1,2	7624	C6H10	1,cis-3-hexadiene	14596-92-0	15.859	117.351	1,2
6470	C6H4Cl2	m-dichlorobenzene	541-73-1	19.572	114.577	1,2	7625	C6H10	1,trans-3-hexadiene	20237-34-7	15.859	117.351	1,2
6471	C6H4Cl2	p-dichlorobenzene	106-46-7	19.313	117.615	1,2	7626	C6H10	1,4-hexadiene	592-45-0	15.039	118.107	1,2
6524	C6H4F2	m-difluorobenzene	372-18-9	18.636	98.188	1,2	7627	C6H10	1,cis-4-hexadiene	7318-67-4	15.493	118.195	1,2
6525	C6H4F2	o-difluorobenzene	367-11-3	18.411	99.213	1,2	7628	C6H10	1,trans-4-hexadiene	7319-00-8	15.493	118.195	1,2
6526	C6H4F2	p-difluorobenzene	540-36-3	18.590	98.188	1,2	7629	C6H10	1,5-hexadiene	592-42-7	15.029	119.397	1,2
6580	C6H4N2O4	m-dinitrobenzene	99-65-0	26.071	111.904	1,2	7630	C6H10	2,3-hexadiene	592-49-4	15.373	121.697	1,2
6581	C6H4N2O4	o-dinitrobenzene	528-29-0	24.651	127.830	1,2	7631	C6H10	2,4-hexadiene	592-46-1	16.803	114.909	1,2
6582	C6H4N2O4	p-dinitrobenzene	100-25-4	24.085	119.105	1,2	7632	C6H10	cis-2,trans-4-hexadiene	5194-50-3	16.586	114.250	1,2
6656	C6H5Br	bromobenzene	108-86-1	19.943	105.588	1,2	7633	C6H10	cis-2,cis-4-hexadiene	6108-61-8	16.268	114.889	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
7634	C6H10	trans-2,trans-4-hexadiene	5194-51-4	16.532	115.698	1,2	7920	C6H10O4	ethylidene diacetate	542-10-9	20.138	136.710	1,2
7635	C6H10	3-methyl-1,2-pentadiene	7417-48-3	15.793	115.698	1,2	7953.1	C6H10O5	dilactic acid	19201-34-4	19.070	173.524	1,2
7636	C6H10	4-methyl-1,2-pentadiene	13643-05-5	15.699	116.850	1,2	7979	C6H11Br	cis-1-bromo-1-hexene	13154-12-6	17.355	137.717	1,2
7637	C6H10	3-methyl-1,3-pentadiene	4549-74-0	16.646	112.528	1,2	7980	C6H11Br	trans-1-bromo-1-hexene	13154-13-7	17.355	137.717	1,2
7638	C6H10	2-methyl-1,cis-3-pentadiene	1501-60-6	16.052	115.050	1,2	7982	C6H11Br	6-bromo-1-hexene	2695-47-8	18.992	133.763	1,2
7639	C6H10	2-methyl-1,trans-3-pentadiene	926-54-5	16.052	115.050	1,2	7983	C6H11Br	5-bromo-2-methyl-2-pentene	2270-59-9	19.345	133.983	1,2
7640	C6H10	3-methyl-1,cis-3-pentadiene	2787-45-3	16.269	112.528	1,2	8004	C6H11Br3	1,1,1-tribromohexane	62127-63-3	18.500	175.312	2
7641	C6H10	3-methyl-1,trans-3-pentadiene	2787-43-1	16.269	112.528	1,2	8006	C6H11Cl	cis-1-chloro-1-hexene	50586-18-0	16.815	132.373	1,2
7642	C6H10	4-methyl-1,3-pentadiene	926-56-7	16.063	115.050	1,2	8007	C6H11Cl	trans-1-chloro-1-hexene	50586-19-1	16.815	132.373	1,2
7643	C6H10	2-methyl-1,4-pentadiene	763-30-4	14.780	119.224	1,2	8009	C6H11Cl	1-chloro-2,3-dimethyl-2-butene	37866-06-1	16.288	127.507	1,2
7644	C6H10	3-methyl-1,4-pentadiene	1115-08-8	14.981	119.051	1,2	8010	C6H11Cl	1-chloro-1-hexene	22922-67-4	16.750	134.124	1,2
7645	C6H10	2-methyl-2,3-pentadiene	3043-33-2	15.798	116.353	1,2	8011	C6H11Cl	1-chloro-3-hexene	62706-16-5	17.021	131.931	1,2
7646	C6H10	2-ethyl-1,3-butadiene	3404-63-5	16.019	115.373	1,2	8012	C6H11Cl	2-chloro-1-hexene	10124-73-9	16.013	133.475	1,2
7647	C6H10	2,3-dimethyl-1,3-butadiene	513-81-5	16.001	113.617	1,2	8013	C6H11Cl	4-chloro-2-hexene	6734-98-1	16.993	133.485	1,2
7648	C6H10	1-hexyne	693-02-7	16.334	115.373	1,2	8014	C6H11Cl	5-chloro-1-hexene	927-54-8	16.765	133.400	1,2
7649	C6H10	2-hexyne	764-35-2	16.916	112.992	1,2	8015	C6H11Cl	cis-3-chloro-3-hexene	17226-34-5	16.462	132.379	1,2
7650	C6H10	3-hexyne	928-49-4	16.601	114.409	1,2	8016	C6H11Cl	3-chloro-2-methyl-1-pentene	4104-01-2	16.959	130.829	2
7651	C6H10	3-methyl-1-pentyne	922-59-8	15.164	117.485	1,2	8017	C6H11Cl	5-chloro-2-methyl-2-pentene	7712-60-9	18.292	130.350	1,2
7652	C6H10	4-methyl-1-pentyne	7154-75-8	15.309	117.351	1,2	8066	C6H11Cl3	1,1,1-trichlorohexane	17760-40-6	16.867	165.079	1,2
7653	C6H10	4-methyl-2-pentyne	21020-27-9	15.836	115.503	1,2	8071	C6H11F	cis-1-fluoro-1-hexene	66225-46-5	15.298	125.494	1,2
7654	C6H10	3,3-dimethyl-1-butyne	917-92-0	13.814	124.030	1,2	8072	C6H11F	trans-1-fluoro-1-hexene	66225-47-6	15.298	125.494	1,2
7657	C6H10	1,3-hexadiene, cis and trans	592-48-3	16.080	115.050	1,2	8077	C6H11F3	1,1,1-trifluorohexane	---	14.757	143.009	1,2
7658	C6H10	2-methyl-1,3-pentadiene	1118-58-7	16.359	114.091	1,2	8080	C6H11I	cis-1-iodo-1-hexene	16538-47-9	17.495	145.268	1,2
7659	C6H10	methylpentadiene, isomers	54363-49-4	16.401	114.409	1,2	8081	C6H11I	trans-1-iodo-1-hexene	16644-98-7	17.495	145.268	1,2
7660	C6H10	hexadiene	42296-74-2	15.913	114.603	2	8086	C6H11I3	1,1,1-triiodohexane	---	18.369	199.970	2
7688	C6H10Cl2	cis-1,2-dichloro-1-hexene	59697-55-1	18.491	141.556	1,2	8088	C6H11N	hexanenitrile	628-73-9	19.378	121.299	1,2
7689	C6H10Cl2	trans-1,2-dichloro-1-hexene	59697-51-7	18.792	137.056	1,2	8089	C6H11N	2-methylpentanenitrile	6339-13-5	18.701	123.144	1,2
7760	C6H10O	cyclohexanone	108-94-1	20.179	104.188	1,2	8090	C6H11N	2-ethylbutanenitrile	617-80-1	18.729	121.892	1,2
7761	C6H10O	mesityl oxide	141-79-7	18.734	115.193	1,2	8091	C6H11N	3-methylpentanenitrile	21101-88-2	19.056	121.132	1,2
7772	C6H10O	2-ethyl-1-buten-1-one	24264-08-2	16.221	118.705	1,2	8092	C6H11N	4-methylpentanenitrile	542-54-1	19.055	121.557	1,2
7773	C6H10O	3-hexen-2-one	763-93-9	18.829	113.995	1,2	8093	C6H11N	2,2-dimethylbutanenitrile	20654-46-0	17.673	125.482	1,2
7774	C6H10O	4-hexen-2-one	25659-22-7	18.046	116.266	1,2	8094	C6H11N	2,3-dimethylbutanenitrile	20654-44-8	17.983	122.476	1,2
7775	C6H10O	4-hexen-3-one	2497-21-4	18.654	115.268	1,2	8095	C6H11N	3,3-dimethylbutanenitrile	3302-16-7	18.151	120.600	2
7776	C6H10O	5-hexen-2-one	109-49-9	18.058	117.578	1,2	8101	C6H11NO	epsilon-caprolactam	105-60-2	23.189	120.744	2
7777	C6H10O	trans-3-hexen-2-one	4376-23-2	18.840	113.864	1,2	8102	C6H11NO	cyclohexanone oxime	100-64-1	20.769	123.891	2
7778	C6H10O	2-methyl-1-penten-3-one	25044-01-3	17.714	115.658	1,2	8200	C6H12	1-methyl-1-ethylcyclopropane	53778-43-1	14.988	120.783	1,2
7779	C6H10O	4-methyl-4-penten-2-one	3744-02-3	17.843	117.286	1,2	8201	C6H12	1-methyl-cis-2-ethylcyclopropane	19781-68-1	15.529	118.604	1,2
7785	C6H10O	trans-2-hexenal	6728-26-3	19.009	116.141	1,2	8202	C6H12	1-methyl-trans-2-ethylcyclopropane	19781-69-2	14.973	122.239	1,2
7786	C6H10O	cis-3-hexenal	6789-80-6	17.878	115.351	1,2	8203	C6H12	1,1,2-trimethylcyclopropane	4127-45-1	14.655	122.026	1,2
7787	C6H10O	trans-3-hexenal	69112-21-6	18.229	116.412	1,2	8204	C6H12	1,cis-2,cis-3-trimethylcyclopropane	4806-58-0	15.435	118.038	1,2
7788	C6H10O	2-methyl-2-pentenal	623-36-9	18.627	114.928	1,2	8205	C6H12	1,cis-2,trans-3-trimethylcyclopropane	4806-59-1	14.973	121.462	1,2
7801	C6H10O	4-methylpent-2-enal	5362-56-1	18.239	116.285	1,2	8206	C6H12	propylcyclopropane	2415-72-7	15.678	119.175	1,2
7804	C6H10O	3-methyl-3-penten-2-one	565-62-8	18.924	111.757	2	8207	C6H12	isopropylcyclopropane	3638-35-5	15.025	121.340	1,2
7805	C6H10O	2-ethylcrotonaldehyde	19780-25-7	18.607	111.727	2	8208	C6H12	1,1-dimethylcyclobutane	---	15.015	118.872	1,2
7806	C6H10O	2-hexenal	505-57-7	20.827	111.727	2	8209	C6H12	1,cis-2-dimethylcyclobutane	15679-01-3	15.719	115.132	1,2
7813	C6H10O2	epsilon-caprolactone	502-44-3	22.312	106.977	1,2	8210	C6H12	1,trans-2-dimethylcyclobutane	15679-02-4	15.161	118.872	1,2
7814	C6H10O2	ethyl methacrylate	97-63-2	17.352	125.709	1,2	8211	C6H12	1,cis-3-dimethylcyclobutane	2398-09-6	15.159	119.209	1,2
7815	C6H10O2	propyl acrylate	925-60-0	17.889	126.827	1,2	8212	C6H12	1,trans-3-dimethylcyclobutane	2398-10-9	14.945	120.748	1,2
7817	C6H10O2	2-buten-1-yl acetate	628-08-0	17.830	124.897	1,2	8213	C6H12	ethylcyclobutane	4806-61-5	15.839	116.373	1,2
7818	C6H10O2	allyl propanoate	2408-20-0	18.417	125.604	1,2	8214	C6H12	methylcyclopentane	96-37-7	16.178	112.968	1,2
7820	C6H10O2	2,2-dimethyl-3-butenoic acid	10276-09-2	19.555	120.312	1,2	8215	C6H12	cyclohexane	110-82-7	16.930	108.876	1,2
7821	C6H10O2	trans-2-ethyl-2-butenoic acid	1187-13-9	20.459	118.690	1,2	8216	C6H12	1-hexene	592-41-6	15.043	126.179	1,2
7822	C6H10O2	2-hexenoic acid	1191-04-4	20.791	119.970	1,2	8217	C6H12	2-hexene; (cis+trans)	592-43-8	15.519	124.132	1,2
7823	C6H10O2	3-hexenoic acid	4219-24-3	20.674	118.609	1,2	8218	C6H12	cis-2-hexene	7688-21-3	15.325	123.223	1,2
7824	C6H10O2	5-hexenoic acid	1577-22-6	20.399	119.280	1,2	8219	C6H12	trans-2-hexene	4050-45-7	15.340	125.054	1,2
7825	C6H10O2	2-methyl-3-pentenoic acid	37674-63-8	20.237	119.162	1,2	8220	C6H12	hex-3-ene	592-47-2	15.543	121.691	2
7826	C6H10O2	4-methyl-2-pentenoic acid	10321-71-8	20.724	121.218	1,2	8221	C6H12	cis-3-hexene	7642-09-3	15.240	124.683	1,2
7827	C6H10O2	trans-2-methyl-2-pentenoic acid	16957-70-3	21.033	117.561	1,2	8222	C6H12	trans-3-hexene	13269-52-8	15.298	125.054	1,2
7828	C6H10O2	cis-3-methyl-2-pentenoic acid	19866-51-4	20.580	116.620	1,2	8223	C6H12	2-methyl-1-pentene	763-29-1	15.068	124.683	1,2
7829	C6H10O2	ethyl 3-butenoate	1617-18-1	17.932	125.850	1,2	8224	C6H12	3-methyl-1-pentene	760-20-3	14.437	126.940	1,2
7830	C6H10O2	ethyl cis-2-butenoate	6776-19-8	18.012	125.032	1,2	8225	C6H12	4-methyl-1-pentene	691-37-2	14.477	127.711	1,2
7831	C6H10O2	ethyl 2-butenoate	10544-63-5	18.030	125.127	1,2	8226	C6H12	4-methyl-2-pentene	4461-48-7	14.336	125.427	1,2
7832	C6H10O2	ethyl trans-2-butenoate	623-70-1	18.102	125.127	1,2	8227	C6H12	4-methyl-cis-2-pentene	691-38-3	14.597	126.558	1,2
7833	C6H10O2	vinyl butanoate	123-20-6	17.561	127.463	1,2	8228	C6H12	4-methyl-trans-2-pentene	674-76-0	14.855	126.749	1,2
7834	C6H10O2	vinyl 2-methylpropanoate	2424-98-8	16.222	128.513	1,2	8229	C6H12	2-methyl-2-pentene	625-27-4	15.372	123.585	1,2
7844	C6H10O2	2-methylenepentanoic acid	5650-75-9	21.113	116.676	1,2	8230	C6H12	3-methyl-cis-2-pentene	922-62-3	15.419	122.150	1,2
7845	C6H10O2	methyl 2-methyl-2-butenoate	6622-76-0	18.238	123.933	1,2	8231	C6H12	3-methyl-2-pentene, cis and trans	922-61-2	15.735	120.575	1,2
7846	C6H10O2	methyl 3-methyl-2-butenoate	924-50-5	17.864	124.781	1,2	8232	C6H12	3-methyl-trans-2-pentene	616-12-6	15.575	121.445	1,2
7848.1	C6H10O2	isopropyl acrylate	689-12-3	16.378	128.884	1,2	8233	C6H12	2,3-dimethyl-1-butene	563-78-0	14.669	125.054	1,2
7856	C6H10O2	trans-2-hexenoic acid	13419-69-7	20.954	118.999	1,2	8234	C6H12	2,3-dimethyl-2-butene	563-79-1	15.861	119.717	1,2
7857	C6H10O2	trans-3-hexenoic acid	1577-18-0	20.692	118.407	1,2	8235	C6H12	3,3-dimethyl-1-butene	558-37-2	13.703	129.879	1,2
7859	C6H10O2	methyl trans-2-pentenoate	15790-88-2	19.750	119.999	2	8236	C6H12	2-ethyl-1-butene	760-21-4	15.204	122.863	1,2
7860	C6H10O2	methyl trans-3-pentenoate	20515-19-9	19.528	122.736	1,2	8245	C6H12Br2	1,1-dibromohexane	58133-26-9	18.534	156.391	1,2
7861	C6H10O2	2-methyl-4-pentenoic acid	1575-74-2	20.276	120.152	1,2	8246	C6H12Br2	1,2-dibromo-2,3-dimethylbutane	29916-45-8	18.439	153.284	1,2
7862	C6H10O2	2-methyl-2-pentenoic acid	3142-72-1	20.299	119.873	2	8247	C6H12Br2	1,4-dibromo-2,3-dimethylbutane	54462-70-3	18.534	151.713	1,2
7881	C6H10O3	ethylacetoacetate	141-97-9	19.844	127.218	1,2	8248	C6H12Br2	2,3-dibromo-2,3-dimethylbutane	594-81-0	16.490	157.334	1,2
7882	C6H10O3	propionic anhydride	123-62-6	19.521	129.239	1,2	8249	C6H12Br2	1,2-dibromohexane	624-20-4	18.290	155.785	1,2
7917	C6H10O4	adipic acid	124-04-9	27.536	119.008	1,2	8250	C6H12Br2	1,4-dibromohexane	25118-28-9	18.393	154.053	1,2
7918	C6H10O4	diethyl oxalate	95-92-1	20.162	136.200	1,2	8251	C6H12Br2	1,5-dibromohexane	627-96-3	18.218	157.011	1,2
7919	C6H10O4	ethylene glycol diacetate	111-55-7	20.532	132.737	1,2	8252	C6H12Br2	1,6-dibromohexane	629-03-8	19.941	152.243	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
8253	C6H12Br2	2,3-dibromohexane	6423-02-5	18.607	155.412	1,2	8471	C6H12O2	isopentyl formate	110-45-2	17.133	132.845	1,2
8254	C6H12Br2	2,5-dibromohexane, (R*,R**)-(±)-	54462-68-9	18.364	155.184	1,2	8472	C6H12O2	1-ethylpropyl formate	58368-67-5	17.452	124.598	2
8255	C6H12Br2	1,2-dibromo-3,3-dimethylbutane	640-21-1	18.517	151.996	1,2	8473	C6H12O2	1,1-dimethylpropyl formate	757-88-0	16.626	131.447	1,2
8256	C6H12Br2	3,4-dibromohexane	16230-28-7	18.425	153.518	1,2	8474	C6H12O2	1,2-dimethylpropyl formate	66794-46-5	17.559	124.598	2
8257	C6H12Br2	2,5-dibromohexane	24774-58-1	18.102	153.898	2	8475	C6H12O2	2,2-dimethylpropyl formate	23361-67-3	17.223	124.598	2
8258	C6H12Br2	1,5-dibromo-3-methylpentane	4457-72-1	18.459	152.943	1,2	8476	C6H12O2	butyl acetate	123-86-4	17.584	132.603	1,2
8273	C6H12Cl2	1,1-dichlorohexane	62017-16-7	17.170	151.432	1,2	8477	C6H12O2	isobutyl acetate	110-19-0	17.165	133.671	1,2
8274	C6H12Cl2	1,2-dichlorohexane	2162-92-7	17.826	144.333	1,2	8478	C6H12O2	sec-butyl acetate	105-46-4	16.983	133.825	1,2
8275	C6H12Cl2	1,6-dichlorohexane	2163-00-0	19.151	145.248	1,2	8479	C6H12O2	tert-butyl acetate	540-88-5	16.036	134.913	1,2
8276	C6H12Cl2	2,2-dichlorohexane	42131-89-5	17.268	152.775	1,2	8480	C6H12O2	propyl propanoate	106-36-5	17.328	132.452	1,2
8277	C6H12Cl2	2,3-dichlorohexane	54305-87-2	17.376	149.281	1,2	8481	C6H12O2	isopropyl propanoate	637-78-5	16.593	135.054	1,2
8278	C6H12Cl2	2,5-dichlorohexane, (R*,R*)-(±)-	41761-12-0	17.726	148.764	1,2	8482	C6H12O2	ethyl butanoate	105-54-4	16.940	132.906	1,2
8279	C6H12Cl2	1,1-dichloro-3,3-dimethylbutane	6130-96-7	15.851	150.990	1,2	8483	C6H12O2	ethyl isobutanoate	97-62-1	16.505	134.600	1,2
8280	C6H12Cl2	hexane, 2,5-dichloro-, (R*,S*)-	41761-11-9	17.491	148.907	2	8484	C6H12O2	cyclohexyl peroxide	766-07-4	23.286	114.443	1,2
8281	C6H12Cl2	2,2-dichloro-3,3-dimethylbutane	594-84-3	17.491	148.907	2	8485	C6H12O2	diacetone alcohol	123-42-2	20.839	124.368	1,2
8298	C6H12F2	1,1-difluorohexane	62127-41-7	15.867	135.731	1,2	8497	C6H12O2	methyl 2,2-dimethylpropanoate	598-98-1	15.728	130.370	1,2
8305	C6H12I2	1,1-diiodohexane	66225-50-1	18.271	170.176	1,2	8498	C6H12O2	methyl isopentanoate	556-24-1	16.785	132.628	1,2
8306	C6H12I2	1,6-diiodohexane	629-09-4	18.510	166.144	1,2	8499	C6H12O2	methyl pentanoate	624-24-8	18.126	130.578	1,2
8315	C6H12N2	triethylenediamine	280-57-9	16.524	149.736	2	8513	C6H12O2	methyl 2-methylbutyrate	868-57-5	16.758	131.254	1,2
8394	C6H12O	butyl vinyl ether	111-34-2	16.461	129.407	1,2	8514	C6H12O2	(±)-3-methylvaleric acid	105-43-1	19.938	124.903	1,2
8395	C6H12O	sec-butyl vinyl ether	1888-85-3	15.066	130.621	1,2	8515	C6H12O2	2-methylvaleric acid	97-61-0	18.023	127.229	1,2
8396	C6H12O	tert-butyl vinyl ether	926-02-3	14.480	131.027	1,2	8531	C6H12O3	2-ethoxyethyl acetate	111-15-9	18.772	136.247	1,2
8397	C6H12O	isobutyl vinyl ether	109-53-5	15.192	131.810	1,2	8532	C6H12O3	hydroxycaproic acid	1191-25-9	27.688	131.592	2
8398	C6H12O	3-(1-methylethoxy)-1-propene	6140-80-3	15.359	129.802	1,2	8533	C6H12O3	paraldehyde	123-63-7	17.698	134.172	1,2
8399	C6H12O	3-propoxy-1-propene	1471-03-0	16.133	129.802	1,2	8621	C6H12S	thiacycloheptane	4753-80-4	16.414	151.733	1,2
8400	C6H12O	cyclohexanol	108-93-0	23.624	104.334	1,2	8622	C6H12S	2-ethylthiacyclopentane	1551-32-2	18.340	123.778	1,2
8401	C6H12O	hexanal	66-25-1	18.081	123.655	1,2	8623	C6H12S	3-ethylthiacyclopentane	62184-67-2	18.644	122.992	1,2
8402	C6H12O	2-methylpentanal	123-15-9	17.566	124.671	1,2	8624	C6H12S	2,2-dimethylthiacyclopentane	5161-75-1	17.064	126.651	1,2
8403	C6H12O	3-methylpentanal	15877-57-3	17.714	125.045	1,2	8625	C6H12S	2,cis-3-dimethylthiacyclopentane	5161-77-3	16.915	126.651	1,2
8404	C6H12O	4-methylpentanal	1119-16-0	17.703	125.201	1,2	8626	C6H12S	2,trans-3-dimethylthiacyclopentane	5161-78-4	16.915	126.651	1,2
8405	C6H12O	2-ethylbutanal	97-96-1	17.638	123.564	1,2	8627	C6H12S	2,cis-4-dimethylthiacyclopentane	5161-79-5	16.915	126.651	1,2
8406	C6H12O	2,2-dimethylbutanal	2094-75-9	16.847	125.045	1,2	8628	C6H12S	2,trans-4-dimethylthiacyclopentane	5161-80-8	16.915	126.651	1,2
8407	C6H12O	2,3-dimethylbutanal	2109-98-0	17.349	124.115	1,2	8629	C6H12S	2,cis-5-dimethylthiacyclopentane	5161-13-7	17.566	126.651	1,2
8408	C6H12O	3,3-dimethylbutanal	2987-16-8	16.921	123.961	1,2	8630	C6H12S	2,trans-5-dimethylthiacyclopentane	5161-14-8	17.516	127.136	1,2
8409	C6H12O	2-hexanone	591-78-6	18.139	124.115	1,2	8631	C6H12S	3,3-dimethylthiacyclopentane	5161-76-2	17.031	127.136	1,2
8410	C6H12O	3-hexanone	589-38-8	17.897	123.655	1,2	8632	C6H12S	3,cis-4-dimethylthiacyclopentane	5161-11-5	16.882	127.136	1,2
8411	C6H12O	3-methyl-2-pentanone	565-61-7	17.221	124.733	1,2	8633	C6H12S	3,trans-4-dimethylthiacyclopentane	5161-12-6	16.882	127.136	1,2
8412	C6H12O	4-methyl-2-pentanone	108-10-1	17.820	125.830	1,2	8634	C6H12S	2-methylthiacyclohexane	5161-16-0	18.099	123.896	1,2
8413	C6H12O	ethyl isopropyl ketone	565-69-5	17.328	124.269	1,2	8635	C6H12S	3-methylthiacyclohexane	5258-50-4	18.300	123.253	1,2
8414	C6H12O	3,3-dimethyl-2-butanone	75-97-8	16.538	125.029	1,2	8636	C6H12S	4-methylthiacyclohexane	5161-17-1	18.315	123.292	1,2
8415	C6H12O	3-methyl-2-pentanone, (±)	55156-16-6	17.552	123.886	1,2	8647	C6H13Br	1-bromohexane	111-25-1	17.716	141.245	1,2
8416	C6H12O	2-ethyltetrahydrofuran	1003-30-1	17.357	117.611	1,2	8648	C6H13Br	2-bromohexane	3377-86-4	17.182	142.329	1,2
8417	C6H12O	3-ethyltetrahydrofuran	93716-28-0	17.398	120.376	2	8649	C6H13Br	3-bromohexane	3377-87-5	17.156	141.427	1,2
8418	C6H12O	2,2-dimethyltetrahydrofuran	1003-17-4	16.444	120.412	2	8650	C6H13Br	1-bromo-2-methylpentane	25346-33-2	17.275	140.847	1,2
8419	C6H12O	2,3-dimethyltetrahydrofuran	---	16.611	120.413	2	8651	C6H13Br	1-bromo-3-methylpentane	51116-73-5	17.435	140.249	1,2
8420	C6H12O	2,4-dimethyltetrahydrofuran	64265-26-5	16.638	120.412	2	8652	C6H13Br	1-bromo-4-methylpentane	626-88-0	17.296	142.011	1,2
8421	C6H12O	2,5-dimethyltetrahydrofuran	1003-38-9	16.455	120.424	2	8653	C6H13Br	2-bromo-2-methylpentane	4283-80-1	16.514	140.536	1,2
8422	C6H12O	3,3-dimethyltetrahydrofuran	15833-75-7	16.686	120.397	2	8654	C6H13Br	2-bromo-3-methylpentane	62168-41-6	16.673	141.088	1,2
8423	C6H12O	3,4-dimethyltetrahydrofuran	32970-37-9	17.022	120.388	2	8655	C6H13Br	2-bromo-4-methylpentane	30310-22-6	16.605	143.430	1,2
8425	C6H12O	1-hexen-3-ol	4798-44-1	18.105	120.426	1,2	8656	C6H13Br	3-bromo-2-methylpentane	4283-83-4	16.673	141.088	1,2
8426	C6H12O	cis-2-hexen-1-ol	928-94-9	19.347	118.773	1,2	8657	C6H13Br	3-bromo-3-methylpentane	25346-31-0	16.531	140.237	1,2
8427	C6H12O	trans-2-hexen-1-ol	928-95-0	19.332	118.953	1,2	8658	C6H13Br	1-bromo-2,2-dimethylbutane	62168-42-7	17.016	141.463	1,2
8428	C6H12O	cis-3-hexen-1-ol	928-96-1	19.346	118.471	1,2	8659	C6H13Br	1-bromo-2,3-dimethylbutane	30540-31-9	17.044	138.717	1,2
8429	C6H12O	trans-4-hexen-1-ol	928-92-7	19.495	118.203	1,2	8660	C6H13Br	1-bromo-3,3-dimethylbutane	1647-23-0	16.781	143.579	1,2
8430	C6H12O	4-hexen-2-ol	52387-50-5	18.305	119.931	1,2	8661	C6H13Br	2-bromo-2,3-dimethylbutane	594-52-5	16.554	139.845	1,2
8431	C6H12O	5-hexen-2-ol	626-94-8	18.375	119.933	1,2	8662	C6H13Br	2-bromo-3,3-dimethylbutane	26356-06-9	16.545	141.088	1,2
8432	C6H12O	2-methyl-2-penten-1-ol	1610-29-3	19.963	117.932	1,2	8663	C6H13Br	1-bromo-2-ethylbutane	3814-34-4	16.957	139.940	1,2
8433	C6H12O	2-methyl-3-penten-2-ol	63468-05-3	17.112	120.543	1,2	8669	C6H13Cl	1-chlorohexane	544-10-5	17.008	138.027	1,2
8434	C6H12O	2-methyl-4-penten-2-ol	624-97-5	17.392	121.222	1,2	8670	C6H13Cl	2-chlorohexane	638-28-8	16.463	139.383	1,2
8435	C6H12O	3-methyl-3-penten-2-ol	2747-53-7	18.902	113.923	1,2	8671	C6H13Cl	3-chlorohexane	2346-81-8	16.418	139.608	1,2
8436	C6H12O	3-methyl-4-penten-2-ol	1569-59-1	17.811	119.158	1,2	8672	C6H13Cl	1-chloro-2-methylpentane	14753-05-0	16.379	138.646	1,2
8437	C6H12O	4-methyl-2-penten-1-ol	5362-55-0	19.433	118.967	1,2	8673	C6H13Cl	1-chloro-3-methylpentane	62016-93-7	16.738	137.461	1,2
8438	C6H12O	4-methyl-3-penten-2-ol	4325-82-0	18.112	120.323	1,2	8674	C6H13Cl	1-chloro-4-methylpentane	62016-94-8	16.539	138.646	1,2
8439	C6H12O	4-methyl-3-pentenol	763-89-3	19.480	117.149	1,2	8675	C6H13Cl	2-chloro-2-methylpentane	4325-48-8	15.781	140.552	1,2
8440	C6H12O	4-methyl-4-penten-2-ol	2004-67-3	17.961	119.277	1,2	8676	C6H13Cl	2-chloro-3-methylpentane	24319-09-3	15.846	138.646	1,2
8449	C6H12O	5-hexen-1-ol	821-41-0	18.767	120.097	1,2	8677	C6H13Cl	2-chloro-4-methylpentane	25346-32-1	15.918	140.913	1,2
8450	C6H12O	trans-3-hexen-1-ol	928-97-2	17.363	122.596	1,2	8678	C6H13Cl	3-chloro-2-methylpentane	38384-05-3	16.010	138.646	1,2
8451	C6H12O	3-methyl-1-penten-3-ol	918-85-4	17.426	119.523	1,2	8679	C6H13Cl	3-chloro-3-methylpentane	918-84-3	16.052	138.328	1,2
8453	C6H12O	2,2-dimethyl-3-butanone	75-97-8	18.196	120.434	2	8680	C6H13Cl	1-chloro-2-ethylbutane	4737-41-1	16.726	136.080	1,2
8460	C6H12O2	hexanoic acid	142-62-1	23.446	126.124	1,2	8681	C6H13Cl	1-chloro-2,2-dimethylbutane	6366-35-4	16.108	137.916	1,2
8461	C6H12O2	2-ethyl butyric acid	88-09-5	21.725	126.398	1,2	8682	C6H13Cl	1-chloro-2,3-dimethylbutane	600-06-6	15.763	148.916	1,2
8462	C6H12O2	tert-butylacetic acid	1070-83-3	19.442	127.869	1,2	8683	C6H13Cl	1-chloro-3,3-dimethylbutane	2855-08-5	16.001	139.770	1,2
8463	C6H12O2	2,2-dimethylbutanoic acid	595-37-9	20.540	125.782	1,2	8684	C6H13Cl	2-chloro-2,3-dimethylbutane	594-57-0	15.279	148.366	1,2
8464	C6H12O2	2,3-dimethylbutanoic acid	14287-61-7	19.677	125.795	1,2	8685	C6H13Cl	2-chloro-3,3-dimethylbutane	5750-00-5	15.789	138.375	1,2
8465	C6H12O2	2-methylpentanoic acid, (±)	22160-39-0	19.804	126.406	1,2	8705	C6H13F	1-fluorohexane	373-14-8	16.005	131.161	1,2
8466	C6H12O2	3-methylpentanoic acid, (±)	22160-40-3	19.923	125.971	1,2	8706	C6H13F	2-fluorohexane	372-54-3	15.584	132.512	1,2
8467	C6H12O2	4-methylpentanoic acid	646-07-1	20.020	126.474	1,2	8707	C6H13F	3-fluorohexane	52688-75-2	15.503	131.858	1,2
8468	C6H12O2	pentyl formate	638-49-3	18.575	131.850	1,2	8708	C6H13F	1-fluoro-2-methylpentane	62127-27-9	15.372	133.548	1,2
8469	C6H12O2	1-methylbutyl formate	58368-66-4	17.538	124.598	2	8709	C6H13F	1-fluoro-3-methylpentane	62127-28-0	15.552	133.548	1,2
8470	C6H12O2	2-methylbutyl formate	35073-27-9	17.449	124.598	2	8710	C6H13F	1-fluoro-4-methylpentane	62127-29-1	15.445	133.548	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
8711	C6H13F	2-fluoro-2-methylpentane	62127-30-4	14.994	133.548	1,2	8997	C6H14O	methyl 1-methylbutyl ether	6795-88-6	15.607	136.235	1,2
8712	C6H13F	2-fluoro-3-methylpentane	62127-31-5	15.092	133.548	1,2	8998	C6H14O	methyl 2-methylbutyl ether	62016-48-2	15.531	136.966	1,2
8713	C6H13F	2-fluoro-4-methylpentane	62127-32-6	15.092	133.548	1,2	8999	C6H14O	methyl 3-methylbutyl ether	626-91-5	15.541	136.783	1,2
8714	C6H13F	3-fluoro-2-methylpentane	62127-33-7	14.914	133.548	1,2	9000	C6H14O	methyl 1-ethylpropyl ether	36839-67-5	15.491	136.417	1,2
8715	C6H13F	3-fluoro-3-methylpentane	19031-61-9	14.628	133.548	1,2	9001	C6H14O	methyl 1,2-dimethylpropyl ether	62016-49-3	15.270	135.495	1,2
8716	C6H13F	1-fluoro-2,2-dimethylbutane	62127-34-8	15.184	133.548	1,2	9002	C6H14O	methyl tert-pentyl ether	994-05-8	15.438	133.390	1,2
8717	C6H13F	1-fluoro-2,3-dimethylbutane	62127-35-9	15.142	133.548	1,2	9003	C6H14O	methyl 2,2-dimethylpropyl ether	1118-00-9	15.168	135.513	1,2
8718	C6H13F	1-fluoro-3,3-dimethylbutane	371-64-2	15.016	134.150	1,2	9004	C6H14O	ethyl butyl ether	628-81-9	15.704	137.150	1,2
8719	C6H13F	2-fluoro-2,3-dimethylbutane	354-09-6	14.628	133.548	1,2	9005	C6H14O	ethyl isobutyl ether	627-02-1	15.073	139.528	1,2
8720	C6H13F	2-fluoro-3,3-dimethylbutane	92089-78-6	14.658	133.548	1,2	9006	C6H14O	ethyl sec-butyl ether	2679-87-0	15.133	138.507	1,2
8721	C6H13F	1-fluoro-2-ethylbutane	---	14.256	133.548	1,2	9007	C6H14O	ethyl tert-butyl ether	637-92-3	14.613	139.054	1,2
8724	C6H13I	1-iodohexane	638-45-9	19.494	147.982	1,2	9008	C6H14O	(S)-(+)-2-hexanol	52019-78-0	17.982	125.524	1,2
8725	C6H13I	2-iodohexane	59654-13-6	18.827	150.183	1,2	9009	C6H14O	tert-hexyl alcohol	26401-20-7	17.099	129.470	2
8726	C6H13I	3-iodohexane	31294-91-4	18.848	149.348	1,2	9020	C6H14O2	acetal	105-57-7	16.502	143.941	1,2
8727	C6H13I	1-iodo-2-methylpentane	31294-94-7	18.848	149.348	1,2	9021	C6H14O2	2-butoxyethanol	111-76-2	20.245	131.893	1,2
8728	C6H13I	1-iodo-3-methylpentane	24346-53-0	18.854	152.242	1,2	9022	C6H14O2	hexylene glycol	107-41-5	25.082	128.732	1,2
8729	C6H13I	1-iodo-4-methylpentane	6196-80-1	19.019	149.169	1,2	9023	C6H14O2	1,2-hexanediol	6920-22-5	24.037	130.229	2
8730	C6H13I	2-iodo-2-methylpentane	31294-95-8	18.110	149.348	1,2	9024	C6H14O2	1,3-hexanediol	21531-91-9	25.359	123.698	1,2
8731	C6H13I	2-iodo-3-methylpentane	24319-07-1	18.327	149.348	1,2	9025	C6H14O2	1,4-hexanediol	16432-53-4	26.292	121.657	1,2
8732	C6H13I	2-iodo-4-methylpentane	31294-96-9	18.365	149.348	1,2	9026	C6H14O2	1,5-hexanediol	928-40-5	25.364	122.589	1,2
8733	C6H13I	3-iodo-2-methylpentane	31294-97-0	18.327	149.348	1,2	9027	C6H14O2	1,6-hexanediol	629-11-8	26.103	129.691	2
8734	C6H13I	3-iodo-3-methylpentane	24319-05-2	18.110	149.348	1,2	9028	C6H14O2	2,3-hexanediol	617-30-1	23.399	125.219	1,2
8735	C6H13I	1-iodo-2,2-dimethylbutane	31294-98-1	18.475	149.348	1,2	9029	C6H14O2	2,4-hexanediol	19780-90-6	20.795	124.653	1,2
8736	C6H13I	1-iodo-2,3-dimethylbutane	31295-00-8	18.472	149.348	1,2	9030	C6H14O2	2,5-hexanediol	2935-44-6	24.203	125.732	1,2
8737	C6H13I	1-iodo-3,3-dimethylbutane	15672-88-5	18.555	149.348	1,2	9031	C6H14O2	3,4-hexanediol	922-17-8	24.387	127.763	2
8738	C6H13I	2-iodo-2,3-dimethylbutane	594-59-2	18.243	147.171	1,2	9032	C6H14O2	2-methyl-1,2-pentanediol	20667-05-4	23.953	127.770	2
8739	C6H13I	2-iodo-3,3-dimethylbutane	24556-56-7	18.123	149.348	1,2	9033	C6H14O2	2-methyl-1,3-pentanediol	149-31-5	24.266	127.768	2
8740	C6H13I	1-iodo-2-ethylbutane	---	18.479	147.581	1,2	9034	C6H14O2	2-methyl-1,5-pentanediol	42856-62-2	24.387	127.763	2
8742	C6H13N	cyclohexylamine	108-91-8	18.832	114.920	1,2	9035	C6H14O2	2-methyl-2,3-pentanediol	7795-80-4	24.308	127.744	2
8745	C6H13N	hexamethyleneimine	111-49-9	19.577	113.344	1,2	9036	C6H14O2	3-methyl-1,3-pentanediol	33879-72-0	23.709	127.779	2
8790	C6H13NO2	1-nitrohexane	646-14-0	19.366	140.559	1,2	9037	C6H14O2	3-methyl-1,5-pentanediol	4457-71-0	25.406	127.742	2
8791	C6H13NO2	2-nitrohexane	14255-44-8	18.603	142.582	1,2	9038	C6H14O2	3-methyl-2,3-pentanediol	63521-37-9	24.308	127.744	2
8792	C6H13NO2	3-nitrohexane	7286-40-0	18.724	140.746	1,2	9039	C6H14O2	3-methyl-2,4-pentanediol	5683-44-3	25.436	123.111	1,2
8793	C6H13NO2	1-nitro-2-methylpentane	---	19.300	131.123	2	9040	C6H14O2	4-methyl-1,4-pentanediol	1462-10-8	24.103	127.765	2
8794	C6H13NO2	1-nitro-3-methylpentane	---	19.300	131.123	2	9041	C6H14O2	DL-erythro-4-methyl-2,3-pentanediol	6702-10-9	24.381	130.346	2
8795	C6H13NO2	1-nitro-4-methyl pentane	---	19.300	131.123	2	9042	C6H14O2	DL-threo-4-methyl-2,3-pentanediol	6464-40-0	24.129	131.489	2
8796	C6H13NO2	2-nitro-2-methylpentane	---	18.914	131.752	2	9043	C6H14O2	2-ethyl-1,2-butanediol	66553-16-0	22.798	130.492	2
8797	C6H13NO2	2-nitro-3-methylpentane	42202-42-6	19.075	131.122	2	9044	C6H14O2	2-ethyl-1,3-butanediol	66553-17-1	24.345	122.083	1,2
8798	C6H13NO2	2-nitro-4-methylpentane	---	19.070	131.122	2	9045	C6H14O2	2-ethyl-1,4-butanediol	57716-79-7	23.795	127.786	2
8799	C6H13NO2	3-nitro-2-methylpentane	---	19.070	131.122	2	9046	C6H14O2	2,2-dimethyl-1,3-butanediol	76-35-7	23.275	127.782	2
8800	C6H13NO2	3-nitro-3-methylpentane	---	18.820	131.761	2	9047	C6H14O2	2,2-dimethyl-1,4-butanediol	32812-23-0	23.430	127.776	2
8801	C6H13NO2	1-nitro-2,2-dimethylbutane	2625-29-8	18.794	131.764	2	9048	C6H14O2	2,3-dimethyl-1,2-butanediol	66553-15-9	23.430	127.776	2
8802	C6H13NO2	1-nitro-2,3-dimethylbutane	66553-34-2	18.829	137.212	1,2	9049	C6H14O2	2,3-dimethyl-1,3-butanediol	24893-35-4	23.921	122.589	1,2
8803	C6H13NO2	1-nitro-3,3-dimethylbutane	---	18.883	131.755	2	9050	C6H14O2	DL-2,3 -dimethyl-1,4-butanediol	---	24.387	127.763	2
8804	C6H13NO2	2-nitro-2,3-dimethylbutane	34075-28-0	18.770	131.119	2	9051	C6H14O2	meso-2,3-dimethyl-1,4-butanediol	---	24.387	127.763	2
8805	C6H13NO2	2-nitro-3,3-dimethylbutane	599-02-0	18.247	133.181	2	9052	C6H14O2	2,3-dimethyl-2,3-butanediol	76-09-5	21.420	130.061	2
8806	C6H13NO2	1-nitro-2-ethylbutane	---	19.268	131.123	2	9053	C6H14O2	3,3-dimethyl-1,2-butanediol	59562-82-2	22.756	130.748	2
8877	C6H14	hexane	110-54-3	14.984	131.368	1,2	9054	C6H14O2	2-propyl-1,3-propanediol	2612-28-4	23.760	127.802	2
8878	C6H14	2,2-dimethylbutane	75-83-2	13.766	133.815	1,2	9055	C6H14O2	2-isopropyl-1,3-propanediol	2612-27-3	24.387	127.763	2
8879	C6H14	2,3-dimethylbutane	79-29-8	14.357	130.968	1,2	9056	C6H14O2	2-methyl-2-ethyl-1,3-propanediol	77-84-9	23.865	129.563	2
8880	C6H14	2-methylpentane	107-83-5	14.414	132.989	1,2	9057	C6H14O2	1-(1-methylethoxy)-2-propanol	3944-36-3	17.680	135.143	1,2
8881	C6H14	3-methylpentane	96-14-0	14.675	130.571	1,2	9058	C6H14O2	2-(2-methylpropoxy)ethanol	4439-24-1	18.258	133.481	1,2
8944	C6H14N2O2	lysine	56-87-1	22.235	168.695	2	9059	C6H14O2	1-propoxy-2-propanol	1569-01-3	17.789	133.690	1,2
8970	C6H14O	1-hexanol	111-27-3	21.491	125.216	1,2	9060	C6H14O2	ethylene glycol diethyl ether	629-14-1	15.652	139.994	1,2
8971	C6H14O	2-hexanol	626-93-7	21.108	126.144	1,2	9061	C6H14O2	(2R,5R)-2,5-hexanediol	17299-07-9	20.084	130.819	2
8972	C6H14O	3-hexanol	623-37-0	18.641	125.461	1,2	9062	C6H14O2	(2S,5S)-2,5-hexanediol	34338-96-0	20.049	131.010	2
8973	C6H14O	2-methyl-1-pentanol	105-30-6	21.236	123.551	1,2	9063	C6H14O2	3-methoxy-3-methylbutanol	56539-66-3	19.271	128.732	1,2
8974	C6H14O	3-methyl-1-pentanol	589-35-5	19.494	124.604	1,2	9064	C6H14O2	(R)-(-)-2-methyl-2,4-pentanediol	99210-90-9	20.014	125.987	1,2
8975	C6H14O	4-methyl-1-pentanol	626-89-1	19.311	126.220	1,2	9067	C6H14O2	ethylene glycol mono-sec-butyl ether	7795-91-7	21.256	127.830	2
8976	C6H14O	4-methyl-2-pentanol	108-11-2	19.311	126.927	1,2	9068	C6H14O2	n-propoxypropanol (mixed isomers)	30136-13-1	21.256	127.830	2
8977	C6H14O	2-methyl-2-pentanol	590-36-3	18.187	126.220	1,2	9069	C6H14O2S	dipropyl sulfone	598-03-8	21.954	143.873	1,2
8978	C6H14O	3-methyl-2-pentanol	565-60-6	18.804	123.879	1,2	9075	C6H14O3	diethylene glycol dimethyl ether	111-96-6	18.976	142.437	1,2
8979	C6H14O	2-methyl-3-pentanol	565-67-3	18.455	124.650	1,2	9076	C6H14O3	dipropylene glycol	25265-71-8	25.834	131.803	1,2
8980	C6H14O	3-methyl-3-pentanol	77-74-7	18.328	124.029	1,2	9077	C6H14O3	2-(2-ethoxyethoxy)ethanol	111-90-0	21.363	136.357	1,2
8981	C6H14O	2-ethyl-1-butanol	97-95-0	20.901	123.253	1,2	9078	C6H14O3	trimethylolpropane	77-99-6	27.842	135.580	2
8982	C6H14O	2,2-dimethyl-1-butanol	1185-33-7	18.658	123.909	1,2	9092	C6H14O4	triethylene glycol	112-27-6	27.185	133.846	1,2
8983	C6H14O	2,3-dimethyl-1-butanol	19550-30-2	19.327	123.774	1,2	9100	C6H14O6	sorbitol	50-70-4	40.330	127.828	1,2
8984	C6H14O	2,3-dimethyl-1-butanol, (±)-	20281-85-0	18.389	123.837	1,2	9107	C6H14S	hexyl mercaptan	111-31-9	17.540	141.270	1,2
8985	C6H14O	3,3-dimethyl-1-butanol	624-95-3	19.077	126.191	1,2	9108	C6H14S	2-hexanethiol	1679-06-7	16.730	142.427	1,2
8986	C6H14O	2,3-dimethyl-2-butanol	594-60-5	17.854	124.878	1,2	9109	C6H14S	2,3-dimethyl-2-butanethiol	1639-01-6	16.032	141.943	2
8987	C6H14O	3,3-dimethyl-2-butanol	464-07-3	17.857	125.538	1,2	9110	C6H14S	3-hexanethiol	1633-90-5	16.810	129.115	1,2
8988	C6H14O	3,3-dimethyl-2-butanol, (±)	20281-91-8	17.661	125.802	1,2	9111	C6H14S	2-methyl-2-pentanethiol	1633-97-2	16.032	141.943	2
8989	C6H14O	(RS)-2-hexanol	20281-86-1	18.023	125.921	1,2	9112	C6H14S	dipropyl sulfide	111-47-7	17.083	141.949	1,2
8990	C6H14O	2-hexanol, (R)	26549-24-6	17.885	125.903	1,2	9113	C6H14S	diisopropyl sulfide	625-80-9	16.371	143.848	1,2
8991	C6H14O	3-hexanol, (R)	13471-42-6	17.850	125.098	1,2	9114	C6H14S	methyl pentyl sulfide	1741-83-9	16.844	140.933	1,2
8992	C6H14O	3-methyl-1-pentanol, (±)	20281-83-8	18.743	124.660	1,2	9115	C6H14S	ethyl butyl sulfide	638-46-0	17.134	141.949	1,2
8993	C6H14O	dipropyl ether	111-43-3	15.751	137.890	1,2	9116	C6H14S	3-methyl-2-thiahexane	13286-91-4	16.883	141.102	1,2
8994	C6H14O	propyl isopropyl ether	627-08-7	15.031	139.585	1,2	9117	C6H14S	4-methyl-2-thiahexane	15013-37-3	16.913	141.102	1,2
8995	C6H14O	diisopropyl ether	108-20-3	14.536	141.715	1,2	9118	C6H14S	5-methyl-2-thiahexane	13286-90-3	16.852	141.102	1,2
8996	C6H14O	methyl pentyl ether	628-80-8	16.049	135.190	1,2	9119	C6H14S	2-methyl-3-thiahexane	5008-73-1	16.513	143.761	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
9120	C6H14S	4-methyl-3-thiahexane	5008-72-0	16.645	142.342	1,2	9519	C7H3Cl2F3	2,4-dichlorobenzotrifluoride	320-60-5	18.407	144.103	1,2
9121	C6H14S	5-methyl-3-thiahexane	1613-45-2	16.616	143.134	1,2	9527	C7H3Cl2NO	3,4-dichlorophenyl isocyanate	102-36-3	19.497	136.202	2
9122	C6H14S	3-ethyl-2-thiapentane	57093-84-2	16.543	143.134	1,2	9684	C7H4ClF3	p-chlorobenzotrifluoride	98-56-6	16.488	147.273	1,2
9123	C6H14S	3,3-dimethyl-2-thiapentane	13286-92-5	16.104	144.888	1,2	9736	C7H4Cl2O	m-chlorobenzoyl chloride	618-46-2	21.361	122.387	1,2
9124	C6H14S	3,4-dimethyl-2-thiapentane	53897-51-1	16.217	144.888	1,2	9799	C7H4F3NO2	3-nitrobenzotrifluoride	98-46-4	20.329	134.018	1,2
9125	C6H14S	4,4-dimethyl-2-thiapentane	6079-57-8	16.104	144.888	1,2	9927	C7H5ClO	benzoyl chloride	98-88-4	21.037	116.558	1,2
9126	C6H14S	2,2-dimethyl-3-thiapentane	14290-92-7	15.871	144.888	1,2	9932	C7H5ClO2	o-chlorobenzoic acid	118-91-2	23.740	112.330	1,2
9127	C6H14S2	1,1-bis(ethylthio)ethane	14252-42-7	16.924	155.525	1,2	9967	C7H5Cl3	benzotrichloride	98-07-7	18.351	142.786	1,2
9128	C6H14S2	1,2-bis(ethylthio)ethane	5395-75-5	18.725	153.804	1,2	9968	C7H5Cl3	1,2-dichloro-4-(chloromethyl)benzene	102-47-6	20.871	141.468	2
9129	C6H14S2	diisopropyl disulfide	4253-89-8	16.096	159.975	1,2	9969	C7H5Cl3	1,3-dichloro-5-(chloromethyl)benzene	3290-06-0	18.106	141.304	2
9130	C6H14S2	dipropyl disulfide	629-19-6	17.811	157.392	1,2	9970	C7H5Cl3	1,2,3-trichloro-4-methylbenzene	7359-72-0	19.782	142.127	2
9135	C6H15Al	triethyl aluminum	97-93-8	22.639	137.055	1,2	9971	C7H5Cl3	1,2,3-trichloro-5-methylbenzene	21472-86-6	19.825	142.349	2
9173	C6H15N	hexylamine	111-26-2	17.681	132.973	1,2	9972	C7H5Cl3	1,2,4-trichloro-5-methylbenzene	6639-30-1	19.032	146.654	2
9174	C6H15N	2-aminohexane	5329-79-3	17.528	132.624	1,2	9973	C7H5Cl3	1,2,5-trichloro-3-methylbenzene	56961-86-5	19.639	142.349	2
9175	C6H15N	3-aminohexane	16751-58-9	17.795	131.418	1,2	9974	C7H5Cl3	3-chlorobenzal chloride	15145-69-4	18.112	141.266	2
9176	C6H15N	1-amino-2-methylpentane	13364-16-4	17.423	132.624	1,2	9975	C7H5Cl3	2,6-dichlorobenzyl chloride	2014-83-7	12.320	141.468	2
9177	C6H15N	1-amino-3-methylpentane	42245-37-4	17.469	131.932	1,2	9976	C7H5Cl3	dichlorobenzyl chloride	38721-71-0	12.658	139.773	1,2
9178	C6H15N	1-amino-4-methylpentane	5344-20-7	17.403	131.418	1,2	9977	C7H5Cl3	2,4-dichlorobenzyl chloride	94-99-5	20.364	139.029	1,2
9179	C6H15N	2-amino-2-methylpentane	53310-02-4	16.196	136.194	1,2	9978	C7H5Cl3	2,3,6-trichlorotoluene	2077-46-5	18.112	141.266	2
9180	C6H15N	2-amino-3-methylpentane	35399-81-6	17.429	134.923	1,2	9979	C7H5Cl3	a-a-p-trichlorotoluene	13940-94-8	18.112	141.266	2
9181	C6H15N	2-amino-4-methylpentane	108-09-8	16.494	135.719	1,2	10003	C7H5F3	benzotrifluoride	98-08-8	16.834	124.034	1,2
9182	C6H15N	3-amino-2-methylpentane	54287-41-1	17.429	134.923	1,2	10045	C7H5N	benzonitrile	100-47-0	22.520	103.021	1,2
9183	C6H15N	3-amino-3-methylpentane	3495-46-3	17.097	133.148	1,2	10049	C7H5NO	phenyl isocyanate	103-71-9	20.588	108.987	1,2
9184	C6H15N	1-amino-2,2-dimethylbutane	41781-17-3	16.704	133.148	1,2	10118	C7H5N3O6	2,4,6-trinitrotoluene	118-96-7	20.855	143.120	1,2
9185	C6H15N	1-amino-2,3-dimethylbutane	66553-05-7	16.451	134.439	1,2	10252	C7H6Cl2	benzyl dichloride	98-87-3	19.074	129.134	1,2
9186	C6H15N	1-amino-3,3-dimethylbutane	15673-00-4	17.342	133.148	1,2	10253	C7H6Cl2	2,4-dichlorotoluene	95-73-8	19.889	129.134	1,2
9187	C6H15N	2-amino-2,3-dimethylbutane	4358-75-2	16.201	133.148	1,2	10254	C7H6Cl2	1-chloro-2-(chloromethyl)benzene	611-19-8	21.091	126.805	1,2
9188	C6H15N	2-amino-3,3-dimethyl butane	3850-30-4	16.206	133.148	1,2	10255	C7H6Cl2	1-chloro-3-(chloromethyl)benzene	620-20-2	20.902	127.853	1,2
9189	C6H15N	1-amino-2-ethylbutane	617-79-8	17.679	133.148	1,2	10256	C7H6Cl2	1-chloro-4-(chloromethyl)benzene	104-83-6	21.464	129.083	2
9190	C6H15N	2-hexanamine, (±)	68107-05-1	17.676	135.119	1,2	10257	C7H6Cl2	2,3-dichlorotoluene	32768-54-0	19.914	129.766	1,2
9191	C6H15N	methylpentylamine	25419-06-1	16.939	136.212	1,2	10258	C7H6Cl2	2,5-dichlorotoluene	19398-61-9	19.282	128.972	1,2
9192	C6H15N	methyl-1-methylbutylamine	51932-19-5	16.616	136.746	1,2	10259	C7H6Cl2	2,6-dichlorotoluene	118-69-4	19.203	127.523	1,2
9193	C6H15N	methyl-2-methylbutylamine	90023-96-4	16.616	136.746	1,2	10260	C7H6Cl2	3,4-dichlorotoluene	95-75-0	20.132	128.675	1,2
9194	C6H15N	methyl-3-methylbutylamine	52317-98-3	16.437	136.746	1,2	10261	C7H6Cl2	3,5-dichlorotoluene	25186-47-4	19.437	128.568	2
9195	C6H15N	methyl-1,1-dimethylpropylamine	---	16.297	136.746	1,2	10363	C7H6N2O4	2,4-dinitrotoluene	121-14-2	25.016	137.737	1,2
9196	C6H15N	methyl-1,2-dimethylpropylamine	34317-39-0	16.616	136.746	1,2	10364	C7H6N2O4	2,5-dinitrotoluene	619-15-8	24.890	135.664	1,2
9197	C6H15N	methyl-2,2-dimethylpropylamine	26153-91-3	16.297	136.746	1,2	10365	C7H6N2O4	2,6-dinitrotoluene	606-20-2	23.732	136.285	1,2
9198	C6H15N	ethylbutylamine	13360-63-9	16.494	137.601	1,2	10366	C7H6N2O4	3,4-dinitrotoluene	610-39-9	25.000	139.175	1,2
9199	C6H15N	ethyl-sec-butylamine	21035-44-9	15.979	138.638	1,2	10367	C7H6N2O4	3,5-dinitrotoluene	618-85-9	22.897	140.550	1,2
9200	C6H15N	ethylisobutylamine	13205-60-2	15.980	138.619	1,2	10404	C7H6O	benzaldehyde	100-52-7	21.751	102.042	1,2
9201	C6H15N	ethyl-tert-butylamine	4432-77-3	15.063	138.619	1,2	10408	C7H6O2	benzoic acid	65-85-0	23.137	105.697	1,2
9202	C6H15N	di-propylamine	142-84-7	16.699	137.303	1,2	10409	C7H6O2	p-hydroxybenzaldehyde	123-08-0	25.998	107.252	1,2
9203	C6H15N	diisopropylamine	108-18-9	15.055	141.924	1,2	10410	C7H6O2	salicylaldehyde	90-02-8	24.385	105.098	1,2
9204	C6H15N	propylisopropylamine	21968-17-2	15.916	139.923	1,2	10420	C7H6O3	salicylic acid	69-72-7	23.683	109.531	1,2
9205	C6H15N	N-ethyl-2-butanamine, (±)	116724-10-8	15.435	138.316	1,2	10462	C7H7Br	p-bromotoluene	106-38-7	19.396	121.664	1,2
9206	C6H15N	methylethylpropylamine	4458-32-6	15.494	140.936	1,2	10463	C7H7Br	(bromomethyl)benzene	100-39-0	21.790	118.941	1,2
9207	C6H15N	methylethylisopropylamine	39198-07-7	15.433	140.272	1,2	10464	C7H7Br	o-bromotoluene	95-46-5	19.718	120.666	1,2
9208	C6H15N	dimethylbutylamine	927-62-8	15.040	141.310	1,2	10465	C7H7Br	m-bromotoluene	591-17-3	19.811	121.801	1,2
9209	C6H15N	dimethyl-sec-butylamine	921-04-0	15.654	137.864	1,2	10492	C7H7Cl	benzyl chloride	100-44-7	20.125	115.392	1,2
9210	C6H15N	dimethylisobutylamine	7239-24-9	15.050	140.545	1,2	10493	C7H7Cl	o-chlorotoluene	95-49-8	19.199	117.535	1,2
9211	C6H15N	dimethyl-tert-butylamine	918-02-5	15.353	137.172	1,2	10494	C7H7Cl	p-chlorotoluene	106-43-4	19.291	119.083	1,2
9212	C6H15N	triethylamine	121-44-8	15.172	139.768	1,2	10495	C7H7Cl	m-chlorotoluene	108-41-8	19.109	118.492	1,2
9213	C6H15NO	6-aminohexanol	4048-33-3	23.711	136.547	2	10555	C7H7F	p-fluorotoluene	352-32-9	19.481	111.131	1,2
9214	C6H15NO	2-amino-4-methyl-1-pentanol, (±)	16369-17-8	20.249	131.430	1,2	10556	C7H7F	(fluoromethyl)benzene	350-50-5	21.405	107.676	1,2
9215	C6H15NO	2-(butylamino)ethanol	111-75-1	20.080	134.109	1,2	10557	C7H7F	o-fluorotoluene	95-52-3	18.157	111.099	1,2
9216	C6H15NO	2-[tert-butylamino]ethanol	4620-70-6	17.753	135.787	1,2	10558	C7H7F	m-fluorotoluene	352-70-5	18.164	111.016	1,2
9217	C6H15NO	2-diethylaminoethanol	100-37-8	17.078	131.950	1,2	10611	C7H7NO	formanilide	103-70-8	25.166	108.295	1,2
9220	C6H15NO	2-(isobutylamino)ethanol	17091-40-6	19.981	135.441	1,2	10626	C7H7NO2	m-nitrotoluene	99-08-1	21.619	119.044	1,2
9221	C6H15NO	DL-2-amino-1-hexanol	5665-74-7	19.525	130.443	1,2	10627	C7H7NO2	o-nitrotoluene	88-72-2	21.747	118.427	1,2
9222	C6H15NO	2-dimethylamino-2-methyl-1-propanol	7005-47-2	16.803	132.492	2	10628	C7H7NO2	p-nitrotoluene	99-99-0	21.438	121.884	1,2
9228	C6H15NO	4-amino-4-methyl-2-pentanol	4404-98-2	17.686	134.446	2	10660	C7H7NO3	o-nitroanisole	91-23-6	23.989	123.101	1,2
9230	C6H15NO2	diisopropanolamine	110-97-4	26.380	137.166	1,2	10724	C7H8	1,3,5-cycloheptatriene	544-25-2	19.097	104.468	1,2
9239	C6H15NO3	triethanolamine	102-71-6	27.319	133.206	1,2	10725	C7H8	toluene	108-88-3	18.347	106.521	1,2
9247	C6H15N3	N-aminoethyl piperazine	140-31-8	21.763	131.441	1,2	10850	C7H8O	anisole	100-66-3	20.103	109.232	1,2
9268	C6H15O4P	triethyl phosphate	78-40-0	14.120	170.879	1,2	10851	C7H8O	benzyl alcohol	100-51-6	24.654	103.881	1,2
9292	C6H16N2	hexamethylenediamine	124-09-4	20.410	143.898	2	10852	C7H8O	m-cresol	108-39-4	24.081	104.990	1,2
9293	C6H16N2	N,N-diethyl-1,2-ethanediamine	100-36-7	15.495	140.930	1,2	10853	C7H8O	o-cresol	95-48-7	23.215	105.480	1,2
9294	C6H16N2	N,N'-diethyl-1,2-ethanediamine	111-74-0	15.645	140.930	1,2	10854	C7H8O	p-cresol	106-44-5	23.741	105.725	1,2
9295	C6H16N2	N,N,N',N'-tetramethyl-1,2-ethanediamine	110-18-9	13.440	150.918	1,2	10855	C7H8O	cresol mixture	1319-77-3	23.082	104.584	1,2
9297	C6H16N2	N-butylethylenediamine	19522-69-1	16.707	139.004	1,2	10866	C7H8O2	guaiacol	90-05-1	22.273	110.904	1,2
9298	C6H16N2	1,5-diamino-2-methylpentane	15520-10-2	19.024	135.124	1,2	10867	C7H8O2	p-methoxyphenol	150-76-5	23.864	113.576	2
9299	C6H16N2	N-isopropyl-1,3-propanediamine	3360-16-5	16.984	140.008	1,2	10868	C7H8O2	1,2-dihydroxy-3-methylbenzene	488-17-5	23.039	113.167	2
9300	C6H16N2	N-propyl-1,3-propanediamine	23764-31-0	17.715	138.177	1,2	10869	C7H8O2	1,2-dihydroxy-4-methylbenzene	452-86-8	23.755	109.648	1,2
9301	C6H16N2	N,N,N'-trimethyl-1,3-propanediamine	4543-96-8	14.979	146.541	1,2	10870	C7H8O2	1,3-dihydroxy-2-methylbenzene	608-25-3	22.735	115.046	2
9302	C6H16N2	2-methyl-2,4-pentanediamine	21586-21-0	16.374	142.000	2	10871	C7H8O2	1,3-dihydroxy-4-methylbenzene	496-73-1	23.140	114.426	2
9359	C6H18N4	triethylene tetramine	112-24-3	24.042	149.527	1,2	10872	C7H8O2	1,3-dihydroxy-5-methylbenzene	504-15-4	25.288	99.942	1,2
9362	C6H18OSi2	hexamethyldisiloxane	107-46-0	12.575	213.656	1,2	10873	C7H8O2	1,4-dihydroxy-2-methylbenzene	95-71-6	23.229	115.062	2
9366	C6H18O3Si3	hexamethylcyclotrisiloxane	541-05-9	13.523	211.840	1,2	10918	C7H8S	o-methylthiophenol	137-06-4	20.078	119.775	1,2
9378	C6H19NSi2	hexamethyldisilazane	999-97-3	13.631	209.059	1,2	10919	C7H8S	m-methylthiophenol	108-40-7	20.134	119.429	1,2
9508	C7H3ClF3NO2	4-chloro-3-nitrobenzotrifluoride	121-17-5	20.319	149.771	1,2	10920	C7H8S	p-methylthiophenol	106-45-6	19.791	120.843	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
10921	C7H8S	methyl phenyl sulfide	100-68-5	20.177	117.899	1,2	11365	C7H12	2,4-dimethyl-1,3-pentadiene	1000-86-8	15.758	131.254	1,2
10922	C7H8S	benzenemethanethiol	100-53-8	20.461	117.860	1,2	11369	C7H12	2,4-dimethyl-2,3-pentadiene	1000-87-9	15.093	137.193	1,2
10953	C7H9N	benzylamine	100-46-9	21.689	109.231	1,2	11413	C7H12O	2-heptenal	2463-63-0	18.626	130.781	1,2
10954	C7H9N	N-methylaniline	100-61-8	21.680	109.120	1,2	11414	C7H12O	3-heptenal	89896-73-1	17.799	132.999	1,2
10955	C7H9N	m-toluidine	108-44-1	22.099	108.787	1,2	11415	C7H12O	1-hepten-3-one	2918-13-0	17.856	133.641	1,2
10956	C7H9N	o-toluidine	95-53-4	22.486	107.802	1,2	11416	C7H12O	4-hepten-2-one	24332-22-7	18.057	130.673	1,2
10957	C7H9N	p-toluidine	106-49-0	21.477	113.559	1,2	11417	C7H12O	6-hepten-2-one	21889-88-3	17.690	130.229	1,2
10958	C7H9N	2,3-dimethylpyridine	583-61-9	19.669	113.733	1,2	11418	C7H12O	6-hepten-3-one	2565-39-1	17.374	133.065	1,2
10959	C7H9N	2,4-dimethylpyridine	108-47-4	19.429	115.534	1,2	11419	C7H12O	cis-3-hepten-2-one	69668-88-8	17.862	133.547	1,2
10960	C7H9N	2,5-dimethylpyridine	589-93-5	19.430	115.874	1,2	11420	C7H12O	trans-3-hepten-2-one	5609-09-6	17.912	132.671	1,2
10961	C7H9N	2,6-dimethylpyridine	108-48-5	19.296	116.727	1,2	11421	C7H12O	trans-5-hepten-2-one	1071-94-9	17.816	133.468	1,2
10962	C7H9N	3,4-dimethylpyridine	583-58-4	20.333	112.322	1,2	11422	C7H12O	2-methyl-4-hexen-3-one	53252-19-0	17.658	132.608	1,2
10963	C7H9N	3,5-dimethylpyridine	591-22-0	19.975	114.263	1,2	11423	C7H12O	3-methyl-5-hexen-2-one	2550-22-3	17.105	134.022	1,2
10964	C7H9N	2-ethylpyridine	100-71-0	19.120	115.457	1,2	11424	C7H12O	4-methyl-5-hexen-2-one	61675-14-7	17.026	135.588	1,2
10965	C7H9N	3-ethylpyridine	536-78-7	19.927	114.360	1,2	11425	C7H12O	5-methyl-1-hexen-3-one	2177-32-4	17.778	134.813	1,2
10966	C7H9N	4-ethylpyridine	536-75-4	19.798	114.385	1,2	11426	C7H12O	5-methyl-3-hexen-2-one	5166-53-0	18.047	130.821	1,2
11047	C7H10	2-norbornene	498-66-8	15.762	120.822	2	11427	C7H12O	5-methyl-4-hexen-2-one	28332-44-7	17.976	130.469	1,2
11049	C7H10	1-hepten-3-yne	2384-73-8	17.004	124.529	1,2	11428	C7H12O	5-methyl-5-hexen-2-one	3240-09-3	17.702	133.233	1,2
11050	C7H10	3-ethyl-3-penten-1-yne	14272-54-9	16.728	119.397	1,2	11429	C7H12O	2-methylcyclohexanone, (±)	24965-84-2	18.912	121.822	1,2
11056	C7H10	2-methyl-1-hexen-3-yne	23056-94-2	17.337	124.217	1,2	11430	C7H12O	3-methylcyclohexanone, (±)	625-96-7	18.967	123.336	1,2
11057	C7H10	1-methyl-1,3-cyclohexadiene	1489-56-1	16.890	118.124	2	11431	C7H12O	4-methylcyclohexanone	589-92-4	19.012	123.309	1,2
11079	C7H10N2	m-toluenediamine	95-80-7	22.987	125.123	2	11433	C7H12O	2,2-dimethyl-4-pentenal	5497-67-6	16.504	135.966	1,2
11147	C7H10O	2-ethyl-5-methylfuran	1703-52-2	17.150	124.633	1,2	11436	C7H12O	trans-2-heptenal	18829-55-5	17.998	132.122	1,2
11151	C7H10O	2-propylfuran	4229-91-8	16.946	124.730	1,2	11437	C7H12O	(Z)-hept-4-enal	6728-31-0	18.009	131.967	1,2
11225	C7H10S	2-propylthiophene	1551-27-5	18.156	130.950	1,2	11439	C7H12O	methylcyclohexanone	1331-22-2	18.869	122.370	1,2
11226	C7H10S	3-propylthiophene	1518-75-8	18.261	130.543	1,2	11440	C7H12O	(R)-(+)-3-methylcyclohexanone	13368-65-5	19.015	122.458	1,2
11227	C7H10S	2-isopropylthiophene	4095-22-1	17.982	131.031	1,2	11441	C7H12O	2-methylcyclohexanone	583-60-8	18.893	121.267	1,2
11228	C7H10S	3-isopropylthiophene	29488-27-5	18.036	130.287	1,2	11442	C7H12O	3-methylcyclohexanone	591-24-2	19.036	122.726	1,2
11229	C7H10S	2-methyl-3-ethylthiophene	53119-51-0	18.155	130.180	1,2	11445	C7H12O	(Z)-5-hepten-2-one	4535-61-9	18.035	128.085	2
11230	C7H10S	2-methyl-4-ethyl thiophene	13678-54-1	18.338	130.180	1,2	11446	C7H12O	(S)-3-methylcyclohexanone	24965-87-5	18.492	128.019	2
11231	C7H10S	2-methyl-5-ethyl thiophene	40323-88-4	18.176	131.236	1,2	11450	C7H12O2	butyl acrylate	141-32-2	17.123	143.368	1,2
11232	C7H10S	3-methyl-2-ethylthiophene	31805-48-8	18.345	129.207	1,2	11450.1	C7H12O2	sec-butyl acrylate	2998-08-5	17.857	144.500	1,2
11233	C7H10S	3-methyl-4-ethyl thiophene	---	18.137	129.207	1,2	11451	C7H12O2	isobutyl acrylate	106-63-8	17.176	144.826	1,2
11234	C7H10S	3-methyl-5-ethylthiophene	---	18.137	129.207	1,2	11452	C7H12O2	propyl methacrylate	2210-28-8	17.189	142.889	1,2
11235	C7H10S	2,3,4-trimethylthiophene	1795-04-6	19.212	127.369	1,2	11453	C7H12O2	isopropyl methacrylate	4655-34-9	15.680	145.631	1,2
11236	C7H10S	2,3,5-trimethylthiophene	1795-05-7	18.383	130.046	1,2	11454	C7H12O2	allyl butanoate	2051-78-7	16.923	142.898	1,2
11267	C7H11N	3-ethyl-4-methyl-1H-pyrrole	488-92-6	19.006	121.030	1,2	11466	C7H12O2	2,2-dimethyl-4-pentenoic acid	16386-93-9	19.367	137.931	1,2
11268	C7H11N	2-isopropylpyrrole	7696-51-7	19.331	120.365	1,2	11467	C7H12O2	2-heptenoic acid	18999-28-5	20.013	134.414	1,2
11269	C7H11N	1-propyl-1H-pyrrole	5145-64-2	17.927	124.114	1,2	11468	C7H12O2	4-heptenoic acid	35194-37-7	19.493	136.162	1,2
11270	C7H11N	3-propyl-1H-pyrrole	1551-09-3	18.656	125.605	2	11469	C7H12O2	5-heptenoic acid	3593-00-8	19.787	135.528	1,2
11271	C7H11N	1,2,5-trimethyl-1H-pyrrole	930-87-0	18.193	135.280	1,2	11470	C7H12O2	6-heptenoic acid	1119-60-4	19.881	135.915	1,2
11275	C7H11NO	cyclohexyl isocyanate	3173-53-3	21.122	116.222	1,2	11471	C7H12O2	2-methyl-3-hexenoic acid	73513-50-5	19.391	137.593	1,2
11323	C7H12	1-ethylcyclopentene	2146-38-5	16.839	121.185	1,2	11472	C7H12O2	3-methyl-3-hexenoic acid	35205-71-1	19.593	134.778	1,2
11324	C7H12	3-ethylcyclopentene	694-35-9	16.381	123.551	1,2	11473	C7H12O2	4-methyl-2-hexenoic acid	37549-83-0	19.482	136.315	1,2
11325	C7H12	4-ethylcyclopentene	3742-38-9	16.394	123.599	1,2	11474	C7H12O2	4-methyl-3-hexenoic acid	55665-79-7	19.657	133.893	1,2
11326	C7H12	1,2-dimethylcyclopentene	765-47-9	16.701	121.307	1,2	11475	C7H12O2	5-methyl-2-hexenoic acid	41653-96-7	19.851	136.618	1,2
11327	C7H12	1,3-dimethylcyclopentene	62184-82-1	15.891	126.376	1,2	11476	C7H12O2	5-methyl-4-hexenoic acid	5636-65-7	19.958	129.965	1,2
11328	C7H12	1,4-dimethylcyclopentene	19550-48-2	15.989	125.484	1,2	11477	C7H12O2	trans-2-methyl-2-hexenoic acid	97961-66-5	19.201	133.690	1,2
11329	C7H12	1,5-dimethylcyclopentene	16491-15-9	16.383	124.093	1,2	11480	C7H12O2	ethyl 3-methyl-2-butenoate	638-10-8	17.610	139.935	1,2
11330	C7H12	3,3-dimethylcyclopentene	58049-91-5	15.801	125.551	1,2	11481	C7H12O2	ethyl trans-2-methyl-2-butenoate	5837-78-5	17.715	140.069	1,2
11331	C7H12	3,cis-4-dimethylcyclopentene	56039-55-5	15.984	124.575	1,2	11483	C7H12O2	methyl 3-hexenoate	2396-78-3	18.578	140.354	1,2
11332	C7H12	3,trans-4-dimethylcyclopentene	53225-40-4	15.984	124.575	1,2	11484	C7H12O2	methyl 2-methyl-2-pentenoate	10478-12-3	18.647	139.316	1,2
11333	C7H12	3,cis-5-dimethylcyclopentene	30213-29-7	15.984	124.575	1,2	11485	C7H12O2	methyl 3-methyl-3-pentenoate	2258-58-4	19.336	129.573	1,2
11334	C7H12	3,trans-5-dimethylcyclopentene	61394-27-2	15.984	124.575	1,2	11486	C7H12O2	methyl cis-3-methyl-2-pentenoate	17447-00-6	18.676	138.883	1,2
11335	C7H12	4,4-dimethylcyclopentene	19037-72-0	15.801	125.551	1,2	11487	C7H12O2	methyl trans-3-methyl-2-pentenoate	17447-01-7	17.585	138.541	1,2
11336	C7H12	1-methylcyclohexene	591-49-1	17.017	119.232	1,2	11488	C7H12O2	tert-butyl acrylate	1663-39-4	18.185	146.481	1,2
11337	C7H12	3-methylcyclohexene	591-48-0	16.643	120.728	1,2	11491	C7H12O2	methyl trans-2-methyl-2-pentenoate	1567-14-2	18.647	139.316	1,2
11338	C7H12	4-methylcyclohexene	591-47-9	16.632	121.017	1,2	11492	C7H12O2	4-pentenyl acetate	1576-85-8	17.185	140.693	1,2
11339	C7H12	3-methylcyclohexene, (±)	56688-75-6	16.518	120.999	1,2	11497	C7H12O2	3,3-dimethylallyl acetate	1191-16-8	18.826	136.685	2
11340	C7H12	1-heptyne	628-71-7	15.983	132.105	1,2	11500	C7H12O2	cis-3-hexenyl formate	33467-73-1	18.826	136.685	2
11341	C7H12	2-heptyne	1119-65-9	16.490	129.403	1,2	11530	C7H12O4	diethyl malonate	105-53-3	19.203	152.543	1,2
11342	C7H12	3-heptyne	2586-89-2	16.223	131.096	1,2	11569	C7H13Br	cis-1-bromo-1-heptene	39924-57-7	17.201	154.389	1,2
11343	C7H12	3-methyl-1-hexyne	40276-93-5	15.221	134.695	1,2	11570	C7H13Br	trans-1-bromo-1-heptene	53434-74-5	17.201	154.389	1,2
11344	C7H12	4-methyl-1-hexyne	52713-81-2	15.580	132.068	1,2	11586	C7H13Br3	1,1,1-tribromoheptane	62127-64-4	18.045	193.842	2
11345	C7H12	5-methyl-1-hexyne	2203-80-7	15.553	133.037	1,2	11587	C7H13Cl	cis-1-chloro-1-heptene	53268-66-9	16.856	148.858	1,2
11346	C7H12	4-methyl-2-hexyne	20198-49-6	15.874	131.007	1,2	11588	C7H13Cl	trans-1-chloro-1-heptene	53268-67-0	16.856	148.858	1,2
11347	C7H12	5-methyl-2-hexyne	53566-37-3	15.963	131.150	1,2	11589	C7H13Cl	1-chloro-1-heptene	2384-75-0	17.459	148.976	1,2
11348	C7H12	2-methyl-3-hexyne	36566-80-0	15.579	133.498	1,2	11590	C7H13Cl	2-chloro-1-heptene	65786-11-0	15.857	149.859	1,2
11349	C7H12	3-ethyl-1-pentyne	21020-26-8	15.278	133.092	1,2	11591	C7H13Cl	4-chloro-3-heptene	2431-24-5	15.753	151.843	1,2
11350	C7H12	3,3-dimethyl-1-pentyne	918-82-1	14.402	136.764	1,2	11612	C7H13Cl3	1,1,1-trichloroheptane	3922-26-7	16.790	181.406	1,2
11351	C7H12	3,4-dimethyl-1-pentyne	61064-08-2	15.010	133.740	1,2	11613	C7H13F	cis-1-fluoro-1-heptene	28028-91-3	15.306	141.854	1,2
11352	C7H12	4,4-dimethyl-1-pentyne	13361-63-2	14.681	135.511	1,2	11614	C7H13F	trans-1-fluoro-1-heptene	28028-92-4	15.306	141.854	1,2
11353	C7H12	4,4-dimethyl-2-pentyne	999-78-0	14.900	134.865	1,2	11618	C7H13F3	1,1,1-trifluoroheptane	693-09-4	14.945	158.944	1,2
11358	C7H12	1,2-heptadiene	2384-90-9	16.205	132.613	1,2	11619	C7H13I	cis-1-iodo-1-heptene	63318-29-6	17.274	161.911	1,2
11359	C7H12	1,4-heptadiene	5675-22-9	15.545	134.721	1,2	11620	C7H13I	trans-1-iodo-1-heptene	60595-37-1	17.274	161.911	1,2
11360	C7H12	1,5-heptadiene	1541-23-7	15.598	134.534	1,2	11621	C7H13I3	1,1,1-triiodoheptane	---	18.112	218.013	2
11361	C7H12	1,6-heptadiene	3070-53-9	16.158	127.411	2	11622	C7H13N	heptanenitrile	629-08-3	19.105	138.001	1,2
11362	C7H12	2,4-heptadiene	628-72-8	16.418	130.946	1,2	11696	C7H14	ethylcyclopentane	1640-89-7	16.343	128.687	1,2
11363	C7H12	2-methyl-1,5-hexadiene	4049-81-4	15.357	134.450	1,2	11697	C7H14	1,1-dimethylcyclopentane	1638-26-2	15.572	130.918	1,2
11364	C7H12	2-methyl-2,4-hexadiene	28823-41-8	16.650	129.770	1,2	11698	C7H14	1,2-dimethylcyclopentane	2452-99-5	15.616	138.428	2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
11699	C7H14	cis-1,2-dimethylcyclopentane	1192-18-3	16.162	127.849	1,2	11841	C7H14O	4,4-dimethyl-2-pentanone	590-50-1	16.470	142.734	1,2
11700	C7H14	trans-1,2-dimethylcyclopentane	822-50-4	15.762	131.443	1,2	11842	C7H14O	2,2-dimethyl-3-pentanone	564-04-5	16.547	141.409	1,2
11701	C7H14	1,3-dimethylcyclopentane	2453-00-1	15.154	138.428	2	11843	C7H14O	2,4-dimethyl-3-pentanone	565-80-0	17.880	125.206	1,2
11702	C7H14	cis-1,3-dimethylcyclopentane	2532-58-3	15.488	132.687	1,2	11844	C7H14O	1-methylcyclohexanol	590-67-0	20.667	125.028	1,2
11703	C7H14	trans-1,3-dimethylcyclopentane	1759-58-6	15.814	131.973	1,2	11845	C7H14O	cis-2-methylcyclohexanol	7443-70-1	21.141	122.519	1,2
11704	C7H14	methylcyclohexane	108-87-2	16.270	128.183	1,2	11846	C7H14O	trans-2-methylcyclohexanol	7443-52-9	21.253	123.982	1,2
11705	C7H14	cycloheptane	291-64-5	17.214	121.822	1,2	11847	C7H14O	cis-3-methylcyclohexanol	5454-79-5	21.414	125.343	1,2
11706	C7H14	1-heptene	592-76-7	15.434	141.686	1,2	11848	C7H14O	trans-3-methylcyclohexanol	7443-55-2	21.392	124.387	1,2
11707	C7H14	2-heptene	592-77-8	16.142	138.428	2	11849	C7H14O	cis-4-methylcyclohexanol	7731-28-4	21.934	125.069	1,2
11708	C7H14	cis-2-heptene	6443-92-1	15.371	139.670	1,2	11850	C7H14O	trans-4-methylcyclohexanol	7731-29-5	21.731	125.757	1,2
11709	C7H14	trans-2-heptene	14686-13-6	15.457	140.873	1,2	11851	C7H14O	trans-2-methylcyclohexanol, (±)	615-39-4	18.960	124.115	1,2
11710	C7H14	3-heptene	592-78-9	15.882	138.428	2	11855	C7H14O	1-hepten-4-ol	3521-91-3	17.687	136.549	1,2
11711	C7H14	3-heptene (mixed isomers)	25339-56-4	15.329	138.428	2	11856	C7H14O	2-hepten-4-ol, (±)	115113-98-9	17.775	135.798	1,2
11712	C7H14	cis-3-heptene	7642-10-6	15.539	140.671	1,2	11857	C7H14O	3-hepten-2-ol	98991-54-9	17.534	137.846	1,2
11713	C7H14	trans-3-heptene	14686-14-7	15.342	141.481	1,2	11858	C7H14O	6-hepten-2-ol	24395-10-6	17.691	135.408	1,2
11714	C7H14	2-methyl-1-hexene	6094-02-6	15.265	140.671	1,2	11859	C7H14O	6-hepten-3-ol	19781-77-2	17.652	135.998	1,2
11715	C7H14	3-methyl-1-hexene	3404-61-3	15.007	142.923	1,2	11860	C7H14O	cis-2-hepten-1-ol	55454-22-3	18.920	136.184	1,2
11716	C7H14	4-methyl-1-hexene	3769-23-1	15.010	141.481	1,2	11861	C7H14O	trans-2-hepten-1-ol	33467-76-4	19.026	134.671	1,2
11717	C7H14	5-methyl-1-hexene	3524-73-0	14.881	142.778	1,2	11862	C7H14O	2-methyl-3-hexen-2-ol	18812-62-9	17.744	134.589	1,2
11718	C7H14	2-methyl-2-hexene	2738-19-4	15.385	139.511	1,2	11863	C7H14O	2-methyl-4-hexen-3-ol	4798-60-1	17.168	136.103	1,2
11719	C7H14	3-methyl-cis-2-hexene	10574-36-4	15.530	138.021	1,2	11864	C7H14O	2-methyl-5-hexen-2-ol	16744-89-1	17.230	137.146	1,2
11720	C7H14	3-methyl-trans-2-hexene	20710-38-7	15.445	138.293	1,2	11865	C7H14O	3-methyl-3-hexen-2-ol	110383-31-8	17.822	133.425	1,2
11721	C7H14	4-methyl-cis-2-hexene	3683-19-0	14.968	141.237	1,2	11866	C7H14O	3-methyl-4-hexen-3-ol	60111-14-0	18.619	122.238	1,2
11722	C7H14	4-methyl-trans-2-hexene	3683-22-5	14.982	141.788	1,2	11867	C7H14O	3-methyl-5-hexen-3-ol	1569-44-4	17.042	137.779	1,2
11723	C7H14	5-methyl-cis-2-hexene	13151-17-2	15.097	140.873	1,2	11868	C7H14O	4-methyl-5-hexen-3-ol	1838-77-3	17.251	135.453	1,2
11724	C7H14	5-methyl-trans-2-hexene	7385-82-2	14.955	142.653	1,2	11869	C7H14O	5-methyl-1-hexen-3-ol	4798-46-3	16.411	138.635	1,2
11725	C7H14	2-methyl-cis-3-hexene	15840-60-5	14.901	142.302	1,2	11870	C7H14O	5-methyl-2-hexenol	77053-92-0	18.413	137.254	1,2
11726	C7H14	2-methyl-trans-3-hexene	692-24-0	14.847	143.278	1,2	11871	C7H14O	isopentyl vinyl ether	39782-38-2	15.671	146.706	1,2
11727	C7H14	3-methyl-cis-3-hexene	4914-89-0	15.430	138.694	1,2	11875	C7H14O	1-hepten-3-ol	4938-52-7	17.791	136.588	1,2
11728	C7H14	3-methyl-trans-3-hexene	3899-36-3	15.335	139.262	1,2	11876	C7H14O	cis-4-hepten-1-ol	6191-71-5	17.811	133.581	2
11729	C7H14	2-ethyl-1-pentene	3404-71-5	15.451	139.472	1,2	11877	C7H14O	methylcyclohexanol	25639-42-3	18.910	124.768	1,2
11730	C7H14	3-ethyl-1-pentene	4038-04-4	15.019	141.890	1,2	11878	C7H14O	2-methylcyclohexanol; (cis+trans)	583-59-5	19.005	122.519	1,2
11731	C7H14	2,3-dimethyl-1-pentene	3404-72-6	14.909	140.089	1,2	11879	C7H14O	4-methylcyclohexanol; (cis+trans)	589-91-3	19.098	124.932	1,2
11732	C7H14	2,4-dimethyl-1-pentene	2213-32-3	14.698	142.372	1,2	11880	C7H14O	3-methylcyclohexanol; (cis+trans)	591-23-1	18.880	124.932	1,2
11733	C7H14	3,3-dimethyl-1-pentene	3404-73-7	14.484	141.665	1,2	11881	C7H14O	tert-pentyl vinyl ether	29281-39-8	15.447	145.833	1,2
11734	C7H14	3,4-dimethyl-1-pentene	7385-78-6	14.696	141.604	1,2	11882	C7H14O	1-(2-propenyloxy)butane	3739-64-8	17.441	145.833	1,2
11735	C7H14	4,4-dimethyl-1-pentene	762-62-9	14.155	144.812	1,2	11884	C7H14O2	heptanoic acid	111-14-8	21.945	142.593	1,2
11736	C7H14	3-ethyl-2-pentene	816-79-5	15.539	137.115	1,2	11885	C7H14O2	2-ethyl-2-methylbutanoic acid	19889-37-3	18.655	147.163	2
11737	C7H14	2,3-dimethyl-2-pentene	10574-37-5	15.583	135.731	1,2	11886	C7H14O2	2-ethylpentanoic acid, (±)	116908-83-9	19.298	138.847	1,2
11738	C7H14	2,4-dimethyl-2-pentene	625-65-0	14.737	142.195	1,2	11887	C7H14O2	2-methylhexanoic acid, (±)	22160-12-9	19.769	136.038	1,2
11739	C7H14	3,4-dimethyl-cis-2-pentene	4914-91-4	15.140	138.449	1,2	11888	C7H14O2	3-methylhexanoic acid	3780-58-3	19.222	142.307	1,2
11740	C7H14	3,4-dimethyl-trans-2-pentene	4914-92-5	15.251	137.827	1,2	11889	C7H14O2	4-methylhexanoic acid, (±)	22160-41-4	19.444	141.876	1,2
11741	C7H14	4,4-dimethyl-cis-2-pentene	762-63-0	14.593	141.258	1,2	11890	C7H14O2	5-methylhexanoic acid	628-46-6	19.306	142.948	1,2
11742	C7H14	4,4-dimethyl-trans-2-pentene	690-08-4	14.340	143.487	1,2	11891	C7H14O2	hexyl formate	629-33-4	17.259	149.109	1,2
11743	C7H14	3-methyl-2-ethyl-1-butene	7357-93-9	15.017	139.414	1,2	11892	C7H14O2	pentyl acetate	628-63-7	17.608	149.297	1,2
11744	C7H14	2,3,3-trimethyl-1-butene	594-56-9	14.641	140.069	1,2	11893	C7H14O2	1-methylbutyl acetate	626-38-0	16.502	150.889	1,2
11745	C7H14	3,4-dimethylpent-2-ene	24910-63-2	15.041	138.428	2	11894	C7H14O2	2-methylbutyl acetate	624-41-9	16.806	149.314	1,2
11746	C7H14	1,1,2,2-tetramethylcyclopropane	4127-47-3	15.357	138.428	2	11895	C7H14O2	isopentyl acetate	123-92-2	16.937	150.158	1,2
11747	C7H14	1,1-diethylcyclopropane	1003-19-6	15.274	138.428	2	11896	C7H14O2	1-ethylpropyl acetate	620-11-1	16.523	150.257	1,2
11751	C7H14Br2	1,1-dibromoheptane	59104-79-9	18.260	173.735	1,2	11897	C7H14O2	tert-pentyl acetate	625-16-1	16.278	147.261	2
11752	C7H14Br2	1,2-dibromoheptane	42474-21-5	17.896	171.718	1,2	11898	C7H14O2	1,2-dimethylpropyl acetate	5343-96-4	16.249	151.380	1,2
11753	C7H14Br2	1,5-dibromoheptane	1622-10-2	18.399	169.356	1,2	11899	C7H14O2	neopentyl acetate	926-41-0	16.044	152.462	1,2
11754	C7H14Br2	1,7-dibromoheptane	4549-31-9	19.145	171.663	1,2	11900	C7H14O2	sec-pentyl acetate (R)	54638-10-7	16.642	149.010	1,2
11755	C7H14Br2	2,3-dibromoheptane	21266-88-6	18.304	171.119	1,2	11901	C7H14O2	butyl propanoate	590-01-2	17.380	149.297	1,2
11756	C7H14Br2	3,4-dibromoheptane	21266-90-0	18.330	170.636	1,2	11902	C7H14O2	isobutyl propanoate	540-42-1	16.360	150.210	1,2
11763	C7H14Cl2	1,1-dichloroheptane	821-25-0	17.053	168.252	1,2	11903	C7H14O2	sec-butyl propanoate	591-34-4	17.387	151.152	1,2
11764	C7H14Cl2	1,2-dichloro-4,4-dimethylpentane	6065-90-3	16.230	165.579	1,2	11904	C7H14O2	tert-butyl propanoate	20487-40-5	18.255	147.289	2
11765	C7H14Cl2	1,5-dichloro-3,3-dimethylpentane	62496-53-1	17.022	160.832	1,2	11905	C7H14O2	propyl butanoate	105-66-8	16.834	149.985	1,2
11766	C7H14Cl2	2,4-dichloro-2,4-dimethylpentane	33553-93-4	16.803	165.050	1,2	11906	C7H14O2	isopropyl butanoate	638-11-9	16.350	152.748	1,2
11767	C7H14Cl2	1,2-dichloroheptane	10575-87-8	17.084	159.673	1,2	11907	C7H14O2	isopropyl isobutanoate	617-50-5	15.109	154.334	1,2
11768	C7H14Cl2	1,7-dichloroheptane	821-76-1	16.937	162.465	1,2	11908	C7H14O2	propyl isobutanoate	644-49-5	16.942	147.220	1,2
11769	C7H14Cl2	2,2-dichloroheptane	65786-09-6	16.663	167.844	1,2	11909	C7H14O2	ethyl isovalerate	108-64-5	16.576	150.505	1,2
11770	C7H14Cl2	4,4-dichloroheptane	89796-76-9	16.608	168.956	1,2	11910	C7H14O2	ethyl 2,2-dimethylpropanoate	3938-95-2	15.117	152.906	1,2
11772	C7H14F2	1,1-difluoroheptane	407-96-5	15.836	152.845	1,2	11911	C7H14O2	ethyl 2-methylbutanoate, (+)	10307-61-6	16.437	149.830	1,2
11774	C7H14I2	1,1-diiodoheptane	66675-46-5	18.076	187.632	1,2	11912	C7H14O2	ethyl pentanoate	539-82-2	16.769	149.238	1,2
11827	C7H14O	1-heptanal	111-71-7	17.943	140.452	1,2	11913	C7H14O2	methyl 2-ethylbutanoate	816-11-5	16.391	148.830	1,2
11828	C7H14O	3-methylhexanal	19269-28-4	17.235	139.919	1,2	11914	C7H14O2	methyl hexanoate	106-70-7	16.989	147.962	1,2
11828.1	C7H14O	2-methylhexanal	925-54-2	17.814	140.039	2	11923	C7H14O2	ethyl 2-methylbutyrate	7452-79-1	16.408	149.985	1,2
11829	C7H14O	2-heptanone	110-43-0	17.882	140.798	1,2	11925	C7H14O2	2-methylhexanoic acid	4536-23-6	19.097	141.971	1,2
11830	C7H14O	3-heptanone	106-35-4	17.685	140.280	1,2	11926	C7H14O2	neoheptanoic acid	33113-10-9	15.110	147.163	2
11831	C7H14O	4-heptanone	123-19-3	17.551	140.694	1,2	11927.1	C7H14O2	allyl-tert-butylperoxide	39972-78-6	15.713	157.578	2
11832	C7H14O	3-methyl-2-hexanone	2550-21-2	17.415	138.914	1,2	11927.2	C7H14O2	neoheptanoic acid	1185-39-3	21.493	142.334	2
11833	C7H14O	4-methyl-2-hexanone	105-42-0	17.240	141.234	1,2	11931	C7H14O3	ethyl-3-ethoxypropionate	763-69-9	18.229	154.695	1,2
11834	C7H14O	5-methyl-2-hexanone	110-12-3	17.736	141.321	1,2	11934.1	C7H14O3	propylene glycol ethyl ether acetate	54839-24-6	17.998	155.354	1,2
11835	C7H14O	2-methyl-3-hexanone	7379-12-6	17.096	140.452	1,2	11960	C7H14S	thiacyclooctane	6572-99-2	18.576	136.121	1,2
11836	C7H14O	4-methyl-3-hexanone	17042-16-9	17.180	140.660	1,2	11961	C7H14S	2-ethylthiacyclohexane	1613-52-1	17.135	140.709	1,2
11837	C7H14O	5-methyl-3-hexanone	623-56-3	17.139	141.321	1,2	11962	C7H14S	3-ethylthiacyclohexane	61568-48-7	17.135	140.709	1,2
11838	C7H14O	3-ethyl-2-pentanone	6137-03-7	17.271	140.211	1,2	11963	C7H14S	4-ethylthiacyclohexane	40324-31-0	17.135	140.709	1,2
11839	C7H14O	3,3-dimethyl-2-pentanone	20669-04-9	16.771	140.642	1,2	11964	C7H14S	2,2-dimethylthiacyclohexane	---	16.827	143.816	1,2
11840	C7H14O	3,4-dimethyl-2-pentanone	565-78-6	16.970	140.107	1,2	11965	C7H14S	2,cis-3-dimethylthiacyclohexane	---	16.701	143.816	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
11966	C7H14S	2,trans-3-dimethylthiacyclohexane	---	16.701	143.816	1,2	12187	C7H16O	4,4-dimethyl-1-pentanol	3121-79-7	18.778	143.284	1,2
11967	C7H14S	2,cis-4-dimethylthiacyclohexane	---	16.701	143.816	1,2	12188	C7H16O	3-ethyl-2-pentanol	609-27-8	18.925	139.333	1,2
11968	C7H14S	2,trans-4-dimethylthiacyclohexane	---	16.701	143.816	1,2	12189	C7H16O	2,3-dimethyl-2-pentanol	4911-70-0	18.144	140.342	1,2
11969	C7H14S	2,cis-5-dimethylthiacyclohexane	---	16.701	143.816	1,2	12190	C7H16O	2,4-dimethyl-2-pentanol	625-06-9	17.722	143.816	1,2
11970	C7H14S	2,trans-5-dimethylthiacyclohexane	---	16.701	143.816	1,2	12191	C7H16O	3,3-dimethyl-2-pentanol	19781-24-9	18.367	141.024	1,2
11971	C7H14S	2,cis-6-dimethylthiacyclohexane	---	16.701	143.816	1,2	12192	C7H16O	3,4-dimethyl-2-pentanol	64502-86-9	18.822	139.333	1,2
11972	C7H14S	2,trans-6-dimethylthiacyclohexane	---	16.701	143.816	1,2	12193	C7H16O	4,4-dimethyl-2-pentanol	6144-93-0	17.879	143.994	1,2
11973	C7H14S	3,3-dimethylthiacyclohexane	---	16.827	143.816	1,2	12194	C7H16O	3-ethyl-3-pentanol	597-49-9	18.525	138.337	1,2
11974	C7H14S	3,cis-4-dimethylthiacyclohexane	---	16.701	143.816	1,2	12195	C7H16O	2,2-dimethyl-3-pentanol	3970-62-5	17.977	141.367	1,2
11975	C7H14S	3,trans-4-dimethylthiacyclohexane	---	16.701	143.816	1,2	12196	C7H16O	2,3-dimethyl-3-pentanol	595-41-5	18.265	138.999	1,2
11976	C7H14S	3,cis-5-dimethylthiacyclohexane	---	16.701	143.816	1,2	12197	C7H16O	2,4-dimethyl-3-pentanol	600-36-2	18.244	140.853	1,2
11977	C7H14S	3,trans-5-dimethylthiacyclohexane	---	16.701	143.816	1,2	12198	C7H16O	2-methyl-2-ethyl-1-butanol	18371-13-6	18.830	141.024	1,2
11978	C7H14S	4,4-dimethylthiacyclohexane	---	16.827	143.816	1,2	12199	C7H16O	3-methyl-2-ethyl-1-butanol	32444-34-1	19.246	139.500	1,2
11982	C7H15Br	1-bromoheptane	629-04-9	17.355	157.797	1,2	12200	C7H16O	2,2,3-trimethyl-1-butanol	55505-23-2	18.910	137.845	1,2
11983	C7H15Br	2-bromoheptane	1974-04-5	16.081	162.503	1,2	12201	C7H16O	2,3,3-trimethyl-1-butanol	36794-64-6	18.793	141.024	1,2
11984	C7H15Br	4-bromoheptane	998-93-6	16.103	158.444	1,2	12202	C7H16O	2,3,3-trimethyl-2-butanol	594-83-2	17.718	138.668	1,2
11988	C7H15Cl	1-chloroheptane	629-06-1	16.959	154.449	1,2	12203	C7H16O	2,4-dimethyl-1-pentanol, (±)	111768-02-6	17.461	147.316	1,2
11989	C7H15Cl	2-chloro-2,3-dimethylpentane	59889-45-1	15.196	155.224	2	12204	C7H16O	2-heptanol, (±)	52390-72-4	17.719	143.062	1,2
11990	C7H15Cl	2-chloro-2,4-dimethylpentane	35951-33-8	14.130	157.151	1,2	12205	C7H16O	3-heptanol, (S)	26549-25-7	17.690	142.024	1,2
11991	C7H15Cl	3-chloro-2,3-dimethylpentane	595-38-0	14.356	152.240	1,2	12206	C7H16O	2-methyl-1-hexanol, (±)	111768-04-8	18.056	141.459	1,2
11992	C7H15Cl	4-chloro-2,2-dimethylpentane	33429-72-0	14.124	157.279	1,2	12207	C7H16O	3-methyl-1-hexanol, (±)	111768-08-2	18.345	141.493	1,2
11993	C7H15Cl	3-chloro-3-ethylpentane	994-25-2	15.594	152.805	1,2	12208	C7H16O	4-methyl-1-hexanol, (±)	111768-05-9	18.473	141.818	1,2
11994	C7H15Cl	2-chloroheptane	1001-89-4	15.157	156.033	1,2	12209	C7H16O	2-methyl-3-hexanol, (±)	100295-82-7	17.243	138.997	1,2
11995	C7H15Cl	3-chloroheptane	999-52-0	15.491	155.711	1,2	12210	C7H16O	5-methyl-3-hexanol, (±)	100295-83-8	17.127	143.833	1,2
11996	C7H15Cl	4-chloroheptane	998-95-8	15.509	155.355	1,2	12211	C7H16O	isopropyl-tert-butyl-ether	17348-59-3	14.855	154.938	1,2
11997	C7H15Cl	1-chloro-3-methylhexane	101257-63-0	16.187	154.367	1,2	12212	C7H16O	butyl propyl ether	3073-92-5	15.777	149.515	1,2
11998	C7H15Cl	2-chloro-2-methylhexane	4398-65-6	14.694	156.698	1,2	12212.1	C7H16O	isopropyl isobutyl ether	78448-33-6	14.675	158.104	1,2
11999	C7H15Cl	2-chloro-5-methylhexane	58766-17-9	14.933	156.789	1,2	12213	C7H16O	2-ethoxy-2-methylbutane	919-94-8	14.482	155.928	1,2
12000	C7H15Cl	3-chloro-3-methylhexane	43197-78-0	14.822	154.000	1,2	12214	C7H16O	ethyl isopentyl ether	628-04-6	15.698	151.836	1,2
12001	C7H15Cl	2-chloro-2,3,3-trimethylbutane	918-07-0	15.196	155.224	2	12215	C7H16O	ethyl pentyl ether	17952-11-3	15.559	153.315	1,2
12015	C7H15F	1-fluoroheptane	661-11-0	16.092	147.504	1,2	12216	C7H16O	hexyl methyl ether	4747-07-3	16.485	143.026	2
12020	C7H15I	1-iodoheptane	4282-40-0	19.303	164.676	1,2	12217	C7H16O	1-(1-methylethoxy)butane	1860-27-1	15.104	154.719	1,2
12021	C7H15I	2-iodoheptane	18589-29-2	17.342	174.058	1,2	12218	C7H16O	2-methyl-1-propoxypropane	15268-49-2	14.814	154.790	1,2
12022	C7H15I	3-iodoheptane	31294-92-5	17.758	165.995	1,2	12219	C7H16O	2-methyl-2-propoxypropane	29072-93-3	14.321	155.519	1,2
12023	C7H15I	4-iodoheptane	31294-93-6	17.643	168.152	2	12220	C7H16O	(S)-(+)-2-heptanol	6033-23-4	17.480	142.932	1,2
12024	C7H15N	N-methylcyclohexylamine	100-60-7	18.346	130.871	1,2	12221	C7H16O	(R)-(-)-2-heptanol	6033-24-5	17.260	142.058	1,2
12025	C7H15N	cyclohexanemethanamine	3218-02-8	19.611	130.119	1,2	12224	C7H16O2	1,2-heptanediol	3710-31-4	23.636	145.680	2
12026	C7H15N	cis-2-methylcyclohexylamine	2164-19-4	18.923	129.592	1,2	12225	C7H16O2	1,3-heptanediol	23433-04-7	23.988	145.662	2
12027	C7H15N	trans-2-methylcyclohexylamine	931-10-2	18.452	130.973	1,2	12226	C7H16O2	1,4-heptanediol	40646-07-9	25.224	139.015	1,2
12028	C7H15N	cis-3-methylcyclohexylamine	1193-16-4	18.626	133.001	1,2	12227	C7H16O2	1,5-heptanediol	60096-09-5	19.978	136.862	1,2
12029	C7H15N	trans-3-methylcyclohexylamine	1193-17-5	18.488	132.692	1,2	12228	C7H16O2	1,6-heptanediol	13175-27-4	23.468	137.425	1,2
12030	C7H15N	cis-4-methylcyclohexylamine	2523-56-0	18.695	132.769	1,2	12229	C7H16O2	1,7-heptanediol	629-30-1	25.053	138.287	1,2
12031	C7H15N	trans-4-methylcyclohexylamine	2523-55-9	18.510	133.141	1,2	12230	C7H16O2	2,3-heptanediol	21508-07-6	23.375	145.676	2
12049	C7H15N	3-methylcyclohexylamine	6850-35-7	18.352	132.401	1,2	12231	C7H16O2	2,4-heptanediol	20748-86-1	23.592	143.011	1,2
12050	C7H15N	2-methylcyclohexylamine; (cis+trans)	7003-32-9	18.279	132.712	1,2	12232	C7H16O2	2,6-heptanediol	5969-12-0	23.375	145.676	2
12051	C7H15N	4-methylcyclohexylamine	6321-23-9	18.593	132.712	1,2	12233	C7H16O2	2-methyl-1,2-hexanediol	56255-50-6	22.744	145.697	2
12075	C7H15NO2	1-nitroheptane	693-39-0	18.948	156.273	1,2	12234	C7H16O2	2-methyl-2,4-hexanediol	66225-35-2	23.542	142.687	1,2
12112	C7H16	heptane	142-82-5	15.213	146.927	1,2	12235	C7H16O2	2-methyl-2,5-hexanediol	29044-06-2	23.034	147.093	2
12113	C7H16	2-methylhexane	591-76-4	14.934	148.671	1,2	12236	C7H16O2	3-methyl-1,6-hexanediol	4089-71-8	22.790	145.726	2
12114	C7H16	3-methylhexane	589-34-4	15.019	146.497	1,2	12237	C7H16O2	3-methyl-2,4-hexanediol	---	23.921	145.634	2
12115	C7H16	3-ethylpentane	617-78-7	15.040	144.178	1,2	12238	C7H16O2	3-methyl-3,4-hexanediol	18938-47-1	23.302	145.651	2
12116	C7H16	2,2-dimethylpentane	590-35-2	14.202	148.892	1,2	12239	C7H16O2	4-methyl-1,5-hexanediol	66225-37-4	23.375	145.676	2
12117	C7H16	2,3-dimethylpentane	565-59-3	14.837	145.013	1,2	12240	C7H16O2	4-methyl-2,4-hexanediol	38836-25-8	23.302	145.651	2
12118	C7H16	2,4-dimethylpentane	108-08-7	14.359	150.006	1,2	12241	C7H16O2	5-methyl-1,5-hexanediol	1462-11-9	22.744	145.697	2
12119	C7H16	3,3-dimethylpentane	562-49-2	14.534	145.857	1,2	12242	C7H16O2	5-methyl-2,4-hexanediol	54877-00-8	23.921	145.634	2
12120	C7H16	2,2,3-trimethylbutane	464-06-2	14.248	145.857	1,2	12243	C7H16O2	2-ethyl-1,3-pentanediol	29887-11-4	23.032	145.708	2
12121	C7H16	3-methylhexane, (S)-	6131-24-4	15.102	146.984	1,2	12244	C7H16O2	2-ethyl-1,5-pentanediol	14189-13-0	22.790	145.726	2
12164	C7H16O	1-heptanol	111-70-6	21.544	141.712	1,2	12245	C7H16O2	3-ethyl-2,3-pentanediol	66225-32-9	22.760	137.568	1,2
12165	C7H16O	2-heptanol	543-49-7	20.022	142.756	1,2	12246	C7H16O2	3-ethyl-2,4-pentanediol	66225-33-0	22.311	145.716	2
12166	C7H16O	3-heptanol	589-82-2	19.023	142.232	1,2	12247	C7H16O2	2,2-dimethyl-1,3-pentanediol	2157-31-5	21.459	150.519	2
12167	C7H16O	4-heptanol	589-55-9	18.922	142.756	1,2	12248	C7H16O2	2,2-dimethyl-1,5-pentanediol	3121-82-2	22.744	145.697	2
12168	C7H16O	2-methyl-1-hexanol	624-22-6	19.302	141.195	1,2	12249	C7H16O2	2,3-dimethyl-1,3-pentanediol	66225-52-3	23.302	145.651	2
12169	C7H16O	3-methyl-1-hexanol	13231-81-7	19.609	141.024	1,2	12250	C7H16O2	2,3-dimethyl-2,3-pentanediol	6931-70-0	23.215	145.628	2
12170	C7H16O	4-methyl-1-hexanol	818-49-5	19.593	141.712	1,2	12251	C7H16O2	DL-2,4-dimethyl-1,5-pentanediol	54630-82-9	23.375	145.676	2
12171	C7H16O	5-methyl-1-hexanol	627-98-5	20.447	143.108	1,2	12252	C7H16O2	meso-2,4-dimethyl-1,5-pentanediol	2121-69-9	23.375	145.676	2
12172	C7H16O	2-methyl-2-hexanol	625-23-0	18.201	143.461	1,2	12253	C7H16O2	2,4-dimethyl-2,3-pentanediol	66225-53-4	20.347	151.203	2
12173	C7H16O	3-methyl-2-hexanol	2313-65-7	18.788	141.367	1,2	12254	C7H16O2	2,4-dimethyl-2,4-pentanediol	24892-49-7	21.453	145.720	2
12174	C7H16O	4-methyl-2-hexanol	2313-61-3	18.697	142.232	1,2	12255	C7H16O2	3,3-dimethyl-1,5-pentanediol	53120-74-4	22.744	145.697	2
12175	C7H16O	5-methyl-2-hexanol	627-59-8	18.617	143.461	1,2	12256	C7H16O2	3,4-dimethyl-1,4-pentanediol	63521-36-8	23.302	145.651	2
12176	C7H16O	2-methyl-3-hexanol	617-29-8	18.530	141.712	1,2	12257	C7H16O2	4,4-dimethyl-1,2-pentanediol	66225-54-5	23.302	145.651	2
12177	C7H16O	3-methyl-3-hexanol	597-96-6	18.325	141.539	1,2	12258	C7H16O2	erythro-4,4-dimethyl-2,3-pentanediol	23646-57-3	22.727	151.475	2
12178	C7H16O	4-methyl-3-hexanol	615-29-2	18.665	141.712	1,2	12259	C7H16O2	threo-4,4-dimethyl-2,3-pentanediol	23646-58-4	22.658	151.860	2
12179	C7H16O	5-methyl-3-hexanol	623-55-2	18.733	140.173	1,2	12260	C7H16O2	2-propyl-1,4-butanediol	62946-68-3	22.790	145.726	2
12180	C7H16O	2-ethyl-1-pentanol	27522-11-8	19.472	140.173	1,2	12261	C7H16O2	2-isopropyl-1,4-butanediol	39497-66-0	23.375	145.676	2
12181	C7H16O	3-ethyl-1-pentanol	66225-51-2	19.483	140.004	1,2	12262	C7H16O2	2-methyl-3-ethyl-1,4-butanediol	---	23.375	145.676	2
12182	C7H16O	2,2-dimethyl-1-pentanol	2370-12-9	18.767	140.004	1,2	12263	C7H16O2	2-sec-butyl-1,3-propanediol	33673-01-7	22.781	148.923	2
12183	C7H16O	2,3-dimethyl-1-pentanol	10143-23-4	19.323	139.333	1,2	12264	C7H16O2	2-methyl-2-propyl-1,3-propanediol	78-26-2	22.494	149.816	2
12184	C7H16O	2,4-dimethyl-1-pentanol	6305-71-1	18.939	142.581	1,2	12265	C7H16O2	2,2-diethyl-1,3-propanediol	115-76-4	23.833	131.439	1,2
12185	C7H16O	3,3-dimethyl-1-pentanol	19264-94-9	19.137	140.342	1,2	12266	C7H16O2	1-butoxy-2-propanol	5131-66-8	17.518	150.636	1,2
12186	C7H16O	3,4-dimethyl-1-pentanol	6570-87-2	19.275	140.512	1,2	12270	C7H16O2	2-(pentyloxy)ethanol	6196-58-3	18.169	149.722	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
12272	C7H16O2	1-tert-butoxy-2-propanol	57018-52-7	16.457	151.609	1,2	13292	C8H8Cl2	ethyldichlorobenzene	1331-29-9	18.595	140.373	2
12274	C7H16O2	1-isobutoxy-2-propanol	23436-19-3	17.529	145.742	2	13293	C8H8Cl2	xylene chloride	28347-13-9	18.799	139.115	2
12275	C7H16O2	propylene glycol butyl ether, isomers	29387-86-8	17.527	149.382	1,2	13391	C8H8O	acetophenone	98-86-2	20.891	117.335	1,2
12275.1	C7H16O2	propylene glycol 2-tert-butyl ether	94023-15-1	19.073	152.647	2	13392	C8H8O	p-tolualdehyde	104-87-0	21.461	118.706	1,2
12275.2	C7H16O2	diethylene glycol monopropyl ether	6881-94-3	20.176	153.829	2	13412	C8H8O2	methyl benzoate	93-58-3	20.479	125.484	1,2
12276	C7H16O2	1-butoxy-2-methoxyethane	13343-98-1	16.780	145.742	2	13413	C8H8O2	o-toluic acid	118-90-1	22.915	126.933	1,2
12277	C7H16O2	3-butoxy-1-propanol	10215-33-5	19.991	145.742	2	13414	C8H8O2	p-toluic acid	99-94-5	21.444	137.145	2
12278	C7H16O2	n-butoxypropanol (mixed isomers)	63716-40-5	19.991	145.742	2	13445	C8H8O3	methyl salicylate	119-36-8	22.407	129.489	1,2
12279	C7H16O2	isobutoxypropanol, mixed isomers	63716-39-2	19.991	145.742	2	13446	C8H8O3	vanillin	121-33-5	22.698	149.590	1,2
12300	C7H16S	heptyl mercaptan	1639-09-4	17.449	157.652	1,2	13671	C8H9NO	acetanilide	103-84-4	24.023	119.770	1,2
12301	C7H16S	2-heptanethiol	1628-00-2	16.691	159.151	1,2	13789	C8H10	ethylbenzene	100-41-4	18.038	122.737	1,2
12302	C7H16S	methyl hexyl sulfide	20291-60-5	17.332	157.652	1,2	13790	C8H10	o-xylene	95-47-6	18.450	121.196	1,2
12303	C7H16S	ethyl pentyl sulfide	26158-99-6	17.332	157.652	1,2	13791	C8H10	m-xylene	108-38-3	18.462	123.307	1,2
12304	C7H16S	propyl butyl sulfide	1613-46-3	16.629	157.652	1,2	13792	C8H10	p-xylene	106-42-3	17.842	123.738	1,2
12315	C7H17N	heptylamine	111-68-2	17.656	149.247	1,2	13793	C8H10	xylenes	1330-20-7	18.195	123.164	1,2
12316	C7H17N	2,4-dimethyl-2-pentanamine	64379-30-2	16.538	150.156	1,2	13912	C8H10O	phenetole	103-73-1	19.391	127.125	1,2
12317	C7H17N	2-heptanamine	123-82-0	16.671	151.384	1,2	13913	C8H10O	2-phenylethanol	60-12-8	23.062	120.243	1,2
12318	C7H17N	4-heptanamine	16751-59-0	16.573	151.110	1,2	13918	C8H10O	o-ethylphenol	90-00-6	21.048	120.414	1,2
12319	C7H17N	3-methyl-1-hexanamine	65530-93-0	17.128	149.068	1,2	13919	C8H10O	m-ethylphenol	620-17-7	20.449	121.251	1,2
12320	C7H17N	4-methyl-2-hexanamine	105-41-9	16.245	151.404	1,2	13920	C8H10O	p-ethylphenol	123-07-9	21.783	125.761	2
12321	C7H17N	4-methyl-1-hexylamine	34263-68-8	17.349	148.567	1,2	13921	C8H10O	2,3-xylenol	526-75-0	20.873	128.270	2
12322	C7H17N	methylhexylamine	35161-70-7	16.883	152.608	1,2	13922	C8H10O	2,4-xylenol	105-67-9	22.144	120.361	1,2
12323	C7H17N	ethylpentylamine	17839-26-8	16.492	154.098	1,2	13923	C8H10O	2,5-xylenol	95-87-4	20.636	128.749	2
12324	C7H17N	dimethylpentylamine	26153-88-8	15.249	157.446	1,2	13924	C8H10O	2,6-xylenol	576-26-1	20.416	125.906	2
12325	C7H17N	dimethyl-2-pentylamine	57303-85-2	15.083	160.671	1,2	13925	C8H10O	3,4-xylenol	95-65-8	21.837	128.218	1,2
12326	C7H17N	dimethyl-3-pentylamine	18636-94-7	15.655	153.480	1,2	13926	C8H10O	3,5-xylenol	108-68-9	21.656	130.362	1,2
12327	C7H17N	dimethyl-2-methylbutylamine	66225-39-6	15.633	153.196	1,2	13934	C8H10O	dimethyl phenol	1300-71-6	15.484	125.431	2
12328	C7H17N	dimethyl-3-methylbutylamine	2315-43-7	15.590	153.196	1,2	13985.1	C8H10O2	ethylbenzene hydroperoxide	3071-32-7	24.837	129.016	2
12329	C7H17N	dimethyl-1,1-dimethylpropylamine	57757-60-5	15.312	157.381	1,2	14039	C8H10S	o-ethylthiophenol	4500-58-7	19.578	134.090	1,2
12330	C7H17N	dimethyl-1,2-dimethylpropylamine	66225-38-5	15.502	157.381	1,2	14040	C8H10S	m-ethylthiophenol	62154-77-2	19.635	133.688	1,2
12331	C7H17N	dimethyl-2,2-dimethylpropylamine	10076-31-0	15.292	157.381	1,2	14041	C8H10S	p-ethylthiophenol	4946-13-8	19.635	133.688	1,2
12332	C7H17N	methylethylbutylamine	66225-40-9	15.593	157.401	1,2	14042	C8H10S	2,3-dimethylthiophenol	18800-51-6	19.773	133.688	1,2
12333	C7H17N	methylethyl-sec-butylamine	66225-41-0	14.873	161.098	1,2	14043	C8H10S	2,4-dimethylthiophenol	13616-82-5	19.542	133.688	1,2
12334	C7H17N	methylethylisobutylamine	60247-14-5	15.147	157.984	1,2	14044	C8H10S	2,5-dimethylthiophenol	4001-61-0	19.457	133.688	1,2
12335	C7H17N	methylethyl-tert-butylamine	52841-28-8	15.192	154.779	1,2	14045	C8H10S	2,6-dimethylthiophenol	118-72-9	19.773	133.688	1,2
12336	C7H17N	methyldipropylamine	3405-42-3	15.692	153.605	1,2	14046	C8H10S	3,4-dimethylthiophenol	18800-53-8	19.773	133.688	1,2
12337	C7H17N	methylpropylisopropylamine	66225-42-1	15.549	153.605	1,2	14047	C8H10S	3,5-dimethylthiophenol	38360-81-5	19.773	133.688	1,2
12338	C7H17N	methyldiisopropylamine	10342-97-9	15.415	153.726	1,2	14048	C8H10S	(1-thiapropyl)-benzene	622-38-8	19.281	135.976	1,2
12339	C7H17N	diethylpropylamine	4458-31-5	15.498	156.123	1,2	14049	C8H10S	2-methyl-(1-thiaethyl)-benzene	---	19.493	134.730	1,2
12340	C7H17N	diethylisopropylamine	6006-15-1	15.295	155.912	1,2	14050	C8H10S	3-methyl-(1-thiaethyl)-benzene	4886-77-5	19.493	134.730	1,2
12341	C7H17N	N-tert-butylisopropylamine	7515-80-2	13.847	158.486	1,2	14051	C8H10S	4-methyl-(1-thiaethyl)-benzene	623-13-2	19.666	135.126	1,2
12342	C7H17N	(S)-2-heptylamine	44745-29-1	16.771	150.416	1,2	14052	C8H10S	[(methylthio)methyl]benzene	766-92-7	19.596	135.066	1,2
12343	C7H17N	(R)-2-heptylamine	6240-90-0	16.771	150.416	1,2	14053	C8H10S	alpha-methylbenzenemethanethiol, (S)	33877-11-1	18.586	135.778	1,2
12344	C7H17N	N-propylbutylamine	20193-21-9	16.117	154.656	1,2	14054	C8H10S	2-phenylethanethiol	4410-99-5	20.384	133.947	1,2
12345	C7H17N	3-aminoheptane	28292-42-4	16.478	154.120	2	14082	C8H11N	N,N-dimethylaniline	121-69-7	20.068	127.695	1,2
12346	C7H17N	5-methyl-2-hexylamine	28292-43-5	15.752	154.120	2	14083	C8H11N	o-ethylaniline	578-54-1	21.316	124.035	1,2
12347	C7H17NO	1-(diethylamino)-2-propanol, (±)	78738-36-0	16.246	154.757	1,2	14084	C8H11N	N,2-dimethylaniline	611-21-2	21.396	125.366	1,2
12348	C7H17NO	2-(diethylamino)-1-propanol	611-12-1	16.669	151.288	1,2	14085	C8H11N	N,3-dimethylaniline	696-44-6	21.233	125.999	1,2
12349	C7H17NO	3-(diethylamino)-1-propanol	622-93-5	17.381	153.161	1,2	14086	C8H11N	N,4-dimethylaniline	623-08-5	21.606	126.160	1,2
12350	C7H17NO	2-[isopentylamino]ethanol	34240-76-1	18.168	149.320	1,2	14087	C8H11N	2,3-dimethylaniline	87-59-2	20.936	122.573	1,2
12351	C7H17NO	3-butoxypropylamine	16499-88-0	16.769	153.832	1,2	14088	C8H11N	2,4-dimethylaniline	95-68-1	20.386	125.186	1,2
12352	C7H17NO	1-diethylamino-2-propanol	4402-32-8	17.274	148.269	1,2	14089	C8H11N	2,5-dimethylaniline	95-78-3	20.465	124.223	1,2
12353	C7H17NO	4-amino-2-methyl-3-hexanol	63765-80-0	17.075	151.737	2	14090	C8H11N	2,6-dimethylaniline	87-62-7	20.554	123.678	1,2
12375	C7H18N2	N,N-diethyl-1,3-propanediamine	104-78-9	16.397	159.545	1,2	14091	C8H11N	3,4-dimethylaniline	95-64-7	21.461	116.304	1,2
12376	C7H18N2	1,7-heptanediamine	646-19-5	18.317	162.209	2	14092	C8H11N	3,5-dimethylaniline	108-69-0	20.654	125.404	1,2
12377	C7H18N2	N,N,N',N'-tetramethyl-1,3-propanediamine	110-95-2	15.187	167.537	1,2	14093	C8H11N	m-ethylaniline	587-02-0	20.612	122.456	1,2
12378	C7H18N2	N,N-diethyl-N'-methylethylenediamine	104-79-0	15.917	162.271	1,2	14094	C8H11N	p-ethylaniline	589-16-2	20.493	125.753	1,2
12379	C7H18N2	N,N,2,2-tetramethyl-1,3-propanediamine	53369-71-4	15.976	159.700	1,2	14095	C8H11N	N-ethylaniline	103-69-5	20.820	126.456	1,2
12380	C7H18N2	3-diethylaminopropylamine	14642-66-1	16.324	162.209	2	14096	C8H11N	2,4,6-trimethylpyridine	108-75-8	18.970	132.730	1,2
12520	C8H4Cl2O2	isophthaloyl chloride	99-63-8	22.057	149.101	1,2	14097	C8H11N	2-ethyl-4-methylpyridine	2150-18-7	19.147	131.785	1,2
12594	C8H4O3	phthalic anhydride	85-44-9	24.069	105.006	1,2	14098	C8H11N	2-ethyl-6-methylpyridine	1122-69-6	17.835	131.620	1,2
12713	C8H6	ethynylbenzene	536-74-3	18.723	113.358	1,2	14099	C8H11N	3-ethyl-4-methylpyridine	529-21-5	19.606	131.466	1,2
12934	C8H6O4	isophthalic acid	121-91-5	24.873	151.768	2	14100	C8H11N	4-ethyl-2-methylpyridine	536-88-9	19.609	132.730	1,2
12935	C8H6O4	phthalic acid	88-99-3	26.571	121.621	1,2	14101	C8H11N	2-isopropylpyridine	644-98-4	17.901	129.718	1,2
12936	C8H6O4	terephthalic acid	100-21-0	25.679	155.194	2	14102	C8H11N	3-isopropylpyridine	6304-18-3	19.460	132.564	1,2
12947	C8H6S	benzothiophene	95-15-8	20.986	116.798	1,2	14103	C8H11N	4-isopropylpyridine	696-30-0	19.768	129.165	1,2
13107	C8H7N	indole	120-72-9	24.409	97.996	1,2	14104	C8H11N	4-propylpyridine	1122-81-2	19.107	130.381	1,2
13237	C8H8	styrene	100-42-5	19.081	115.724	1,2	14105	C8H11N	2-propylpyridine	622-39-9	18.323	133.498	1,2
13238	C8H8	1,3,5,7-cyclooctatetraene	629-20-9	18.664	114.831	1,2	14106	C8H11N	2,3,4-trimethylpyridine	2233-29-6	19.176	133.981	1,2
13281	C8H8Cl2	1,2-bis(chloromethyl)benzene	612-12-4	20.469	128.913	1,2	14107	C8H11N	2,3,5-trimethylpyridine	695-98-7	19.069	130.305	1,2
13282	C8H8Cl2	1,3-bis(chloromethyl)benzene	626-16-4	20.657	135.958	1,2	14108	C8H11N	2,3,6-trimethylpyridine	1462-84-6	18.926	131.434	1,2
13283	C8H8Cl2	1,4-bis(chloromethyl)benzene	623-25-6	20.168	132.135	1,2	14109	C8H11N	2,4,5-trimethylpyridine	1122-39-0	19.276	129.885	1,2
13284	C8H8Cl2	1,2-dichloro-3,4-dimethylbenzene	68266-67-1	19.386	143.549	1,2	14124	C8H11NO	p-phenetidine	156-43-4	22.746	129.784	1,2
13285	C8H8Cl2	1,3-dichloro-2,5-dimethylbenzene	38204-89-6	18.977	144.538	1,2	14228	C8H12	1,5-cyclooctadiene	111-78-4	18.532	123.216	1,2
13286	C8H8Cl2	1,4-dichloro-2,5-dimethylbenzene	1124-05-6	18.652	142.023	2	14229	C8H12	1,4-cyclooctadiene	1073-07-0	17.846	124.130	1,2
13287	C8H8Cl2	1,5-dichloro-2,4-dimethylbenzene	2084-45-9	18.737	141.727	2	14230	C8H12	cis,cis-1,5-cyclooctadiene	1552-12-1	18.512	122.685	1,2
13288	C8H8Cl2	2,3-dichloro-1,4-dimethylbenzene	34840-79-4	19.403	142.735	1,2	14230.1	C8H12	methylnorbornene	694-92-8	16.515	124.807	1,2
13289	C8H8Cl2	(1,2-dichloroethyl)benzene	1074-11-9	19.203	144.482	1,2	14231	C8H12	vinylcyclohexene	100-40-3	17.220	130.972	1,2
13290	C8H8Cl2	1,4-dichloro-2-ethylbenzene	54484-63-8	18.511	143.544	1,2	14245	C8H12	1-octen-3-yne	17679-92-4	16.903	140.323	1,2
13291	C8H8Cl2	1-(dichloromethyl)-4-methylbenzene	23063-36-7	18.748	139.427	2	14247	C8H12	1,3-cyclooctadiene	1700-10-3	17.254	130.131	2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
14248	C8H12	cis,cis-1,3-cyclooctadiene	3806-59-5	11.612	124.492	1,2	14616	C8H14O2	ethyl 3-methyl-3-pentenoate	86623-80-5	17.684	155.617	1,2
14252	C8H12	(Z,E)-1,3-cyclooctadiene	3806-60-8	16.446	130.131	2	14617	C8H14O2	ethyl 4-methyl-2-pentenoate	2351-97-5	17.152	159.430	1,2
14325	C8H12O	2-tert-butylfuran	7040-43-9	15.918	143.501	1,2	14618	C8H14O2	ethyl 4-methyl-3-pentenoate	6849-18-9	17.612	156.903	1,2
14379	C8H12O4	1,4-cyclohexanedicarboxylic acid	619-82-9	21.078	193.312	2	14620	C8H14O2	3-hydroxy-2,2-dimethylhexanoic acid, beta-la*	90112-82-6	16.863	167.678	2
14380	C8H12O4	diethyl maleate	141-05-9	18.543	179.168	1,2	14621	C8H14O2	2-methylbutyl acrylate	44914-03-6	16.549	159.899	1,2
14410	C8H12S	2-butylthiophene	1455-20-5	17.721	147.673	1,2	14624	C8H14O2	6-methyl-2-heptenoic acid	90112-75-7	19.143	152.178	1,2
14411	C8H12S	3-butylthiophene	34722-01-5	17.808	146.551	1,2	14627	C8H14O2	tert-butyl methacrylate	585-07-9	15.343	162.512	1,2
14412	C8H12S	2-(1,1-dimethylethyl)thiophene	1689-78-7	17.080	147.112	2	14633	C8H14O2	2-ethyl-2-hexenoic acid	5309-52-4	19.200	149.682	1,2
14413	C8H12S	3-(1,1-dimethylethyl)thiophene	1689-79-8	17.270	147.112	2	14634	C8H14O2	ethyl 4-methyl-4-pentenoate	4911-54-0	17.463	159.594	1,2
14413.1	C8H12S	3-ethyl-2,5-dimethylthiophene	55735-23-4	19.189	130.281	2	14635	C8H14O2	ethyl 2-methyl-4-pentenoate	53399-81-8	16.159	162.884	1,2
14426	C8H13N	1-butyl-1H-pyrrole	589-33-3	16.923	145.905	1,2	14636	C8H14O2	trans-2-hexenyl acetate	2497-18-9	16.852	158.350	1,2
14427	C8H13N	3-ethyl-2,4-dimethyl-1H-pyrrole	517-22-6	18.408	139.992	1,2	14637	C8H14O2	isoamyl acrylate	4245-35-6	16.585	157.647	1,2
14428	C8H13N	4-ethyl-2,3-dimethyl-1H-pyrrole	491-18-9	19.256	135.189	1,2	14642	C8H14O2	2-octenoic acid	1871-67-6	19.119	150.953	1,2
14429	C8H13N	2,3,4,5-tetramethyl-1H-pyrrole	1003-90-3	17.060	146.558	2	14653	C8H14O2	isovaleric acid, allyl ester	2835-39-4	18.876	152.857	2
14433	C8H13N	2,5-diethyl-1H-pyrrole	766-95-0	17.864	140.288	2	14654.1	C8H14O2	2-oxolan-2-yloxolane	106538-38-9	21.186	121.689	2
14463	C8H14	1-propylcyclopentene	3074-61-1	16.680	138.129	1,2	14659	C8H14O3	butyric anhydride	106-31-0	19.051	164.789	1,2
14464	C8H14	1,2,3-trimethylcyclopentene	473-91-6	15.776	138.469	1,2	14688	C8H14O4	diethyl succinate	123-25-1	19.840	168.144	1,2
14465	C8H14	1,5,5-trimethylcyclopentene	62184-83-2	14.560	141.621	1,2	14736	C8H15Br	cis-1-bromo-1-octene	42843-49-2	16.953	170.940	1,2
14466	C8H14	1-ethylcyclohexene	1453-24-3	16.965	134.772	1,2	14737	C8H15Br	trans-1-bromo-1-octene	51751-87-2	16.953	170.940	1,2
14467	C8H14	3-ethylcyclohexene	2808-71-1	16.677	136.739	1,2	14748	C8H15Br3	1,1,1-tribromooctane	62127-65-5	17.664	212.620	2
14468	C8H14	4-ethylcyclohexene	3742-42-5	16.721	136.724	1,2	14749	C8H15Cl	cis-1-chloro-1-octene	64531-23-3	16.881	165.343	1,2
14469	C8H14	1,2-dimethylcyclohexene	1674-10-8	16.928	134.061	1,2	14750	C8H15Cl	trans-1-chloro-1-octene	59871-24-8	16.881	165.343	1,2
14470	C8H14	1,3-dimethylcyclohexene	2808-76-6	16.357	137.904	1,2	14751	C8H15Cl	1-chloro-4-ethyl-3-hexene	82507-04-8	16.794	161.902	1,2
14471	C8H14	1,4-dimethylcyclohexene	2808-79-9	16.359	138.341	1,2	14752	C8H15Cl	6-chloro-2-methyl-2-heptene	80325-37-7	16.231	165.295	1,2
14472	C8H14	1,5-dimethylcyclohexene	2808-77-7	16.403	137.594	1,2	14753	C8H15Cl	2-chloro-1-octene	31283-43-9	16.609	158.158	1,2
14473	C8H14	1,6-dimethylcyclohexene	1759-64-4	16.603	135.881	1,2	14754	C8H15Cl	2-chloro-2-octene	90202-21-4	16.080	165.914	1,2
14474	C8H14	3,3-dimethylcyclohexene	695-28-3	16.102	137.749	1,2	14755	C8H15Cl	4-chloro-2-octene	116668-50-9	14.888	165.117	1,2
14475	C8H14	3,cis-4-dimethylcyclohexene	---	16.329	136.048	1,2	14756	C8H15Cl	cis-4-chloro-4-octene	7321-48-4	15.911	165.339	1,2
14476	C8H14	3,trans-4-dimethylcyclohexene	---	16.329	136.048	1,2	14765	C8H15Cl3	1,1,1-trichlorooctane	4905-79-7	16.711	198.146	1,2
14477	C8H14	3,cis-5-dimethylcyclohexene	---	16.329	136.048	1,2	14766	C8H15F	cis-1-fluoro-1-octene	32814-16-7	15.346	158.209	1,2
14478	C8H14	3,trans-5-dimethylcyclohexene	56021-63-7	16.329	136.048	1,2	14767	C8H15F	trans-1-fluoro-1-octene	32814-17-8	15.346	158.209	1,2
14479	C8H14	3,cis-6-dimethylcyclohexene	---	16.329	136.048	1,2	14770	C8H15F3	1,1,1-trifluorooctane	53392-86-2	15.033	175.211	1,2
14480	C8H14	3,trans-6-dimethylcyclohexene	3685-00-5	16.329	136.048	1,2	14772	C8H15I	cis-1-iodo-1-octene	52356-93-1	17.092	178.628	1,2
14481	C8H14	4,4-dimethylcyclohexene	14072-86-7	16.015	138.302	1,2	14773	C8H15I	trans-1-iodo-1-octene	42599-17-7	17.092	178.628	1,2
14482	C8H14	4,cis-5-dimethylcyclohexene	---	16.388	137.749	1,2	14774	C8H15I3	1,1,1-triiodooctane	---	17.903	236.217	2
14483	C8H14	4,trans-5-dimethylcyclohexene	---	16.228	137.749	1,2	14775	C8H15N	octanenitrile	124-12-9	18.797	154.643	1,2
14484	C8H14	1-octyne	629-05-0	16.321	148.396	1,2	14861	C8H16	propylcyclopentane	2040-96-2	16.394	145.168	1,2
14485	C8H14	2-octyne	2809-67-8	16.438	145.920	1,2	14862	C8H16	isopropylcyclopentane	3875-51-2	16.007	145.245	1,2
14486	C8H14	3-octyne	15232-76-5	16.220	147.345	1,2	14863	C8H16	1-methyl-1-ethylcyclopentane	16747-50-5	15.844	144.421	1,2
14487	C8H14	4-octyne	1942-45-6	16.286	147.535	1,2	14864	C8H16	1-methyl-cis-2-ethylcyclopentane	930-89-2	16.140	143.657	1,2
14488	C8H14	3-ethyl-3-methyl-1-pentyne	919-12-0	13.641	149.256	1,2	14865	C8H16	1-methyl-trans-2-ethylcyclopentane	930-90-5	15.763	146.706	1,2
14493	C8H14	1,7-octadiene	3710-30-3	15.441	150.800	1,2	14866	C8H16	1-methyl-cis-3-ethylcyclopentane	2613-66-3	15.740	147.071	1,2
14494	C8H14	2,6-octadiene	4974-27-0	15.904	148.797	1,2	14867	C8H16	1-methyl-trans-3-ethylcyclopentane	2613-65-2	15.740	147.071	1,2
14495	C8H14	3-methyl-1,5-heptadiene	4894-62-6	15.205	151.999	1,2	14868	C8H16	1,1,2-trimethylcyclopentane	4259-00-1	15.450	146.081	1,2
14496	C8H14	2,5-dimethyl-1,5-hexadiene	627-58-7	15.488	148.982	1,2	14869	C8H16	1,1,3-trimethylcyclopentane	4516-69-2	14.933	150.843	1,2
14497	C8H14	2,5-dimethyl-2,4-hexadiene	764-13-6	16.502	145.439	1,2	14870	C8H16	1,cis-2,cis-3-trimethylcyclopentane	2613-69-6	15.819	144.775	1,2
14547	C8H14O	2,2-dimethylcyclohexanone	1193-47-1	17.879	138.586	1,2	14871	C8H16	1,cis-2,trans-3-trimethylcyclopentane	15890-40-1	15.558	146.476	1,2
14548	C8H14O	cis-2,3-dimethylcyclohexanone	1551-88-8	18.150	138.375	1,2	14872	C8H16	1,trans-2,cis-3-trimethylcyclopentane	19374-46-0	15.161	149.780	1,2
14549	C8H14O	trans-2,3-dimethylcyclohexanone	1551-89-9	17.759	139.339	1,2	14873	C8H16	1,cis-2,cis-4-trimethylcyclopentane	2613-72-1	15.562	146.113	1,2
14550	C8H14O	cis-2,4-dimethylcyclohexanone	116783-29-0	17.994	139.850	1,2	14874	C8H16	1,cis-2,trans-4-trimethylcyclopentane	4850-28-6	15.464	147.807	1,2
14551	C8H14O	trans-2,4-dimethylcyclohexanone, (2S)	93921-42-7	17.986	141.214	1,2	14875	C8H16	1,trans-2,cis-4-trimethylcyclopentane	16883-48-0	15.070	151.026	1,2
14552	C8H14O	trans-2,5-dimethylcyclohexanone, (±)	66395-23-1	17.762	140.421	1,2	14876	C8H16	1-methyl-3-ethylcyclopentane	3726-47-4	15.347	153.575	2
14553	C8H14O	2,6-dimethylcyclohexanone	2816-57-1	18.139	136.431	1,2	14877	C8H16	ethylcyclohexane	1678-91-7	16.359	143.131	1,2
14554	C8H14O	3,3-dimethylcyclohexanone	2979-19-3	18.104	140.002	1,2	14878	C8H16	1,1-dimethylcyclohexane	590-66-9	15.677	144.421	1,2
14555	C8H14O	3,4-dimethylcyclohexanone	5465-09-8	18.393	139.881	1,2	14879	C8H16	1,2-dimethylcyclohexane, (cis+trans)	583-57-3	15.771	144.235	1,2
14556	C8H14O	3,5-dimethylcyclohexanone	2320-30-1	18.111	141.436	1,2	14880	C8H16	cis-1,2-dimethylcyclohexane	2207-01-4	16.246	141.686	1,2
14557	C8H14O	4,4-dimethylcyclohexanone	4255-62-3	17.705	137.682	1,2	14881	C8H16	trans-1,2-dimethylcyclohexane	6876-23-9	15.777	145.356	1,2
14558	C8H14O	3,4-dimethyl-3-hexen-2-one	1635-02-5	17.148	145.817	1,2	14882	C8H16	1,3-dimethylcyclohexane, cis and trans	591-21-9	15.135	146.304	1,2
14559	C8H14O	3,4-dimethyl-4-hexen-2-one	53252-21-4	16.787	148.641	1,2	14883	C8H16	cis-1,3-dimethylcyclohexane	638-04-0	15.642	147.264	1,2
14560	C8H14O	3-methyl-5-hepten-2-one	38552-72-6	17.350	150.090	1,2	14884	C8H16	trans-1,3-dimethylcyclohexane	2207-03-6	16.046	143.681	1,2
14561	C8H14O	5-methyl-5-hepten-2-one	10339-67-0	17.520	147.188	1,2	14885	C8H16	1,4-dimethylcyclohexane, (cis+trans)	589-90-2	15.428	145.356	1,2
14562	C8H14O	6-methyl-3-hepten-2-one	2009-74-7	17.686	150.580	1,2	14886	C8H16	cis-1,4-dimethylcyclohexane	624-29-3	15.984	144.050	1,2
14563	C8H14O	6-methyl-4-hepten-2-one	39273-81-9	16.957	151.923	1,2	14887	C8H16	trans-1,4-dimethylcyclohexane	2207-04-7	15.502	147.846	1,2
14564	C8H14O	6-methyl-5-hepten-2-one	110-93-0	17.128	148.914	1,2	14888	C8H16	cyclooctane	292-64-8	17.225	135.199	1,2
14565	C8H14O	2-methyl-5-hepten-3-one	77958-21-5	16.973	150.576	1,2	14890	C8H16	1-octene	111-66-0	15.641	157.827	1,2
14566	C8H14O	5-methyl-1-hepten-3-one	44829-76-7	17.374	149.671	1,2	14891	C8H16	oct-2-ene	111-67-1	15.808	153.578	2
14567	C8H14O	5-methyl-4-hepten-3-one	1447-26-3	17.346	147.591	1,2	14892	C8H16	cis-2-octene	7642-04-8	15.696	155.833	1,2
14568	C8H14O	5-methyl-5-hepten-3-one	1190-34-7	17.436	148.608	1,2	14893	C8H16	trans-2-octene	13389-42-9	15.418	156.725	1,2
14569	C8H14O	5-methyl-2-hepten-4-one	81925-81-7	17.607	146.302	1,2	14894	C8H16	cis-3-octene	14850-22-7	15.578	156.506	1,2
14570	C8H14O	6-methyl-2-hepten-4-one	49852-35-9	17.344	150.058	1,2	14895	C8H16	trans-3-octene	14919-01-8	15.373	157.827	1,2
14571	C8H14O	4-ethylcyclohexanone	5441-51-0	18.564	141.004	1,2	14896	C8H16	oct-4-ene	592-99-4	15.806	153.578	2
14588	C8H14O	2-ethyl-2-hexenal	645-62-5	17.464	148.819	1,2	14897	C8H16	cis-4-octene	7642-15-1	15.567	156.506	1,2
14589	C8H14O	methylheptenone	409-02-9	17.889	143.406	2	14898	C8H16	trans-4-octene	14850-23-8	15.410	158.049	1,2
14591	C8H14O	trans-2-octenal	2548-87-0	17.443	149.171	1,2	14899	C8H16	2-methyl-1-heptene	15870-10-7	15.407	156.637	1,2
14592	C8H14O	3-octen-2-one	1669-44-9	17.648	145.056	1,2	14900	C8H16	3-methyl-1-heptene	4810-09-7	15.660	146.304	1,2
14597	C8H14O	2-ethyl hexenal	26266-68-2	17.793	143.354	2	14901	C8H16	4-methyl-1-heptene	13151-05-8	15.155	157.384	1,2
14599	C8H14O2	butyl methacrylate	97-88-1	17.199	159.594	1,2	14902	C8H16	5-methyl-1-heptene	13151-04-7	15.162	157.561	1,2
14613	C8H14O2	ethyl 2,3-dimethyl-2-butenoate	13979-28-7	16.464	157.665	1,2	14903	C8H16	6-methyl-1-heptene	5026-76-6	15.113	158.518	1,2
14614	C8H14O2	ethyl 2-hexenoate	1552-67-6	17.196	159.013	1,2	14904	C8H16	2-methyl-2-heptene	627-97-4	15.515	155.854	1,2
14615	C8H14O2	ethyl 3-hexenoate	2396-83-0	16.833	159.526	1,2	14905	C8H16	3-methyl-cis-2-heptene	22768-19-0	15.550	154.779	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
14906	C8H16	3-methyl-trans-2-heptene	22768-20-3	15.550	154.779	1,2	14986	C8H16	2,4,4-trimethyl-2-pentene	107-40-4	14.977	156.506	1,2
14907	C8H16	4-methyl-cis-2-heptene	66225-16-9	15.151	157.605	1,2	14987	C8H16	3,4,4-trimethyl-cis-2-pentene	39761-64-3	15.047	152.674	1,2
14908	C8H16	4-methyl-trans-2-heptene	66225-17-0	15.151	157.605	1,2	14988	C8H16	3,4,4-trimethyl-trans-2-pentene	39761-57-4	15.047	152.674	1,2
14909	C8H16	5-methyl-cis-2-heptene	24608-84-2	15.348	156.071	1,2	14989	C8H16	3,4,4-trimethyl-2-pentene	598-96-9	15.123	152.674	1,2
14910	C8H16	5-methyl-trans-2-heptene	24608-85-3	15.348	156.071	1,2	14990	C8H16	2,4,4-trimethylpentene	25167-70-8	14.113	156.676	1,2
14911	C8H16	6-methyl-2-heptene	73548-72-8	15.391	157.164	1,2	14991	C8H16	3-methyl-2-isopropyl-1-butene	111823-35-9	14.756	156.288	1,2
14912	C8H16	6-methyl-cis-2-heptene	66225-18-1	15.264	157.164	1,2	14992	C8H16	3,3-dimethyl-2-ethyl-1-butene	18231-53-3	14.903	154.993	1,2
14913	C8H16	6-methyl-trans-2-heptene	51065-65-7	15.264	157.164	1,2	14994	C8H16Br2	1,1-dibromooctane	62168-26-7	18.080	190.626	1,2
14914	C8H16	6-methyl-3-heptene	3404-57-7	15.141	158.272	1,2	14995	C8H16Br2	1,2-dibromooctane	6269-92-7	17.471	187.315	1,2
14915	C8H16	2-methyl-3-heptene	17618-76-7	14.780	159.850	1,2	14996	C8H16Br2	1,4-dibromooctane	70690-24-3	17.841	187.611	1,2
14916	C8H16	2-methyl-cis-3-heptene	20488-34-0	14.982	159.850	1,2	14997	C8H16Br2	1,5-dibromooctane	17912-17-3	17.760	189.323	1,2
14917	C8H16	2-methyl-trans-3-heptene	692-96-6	14.982	159.850	1,2	14998	C8H16Br2	1,8-dibromooctane	4549-32-0	18.674	186.394	1,2
14918	C8H16	3-methyl-3-heptene	7300-03-0	15.909	154.993	1,2	14999	C8H16Br2	4,5-dibromooctane	61539-75-1	17.849	187.456	1,2
14919	C8H16	3-methyl-cis-3-heptene	22768-17-8	15.509	154.993	1,2	15005	C8H16Cl2	1,1-dichlorooctane	20395-24-8	16.942	184.970	1,2
14920	C8H16	3-methyl-trans-3-heptene	22768-18-9	15.509	154.993	1,2	15006	C8H16Cl2	2,5-dichloro-2,5-dimethylhexane	6223-78-5	16.034	199.968	1,2
14921	C8H16	4-methyl-3-heptene	4485-16-9	15.876	155.638	1,2	15007	C8H16Cl2	1,8-dichlorooctane	2162-99-4	18.370	178.689	1,2
14922	C8H16	4-methyl-cis-3-heptene	14255-24-4	15.507	155.638	1,2	15008	C8H16Cl2	2,3-dichlorooctane	21948-47-0	16.473	189.349	1,2
14923	C8H16	4-methyl-trans-3-heptene	13714-85-7	15.507	155.638	1,2	15016	C8H16F2	1,1-difluorooctane	61350-03-6	15.792	168.778	1,2
14924	C8H16	5-methyl-3-heptene	13172-91-3	14.853	158.272	1,2	15017	C8H16I2	1,1-diiodooctane	66225-22-7	17.996	203.800	1,2
14925	C8H16	5-methyl-cis-3-heptene	50422-80-5	15.057	158.272	1,2	15018	C8H16I2	1,8-diiodooctane	24772-63-2	18.117	198.926	1,2
14926	C8H16	5-methyl-trans-3-heptene	53510-18-2	15.057	158.272	1,2	15062	C8H16O	2-ethylhexanal	123-05-7	17.573	156.550	1,2
14927	C8H16	6-methyl-cis-3-heptene	66225-19-2	15.149	158.272	1,2	15063	C8H16O	1-octanal	124-13-0	17.742	157.126	1,2
14928	C8H16	6-methyl-trans-3-heptene	66225-20-5	15.149	158.272	1,2	15064	C8H16O	5-methylheptanal	75579-88-3	16.795	157.049	1,2
14929	C8H16	2-ethyl-1-hexene	1632-16-2	15.426	155.208	1,2	15065	C8H16O	2-propylpentanal	18295-59-5	16.816	155.148	1,2
14930	C8H16	3-ethyl-1-hexene	3404-58-8	15.056	157.827	1,2	15066	C8H16O	2-octanone	111-13-7	17.532	157.318	1,2
14931	C8H16	4-ethyl-1-hexene	16746-85-3	15.163	155.422	1,2	15067	C8H16O	2,5-dimethyl-3-hexanone	1888-57-9	15.637	155.054	1,2
14932	C8H16	2,3-dimethyl-1-hexene	16746-86-4	15.045	156.463	1,2	15068	C8H16O	2,2-dimethyl-3-hexanone	5405-79-8	15.352	158.192	1,2
14933	C8H16	2,4-dimethyl-1-hexene	16746-87-5	15.054	156.725	1,2	15069	C8H16O	3,3-dimethyl-2-hexanone	26118-38-7	15.545	156.027	1,2
14934	C8H16	2,5-dimethyl-1-hexene	6975-92-4	15.034	157.406	1,2	15070	C8H16O	3,4-dimethyl-2-hexanone	19550-10-8	16.604	155.018	1,2
14935	C8H16	3,3-dimethyl-1-hexene	3404-77-1	14.651	158.072	1,2	15071	C8H16O	4,4-dimethyl-3-hexanone	19550-14-2	15.658	155.502	1,2
14936	C8H16	3,4-dimethyl-1-hexene	16745-94-1	15.107	155.854	1,2	15072	C8H16O	3-ethyl-4-methyl-2-pentanone	71172-57-1	16.085	158.648	1,2
14937	C8H16	3,5-dimethyl-1-hexene	7423-69-0	14.690	159.396	1,2	15073	C8H16O	2-methyl-3-heptanone	13019-20-0	16.456	157.815	1,2
14938	C8H16	4,4-dimethyl-1-hexene	1647-08-1	14.811	156.791	1,2	15074	C8H16O	2-methyl-4-heptanone	626-33-5	16.064	158.155	1,2
14939	C8H16	4,5-dimethyl-1-hexene	16106-59-5	15.055	154.993	1,2	15075	C8H16O	3-methyl-2-heptanone	2371-19-9	16.813	156.764	1,2
14940	C8H16	5,5-dimethyl-1-hexene	7116-86-1	14.554	159.170	1,2	15076	C8H16O	3-methyl-4-heptanone	15726-15-5	16.140	154.886	1,2
14941	C8H16	3-ethyl-cis-2-hexene	36880-72-5	15.605	153.090	1,2	15077	C8H16O	5-methyl-3-heptanone	541-85-5	17.363	148.547	2
14942	C8H16	3-ethyl-trans-2-hexene	66225-15-8	15.605	153.090	1,2	15078	C8H16O	6-methyl-2-heptanone	928-68-7	16.866	158.047	1,2
14943	C8H16	4-ethyl-cis-2-hexene	54616-49-8	15.215	155.638	1,2	15079	C8H16O	6-methyl-3-heptanone	624-42-0	16.901	155.147	1,2
14944	C8H16	4-ethyl-trans-2-hexene	19781-63-6	15.215	155.638	1,2	15080	C8H16O	3-octanone	106-68-3	16.998	155.979	1,2
14945	C8H16	2,3-dimethyl-2-hexene	7145-20-2	15.523	153.475	1,2	15081	C8H16O	4-octanone	589-63-9	16.969	157.396	1,2
14946	C8H16	2,4-dimethyl-2-hexene	14255-23-3	15.017	156.485	1,2	15082	C8H16O	2,2,4-trimethyl-3-pentanone	5857-36-3	14.393	159.725	1,2
14947	C8H16	2,5-dimethyl-2-hexene	3404-78-2	15.055	156.725	1,2	15095	C8H16O	2,2-dimethylcyclohexanol	1193-46-0	18.193	139.652	1,2
14948	C8H16	3,4-dimethyl-cis-2-hexene	19550-81-3	15.350	153.090	1,2	15096	C8H16O	2,4-dimethylcyclohexanol	69542-91-2	17.991	143.128	1,2
14949	C8H16	3,4-dimethyl-trans-2-hexene	19550-82-4	15.350	153.090	1,2	15097	C8H16O	2,6-dimethylcyclohexanol	5337-72-4	18.244	136.834	1,2
14950	C8H16	3,5-dimethyl-cis-2-hexene	66225-31-8	15.101	155.638	1,2	15098	C8H16O	3,3-dimethylcyclohexanol	767-12-4	18.384	141.918	1,2
14951	C8H16	3,5-dimethyl-trans-2-hexene	66225-12-5	15.101	155.638	1,2	15099	C8H16O	3,4-dimethylcyclohexanol	5715-23-1	18.518	142.509	1,2
14952	C8H16	4,4-dimethyl-cis-2-hexene	19550-83-5	14.768	156.288	1,2	15100	C8H16O	3,5-dimethylcyclohexanol	5441-52-1	18.372	143.446	1,2
14953	C8H16	4,4-dimethyl-trans-2-hexene	---	14.768	156.288	1,2	15101	C8H16O	4,4-dimethylcyclohexanol	932-01-4	18.601	139.276	1,2
14954	C8H16	4,5-dimethyl-2-hexene	73548-71-7	14.790	155.638	1,2	15102	C8H16O	cis-1,2-dimethylcyclohexanol	19879-11-9	17.599	139.276	1,2
14955	C8H16	4,5-dimethyl-cis-2-hexene	65036-71-7	15.025	155.638	1,2	15103	C8H16O	trans-1,2-dimethyl cyclohexanol	19879-12-0	17.540	140.227	1,2
14956	C8H16	4,5-dimethyl-trans-2-hexene	66225-14-7	15.025	155.638	1,2	15104	C8H16O	cis-1,3-dimethylcyclohexanol	15466-94-1	17.332	143.118	1,2
14957	C8H16	5,5-dimethyl-cis-2-hexene	39761-61-0	14.739	157.495	1,2	15105	C8H16O	trans-1,3-dimethylcyclohexanol	15466-93-0	17.340	143.480	1,2
14958	C8H16	5,5-dimethyl-trans-2-hexene	39782-43-9	14.547	159.782	1,2	15106	C8H16O	cis-1,4-dimethylcyclohexanol	16980-61-3	17.454	141.609	1,2
14959	C8H16	3-ethyl-3-hexene	16789-51-8	15.365	154.779	1,2	15107	C8H16O	2,2-dimethyl-4-hexen-3-ol	37674-67-2	16.935	154.326	1,2
14960	C8H16	2,2-dimethyl-cis-3-hexene	690-92-6	14.653	158.362	1,2	15108	C8H16O	2,5-dimethyl-4-hexen-3-ol	60703-31-3	17.037	152.477	1,2
14961	C8H16	2,2-dimethyl-trans-3-hexene	690-93-7	14.418	160.422	1,2	15109	C8H16O	3,5-dimethyl-1-hexen-3-ol	3329-48-4	16.348	153.600	1,2
14962	C8H16	2,3-dimethyl-cis-3-hexene	59643-75-3	15.194	154.993	1,2	15110	C8H16O	3,5-dimethyl-4-hexen-3-ol	1569-43-3	17.171	150.101	1,2
14963	C8H16	2,3-dimethyl-trans-3-hexene	66225-30-7	15.194	154.993	1,2	15111	C8H16O	2-methyl-3-hepten-2-ol	116668-45-2	16.922	154.551	1,2
14964	C8H16	2,4-dimethyl-cis-3-hexene	37549-89-6	14.929	157.274	1,2	15112	C8H16O	2-methyl-4-hepten-2-ol	116668-44-1	16.975	153.588	1,2
14965	C8H16	2,4-dimethyl-trans-3-hexene	61847-78-7	14.851	158.027	1,2	15113	C8H16O	2-methyl-6-hepten-2-ol	77437-98-0	16.958	153.901	1,2
14966	C8H16	2,5-dimethyl-cis-3-hexene	10557-44-5	14.619	158.945	1,2	15114	C8H16O	3-methyl-4-hepten-3-ol	4048-30-0	17.164	150.228	1,2
14967	C8H16	2,5-dimethyl-trans-3-hexene	692-70-6	14.619	158.945	1,2	15115	C8H16O	3-methyl-6-hepten-1-ol	4048-32-2	17.148	150.511	1,2
14968	C8H16	3,4-dimethyl-cis-3-hexene	19550-87-9	15.655	151.030	1,2	15116	C8H16O	4-methyl-1-hepten-4-ol	1186-31-8	16.835	154.278	1,2
14969	C8H16	3,4-dimethyl-trans-3-hexene	19550-88-0	15.655	151.030	1,2	15117	C8H16O	4-methyl-4-hepten-3-ol	81280-12-8	17.104	151.287	1,2
14970	C8H16	2-propyl-1-pentene	15918-08-8	15.394	155.898	1,2	15118	C8H16O	5-methyl-2-hepten-4-ol	4048-31-1	17.066	151.958	1,2
14971	C8H16	2-isopropyl-1-pentene	16746-02-4	15.163	155.638	1,2	15119	C8H16O	6-methyl-2-hepten-4-ol	4798-62-3	16.874	155.446	1,2
14972	C8H16	3-methyl-2-ethyl-1-pentene	3404-67-9	15.158	154.779	1,2	15120	C8H16O	6-methyl-5-hepten-2-ol	1569-60-4	17.697	150.683	1,2
14973	C8H16	4-methyl-2-ethyl-1-pentene	3404-80-6	15.018	156.900	1,2	15121	C8H16O	1-octen-4-ol	40575-42-6	17.388	153.764	1,2
14974	C8H16	2-methyl-3-ethyl-1-pentene	19780-66-6	15.121	154.566	1,2	15122	C8H16O	2-octen-1-ol	22104-78-5	17.093	151.477	1,2
14975	C8H16	3-methyl-3-ethyl-1-pentene	6196-60-7	15.070	154.481	1,2	15123	C8H16O	2-octen-4-ol	4798-61-2	17.539	153.399	1,2
14976	C8H16	4-methyl-3-ethyl-1-pentene	61847-80-1	14.923	156.769	1,2	15124	C8H16O	4-octen-1-ol	67700-26-9	18.453	152.549	1,2
14977	C8H16	2,3,3-trimethyl-1-pentene	560-23-6	14.920	153.551	1,2	15125	C8H16O	5-octen-1-ol	90200-83-2	17.092	151.493	1,2
14978	C8H16	2,3,4-trimethyl-1-pentene	565-76-4	14.956	154.779	1,2	15127	C8H16O	1-ethylcyclohexanol	1940-18-7	17.586	140.248	1,2
14979	C8H16	2,4,4-trimethyl-1-pentene	107-39-1	14.527	157.827	1,2	15128	C8H16O	4-ethylcyclohexanol	4534-74-1	17.295	144.223	1,2
14980	C8H16	3,3,4-trimethyl-1-pentene	560-22-5	14.745	154.779	1,2	15129	C8H16O	cis-2-ethylcyclohexanol, (±)	116697-35-9	18.419	138.784	1,2
14981	C8H16	3,4,4-trimethyl-1-pentene	564-03-4	14.612	156.944	1,2	15130	C8H16O	trans-2-ethylcyclohexanol, (±)	89886-25-9	17.554	140.003	1,2
14982	C8H16	2-methyl-3-ethyl-2-pentene	19780-67-7	15.417	152.674	1,2	15131	C8H16O	hexyl vinyl ether	5363-64-4	15.993	161.771	1,2
14983	C8H16	4-methyl-3-ethyl-cis-2-pentene	42067-48-1	15.371	152.674	1,2	15141	C8H16O	2-ethylcyclohexanol	3760-20-1	17.459	141.517	1,2
14984	C8H16	4-methyl-3-ethyl-trans-2-pentene	42067-49-2	15.275	153.551	1,2	15142	C8H16O	DL-6-methyl-5-hepten-2-ol	4630-06-2	17.028	152.636	1,2
14985	C8H16	2,3,4-trimethyl-2-pentene	565-77-5	15.338	151.827	1,2	15143	C8H16O	trans-2-octen-1-ol	18409-17-1	17.129	150.841	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
15144	C8H16O	1-octen-3-ol	3391-86-4	16.927	154.475	1,2	15359	C8H18	3-ethylhexane	619-99-8	15.206	160.889	1,2
15145	C8H16O	(R)-(-)-1-octen-3-ol	3687-48-7	17.266	148.462	2	15360	C8H18	3-ethyl-2-methylpentane	609-26-7	14.982	160.662	1,2
15147	C8H16O	3-ethyl-3-methyl-2-pentanone	19780-65-5	16.523	148.547	2	15361	C8H18	2,2-dimethylhexane	590-73-8	14.666	165.074	1,2
15148	C8H16O	5-methyl-2-heptanone	18217-12-4	17.266	148.547	2	15362	C8H18	2,3-dimethylhexane	584-94-1	15.013	161.343	1,2
15151	C8H16O	6-methyl-6-hepten-2-ol	1335-09-7	14.905	148.462	2	15363	C8H18	2,4-dimethylhexane	589-43-5	14.650	164.835	1,2
15156	C8H16O2	octanoic acid	124-07-2	22.319	159.705	1,2	15364	C8H18	2,5-dimethylhexane	592-13-2	14.743	165.552	1,2
15157	C8H16O2	2-ethylhexanoic acid	149-57-5	18.636	159.688	1,2	15365	C8H18	3,3-dimethylhexane	563-16-6	14.884	161.571	1,2
15158	C8H16O2	3-ethylhexanoic acid	41065-91-2	14.488	157.645	1,2	15366	C8H18	3,4-dimethylhexane	583-48-2	15.133	159.540	1,2
15159	C8H16O2	heptyl formate	112-23-2	17.155	165.004	1,2	15367	C8H18	2,2,3-trimethylpentane	564-02-3	14.766	160.437	1,2
15160	C8H16O2	hexyl acetate	142-92-7	17.194	166.145	1,2	15368	C8H18	2,2,4-trimethylpentane	540-84-1	14.136	165.552	1,2
15161	C8H16O2	1,1-dimethylbutyl acetate	34859-98-8	16.052	159.032	1,2	15369	C8H18	2,3,3-trimethylpentane	560-21-4	14.917	158.215	1,2
15162	C8H16O2	2-ethylbutyl acetate	10031-87-5	16.381	164.868	1,2	15370	C8H18	2,3,4-trimethylpentane	565-75-3	14.934	159.540	1,2
15163	C8H16O2	sec-hexyl acetate	108-84-9	15.320	163.786	1,2	15371	C8H18	2,2,3,3-tetramethylbutane	594-82-1	12.582	181.087	1,2
15164	C8H16O2	2-methyl-1-pentyl acetate	7789-99-3	16.357	165.763	1,2	15372	C8H18	octane, mixture	---	13.900	161.991	2
15165	C8H16O2	2-methyl-3-pentyl acetate	35897-16-6	15.313	166.795	1,2	15430	C8H18O	1-octanol	111-87-5	21.017	158.239	1,2
15166	C8H16O2	3-methyl-3-pentyl acetate	10250-47-2	15.338	164.346	1,2	15431	C8H18O	2-octanol	123-96-6	20.194	159.401	1,2
15167	C8H16O2	pentyl propanoate	624-54-4	16.761	166.145	1,2	15432	C8H18O	2-octanol, (±)	4128-31-8	17.560	159.788	1,2
15168	C8H16O2	1-methylbutyl propanoate	54004-43-2	17.531	167.379	1,2	15433	C8H18O	3-octanol	589-98-0	18.692	159.284	1,2
15169	C8H16O2	2-methylbutyl propanoate	2438-20-2	17.338	162.000	2	15434	C8H18O	4-octanol	589-62-8	18.726	159.713	1,2
15170	C8H16O2	isopentyl propanoate	105-68-0	16.450	166.721	1,2	15435	C8H18O	4-octanol, (±)	74778-22-6	17.384	159.924	1,2
15171	C8H16O2	1-ethylpropyl propanoate	---	17.872	162.013	2	15436	C8H18O	2-methyl-1-heptanol	60435-70-3	18.501	163.073	1,2
15172	C8H16O2	1,1-dimethylpropyl propanoate	34949-22-9	17.969	162.025	2	15437	C8H18O	3-methyl-1-heptanol	1070-32-2	18.647	166.025	1,2
15173	C8H16O2	1,2-dimethylpropyl propanoate	66576-70-3	17.985	162.017	2	15438	C8H18O	4-methyl-1-heptanol	817-91-4	18.823	161.476	1,2
15174	C8H16O2	2,2-dimethylpropyl propanoate	3581-69-9	17.670	162.026	2	15439	C8H18O	5-methyl-1-heptanol	7212-53-5	19.028	159.733	1,2
15175	C8H16O2	butyl butanoate	109-21-7	16.980	166.529	1,2	15440	C8H18O	6-methyl-1-heptanol	1653-40-3	19.087	159.303	1,2
15176	C8H16O2	isobutyl butanoate	539-90-2	16.177	167.574	1,2	15441	C8H18O	2-methyl-2-heptanol	625-25-2	17.746	161.336	1,2
15177	C8H16O2	isobutyl isobutyrate	97-85-8	16.231	169.265	1,2	15442	C8H18O	3-methyl-2-heptanol	31367-46-1	18.294	159.264	1,2
15178	C8H16O2	sec-butyl butanoate	819-97-6	16.614	162.018	2	15443	C8H18O	4-methyl-2-heptanol	56298-90-9	18.251	163.012	1,2
15179	C8H16O2	tert-butyl butanoate	2308-38-5	16.056	162.056	2	15444	C8H18O	5-methyl-2-heptanol	54630-50-1	18.384	160.818	1,2
15180	C8H16O2	sec-butyl butanoate, (S)	116836-55-6	15.998	167.101	1,2	15445	C8H18O	6-methyl-2-heptanol	4730-22-7	18.310	162.119	1,2
15181	C8H16O2	tert-butyl 2-methylpropanoate	16889-72-8	14.298	162.012	2	15446	C8H18O	2-methyl-3-heptanol	18720-62-2	18.372	158.721	1,2
15185	C8H16O2	ethyl hexanoate	123-66-0	16.646	166.038	1,2	15447	C8H18O	3-methyl-3-heptanol	5582-82-1	18.076	157.836	1,2
15186	C8H16O2	ethyl 4-methylpentanoate	25415-67-2	16.454	166.512	1,2	15448	C8H18O	4-methyl-3-heptanol	14979-39-6	17.696	164.018	1,2
15191	C8H16O2	isopropyl 3-methylbutanoate	32665-23-9	15.309	170.279	1,2	15449	C8H18O	5-methyl-3-heptanol	18720-65-5	17.864	159.929	1,2
15192	C8H16O2	isopropyl pentanoate	18362-97-5	16.343	168.946	1,2	15450	C8H18O	6-methyl-3-heptanol	18720-66-6	18.092	159.377	2
15193	C8H16O2	propyl 3-methylbutanoate	557-00-6	16.102	168.220	1,2	15451	C8H18O	2-methyl-4-heptanol	21570-35-4	18.206	160.818	1,2
15194	C8H16O2	propyl pentanoate	141-06-0	16.638	166.626	1,2	15452	C8H18O	3-methyl-4-heptanol	1838-73-9	18.419	156.358	1,2
15195	C8H16O2	methyl heptanoate	106-73-0	17.029	164.444	1,2	15453	C8H18O	4-methyl-4-heptanol	598-01-6	18.017	158.934	1,2
15204	C8H16O2	2-methylheptanoic acid	1188-02-9	14.418	159.176	1,2	15454	C8H18O	2-ethyl-1-hexanol	104-76-7	20.551	156.904	1,2
15205	C8H16O2	2-propylpentanoic acid	99-66-1	19.348	143.711	1,2	15455	C8H18O	3-ethyl-1-hexanol	41065-95-6	19.004	156.715	1,2
15207	C8H16O2	butyl isobutyrate	97-87-0	16.690	162.007	2	15456	C8H18O	4-ethyl-1-hexanol	---	18.845	159.367	2
15232	C8H16O4	diethylene glycol ethyl ether acetate	112-15-2	18.627	175.162	1,2	15457	C8H18O	2,2-dimethyl-1-hexanol	2370-13-0	18.397	158.431	1,2
15243	C8H16S	thiacyclononane	6007-54-1	18.131	152.695	1,2	15458	C8H18O	2,3-dimethyl-1-hexanol	---	18.527	159.367	2
15248	C8H17Br	1-bromooctane	111-83-1	17.449	174.428	1,2	15459	C8H18O	2,4-dimethyl-1-hexanol	3965-59-1	18.562	159.367	2
15249	C8H17Br	2-bromooctane, (±)-	60251-57-2	16.527	177.539	1,2	15460	C8H18O	2,5-dimethyl-1-hexanol	6886-16-4	18.773	157.855	1,2
15250	C8H17Br	2-ethylhexyl bromide	18908-66-2	16.605	178.326	1,2	15461	C8H18O	3,3-dimethyl-1-hexanol	10524-70-6	18.796	155.964	1,2
15252	C8H17Cl	1-chlorooctane	111-85-3	16.883	171.049	1,2	15462	C8H18O	3,4-dimethyl-1-hexanol	---	18.740	159.363	2
15253	C8H17Cl	2-chloro-2,5-dimethylhexane	29342-44-7	15.469	176.528	1,2	15463	C8H18O	3,5-dimethyl-1-hexanol	13501-73-0	18.883	158.047	1,2
15254	C8H17Cl	3-chloro-2,3-dimethylhexane	101654-30-2	15.837	168.433	1,2	15464	C8H18O	4,4-dimethyl-1-hexanol	6481-95-4	18.625	159.361	2
15255	C8H17Cl	2-chloro-2-methylheptane	4325-49-9	15.603	173.524	1,2	15465	C8H18O	4,5-dimethyl-1-hexanol	---	18.770	159.362	2
15256	C8H17Cl	2-chloro-6-methylheptane	2350-19-8	15.683	171.752	2	15466	C8H18O	5,5-dimethyl-1-hexanol	2768-18-5	18.625	159.361	2
15257	C8H17Cl	3-chloro-3-methylheptane	5272-02-6	15.743	170.443	1,2	15467	C8H18O	3-ethyl-2-hexanol	24448-19-9	18.347	159.371	2
15258	C8H17Cl	4-chloro-4-methylheptane	61764-94-1	15.677	171.889	1,2	15468	C8H18O	4-ethyl-2-hexanol	---	18.342	159.372	2
15259	C8H17Cl	3-(chloromethyl)heptane	123-04-6	15.989	170.346	1,2	15469	C8H18O	2,3-dimethyl-2-hexanol	19550-03-9	17.994	156.527	1,2
15260	C8H17Cl	2-chlorooctane	628-61-5	15.866	172.996	1,2	15470	C8H18O	2,4-dimethyl-2-hexanol	42328-76-7	17.420	161.576	1,2
15261	C8H17Cl	2-chloro-2,4,4-trimethylpentane	6111-88-2	15.968	170.792	1,2	15471	C8H18O	2,5-dimethyl-2-hexanol	3730-60-7	17.541	160.382	1,2
15262	C8H17Cl	(S)-2-chlorooctane	16844-08-9	15.683	171.752	2	15472	C8H18O	3,3-dimethyl-2-hexanol	22025-20-3	18.094	154.668	1,2
15263	C8H17Cl	(<+->)-2-chlorooctane	51261-14-4	15.928	171.752	2	15473	C8H18O	3,4-dimethyl-2-hexanol	19550-05-1	18.464	156.665	1,2
15264	C8H17Cl	2-ethylhexyl-6-chloride	2350-24-5	15.683	171.752	2	15474	C8H18O	3,5-dimethyl-2-hexanol	66576-27-0	17.968	159.374	2
15273	C8H17F	1-fluorooctane	463-11-6	16.131	163.884	1,2	15475	C8H18O	4,4-dimethyl-2-hexanol	---	17.887	159.371	2
15276	C8H17I	1-iodooctane	629-27-6	19.134	181.351	1,2	15476	C8H18O	4,5-dimethyl-2-hexanol	---	18.025	159.372	2
15277	C8H17I	2-iodooctane, (±)	36049-78-2	17.012	181.928	1,2	15477	C8H18O	5,5-dimethyl-2-hexanol	31841-77-7	18.014	159.368	2
15278	C8H17I	2-ethylhexyl iodide	1653-16-3	17.420	179.602	1,2	15478	C8H18O	3-ethyl-3-hexanol	597-76-2	18.103	156.283	1,2
15279	C8H17I	2-octyl iodide	557-36-8	17.355	180.958	2	15479	C8H18O	4-ethyl-3-hexanol	19780-44-0	18.222	159.374	2
15282	C8H17N	cyclohexyldimethylamine	98-94-2	16.928	150.894	2	15480	C8H18O	2,2-dimethyl-3-hexanol	4209-90-9	17.848	156.904	1,2
15283	C8H17N	cyclohexylethylamine	5459-93-8	17.255	146.578	1,2	15481	C8H18O	2,3-dimethyl-3-hexanol	4166-46-5	17.946	156.339	1,2
15285	C8H17N	N,4-dimethylcyclohexylamine	90226-23-6	18.035	155.795	1,2	15482	C8H18O	2,4-dimethyl-3-hexanol	13432-25-2	17.968	159.374	2
15286	C8H17N	2-ethylcyclohexanamine	6850-36-8	17.539	146.181	1,2	15483	C8H18O	2,5-dimethyl-3-hexanol	19550-07-3	17.909	159.870	1,2
15295	C8H17N	(S)-(+)-1-cyclohexylethylamine	17430-98-7	17.280	148.633	1,2	15484	C8H18O	3,4-dimethyl-3-hexanol	19550-08-4	17.761	156.151	1,2
15296	C8H17N	2,3-dimethylcyclohexylamine	42195-92-6	16.730	152.371	1,2	15485	C8H18O	3,5-dimethyl-3-hexanol	4209-91-0	17.644	158.239	1,2
15297	C8H17N	R-(-)-cyclohexylethylamine	5913-13-3	17.280	148.633	1,2	15486	C8H18O	4,4-dimethyl-3-hexanol	19550-09-5	17.938	156.904	1,2
15299	C8H17N	cyclohexaneethylamine	4442-85-7	17.150	150.894	2	15487	C8H18O	4,5-dimethyl-3-hexanol	---	17.838	159.377	2
15301	C8H17N	N-methyl-N-(cyclohexylmethyl) amine	25756-29-0	17.150	150.894	2	15488	C8H18O	5,5-dimethyl-3-hexanol	66576-31-6	17.612	159.377	2
15328	C8H17NO2	1-nitrooctane	629-37-8	18.927	171.110	1,2	15489	C8H18O	2-propyl-1-pentanol	58175-57-8	18.819	159.367	2
15332	C8H17NO2	2-nitrooctane, (±)	116836-12-5	16.995	174.458	1,2	15490	C8H18O	2-isopropyl-1-pentanol	---	19.327	159.352	2
15354	C8H18	octane	111-65-9	15.677	163.420	1,2	15491	C8H18O	2-methyl-2-ethyl-1-pentanol	5970-63-8	18.482	159.364	2
15355	C8H18	2-methylheptane	592-27-8	15.373	164.125	1,2	15492	C8H18O	3-methyl-2-ethyl-1-pentanol	---	18.619	159.366	2
15356	C8H18	3-methylheptane	589-81-1	15.314	162.722	1,2	15493	C8H18O	4-methyl-2-ethyl-1-pentanol	106-67-2	18.708	157.664	1,2
15357	C8H18	4-methylheptane	589-53-7	15.380	160.212	1,2	15494	C8H18O	2-methyl-3-ethyl-1-pentanol	---	18.558	159.367	2
15358	C8H18	3-methyl-3-ethylpentane	1067-08-9	15.060	157.778	1,2	15495	C8H18O	3-methyl-3-ethyl-1-pentanol	---	18.414	159.365	2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
15496	C8H18O	4-methyl-3-ethyl-1-pentanol	---	18.558	159.367	2	15612	C8H18S	diisobutyl sulfide	592-65-4	15.119	177.226	1,2
15497	C8H18O	2,2,3-trimethyl-1-pentanol	57409-53-7	18.271	159.362	2	15614	C8H18S2	dibutyl disulfide	629-45-8	17.558	190.967	1,2
15498	C8H18O	2,2,4-trimethyl-1-pentanol	123-44-4	18.269	156.151	1,2	15615	C8H18S2	di-tert-butyl disulfide	110-06-5	17.242	194.083	1,2
15499	C8H18O	2,3,3-trimethyl-1-pentanol	57409-53-7	18.312	159.362	2	15617	C8H18S2	disulfide, bis(2-methylpropyl)	1518-72-5	16.724	189.203	2
15500	C8H18O	2,3,4-trimethyl-1-pentanol	6570-88-3	18.995	153.937	1,2	15618	C8H18S2	disulfide, bis(1-methylpropyl)	5943-30-6	17.595	186.377	1,2
15501	C8H18O	2,4,4-trimethyl-1-pentanol	16325-63-6	18.297	157.093	1,2	15631	C8H19N	octylamine	111-86-4	17.231	165.913	1,2
15502	C8H18O	3,3,4-trimethyl-1-pentanol	---	18.161	159.365	2	15632	C8H19N	2-ethylhexylamine	104-75-6	16.608	168.792	2
15503	C8H18O	3,4,4-trimethyl-1-pentanol	16325-64-7	18.161	159.365	2	15633	C8H19N	6-methyl-2-heptanamine, (±)	5984-58-7	15.531	172.946	1,2
15504	C8H18O	2-methyl-3-ethyl-2-pentanol	19780-63-3	17.955	155.964	1,2	15634	C8H19N	2-octanamine, (±)	44855-57-4	15.888	172.540	1,2
15505	C8H18O	3-methyl-3-ethyl-2-pentanol	66576-22-5	18.223	152.495	1,2	15635	C8H19N	methylheptylamine	36343-05-2	16.827	168.993	1,2
15506	C8H18O	4-methyl-3-ethyl-2-pentanol	66576-23-6	18.092	159.371	2	15636	C8H19N	ethylhexylamine	20352-67-4	16.502	170.397	1,2
15507	C8H18O	2,3,3-trimethyl-2-pentanol	23171-85-9	17.544	159.792	1,2	15637	C8H19N	dibutylamine	111-92-2	16.575	170.734	1,2
15508	C8H18O	2,3,4-trimethyl-2-pentanol	66576-26-9	17.499	161.978	1,2	15638	C8H19N	diisobutylamine	110-96-3	15.306	173.951	1,2
15509	C8H18O	2,4,4-trimethyl-2-pentanol	690-37-9	17.169	159.011	1,2	15639	C8H19N	di-sec-butylamine	626-23-3	14.597	172.435	1,2
15510	C8H18O	3,3,4-trimethyl-2-pentanol	19411-41-7	18.231	152.852	1,2	15640	C8H19N	N-methyl-2-heptanamine	540-43-2	16.021	168.792	2
15511	C8H18O	3,4,4-trimethyl-2-pentanol	10575-56-1	17.596	159.712	2	15641	C8H19N	dimethylhexylamine	4385-04-0	15.210	173.718	1,2
15512	C8H18O	2-methyl-3-ethyl-3-pentanol	597-05-7	17.926	157.664	1,2	15642	C8H19N	diethylbutylamine	4444-68-2	15.579	172.558	1,2
15513	C8H18O	2,2,3-trimethyl-3-pentanol	7294-05-5	17.584	154.668	1,2	15643	C8H19N	N-ethyl-N-isopropyl-2-propanamine	7087-68-5	13.907	174.186	1,2
15514	C8H18O	2,2,4-trimethyl-3-pentanol	5162-48-1	17.540	157.283	1,2	15644	C8H19N	N-ethyl-N-propyl-1-propanamine	20634-92-8	15.500	160.333	1,2
15515	C8H18O	2,3,4-trimethyl-3-pentanol	3054-92-0	17.908	154.119	1,2	15645	C8H19N	2-amino-6-methylheptane	543-82-8	16.034	168.508	1,2
15516	C8H18O	3-methyl-2-isopropyl-1-butanol	18593-92-5	18.645	154.668	1,2	15646	C8H19N	(S)-2-amino-6-methylheptane	70419-10-2	16.034	168.508	1,2
15517	C8H18O	2,2-diethyl-1-butanol	13023-60-4	18.353	159.367	2	15647	C8H19N	(R)-2-amino-6-methylheptane	70419-11-3	16.034	168.508	1,2
15518	C8H18O	2,3-dimethyl-2-ethyl-1-butanol	---	18.222	159.364	2	15648	C8H19N	(S)-2-aminooctane	34566-04-6	16.435	167.852	1,2
15519	C8H18O	3,3-dimethyl-2-ethyl-1-butanol	66576-56-5	18.507	154.484	1,2	15649	C8H19N	(R)-2-aminooctane	34566-05-7	16.435	167.852	1,2
15520	C8H18O	2,2,3,3-tetramethyl-1-butanol	66576-24-7	14.911	184.509	2	15650	C8H19N	2-aminooctane	693-16-3	16.487	167.634	1,2
15521	C8H18O	3,5-dimethyl-3-hexanol, (±)	19113-78-1	16.524	156.369	1,2	15651	C8H19N	N-isopropyl-N-methyl-tert-butylamine	85523-00-8	14.180	168.508	1,2
15522	C8H18O	2-methyl-1-heptanol, (±)	111675-77-5	17.178	163.178	1,2	15652	C8H19N	tert-octylamine	107-45-9	15.676	160.554	1,2
15523	C8H18O	5-methyl-1-heptanol, (±)	111767-95-4	17.871	159.733	1,2	15653	C8H19NO	N,N-diisopropylethanolamine	96-80-0	16.121	175.842	1,2
15524	C8H18O	2-methyl-3-heptanol, (±)	100296-26-2	17.044	158.977	1,2	15654	C8H19NO	2-(dipropylamino)ethanol	3238-75-3	16.592	169.964	1,2
15525	C8H18O	6-methyl-3-heptanol, (±)	100295-85-0	17.094	159.265	1,2	15655	C8H19NO	6-amino-2-methyl-2-heptanol	372-66-7	16.880	162.285	1,2
15526	C8H18O	3-methyl-4-heptanol, (R*,S*)-(±)	92737-91-2	16.953	156.245	1,2	15694	C8H20N2	2,5-dimethyl-2,5-hexanediamine	23578-35-0	15.829	174.994	1,2
15527	C8H18O	dibutyl ether	142-96-1	15.965	170.459	1,2	15695	C8H20N2	1,8-octanediamine	373-44-4	16.869	182.450	2
15528	C8H18O	di-sec-butyl ether	6863-58-7	14.952	171.581	1,2	15696	C8H20N2	N,N,N',N'-tetramethyl-1,4-butanediamine	111-51-3	14.831	186.643	1,2
15529	C8H18O	di-tert-butyl ether	6163-66-2	14.277	171.356	1,2	15697	C8H20N2	N,N'-diisopropylethylenediamine	4013-94-9	14.979	184.469	1,2
15530	C8H18O	butyl isobutyl ether	17071-47-5	16.029	172.584	1,2	15698	C8H20N2	N,N'-dimethyl-1,6-hexanediamine	13093-04-4	14.670	182.451	1,2
15531	C8H18O	tert-butyl isobutyl ether	33021-02-2	17.449	159.390	2	15699	C8H20N2	N-hexylethylenediamine	7261-70-3	14.892	177.071	1,2
15532	C8H18O	di-sec-butyl ether, (±)	17226-28-7	14.854	172.262	1,2	15700	C8H20N2	N,N,N',N'-tetramethyl-1,3-butanediamine	97-84-7	14.711	186.998	1,2
15533	C8H18O	ethyl hexyl ether	5756-43-4	15.813	169.607	1,2	15701	C8H20N2	N,N,N'-triethylethylenediamine	105-04-4	11.677	183.119	1,2
15534	C8H18O	1-methoxyheptane	629-32-3	16.268	167.544	1,2	15703	C8H20N2	N,N-diisopropyl ethylenediamine	121-05-1	13.593	182.450	2
15535	C8H18O	isooctanol	26952-21-6	18.025	156.527	1,2	15704	C8H20N2	N'-isopropyl-N,N'-dimethyl-1,3-propane-diami*	63905-13-5	14.670	182.450	2
15536	C8H18O	(R)-(-)-2-octanol	5978-70-1	17.609	155.406	1,2	15747	C8H23N5	tetraethylenepentamine	112-57-2	24.230	190.448	1,2
15537	C8H18O	(S)-(+)-2-octanol	6169-06-8	17.538	158.431	1,2	15756	C8H24O4Si4	octamethylcyclotetrasiloxane	556-67-2	12.922	312.557	1,2
15538	C8H18O	octyl alcohol; mixed isomers	29063-28-3	18.301	159.368	2	15803	C9H4O5	trimellitic anhydride	552-30-7	23.766	141.920	2
15539	C8H18O	isobutyl ether	628-55-7	15.436	159.390	2	15903	C9H6N2O2	toluene diisocyanate	584-84-9	21.225	142.754	1,2
15544	C8H18O2	1,2-octanediol	1117-86-8	22.767	164.229	2	16010	C9H7N	isoquinoline	119-65-3	22.064	118.104	1,2
15545	C8H18O2	1,3-octanediol	23433-05-8	23.211	163.506	2	16011	C9H7N	quinoline	91-22-5	21.942	118.497	1,2
15546	C8H18O2	1,4-octanediol	51916-47-3	23.822	163.503	2	16018	C9H7NO	8-hydroxyquinoline	148-24-3	21.309	145.367	1,2
15547	C8H18O2	1,8-octanediol	629-41-4	22.795	168.522	2	16090	C9H8	indene	95-13-6	20.467	116.864	1,2
15548	C8H18O2	2,4-octanediol	90162-24-6	18.008	161.030	1,2	16185	C9H8O	2-methylbenzofuran	4265-25-2	20.129	125.749	1,2
15549	C8H18O2	4,5-octanediol, (±)	22520-40-7	17.914	164.193	2	16246.1	C9H8S	2-methyl benzothiophene	1195-14-8	19.754	138.784	2
15550	C8H18O2	3-methyl-2,4-heptanediol	6964-04-1	18.067	159.986	1,2	16508	C9H10	indane	496-11-7	19.409	123.103	1,2
15551	C8H18O2	2-ethyl-1,3-hexanediol	94-96-2	19.456	157.220	1,2	16509	C9H10	cis-1-propenylbenzene	766-90-5	18.436	130.728	1,2
15552	C8H18O2	2,5-dimethyl-2,5-hexanediol	110-03-2	16.680	173.003	1,2	16510	C9H10	trans-1-propenylbenzene	873-66-5	18.416	131.018	1,2
15553	C8H18O2	2,2,4-trimethyl-1,4-pentanediol	80864-10-4	17.315	172.583	2	16511	C9H10	2-propenylbenzene	300-57-2	17.848	133.110	1,2
15554	C8H18O2	2,2,4-trimethyl-1,3-pentanediol	144-19-4	18.529	161.337	1,2	16512	C9H10	alpha-methylstyrene	98-83-9	18.348	130.584	1,2
15555	C8H18O2	2-butyl-2-methyl-1,3-propanediol	3121-83-3	20.073	156.854	1,2	16513	C9H10	m-methylstyrene	100-80-1	18.718	130.152	1,2
15556	C8H18O2	di-t-butyl peroxide	110-05-4	14.183	185.101	1,2	16514	C9H10	o-methylstyrene	611-15-4	18.973	130.152	1,2
15558	C8H18O2	ethylene glycol monohexyl ether	112-25-4	18.082	165.513	1,2	16515	C9H10	p-methylstyrene	622-97-9	18.918	129.016	1,2
15561	C8H18O2	(3R,6R)-3,6-octanediol	129619-37-0	17.777	165.250	2	16516	C9H10	1-propenylbenzene	637-50-3	19.313	131.033	1,2
15562	C8H18O2	(3S,6S)-3,6-octanediol	136705-66-3	17.777	165.250	2	16519	C9H10	methylstyrene	25013-15-4	18.450	132.043	1,2
15567	C8H18O2	2-(2-ethylbutoxy)ethanol	4468-93-3	18.057	163.514	2	16520	C9H10	3(4)-methylstyrene, isomers	39294-88-7	18.508	131.896	1,2
15568	C8H18O2	ethylene glycol mono-2-methylpentyl ether	10137-96-9	17.703	163.514	2	16539	C9H10Cl2	2,4-dichloro-1,3,5-trimethylbenzene	57386-83-1	17.943	166.485	2
15570	C8H18O2S	diisobutyl sulfone	10495-45-1	18.348	178.179	1,2	16676	C9H10O2	ethyl benzoate	93-89-0	19.016	144.124	1,2
15571	C8H18O2S	dibutyl sulfone	598-04-9	20.412	180.066	1,2	16680	C9H10O2	benzyl acetate	140-11-4	19.944	143.710	1,2
15572	C8H18O2S	di-tert-butylsulfone	1886-75-5	15.333	192.912	2	16707.1	C9H10O2	phenyl ethyl formate	7775-38-4	19.364	143.355	2
15578	C8H18O3	diethylene glycol diethyl ether	112-36-7	17.652	179.457	1,2	16711	C9H10O3	ethyl vanillin	121-32-4	24.562	149.847	2
15579	C8H18O3	diethylene glycol monobutyl ether	112-34-5	21.032	170.409	1,2	16905	C9H11NO	p-dimethylaminobenzaldehyde	100-10-7	21.568	142.895	1,2
15587.1	C8H18O3	dipropylene glycol monoethyl ether	30025-38-8	18.237	175.571	2	17004	C9H12	cumene	98-82-8	17.515	139.761	1,2
15591	C8H18O4	triethylene glycol dimethyl ether	112-49-2	19.177	181.866	1,2	17005	C9H12	m-ethyltoluene	620-14-4	17.855	139.761	1,2
15598	C8H18O5	tetraethylene glycol	112-60-7	26.207	173.109	1,2	17006	C9H12	o-ethyltoluene	611-14-3	18.017	137.052	1,2
15602	C8H18S	octyl mercaptan	111-88-6	17.296	174.163	1,2	17007	C9H12	p-ethyltoluene	622-96-8	17.847	140.250	1,2
15603	C8H18S	2-octanethiol	3001-66-9	16.589	175.690	1,2	17008	C9H12	1,2,3-trimethylbenzene	526-73-8	18.344	134.898	1,2
15604	C8H18S	tert-octyl mercaptan	141-59-3	15.309	173.956	1,2	17009	C9H12	1,2,4-trimethylbenzene	95-63-6	17.943	137.837	1,2
15605	C8H18S	2-octanethiol, (±)	10435-81-1	16.554	175.650	1,2	17010	C9H12	trimethyl benzene	25551-13-7	18.586	139.986	2
15606	C8H18S	dibutyl sulfide	544-40-1	16.467	174.163	1,2	17011	C9H12	mesitylene	108-67-8	18.002	139.598	1,2
15607	C8H18S	methyl heptyl sulfide	20291-61-6	17.309	174.163	1,2	17012	C9H12	propylbenzene	103-65-1	17.812	139.761	1,2
15608	C8H18S	ethyl hexyl sulfide	7309-44-6	17.309	174.163	1,2	17077	C9H12O	benzyl ethyl ether	539-30-0	18.306	144.120	1,2
15609	C8H18S	propyl pentyl sulfide	42841-80-5	17.309	174.163	1,2	17090	C9H12O	2-phenyl-2-propanol	617-94-7	20.497	141.763	1,2
15610	C8H18S	di-sec-butyl sulfide	626-26-6	14.701	176.022	1,2	17101	C9H12O	2-propylphenol	644-35-9	20.392	134.181	1,2
15611	C8H18S	di-tert-butyl sulfide	107-47-1	13.427	179.505	1,2	17102	C9H12O	3-propylphenol	621-27-2	20.326	138.518	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
17103	C9H12O	4-propylphenol	645-56-7	20.694	135.414	1,2	17591	C9H16	4-isopropyl-1-methylcyclopentene	90769-70-3	15.319	156.949	1,2
17104	C9H12O	2-isopropylphenol	88-69-7	19.888	137.154	1,2	17592	C9H16	3-methyl-1-isopropylcyclopentene	51115-02-7	14.965	157.494	1,2
17105	C9H12O	3-isopropylphenol	618-45-1	20.103	139.203	2	17593	C9H16	1-nonyne	3452-09-3	16.070	165.194	1,2
17106	C9H12O	4-isopropylphenol	99-89-8	19.592	141.326	1,2	17594	C9H16	2-nonyne	19447-29-1	16.386	162.493	1,2
17107	C9H12O	2-methyl-3-ethylphenol	1123-73-5	19.405	143.486	2	17595	C9H16	3-nonyne	20184-89-8	16.158	164.407	1,2
17108	C9H12O	2-methyl-4-ethylphenol	2219-73-0	19.947	140.673	2	17596	C9H16	4-nonyne	20184-91-2	15.959	164.103	1,2
17109	C9H12O	2-methyl-5-ethylphenol	1687-65-6	20.247	139.126	2	17597	C9H16	7-methyl-3-octyne	37050-06-9	15.407	164.280	1,2
17110	C9H12O	2-methyl-6-ethylphenol	1687-64-5	19.558	140.763	2	17598	C9H16	2,6-dimethyl-3-heptyne	19549-97-4	14.232	159.050	1,2
17111	C9H12O	3-methyl-4-ethylphenol	1123-94-0	20.293	139.212	2	17599	C9H16	5,5-dimethyl-3-heptyne	23097-98-5	15.419	164.044	1,2
17112	C9H12O	3-methyl-5-ethylphenol	698-71-5	19.954	141.820	2	17605	C9H16	1,8-nonadiene	4900-30-5	15.566	166.045	1,2
17113	C9H12O	3-methyl-6-ethylphenol	1687-61-2	19.837	140.765	2	17606	C9H16	2,7-nonadiene	51333-70-1	15.895	166.309	1,2
17114	C9H12O	4-methyl-2-ethylphenol	3855-26-3	20.087	139.194	2	17607	C9H16	4-methyl-3,5-octadiene	36903-95-4	15.998	162.600	1,2
17115	C9H12O	4-methyl-3-ethylphenol	6161-67-7	20.338	139.820	2	17608	C9H16	7-methyl-2,4-octadiene	2216-70-8	15.810	166.083	1,2
17116	C9H12O	2,3,4-trimethylphenol	526-85-2	19.504	144.317	2	17609	C9H16	2,4-dimethyl-2,4-heptadiene	74421-05-9	15.543	162.974	1,2
17117	C9H12O	2,3,5-trimethylphenol	697-82-5	19.198	145.772	2	17610	C9H16	2,6-dimethyl-1,3-heptadiene	2436-84-2	15.589	164.360	1,2
17118	C9H12O	2,3,6-trimethylphenol	2416-94-6	19.843	142.476	2	17611	C9H16	2,6-dimethyl-1,5-heptadiene	6709-39-3	15.758	162.429	1,2
17119	C9H12O	2,4,5-trimethylphenol	496-78-6	19.622	143.459	2	17612	C9H16	3,5-dimethyl-2,4-heptadiene	101935-28-8	15.625	162.829	1,2
17120	C9H12O	2,4,6-trimethylphenol	527-60-6	19.192	143.705	2	17613	C9H16	3-ethyl-2-methyl-1,5-hexadiene	73398-15-9	15.778	163.584	1,2
17121	C9H12O	3,4,5-trimethylphenol	527-54-8	19.446	146.674	2	17615	C9H16	1,2,3-trimethylcyclohexene	72312-48-2	16.603	150.839	1,2
17138	C9H12O2	cumene hydroperoxide	80-15-9	19.279	145.919	1,2	17616	C9H16	1,3,5-trimethylcyclohexene	3643-64-9	15.937	156.817	1,2
17213	C9H12S	propyl phenyl sulfide	874-79-3	18.732	152.995	1,2	17617	C9H16	1,4,4-trimethylcyclohexene	3419-71-4	15.964	155.539	1,2
17214	C9H12S	isopropyl phenyl sulfide	3019-20-3	18.156	155.209	1,2	17618	C9H16	1,4,5-trimethylcyclohexene	20030-32-4	16.182	155.048	1,2
17215	C9H12S	3-methyl-(1-thiapropyl)-benzene	34786-24-8	18.693	153.072	1,2	17619	C9H16	1,5,5-trimethylcyclohexene	503-46-8	15.944	155.946	1,2
17216	C9H12S	4-methyl-(1-thiapropyl)-benzene	622-63-9	18.728	152.933	1,2	17620	C9H16	1,5,6-trimethylcyclohexene	116724-18-6	16.265	149.850	1,2
17217	C9H12S	2-ethyl-(1-thiaethyl)-benzene	20760-06-9	19.176	149.129	1,2	17621	C9H16	1,6,6-trimethylcyclohexene	69745-49-9	16.400	151.672	1,2
17218	C9H12S	3-ethyl-(1-thiaethyl)-benzene	---	19.296	149.129	1,2	17622	C9H16	1-ethyl-4-methylcyclohexene	62088-36-2	16.426	153.375	1,2
17219	C9H12S	4-ethyl-(1-thiaethyl)-benzene	---	19.296	149.129	1,2	17627	C9H16	1-isopropyl-1-cyclohexene	4292-04-0	16.812	150.760	1,2
17220	C9H12S	2,3-dimethyl-(1-thiaethyl)-benzene	---	19.417	149.129	1,2	17628	C9H16	7-methyl-1,6-octadiene	42152-47-6	15.654	164.975	1,2
17221	C9H12S	2,4-dimethyl-(1-thiaethyl)-benzene	---	19.360	150.010	1,2	17629	C9H16	3,5,5-trimethylcyclohexene	933-12-0	15.642	157.145	2
17222	C9H12S	2,5-dimethyl-(1-thiaethyl)-benzene	---	19.360	150.010	1,2	17670	C9H16O	2-ethyl-2-methylcyclohexanone	17206-52-9	17.436	157.137	1,2
17223	C9H12S	2,6-dimethyl-(1-thiaethyl)-benzene	---	19.360	150.010	1,2	17671	C9H16O	2-isopropylcyclohexanone	1004-77-9	16.445	159.621	1,2
17224	C9H12S	3,4-dimethyl-(1-thiaethyl)-benzene	---	19.360	150.010	1,2	17672	C9H16O	4-isopropylcyclohexanone	5432-85-9	18.319	154.441	1,2
17225	C9H12S	3,5-dimethyl-(1-thiaethyl)-benzene	---	19.360	150.010	1,2	17673	C9H16O	2-propylcyclohexanone	94-65-5	17.754	152.859	1,2
17226	C9H12S	benzenepropanethiol	24734-68-7	18.805	150.753	1,2	17674	C9H16O	4-propylcyclohexanone	40649-36-3	18.171	156.289	1,2
17227	C9H12S	2-isopropylbenzenethiol	6262-87-9	18.428	151.503	1,2	17675	C9H16O	2,2,3-trimethylcyclohexanone	39257-08-4	17.459	154.070	1,2
17228	C9H12S	[(ethylthio)methyl]benzene	6263-62-3	18.799	150.847	2	17676	C9H16O	2,2,4-trimethylcyclohexanone	35413-38-8	16.473	162.421	1,2
17258	C9H13N	2-butylpyridine	5058-19-5	16.540	159.760	1,2	17677	C9H16O	2,2,5-trimethylcyclohexanone	933-36-8	16.887	159.167	1,2
17259	C9H13N	2-tert-butylpyridine	5944-41-2	17.395	144.828	2	17678	C9H16O	2,2,6-trimethylcyclohexanone	2408-37-9	16.977	155.943	1,2
17260	C9H13N	3-tert-butylpyridine	38031-78-6	18.366	144.828	2	17679	C9H16O	2,3,6-trimethylcyclohexanone	42185-47-7	17.344	155.447	1,2
17261	C9H13N	4-butylpyridine	5335-75-1	18.605	149.136	1,2	17680	C9H16O	2,4,4-trimethylcyclohexanone	2230-70-8	17.292	157.056	1,2
17262	C9H13N	4-tert-butylpyridine	3978-81-2	18.250	147.770	1,2	17681	C9H16O	2,4,5-trimethylcyclohexanone	51299-55-9	17.318	157.924	1,2
17263	C9H13N	2,4-diethylpyridine	626-21-1	16.286	157.716	1,2	17682	C9H16O	2,4,6-trimethylcyclohexanone	90645-54-8	17.083	157.541	1,2
17264	C9H13N	2-ethyl-3,5-dimethylpyridine	1123-96-2	18.373	145.624	1,2	17683	C9H16O	3,3,5-trimethylcyclohexanone	873-94-9	17.116	158.944	1,2
17265	C9H13N	3-ethyl-2,6-dimethylpyridine	23580-52-1	17.709	149.992	1,2	17684	C9H16O	3,4,4-trimethylcyclohexanone	40441-35-8	17.132	154.891	1,2
17266	C9H13N	4-ethyl-2,6-dimethylpyridine	36917-36-9	16.402	159.219	1,2	17690	C9H16O	2-methyl-5-octen-4-one	17577-93-4	16.784	167.134	1,2
17267	C9H13N	2,3,4,6-tetramethylpyridine	20820-82-0	18.562	145.873	1,2	17691	C9H16O	2-methyl-7-octen-4-one	54298-97-4	16.675	169.626	1,2
17268	C9H13N	2-ethyl-6-methylaniline	24549-06-2	19.915	139.679	1,2	17692	C9H16O	5-methyl-1-octen-3-one	116836-13-6	16.814	166.837	1,2
17269	C9H13N	N-ethyl-2-methylaniline	94-68-8	19.939	142.626	1,2	17693	C9H16O	7-methyl-5-octen-4-one	32064-78-1	17.304	157.510	1,2
17270	C9H13N	N-ethyl-3-methylaniline	102-27-2	18.992	147.245	1,2	17698	C9H16O	2-nonenal	2463-53-8	16.865	166.578	1,2
17271	C9H13N	N-ethyl-4-methylaniline	622-57-1	19.868	145.125	1,2	17699	C9H16O	trans-2-nonenal	18829-56-6	17.343	157.525	2
17272	C9H13N	N-ethyl-N-methylaniline	613-97-8	18.757	142.946	1,2	17704	C9H16O	2,6-dimethyl-5-heptenal	106-72-9	17.096	162.110	1,2
17273	C9H13N	2-isopropylaniline	643-28-7	19.465	140.171	1,2	17705	C9H16O	(Z)-6-nonenal	2277-19-2	16.847	166.935	1,2
17274	C9H13N	4-isopropylaniline	99-88-7	19.467	142.516	1,2	17706	C9H16O	trans-3-nonen-2-one	18402-83-0	16.888	165.360	1,2
17275	C9H13N	N-isopropylaniline	768-52-5	18.731	141.937	1,2	17711	C9H16O2	allyl hexanoate	123-68-2	16.654	176.944	1,2
17276	C9H13N	2-methyl-N,N-dimethylaniline	609-72-3	17.678	146.248	1,2	17716	C9H16O2	ethyl 2-methyl-2-hexenoate	26311-33-1	17.171	173.784	1,2
17277	C9H13N	3-methyl-N,N-dimethylaniline	121-72-2	19.423	144.327	1,2	17717	C9H16O2	ethyl 2-methyl-3-hexenoate	21994-78-5	16.929	178.771	1,2
17278	C9H13N	4-methyl-N,N-dimethylaniline	99-97-8	19.281	145.003	1,2	17718	C9H16O2	ethyl 3-methyl-3-hexenoate	21994-77-4	17.104	175.135	1,2
17279	C9H13N	2-propylaniline	1821-39-2	19.582	141.451	1,2	17719	C9H16O2	hexyl acrylate	2499-95-8	16.931	178.730	1,2
17280	C9H13N	N-propylaniline	622-80-0	19.256	143.824	1,2	17724	C9H16O2	2-nonenoic acid	3760-11-0	18.480	168.538	2
17281	C9H13N	2,4,5-trimethylaniline	137-17-7	19.056	147.141	1,2	17725	C9H16O2	3-nonenoic acid	4124-88-3	18.431	169.434	1,2
17282	C9H13N	2,4,6-trimethylaniline	88-05-1	19.930	140.360	1,2	17726	C9H16O2	8-nonenoic acid	31642-67-8	18.297	171.917	1,2
17283	C9H13N	3-butylpyridine	539-32-2	18.498	149.251	1,2	17729	C9H16O2	2-ethylbutyl acrylate	3593-10-4	17.142	174.358	1,2
17294	C9H13N	4-propylaniline	2696-84-6	19.426	146.373	1,2	17734	C9H16O2	3,5-dimethyl-3-hydroxyhexane-4-carboxylic ac*	69928-30-9	18.480	168.538	2
17295	C9H13N	2,6-diethylpyridine	935-28-4	18.733	145.658	2	17735	C9H16O2	2-ethylbutylacrylate	3953-10-4	19.567	168.656	2
17297	C9H13N	2,3,5,6-tetramethylpyridine	3748-84-3	18.352	145.658	2	17736	C9H16O2	cis-3-hexenyl propionate	33467-74-2	17.768	168.656	2
17388	C9H14	1-nonen-3-yne	57223-18-4	16.219	157.791	1,2	17737	C9H16O2	trans-2-hexenyl propionate	53398-80-4	17.430	168.656	2
17389	C9H14	1-nonen-4-yne	31508-12-0	16.320	155.835	1,2	17755	C9H16O4	azelaic acid	123-99-9	25.082	164.219	1,2
17390	C9H14	2-nonen-4-yne	90644-60-3	16.310	156.040	1,2	17785	C9H17Br	cis-1-bromo-1-nonene	39924-58-8	16.972	187.512	1,2
17391	C9H14	6,6-dimethyl-1-hepten-4-yne	31508-08-4	15.213	161.972	1,2	17786	C9H17Br	trans-1-bromo-1-nonene	53434-75-6	16.972	187.512	1,2
17392	C9H14	3-propyl-3-hexen-1-yne	688-52-8	15.899	156.700	1,2	17790	C9H17Br3	1,1,1-tribromononane	62127-66-6	17.320	231.669	2
17395.1	C9H14	ethylnorbene	15403-89-1	16.486	141.280	2	17791	C9H17Cl	cis-1-chloro-1-nonene	66688-72-0	16.862	181.772	1,2
17395.2	C9H14	1-methyl-4-vinylcyclohexene	17699-86-4	17.263	143.550	2	17792	C9H17Cl	trans-1-chloro-1-nonene	66688-73-1	16.862	181.772	1,2
17395.3	C9H14	propenyl cyclohexene	13511-13-2	17.323	145.466	2	17793	C9H17Cl	(3-chloropropyl)cyclohexane	1124-62-5	17.865	169.144	1,2
17436	C9H14O	isophorone	78-59-1	18.413	150.228	1,2	17804	C9H17Cl3	1,1,1-trichlorononane	1071-84-7	16.654	214.635	1,2
17450	C9H14O	2-allylcyclohexanone	94-66-6	18.293	149.093	1,2	17805	C9H17F	cis-1-fluoro-1-nonene	66688-74-2	15.408	174.616	1,2
17457	C9H14O	2-amylfuran	3777-69-3	18.468	152.194	2	17806	C9H17F	trans-1-fluoro-1-nonene	66688-75-3	15.408	174.616	1,2
17513	C9H14O6	glyceryl triacetate	102-76-1	20.170	188.434	1,2	17808	C9H17F3	1,1,1-trifluorononane	55757-34-1	15.202	189.822	1,2
17518.1	C9H14O7	trilatic acid	78024-33-6	26.081	186.156	1,2	17809	C9H17I	cis-1-iodo-1-nonene	27370-94-1	16.967	195.305	1,2
17520	C9H14S	2-isopentylthiophene	26963-33-7	17.193	164.442	1,2	17810	C9H17I	trans-1-iodo-1-nonene	26143-08-8	16.967	195.305	1,2
17590	C9H16	1-butylcyclopentene	2423-01-0	16.615	154.606	1,2	17812	C9H17I3	1,1,1-triiodononane	---	17.733	254.572	2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
17813	C9H17N	nonanenitrile	2243-27-8	18.534	171.226	1,2	17938	C9H18	cis,cis-1,3,5-trimethylcyclohexane	1795-27-3	15.068	164.592	1,2
17859	C9H18	butylcyclopentane	2040-95-1	16.070	161.641	1,2	17939	C9H18	cis,trans-1,3,5-trimethylcyclohexane	1795-26-2	14.991	175.824	1,2
17860	C9H18	isobutylcyclopentane	3788-32-7	15.866	162.494	1,2	17940	C9H18	1-ethyl-2-methylcyclohexane	3728-54-9	15.924	163.107	2
17861	C9H18	sec-butylcyclopentane	4850-32-2	16.184	159.699	1,2	17941	C9H18	cyclononane	293-55-0	17.283	149.169	1,2
17862	C9H18	tert-butylcyclopentane	3875-52-3	15.666	160.409	1,2	17942	C9H18	1-nonene	124-11-8	15.825	174.127	1,2
17863	C9H18	1-methyl-1-propylcyclopentane	16631-63-3	15.974	158.795	1,2	17943	C9H18	trans-2-nonene	6434-78-2	15.514	171.992	1,2
17864	C9H18	1-methyl-cis-2-propylcyclopentane	932-43-4	16.110	160.185	1,2	17944	C9H18	trans-3-nonene	20063-92-7	15.578	173.199	1,2
17865	C9H18	1-methyl-trans-2-propylcyclopentane	932-44-5	15.786	163.209	1,2	17945	C9H18	4-nonene; (cis+trans)	2198-23-4	15.548	172.462	1,2
17866	C9H18	1-methyl-cis-3-propylcyclopentane	2443-04-1	15.858	162.683	1,2	17946	C9H18	2-methyl-1-octene	4588-18-5	15.511	172.958	1,2
17867	C9H18	1-methyl-trans-3-propylcyclopentane	2443-03-0	15.858	162.683	1,2	17947	C9H18	3-methyl-2-octene	113426-22-5	15.606	170.390	1,2
17868	C9H18	1-methyl-1-isopropylcyclopentane	61828-00-0	15.925	158.795	1,2	17948	C9H18	7-methyl-3-octene	86668-33-9	15.180	174.378	1,2
17869	C9H18	1-methyl-cis-2-isopropylcyclopentane	61868-01-7	15.874	160.205	1,2	17948.1	C9H18	7-methyl-1-octene	13151-06-9	15.723	164.962	1,2
17870	C9H18	1-methyl-trans-2-isopropylcyclopentane	61828-01-1	15.557	162.683	1,2	17949	C9H18	2-methyl-4-octene	64501-77-5	15.002	171.979	1,2
17871	C9H18	1-methyl-cis-3-isopropylcyclopentane	61828-02-2	15.595	162.474	1,2	17950	C9H18	2,3-dimethyl-2-heptene	3074-64-4	15.510	172.698	1,2
17872	C9H18	1-methyl-trans-3-isopropylcyclopentane	61828-03-3	15.595	162.474	1,2	17951	C9H18	2,6-dimethylhept-3-ene	2738-18-3	13.339	176.588	1,2
17873	C9H18	1,1-diethylcyclopentane	2721-38-2	16.139	158.039	1,2	17955	C9H18Br2	1,1-dibromononane	62168-27-8	17.896	207.734	1,2
17874	C9H18	1,cis-2-diethylcyclopentane	932-39-8	16.177	159.396	1,2	17956	C9H18Br2	1,2-dibromononane	73642-91-8	17.692	205.400	1,2
17875	C9H18	1,trans-2-diethylcyclopentane	932-40-1	15.877	162.015	1,2	17957	C9H18Br2	1,9-dibromononane	4549-33-1	18.332	201.818	1,2
17876	C9H18	1,3-diethylcyclopentane	19398-75-5	16.190	161.229	1,2	17959	C9H18Cl2	1,1-dichlorononane	821-88-5	16.853	201.582	1,2
17877	C9H18	1,cis-3-diethylcyclopentane	62016-59-5	15.985	161.229	1,2	17960	C9H18Cl2	2,6-dichloro-2,6-dimethylheptane	35951-36-1	17.073	200.709	2
17878	C9H18	1,trans-3-diethylcyclopentane	62016-60-8	15.996	161.023	1,2	17961	C9H18Cl2	1,9-dichlorononane	821-99-8	18.216	193.794	1,2
17879	C9H18	1,1-dimethyl-2-ethylcyclopentane	54549-80-3	15.532	161.023	1,2	17964	C9H18F2	1,1-difluorononane	62127-42-8	15.755	184.538	1,2
17880	C9H18	1,1-dimethyl-3-ethylcyclopentane	62016-61-9	15.240	164.807	1,2	17967	C9H18I2	1,1-diiodononane	66703-05-7	17.941	220.192	1,2
17881	C9H18	1,cis-2-dimethyl-1-ethylcyclopentane	62016-63-1	15.812	158.795	1,2	17997	C9H18O	1-nonanal	124-19-6	17.768	173.677	1,2
17882	C9H18	1,trans-2-dimethyl-1-ethylcyclopentane	62016-62-0	15.782	159.396	1,2	17998	C9H18O	diisobutyl ketone	108-83-8	16.459	177.358	1,2
17883	C9H18	1,cis-2-dimethyl-cis-3-ethylcyclopentane	---	16.027	159.396	1,2	17999	C9H18O	2-nonanone	821-55-6	17.447	174.157	1,2
17884	C9H18	1,cis-2-dimethyl-trans-3-ethylcyclopentane	---	15.750	161.023	1,2	18000	C9H18O	di-tert-butyl ketone	815-24-7	14.683	173.786	1,2
17885	C9H18	1,trans-2-dimethyl-cis-3-ethylcyclopentane	---	15.351	165.238	1,2	18001	C9H18O	3,5-dimethyl-4-heptanone	19549-84-9	15.528	174.022	1,2
17886	C9H18	1,trans-2-dimethyl-trans-3-ethylcyclopentane	---	15.710	161.849	1,2	18002	C9H18O	3-methyl-2-octanone	6137-08-2	16.680	173.922	1,2
17887	C9H18	1,cis-2-dimethyl-cis-4-ethylcyclopentane	62016-64-2	15.887	159.396	1,2	18003	C9H18O	3-methyl-4-octanone	20754-04-5	16.330	173.398	1,2
17888	C9H18	1,cis-2-dimethyl-trans-4-ethylcyclopentane	62016-65-3	15.735	162.474	1,2	18004	C9H18O	4-methyl-3-octanone	6137-15-1	16.702	173.465	1,2
17889	C9H18	1,trans-2-dimethyl-cis-4-ethylcyclopentane	62016-66-4	15.418	165.022	1,2	18005	C9H18O	5-methyl-2-octanone	58654-67-4	17.179	163.957	2
17890	C9H18	1,cis-3-dimethyl-1-ethylcyclopentane	62016-68-6	15.336	163.951	1,2	18006	C9H18O	7-methyl-3-octanone	5408-57-1	16.818	170.288	1,2
17891	C9H18	1,trans-3-dimethyl-1-ethylcyclopentane	62016-67-5	15.376	163.103	1,2	18007	C9H18O	7-methyl-4-octanone	20809-46-5	16.483	173.477	1,2
17892	C9H18	1,cis-3-dimethyl-cis-2-ethylcyclopentane	19903-00-5	15.956	160.818	1,2	18008	C9H18O	3-nonanone	925-78-0	16.970	173.435	1,2
17893	C9H18	1,cis-3-dimethyl-trans-2-ethylcyclopentane	19902-98-8	15.303	165.672	1,2	18009	C9H18O	4-nonanone	4485-09-0	16.855	173.677	1,2
17894	C9H18	1,trans-3-dimethyl-cis-2-ethylcyclopentane	19902-99-9	15.681	161.849	1,2	18010	C9H18O	5-nonanone	502-56-7	16.882	173.940	1,2
17895	C9H18	1,cis-3-dimethyl-cis-4-ethylcyclopentane	---	15.760	160.818	1,2	18011	C9H18O	1-ethyl-2-methylcyclohexanol	102370-18-3	17.175	156.414	1,2
17896	C9H18	1,cis-3-dimethyl-trans-4-ethylcyclopentane	---	15.303	165.672	1,2	18012	C9H18O	1-ethyl-3-methylcyclohexanol	62067-44-1	17.027	160.213	1,2
17897	C9H18	1,trans-3-dimethyl-cis-4-ethylcyclopentane	---	15.315	165.022	1,2	18013	C9H18O	1-isopropylcyclohexanol	3552-01-0	17.179	154.365	1,2
17898	C9H18	1,trans-3-dimethyl-trans-4-ethylcyclopentane	---	15.649	163.103	1,2	18014	C9H18O	cis-2-isopropylcyclohexanol	10488-25-2	16.951	158.234	1,2
17899	C9H18	1,1,2,2-tetramethylcyclopentane	52688-89-8	15.331	159.800	1,2	18015	C9H18O	cis-4-isopropylcyclohexanol	22900-08-9	17.179	157.160	1,2
17900	C9H18	1,1,cis-2,cis-3-tetramethylcyclopentane	62016-70-0	15.342	162.893	1,2	18016	C9H18O	trans-4-isopropylcyclohexanol	15890-36-5	17.383	156.150	1,2
17901	C9H18	1,1,cis-2,trans-3-tetramethylcyclopentane	---	14.998	165.455	1,2	18017	C9H18O	1-propylcyclohexanol	5445-24-9	17.268	155.772	1,2
17902	C9H18	1,1,cis-2,cis-4-tetramethylcyclopentane	62016-72-2	15.067	163.951	1,2	18018	C9H18O	cis-2-propylcyclohexanol	5857-86-3	17.882	157.442	1,2
17903	C9H18	1,1,cis-2,trans-4-tetramethylcyclopentane	---	14.959	166.327	1,2	18019	C9H18O	trans-2-propylcyclohexanol	5846-43-5	17.099	158.873	1,2
17904	C9H18	1,1,3,3-tetramethylcyclopentane	50876-33-0	14.484	169.021	1,2	18020	C9H18O	cis-4-propylcyclohexanol	98790-22-8	17.080	159.219	1,2
17905	C9H18	1,1,cis-3,cis-4-tetramethylcyclopentane	20309-77-7	15.083	165.455	1,2	18021	C9H18O	trans-4-propylcyclohexanol	77866-58-1	18.042	159.780	1,2
17906	C9H18	1,1,cis-3,trans-4-tetramethylcyclopentane	---	14.582	169.475	1,2	18022	C9H18O	1,2,2-trimethylcyclohexanol	31720-69-1	17.228	156.497	1,2
17907	C9H18	1,2,2,cis-3-tetramethylcyclopentane	62016-73-3	15.362	162.474	1,2	18023	C9H18O	1,2,6-trimethylcyclohexanol	96244-13-2	17.095	158.943	1,2
17908	C9H18	1,2,2,trans-3-tetramethylcyclopentane	---	15.441	160.818	1,2	18024	C9H18O	1,3,5-trimethylcyclohexanol	90760-75-1	16.783	163.067	1,2
17909	C9H18	1,cis-2,cis-3,cis-4-tetramethylcyclopentane	2532-65-2	15.617	161.641	1,2	18025	C9H18O	2,2,5-trimethylcyclohexanol	73210-25-0	17.164	160.959	1,2
17910	C9H18	1,cis-2,cis-3,trans-4-tetramethylcyclopentane	2532-69-6	15.291	164.378	1,2	18026	C9H18O	2,2,6-trimethylcyclohexanol	10130-91-3	16.995	160.313	1,2
17911	C9H18	1,cis-2,trans-3,cis-4-tetramethylcyclopentane	2532-68-5	15.093	164.378	1,2	18027	C9H18O	2,3,3-trimethylcyclohexanol	116724-17-5	17.765	158.433	1,2
17912	C9H18	1,cis-2,trans-3,trans-4-tetramethylcyclopent*	2532-64-1	15.321	163.738	1,2	18028	C9H18O	2,3,6-trimethylcyclohexanol	58210-03-0	17.559	158.824	1,2
17913	C9H18	1,trans-2,cis-3,trans-4-tetramethylcyclopent*	2532-67-4	14.753	169.680	1,2	18029	C9H18O	cis-3,3,5-trimethylcyclohexanol	933-48-2	17.722	160.945	1,2
17914	C9H18	1,trans-2,trans-3,cis-4-tetramethylcyclopent*	19907-40-5	15.034	165.672	1,2	18030	C9H18O	trans-3,3,5-trimethylcyclohexanol	767-54-4	16.823	164.152	1,2
17915	C9H18	1-methyl-2-isopropylcyclopentane	89223-57-4	15.463	162.761	1,2	18031	C9H18O	3-methyl-4-octen-3-ol	90676-55-4	16.436	168.839	1,2
17916	C9H18	propylcyclohexane	1678-92-8	16.376	159.800	1,2	18032	C9H18O	4-methyl-1-octen-4-ol	62108-06-9	16.694	169.237	1,2
17917	C9H18	isopropylcyclohexane	696-29-7	16.290	158.198	1,2	18033	C9H18O	5-methyl-5-octen-4-ol	36903-92-1	16.979	167.975	1,2
17918	C9H18	1-methyl-1-ethylcyclohexane	4926-90-3	16.122	157.311	1,2	18034	C9H18O	7-methyl-2-octen-4-ol	4798-64-5	16.937	168.799	1,2
17919	C9H18	1-methyl-cis-2-ethylcyclohexane	4923-77-7	16.288	156.628	1,2	18035	C9H18O	cis-2-methyl-3-octen-2-ol	18521-07-8	16.593	170.484	1,2
17920	C9H18	1-methyl-trans-2-ethylcyclohexane	4923-78-8	16.004	159.800	1,2	18036	C9H18O	1-nonen-3-ol	21964-44-3	17.123	173.291	1,2
17921	C9H18	1-methyl-cis-3-ethylcyclohexane	19489-10-2	15.809	161.641	1,2	18037	C9H18O	8-nonen-1-ol	13038-21-6	16.898	169.456	1,2
17922	C9H18	1-methyl-trans-3-ethylcyclohexane	4926-76-5	15.994	159.598	1,2	18042	C9H18O	cis-3-nonen-1-ol	10340-23-5	16.935	168.732	1,2
17923	C9H18	1-methyl-cis-4-ethylcyclohexane	4926-78-7	16.025	158.995	1,2	18043	C9H18O	3,5,5-trimethylcyclohexanol	116-02-9	17.496	161.061	1,2
17924	C9H18	1-methyl-trans-4-ethylcyclohexane	6236-88-0	15.799	161.849	1,2	18044	C9H18O	3,5,5-trimethylhexanal	5435-64-3	16.581	174.102	1,2
17925	C9H18	1,1,2-trimethylcyclohexane	7094-26-0	15.761	158.536	1,2	18045	C9H18O	2,6-dimethyl-3-heptanone	19549-83-8	16.707	163.957	2
17926	C9H18	1,1,3-trimethylcyclohexane	3073-66-3	15.310	162.899	1,2	18046	C9H18O	4-(1-methylethyl)cyclohexanol	4621-04-9	14.610	165.577	2
17927	C9H18	1,1,4-trimethylcyclohexane	7094-27-1	15.201	164.271	1,2	18047	C9H18O	2-methyl-3-octanone	923-28-4	17.154	163.957	2
17928	C9H18	1,2,3-trimethylcyclohexane	1678-97-3	15.137	160.598	1,2	18048	C9H18O	2-methyloctanal	7786-29-0	17.087	163.935	2
17929	C9H18	1,cis-2,cis-3-trimethylcyclohexane	1839-88-9	15.975	158.995	1,2	18049	C9H18O	3-methyl-1-octen-ol	24089-00-7	17.190	163.878	2
17930	C9H18	1,cis-2,trans-3-trimethylcyclohexane	7667-55-2	16.010	157.213	1,2	18052	C9H18O2	nonanoic acid	112-05-0	21.771	175.433	1,2
17931	C9H18	1,trans-2,cis-3-trimethylcyclohexane	1678-81-5	15.555	162.474	1,2	18053	C9H18O2	2-ethylheptanoic acid	3274-29-1	14.219	181.379	2
17932	C9H18	1,2,4-trimethylcyclohexane, isomers	2234-75-5	15.128	160.613	1,2	18054	C9H18O2	3-ethyl-3-methylhexanoic acid	50902-82-4	14.606	171.907	1,2
17933	C9H18	1,cis-2,cis-4-trimethylcyclohexane	1678-80-4	15.726	161.229	1,2	18055	C9H18O2	2-ethyl-3-methylhexanoic acid	74581-94-5	17.832	174.659	1,2
17934	C9H18	1,cis-2,trans-4-trimethylcyclohexane	7667-58-5	15.726	161.229	1,2	18056	C9H18O2	3-methyloctanoic acid	6061-10-5	14.423	176.300	1,2
17935	C9H18	1,trans-2,cis-4-trimethylcyclohexane	7667-59-6	15.653	161.023	1,2	18057	C9H18O2	2-methyloctanoic acid	3004-93-1	14.219	181.379	2
17936	C9H18	1,trans-2,trans-4-trimethylcyclohexane	7667-60-9	15.390	164.313	1,2	18058	C9H18O2	octyl formate	112-32-3	17.693	181.886	1,2
17937	C9H18	1,3,5,-trimethylcyclohexane	1839-63-0	14.680	163.107	2	18059	C9H18O2	heptyl acetate	112-06-1	16.681	182.810	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
18060	C9H18O2	4-heptyl acetate	5921-84-6	14.945	181.033	1,2	18240	C9H20O	3-nonanol, (±)	74742-08-8	17.243	175.745	1,2
18061	C9H18O2	hexyl propanoate	2445-76-3	16.566	182.853	1,2	18241	C9H20O	4-nonanol	5932-79-6	18.494	175.495	1,2
18062	C9H18O2	pentyl butanoate	540-18-1	16.244	183.638	1,2	18242	C9H20O	4-nonanol, (S)	52708-03-9	17.166	175.069	1,2
18063	C9H18O2	1-methylbutyl butanoate	60415-61-4	17.362	181.439	2	18243	C9H20O	5-nonanol	623-93-8	18.512	176.289	1,2
18064	C9H18O2	2-methylbutyl butanoate	51115-64-1	16.714	181.427	2	18244	C9H20O	2-methyl-1-octanol	818-81-5	18.780	173.815	2
18065	C9H18O2	3-methylbutyl butanoate	106-27-4	16.632	184.022	1,2	18245	C9H20O	3-methyl-1-octanol	38514-02-2	18.735	174.646	1,2
18066	C9H18O2	1-ethylpropyl butanoate	---	18.156	181.439	2	18246	C9H20O	4-methyl-1-octanol	38514-03-3	18.690	175.495	1,2
18067	C9H18O2	1,1-dimethylpropyl butanoate	2050-00-2	18.243	181.448	2	18247	C9H20O	5-methyl-1-octanol	38514-04-4	18.746	174.434	1,2
18068	C9H18O2	1,2-dimethylpropyl butanoate	88736-68-9	18.176	181.442	2	18248	C9H20O	6-methyl-1-octanol	38514-05-5	18.944	174.014	1,2
18069	C9H18O2	2,2-dimethylpropyl butanoate	23361-69-5	17.913	181.443	2	18249	C9H20O	7-methyl-1-octanol	2430-22-0	18.032	181.822	1,2
18070	C9H18O2	isopentyl 2-methylpropanoate	2050-01-3	14.641	184.297	1,2	18250	C9H20O	2-methyl-2-octanol	628-44-4	17.723	176.827	1,2
18071	C9H18O2	butyl valerate	591-68-4	16.757	183.361	1,2	18251	C9H20O	3-methyl-2-octanol	27644-49-1	18.131	173.178	1,2
18072	C9H18O2	butyl 2-methylbutanoate	15706-73-7	16.164	184.413	1,2	18252	C9H20O	5-methyl-2-octanol	66793-81-5	18.000	175.709	1,2
18073	C9H18O2	butyl 3-methylbutanoate	109-19-3	16.493	181.440	2	18253	C9H20O	7-methyl-2-octanol	66793-83-7	18.098	173.819	2
18074	C9H18O2	sec-butyl pentanoate	116836-32-9	15.844	184.753	1,2	18254	C9H20O	2-methyl-3-octanol	26533-34-6	18.135	174.876	1,2
18075	C9H18O2	isobutyl 3-methylbutanoate	589-59-3	15.666	186.350	1,2	18255	C9H20O	3-methyl-3-octanol	5340-36-3	18.172	174.243	1,2
18076	C9H18O2	propyl hexanoate	626-77-7	16.392	183.332	1,2	18256	C9H20O	4-methyl-3-octanol	66793-80-4	18.398	170.921	1,2
18077	C9H18O2	isobutyl pentanoate	10588-10-0	16.072	183.468	1,2	18257	C9H20O	6-methyl-3-octanol	40225-75-0	18.268	173.365	1,2
18078	C9H18O2	ethyl heptanoate	106-30-9	16.528	180.330	1,2	18258	C9H20O	7-methyl-3-octanol	66793-84-8	18.244	173.804	1,2
18079	C9H18O2	ethyl 3-methylhexanoate	41692-47-1	16.007	183.185	1,2	18259	C9H20O	2-methyl-4-octanol	40575-41-5	18.025	177.003	1,2
18080	C9H18O2	ethyl 4-methylhexanoate	1561-10-0	16.150	182.577	1,2	18260	C9H20O	3-methyl-4-octanol	26533-35-7	18.052	174.224	1,2
18081	C9H18O2	methyl octanoate	111-11-5	16.728	181.189	1,2	18261	C9H20O	4-methyl-4-octanol	23418-37-3	17.896	175.131	1,2
18082	C9H18O2	3,5,5-trimethylhexanoic acid	3302-10-1	14.219	181.379	2	18262	C9H20O	5-methyl-4-octanol	59734-23-5	17.974	176.786	1,2
18083	C9H18O2	7-methyloctanoic acid	693-19-6	14.219	181.379	2	18263	C9H20O	6-methyl-4-octanol	66793-82-6	18.018	175.923	1,2
18087	C9H18O2	4-octanecarboxylic acid	3274-28-0	9.244	181.379	2	18264	C9H20O	7-methyl-4-octanol	33933-77-6	17.908	178.095	1,2
18099.1	C9H18O3	triacetone alcohol	3682-91-5	19.084	220.561	2	18265	C9H20O	2-ethyl-1-heptanol	817-60-7	18.751	173.816	2
18111	C9H18S	thiacyclodecane	6048-83-5	17.684	169.694	1,2	18266	C9H20O	3-ethyl-1-heptanol	3525-25-5	19.007	173.386	1,2
18115	C9H19Br	1-bromononane	693-58-3	17.339	191.013	1,2	18267	C9H20O	5-ethyl-1-heptanol	998-65-2	18.954	170.115	1,2
18117	C9H19Cl	1-chlorononane	2473-01-0	16.813	187.705	1,2	18268	C9H20O	2,2-dimethyl-1-heptanol	14250-79-4	18.280	173.816	2
18118	C9H19Cl	3-chloro-3-ethyl-2,2-dimethylpentane	86661-53-2	16.346	187.061	2	18269	C9H20O	4,6-dimethyl-1-heptanol	820-05-3	18.127	173.819	2
18119	C9H19Cl	3-chloro-3-ethylheptane	28320-89-0	16.457	184.554	1,2	18270	C9H20O	6,6-dimethyl-1-heptanol	65769-10-0	18.097	171.735	1,2
18120	C9H19Cl	3-chloro-3-methyloctane	28320-88-9	16.330	187.445	1,2	18271	C9H20O	2-ethyl-2-heptanol	5340-36-3	17.988	173.818	2
18121	C9H19Cl	4-chloro-4-methyloctane	36903-89-6	16.333	187.357	1,2	18272	C9H20O	3-ethyl-2-heptanol	19780-39-3	18.127	173.819	2
18122	C9H19Cl	2-chlorononane	2216-36-6	15.457	190.844	1,2	18273	C9H20O	2,3-dimethyl-2-heptanol	66794-00-1	17.860	173.817	2
18123	C9H19Cl	5-chlorononane	28123-70-8	16.220	189.998	1,2	18274	C9H20O	2,4-dimethyl-2-heptanol	65822-93-7	17.839	174.224	1,2
18124	C9H19Cl	3-chloro-2,2,3-trimethylhexane	102449-95-6	16.581	181.814	1,2	18275	C9H20O	2,5-dimethyl-2-heptanol	---	17.839	174.224	1,2
18127	C9H19F	1-fluorononane	463-18-3	16.136	180.264	1,2	18276	C9H20O	2,6-dimethyl-2-heptanol	13254-34-7	17.386	177.003	1,2
18129	C9H19I	1-iodononane	4282-42-2	18.980	198.001	1,2	18277	C9H20O	4,6-dimethyl-2-heptanol	51079-52-8	18.665	167.936	1,2
18139	C9H19N	cyclohexylisopropylamine	1195-42-2	16.308	164.443	1,2	18278	C9H20O	5,6-dimethyl-2-heptanol	58795-24-7	18.280	174.014	1,2
18143	C9H19N	3,3,5-trimethylcyclohexylamine	15901-42-5	16.563	168.327	2	18279	C9H20O	3-ethyl-3-heptanol	19780-41-7	18.075	172.350	1,2
18155	C9H19NO2	1-nitrononane	2216-21-9	17.841	196.932	2	18280	C9H20O	2,2-dimethyl-3-heptanol	19549-70-3	17.681	175.069	1,2
18176	C9H20	nonane	111-84-2	15.523	179.382	1,2	18281	C9H20O	2,3-dimethyl-3-heptanol	19549-71-4	17.665	173.178	1,2
18177	C9H20	2-methyloctane	3221-61-2	15.326	180.645	1,2	18282	C9H20O	2,6-dimethyl-3-heptanol	19549-73-6	17.659	176.569	1,2
18178	C9H20	3-methyloctane	2216-33-3	15.387	178.881	1,2	18283	C9H20O	3,5-dimethyl-3-heptanol	19549-74-7	17.609	175.923	1,2
18179	C9H20	4-methyloctane	2216-34-4	15.293	179.131	1,2	18284	C9H20O	3,6-dimethyl-3-heptanol	1573-28-0	17.620	175.709	1,2
18180	C9H20	3-ethylheptane	15869-80-4	15.304	177.397	1,2	18285	C9H20O	4-ethyl-4-heptanol	597-90-0	17.917	173.595	1,2
18181	C9H20	4-ethylheptane	2216-32-2	15.429	177.152	1,2	18286	C9H20O	2,2-dimethyl-4-heptanol	66793-99-5	17.632	173.819	2
18182	C9H20	2,2-dimethylheptane	1071-26-7	14.857	181.411	1,2	18287	C9H20O	2,4-dimethyl-4-heptanol	19549-77-0	17.462	175.709	1,2
18183	C9H20	2,3-dimethylheptane	3074-71-3	15.241	177.642	1,2	18288	C9H20O	2,6-dimethyl-4-heptanol	108-82-7	17.864	178.757	1,2
18184	C9H20	2,4-dimethylheptane	2213-23-2	14.911	180.391	1,2	18289	C9H20O	3,3-dimethyl-4-heptanol	19549-78-1	17.691	173.819	2
18185	C9H20	2,5-dimethylheptane	2216-30-0	15.014	179.885	1,2	18290	C9H20O	3,5-dimethyl-4-heptanol	19549-79-2	18.419	168.722	1,2
18186	C9H20	2,6-dimethylheptane	1072-05-5	14.993	181.668	1,2	18291	C9H20O	2-propyl-1-hexanol	817-46-9	18.462	173.818	2
18187	C9H20	3,4-dimethylheptane	922-28-1	15.336	176.421	1,2	18292	C9H20O	3-propyl-1-hexanol	66793-85-9	18.462	173.818	2
18188	C9H20	3,5-dimethylheptane	926-82-9	15.072	178.384	1,2	18293	C9H20O	1-methyl-2-ethyl-1-hexanol	---	18.331	173.817	2
18189	C9H20	4,4-dimethylheptane	1068-19-5	14.998	177.889	1,2	18294	C9H20O	1-methyl-3-ethyl-1-hexanol	---	18.599	170.517	1,2
18190	C9H20	3-ethyl-2-methylhexane	16789-46-1	15.253	175.937	1,2	18295	C9H20O	3-methyl-2-ethyl-1-hexanol	66794-04-5	18.513	172.556	1,2
18191	C9H20	4-ethyl-2-methylhexane	3074-75-7	15.055	178.384	1,2	18296	C9H20O	4-methyl-2-ethyl-1-hexanol	66794-06-7	18.452	174.857	1,2
18192	C9H20	3-ethyl-3-methylhexane	3074-76-8	15.262	174.027	1,2	18297	C9H20O	5-methyl-2-ethyl-1-hexanol	66794-07-8	18.346	175.709	1,2
18193	C9H20	3-ethyl-4-methylhexane	3074-77-9	15.424	174.263	1,2	18298	C9H20O	3,3,5-trimethyl-1-hexanol	1484-87-3	18.173	173.814	2
18194	C9H20	2,2,3-trimethylhexane	16747-25-4	14.863	176.907	1,2	18299	C9H20O	3,4,4-trimethyl-1-hexanol	66793-73-5	18.121	173.815	2
18195	C9H20	2,2,4-trimethylhexane	16747-26-5	14.541	179.885	1,2	18300	C9H20O	3,5,5-trimethyl-1-hexanol	3452-97-9	18.112	175.069	1,2
18196	C9H20	2,2,5-trimethylhexane	3522-94-9	14.430	181.411	1,2	18301	C9H20O	4,5,5-trimethyl-1-hexanol	66793-75-7	18.429	173.812	2
18197	C9H20	2,3,3-trimethylhexane	16747-28-7	15.021	174.738	1,2	18302	C9H20O	2-methyl-3-ethyl-2-hexanol	66794-02-3	17.786	173.095	1,2
18198	C9H20	2,3,4-trimethylhexane	921-47-1	15.225	174.500	1,2	18303	C9H20O	2,3,4-trimethyl-2-hexanol	21102-13-6	18.011	174.434	1,2
18199	C9H20	2,3,5-trimethylhexane	1069-53-0	14.819	178.632	1,2	18304	C9H20O	2,4,4-trimethyl-2-hexanol	66793-91-7	18.055	170.921	1,2
18200	C9H20	2,4,4-trimethylhexane	16747-30-1	14.699	178.136	1,2	18305	C9H20O	2,4,5-trimethyl-2-hexanol	66793-93-9	18.022	174.224	1,2
18201	C9H20	3,3,4-trimethylhexane	16747-31-2	15.137	173.087	1,2	18306	C9H20O	2,5,5-trimethyl-2-hexanol	66793-71-3	17.904	173.813	2
18202	C9H20	3,3-diethylpentane	1067-20-5	15.225	171.010	1,2	18307	C9H20O	2-methyl-3-ethyl-3-hexanol	66794-03-4	18.081	170.820	1,2
18203	C9H20	2,2-dimethyl-3-ethylpentane	16747-32-3	14.832	175.455	1,2	18308	C9H20O	2-methyl-4-ethyl-3-hexanol	33943-21-4	17.846	175.069	1,2
18204	C9H20	2,3-dimethyl-3-ethylpentane	16747-33-4	15.318	170.783	1,2	18309	C9H20O	3-methyl-4-ethyl-3-hexanol	66794-05-6	18.502	160.393	1,2
18205	C9H20	2,4-dimethyl-3-ethylpentane	1068-87-7	14.968	174.738	1,2	18310	C9H20O	4-methyl-3-ethyl-3-hexanol	51200-80-7	18.019	169.117	1,2
18206	C9H20	2,2,3,3-tetramethylpentane	7154-79-2	15.109	170.329	1,2	18311	C9H20O	5-methyl-3-ethyl-3-hexanol	597-77-3	17.649	172.350	1,2
18207	C9H20	2,2,3,4-tetramethylpentane	1186-53-4	14.925	174.500	1,2	18312	C9H20O	2,2,3-trimethyl-3-hexanol	5340-41-0	17.473	171.327	1,2
18208	C9H20	2,2,4,4-tetramethylpentane	1070-87-7	14.166	179.131	1,2	18313	C9H20O	2,2,4-trimethyl-3-hexanol	66793-89-3	17.361	173.819	2
18209	C9H20	2,3,3,4-tetramethylpentane	16747-38-9	15.014	174.500	1,2	18314	C9H20O	2,2,5-trimethyl-3-hexanol	3970-60-3	16.627	183.767	1,2
18210	C9H20	3,3-dimethylheptane	4032-86-4	14.946	177.717	1,2	18315	C9H20O	2,3,4-trimethyl-3-hexanol	66793-90-6	17.269	173.820	2
18236	C9H20O	1-nonanol	143-08-8	20.713	175.069	1,2	18316	C9H20O	2,3,5-trimethyl-3-hexanol	65927-60-8	17.207	175.069	1,2
18237	C9H20O	2-nonanol	628-99-9	19.576	175.923	1,2	18317	C9H20O	2,4,4-trimethyl-3-hexanol	66793-92-8	17.577	170.719	1,2
18238	C9H20O	2-nonanol, (±)	74683-66-2	17.404	171.181	1,2	18318	C9H20O	2,5,5-trimethyl-3-hexanol	66793-72-4	17.263	175.709	1,2
18239	C9H20O	3-nonanol	624-51-1	18.536	175.621	1,2	18319	C9H20O	3,4,4-trimethyl-3-hexanol	66793-74-6	17.132	174.014	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
18320	C9H20O	3,5,5-trimethyl-3-hexanol	66810-87-5	17.148	173.595	1,2	19364	C10H12	(2-methyl-1-propenyl)benzene	768-49-0	17.860	147.567	1,2
18321	C9H20O	4-methyl-2-propyl-1-pentanol	54004-41-0	18.331	175.495	1,2	19365	C10H12	cis-1-methyl-2-(1-propenyl)benzene	2077-33-0	18.102	147.222	1,2
18322	C9H20O	4-methyl-2-isopropyl-1-pentanol	55505-24-3	18.150	173.818	2	19366	C10H12	cis-1-methyl-3-(1-propenyl)benzene	2077-31-8	18.031	148.379	1,2
18323	C9H20O	2,2-dimethyl-3-ethyl-1-pentanol	66793-95-1	18.031	173.816	2	19367	C10H12	cis-1-methyl-4-(1-propenyl)benzene	2077-29-4	18.074	149.283	1,2
18324	C9H20O	2,4-dimethyl-2-ethyl-1-pentanol	66793-98-4	18.112	172.350	1,2	19368	C10H12	trans-1-methyl-4-(1-propenyl)benzene	2077-30-7	18.375	146.585	1,2
18325	C9H20O	3,3-diethyl-2-pentanol	66793-94-0	18.031	173.816	2	19369	C10H12	1-methyl-2-(1-methylethenyl)benzene	7399-49-7	17.502	149.334	1,2
18326	C9H20O	2,3-dimethyl-3-ethyl-2-pentanol	66793-97-3	17.765	173.814	2	19370	C10H12	1-methyl-3-(1-methylethenyl)benzene	1124-20-5	18.019	146.732	1,2
18327	C9H20O	4,4-dimethyl-3-ethyl-2-pentanol	21102-09-0	17.902	173.814	2	19371	C10H12	1-methyl-4-(1-methylethenyl)benzene	1195-32-0	17.996	147.567	1,2
18328	C9H20O	2,3,3,4-tetramethyl-2-pentanol	66793-86-0	17.414	173.815	2	19372	C10H12	o-ethylstyrene	7564-63-8	18.038	146.618	1,2
18329	C9H20O	2,3,4,4-tetramethyl-2-pentanol	66793-87-1	17.414	173.815	2	19373	C10H12	m-ethylstyrene	7525-62-4	18.000	148.479	1,2
18330	C9H20O	3,3,4,4-tetramethyl-2-pentanol	66793-88-2	16.890	178.294	2	19374	C10H12	p-ethylstyrene	3454-07-7	18.042	148.813	1,2
18331	C9H20O	2-methyl-3-isopropyl-3-pentanol	---	17.900	168.525	1,2	19375	C10H12	1-ethenyl-2,4-dimethylbenzene	2234-20-0	18.430	146.732	1,2
18332	C9H20O	2,2-dimethyl-3-ethyl-3-pentanol	66793-96-2	17.608	169.197	1,2	19376	C10H12	1-ethenyl-3,5-dimethylbenzene	5379-20-4	18.094	147.881	1,2
18333	C9H20O	2,4-dimethyl-3-ethyl-3-pentanol	3970-59-0	17.876	168.860	1,2	19377	C10H12	2-ethenyl-1,3-dimethylbenzene	2039-90-9	18.165	146.732	1,2
18334	C9H20O	2,2,3,4-tetramethyl-3-pentanol	62185-29-9	17.486	169.256	1,2	19378	C10H12	2-ethenyl-1,4-dimethylbenzene	2039-89-6	18.192	146.569	1,2
18335	C9H20O	2,2,4,4-tetramethyl-3-pentanol	14609-79-1	16.500	178.572	2	19379	C10H12	4-ethenyl-1,2-dimethylbenzene	27831-13-6	18.215	145.922	1,2
18336	C9H20O	ethyl heptyl ether	1969-43-3	15.847	184.311	1,2	19380	C10H12	2,3-dimethylstyrene	40243-75-2	18.211	145.993	2
18339	C9H20O2	1,2-nonanediol	42789-13-9	21.904	187.151	2	19381	C10H12	3,4-dimethylstyrene	---	18.215	145.922	1,2
18340	C9H20O2	1,3-nonanediol	23433-07-0	22.206	187.167	2	19382	C10H12	2,6-dimethylstyrene	2039-90-9	18.165	146.732	1,2
18341	C9H20O2	1,4-nonanediol	2430-73-1	22.770	187.195	2	19383	C10H12	3,5-dimethylstyrene	80648-26-6	18.094	147.881	1,2
18342	C9H20O2	1,9-nonanediol	3937-56-2	22.145	190.199	2	19384	C10H12	2-butenylbenzene	1560-06-1	16.592	150.335	1,2
18343	C9H20O2	2-butyl-2-ethyl-1,3-propanediol	115-84-4	19.016	171.921	1,2	19385	C10H12	3-butenylbenzene	768-56-9	16.674	150.335	1,2
18347	C9H20O2	heptyloxyethanol	7409-44-1	18.513	187.135	2	19386	C10H12	1-methyl-2-allylbenzene	1587-04-8	17.301	147.441	1,2
18348	C9H20O2	2-(1-ethylamyloxy)ethanol	10138-47-3	18.513	187.135	2	19387	C10H12	(1-methylenepropyl)benzene	2039-93-2	17.630	149.048	1,2
18349	C9H20O2	2-ethylbutoxypropanol, mixed isomers	63716-41-6	18.513	187.135	2	19397	C10H12	trans-1-butenylbenzene	824-90-8	18.049	145.993	2
18365	C9H20S	nonyl mercaptan	1455-21-6	17.330	190.635	1,2	19398	C10H12	a,2-dimethylstyrene	26444-18-8	16.950	147.881	1,2
18366	C9H20S	2-nonanethiol	13281-11-3	16.565	192.281	1,2	19484	C10H12O	anethole	104-46-1	19.887	150.615	1,2
18367	C9H20S	methyl octyl sulfide	3698-95-1	17.296	190.862	1,2	19675	C10H12O4	diallyl maleate	999-21-3	19.937	182.855	1,2
18368	C9H20S	ethyl heptyl sulfide	24768-44-3	17.296	190.862	1,2	19865	C10H14	butylbenzene	104-51-8	17.390	156.435	1,2
18369	C9H20S	propyl hexyl sulfide	24768-43-2	17.296	190.862	1,2	19866	C10H14	isobutylbenzene	538-93-2	17.392	158.093	1,2
18370	C9H20S	butyl pentyl sulfide	24768-42-1	17.296	190.862	1,2	19867	C10H14	sec-butylbenzene	135-98-8	17.424	156.435	1,2
18371	C9H20S	tert-nonyl mercaptan, isomers	25360-10-5	14.964	187.294	1,2	19868	C10H14	tert-butylbenzene	98-06-6	17.232	155.529	1,2
18388	C9H21N	nonylamine	112-20-9	17.320	182.513	1,2	19869	C10H14	cymene	25155-15-1	16.816	155.278	2
18389	C9H21N	methyloctylamine	2439-54-5	16.774	185.394	1,2	19870	C10H14	m-cymene	535-77-3	17.128	156.617	1,2
18390	C9H21N	ethylheptylamine	66793-76-8	16.508	186.699	1,2	19871	C10H14	o-cymene	527-84-4	17.389	153.747	1,2
18391	C9H21N	dimethylheptylamine	5277-11-2	15.498	189.992	1,2	19872	C10H14	p-cymene	99-87-6	17.373	157.537	1,2
18392	C9H21N	diethylpentylamine	2162-91-6	15.612	187.899	1,2	19873	C10H14	1-methyl-2-propylbenzene	1074-17-5	17.648	154.330	1,2
18393	C9H21N	tripropylamine	102-69-2	15.151	190.017	1,2	19874	C10H14	1-methyl-3-propylbenzene	1074-43-7	17.438	156.636	1,2
18394	C9H21N	tert-amyl-tert-butylamine	2085-66-7	13.817	186.068	1,2	19875	C10H14	1-methyl-4-propylbenzene	1074-55-1	17.246	157.094	1,2
18395	C9H21N	N-methyldibutylamine	3405-45-6	15.146	190.269	1,2	19876	C10H14	(S)-(1-methylpropyl)benzene	5787-28-0	17.508	155.278	2
18396	C9H21NO	5-diethylamino-2-pentanol	5412-69-1	16.042	185.200	1,2	19877	C10H14	diethylbenzene	25340-17-4	17.363	154.455	1,2
18423	C9H22N2	N1,N1-diethyl-1,4-pentanediamine	140-80-7	15.460	196.944	1,2	19878	C10H14	o-diethylbenzene	135-01-3	17.767	153.221	1,2
18424	C9H22N2	N,N,N',N'-tetraethylmethanediamine	102-53-4	14.296	200.351	1,2	19879	C10H14	m-diethylbenzene	141-93-5	17.668	156.071	1,2
18425	C9H22N2	1,9-diaminononane	646-24-2	17.422	194.817	2	19880	C10H14	p-diethylbenzene	105-05-5	17.534	156.435	1,2
18426	C9H22N2	N,N'-diisopropyl-1,3-propanediamine	63737-71-3	15.811	198.419	1,2	19881	C10H14	3-ethyl-o-xylene	933-98-2	18.299	151.150	1,2
18427	C9H22N2	2,2,4(2,4,4)-trimethyl-1,6-hexanediamine	25620-58-0	16.987	184.341	1,2	19882	C10H14	4-ethyl-o-xylene	934-80-5	17.994	154.100	1,2
18598	C10H6O8	pyromellitic acid	89-05-4	25.896	196.337	2	19883	C10H14	2-ethyl-m-xylene	2870-04-4	18.132	151.491	1,2
18601	C10H7Br	1-bromonaphthalene	90-11-9	21.226	140.101	1,2	19884	C10H14	4-ethyl-m-xylene	874-41-9	17.644	153.923	1,2
18606	C10H7Cl	1-chloronaphthalene	90-13-1	21.157	138.871	1,2	19885	C10H14	5-ethyl-m-xylene	934-74-7	17.571	155.890	1,2
18607	C10H7Cl	2-chloronaphthalene	91-58-7	19.879	141.618	1,2	19886	C10H14	2-ethyl-p-xylene	1758-88-9	17.608	153.747	1,2
18608	C10H7Cl	monochloronaphthalene	25586-43-0	21.068	133.479	1,2	19887	C10H14	1,2,3,4-tetramethylbenzene	488-23-3	19.069	148.969	1,2
18669	C10H8	naphthalene	91-20-3	20.562	117.642	1,2	19888	C10H14	1,2,3,5-tetramethylbenzene	527-53-7	18.328	151.320	1,2
18670	C10H8	azulene	275-51-4	22.001	128.986	1,2	19889	C10H14	1,2,4,5-tetramethylbenzene	95-93-2	17.150	159.891	1,2
18849	C10H9N	2-methylquinoline	91-63-4	19.752	135.724	1,2	19982	C10H14O	3-butylphenol	4074-43-5	19.127	159.415	1,2
18850	C10H9N	3-methylquinoline	612-58-8	20.334	138.724	1,2	19983	C10H14O	4-butylphenol	1638-22-8	19.946	154.231	1,2
18851	C10H9N	4-methylquinoline	491-35-0	21.545	132.951	1,2	19984	C10H14O	2-isobutylphenol	4167-75-3	19.443	155.345	2
18852	C10H9N	5-methylquinoline	7661-55-4	21.417	132.673	1,2	19985	C10H14O	3-isobutylphenol	30749-25-8	18.945	158.423	2
18853	C10H9N	6-methylquinoline	91-62-3	21.245	135.591	1,2	19986	C10H14O	4-isobutylphenol	4167-74-2	19.084	156.821	1,2
18854	C10H9N	7-methylquinoline	612-60-2	20.902	136.751	1,2	19987	C10H14O	2-sec-butylphenol	89-72-5	19.344	153.224	1,2
18855	C10H9N	8-methylquinoline	611-32-5	20.980	134.086	1,2	19988	C10H14O	3-sec-butylphenol	3522-86-9	18.945	158.423	2
18856	C10H9N	1-methylisoquinoline	1721-93-3	20.744	133.355	1,2	19989	C10H14O	4-sec-butylphenol	99-71-8	19.162	156.336	1,2
18857	C10H9N	3-methylisoquinoline	1125-80-0	19.890	140.076	2	19990	C10H14O	2-tert-butylphenol	88-18-6	18.905	154.055	1,2
18858	C10H9N	4-methylisoquinoline	1196-39-0	20.930	137.706	2	19991	C10H14O	3-tert-butylphenol	585-34-2	18.980	156.892	2
18859	C10H9N	6-methylisoquinoline	42398-73-2	21.078	142.031	2	19992	C10H14O	4-tert-butylphenol	98-54-4	17.766	167.534	1,2
18860	C10H9N	8-methylisoquinoline	62882-00-2	17.872	158.192	2	19993	C10H14O	2-methyl-3-propylphenol	66142-78-7	19.225	158.315	2
18958	C10H10	m-divinylbenzene	108-57-6	18.741	140.745	1,2	19994	C10H14O	2-methyl-4-propylphenol	18441-56-0	19.405	157.216	2
18963	C10H10	1-methylindene	767-59-9	18.252	139.170	1,2	19995	C10H14O	2-methyl-5-propylphenol	499-75-2	19.225	158.315	2
18964	C10H10	2-methylindene	2177-47-1	17.793	139.421	1,2	19996	C10H14O	2-methyl-6-propylphenol	---	19.225	158.315	2
18965	C10H10	3-methyl-1H-indene	767-60-2	19.576	133.940	1,2	19997	C10H14O	3-methyl-2-propylphenol	3228-01-1	19.757	158.110	2
18966	C10H10	4-methyl-1H-indene	7344-34-5	20.890	131.637	1,2	19998	C10H14O	3-methyl-4-propylphenol	30388-40-0	20.220	155.331	2
18967	C10H10	6-methyl-1H-indene	20232-11-5	20.548	133.254	1,2	19999	C10H14O	3-methyl-5-propylphenol	36186-96-6	20.122	155.334	2
18968	C10H10	7-methyl-1H-indene	7372-92-1	20.890	131.637	1,2	20000	C10H14O	4-methyl-2-propylphenol	4074-46-8	20.091	157.991	2
19195	C10H10O4	dimethyl phthalate	131-11-3	20.678	163.320	1,2	20001	C10H14O	4-methyl-3-propylphenol	---	20.091	157.991	2
19196	C10H10O4	dimethyl terephthalate	120-61-6	18.405	180.590	1,2	20002	C10H14O	5-methyl-2-propylphenol	89-83-8	20.091	157.991	2
19358	C10H12	1,3-dicyclopentadiene	77-73-6	16.967	146.902	2	20003	C10H14O	2-methyl-3-isopropylphenol	4371-48-6	20.177	156.516	2
19359	C10H12	1,2,3,4-tetrahydronaphthalene	119-64-2	18.728	136.717	1,2	20004	C10H14O	2-methyl-4-isopropylphenol	1740-97-2	20.510	153.396	1,2
19360	C10H12	cis-(1-butenyl)benzene	1560-09-4	18.099	145.858	1,2	20005	C10H14O	2-methyl-5-isopropylphenol	499-75-2	19.518	154.072	1,2
19361	C10H12	trans-(1-butenyl)benzene	1005-64-7	18.278	147.255	1,2	20006	C10H14O	2-methyl-6-isopropylphenol	3228-04-4	19.805	153.568	1,2
19362	C10H12	cis-(1-methyl-1-propenyl)benzene	767-99-7	17.434	148.245	1,2	20007	C10H14O	3-methyl-2-isopropylphenol	3228-01-1	18.440	160.170	2
19363	C10H12	trans-(1-methyl-1-propenyl)benzene	768-00-3	18.224	144.676	1,2	20008	C10H14O	3-methyl-4-isopropylphenol	3228-02-2	17.910	165.106	2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
20009	C10H14O	3-methyl-5-isopropylphenol	3228-03-3	19.142	157.792	2	20594	C10H18	2-decyne	2384-70-5	16.527	172.721	2
20010	C10H14O	4-methyl-2-isopropylphenol	4427-56-9	19.234	153.150	1,2	20595	C10H18	3-decyne	2384-85-2	15.913	183.154	1,2
20011	C10H14O	5-methyl-2-isopropylphenol	89-83-8	18.931	157.464	1,2	20596	C10H18	4-decyne	2384-86-3	15.417	180.420	1,2
20012	C10H14O	2,3-diethylphenol	---	18.953	158.429	2	20597	C10H18	5-decyne	1942-46-7	16.017	180.622	1,2
20013	C10H14O	2,4-diethylphenol	936-89-0	18.847	158.475	2	20598	C10H18	2,2-dimethyl-3-octyne	19482-57-6	15.209	185.400	1,2
20014	C10H14O	2,5-diethylphenol	876-20-0	18.815	158.489	2	20599	C10H18	8-methyl-4-nonyne	70732-43-3	15.400	180.832	1,2
20015	C10H14O	2,6-diethylphenol	1006-59-3	18.853	156.773	2	20600	C10H18	5-ethyl-5-methyl-3-heptyne	61228-10-2	15.432	180.062	1,2
20016	C10H14O	3,4-diethylphenol	875-85-4	20.091	157.991	2	20601	C10H18	cis-decahydronaphthalene	493-01-6	17.625	154.645	1,2
20017	C10H14O	3,5-diethylphenol	1197-34-8	18.995	160.740	2	20602	C10H18	trans-decahydronaphthalene	493-02-7	16.797	159.278	1,2
20018	C10H14O	2,3-dimethyl-4-ethylphenol	---	19.364	156.600	2	20603	C10H18	1-pentylcyclopentene	4291-98-9	16.553	170.999	1,2
20019	C10H14O	2,3-dimethyl-5-ethylphenol	---	19.364	156.600	2	20604	C10H18	1,5-dimethyl-4-isopropylcyclopentene	6912-05-6	15.181	171.466	1,2
20020	C10H14O	2,3-dimethyl-6-ethylphenol	---	19.084	158.353	2	20608	C10H18	1,3-decadiene	2051-25-4	15.589	183.153	1,2
20021	C10H14O	2,4-dimethyl-3-ethylphenol	62126-74-3	18.921	160.188	2	20609	C10H18	1,9-decadiene	1647-16-1	15.468	184.337	1,2
20022	C10H14O	2,4-dimethyl-5-ethylphenol	18441-55-9	19.465	156.798	2	20610	C10H18	2,6-dimethyl-2,5-octadiene	116668-48-5	15.800	179.538	1,2
20023	C10H14O	2,4-dimethyl-6-ethylphenol	2219-79-6	19.100	156.652	2	20611	C10H18	2,7-dimethyl-2,6-octadiene	16736-42-8	15.757	176.827	1,2
20024	C10H14O	2,5-dimethyl-3-ethylphenol	---	19.096	156.653	2	20612	C10H18	3,6-dimethyl-2,6-octadiene	116668-49-6	15.251	178.686	1,2
20025	C10H14O	2,5-dimethyl-4-ethylphenol	32018-76-1	19.058	156.890	2	20613	C10H18	3,7-dimethyl-2,4-octadiene	56523-26-3	15.823	174.962	1,2
20026	C10H14O	2,5-dimethyl-6-ethylphenol	---	19.096	156.653	2	20614	C10H18	4,5-dimethyl-2,6-octadiene	18476-57-8	15.109	181.649	1,2
20027	C10H14O	2,6-dimethyl-3-ethylphenol	---	19.096	156.653	2	20615	C10H18	cis-2,6-dimethyl-2,6-octadiene	2492-22-0	15.736	178.940	1,2
20028	C10H14O	2,6-dimethyl-4-ethylphenol	10570-69-1	19.142	156.552	2	20625	C10H18	1-methyl-4-isopropylcyclohexene	5502-88-5	16.677	165.013	1,2
20029	C10H14O	3,4-dimethyl-2-ethylphenol	---	19.497	156.574	2	20626	C10H18	1-methyl-4-isopropylcyclohexene, (R)	1195-31-9	16.434	168.743	1,2
20030	C10H14O	3,4-dimethyl-5-ethylphenol	62126-75-4	18.782	161.102	2	20627	C10H18	4-methyl-1-isopropylcyclohexene, (R)	619-52-3	16.075	171.924	1,2
20031	C10H14O	3,4-dimethyl-6-ethylphenol	2219-78-5	19.254	158.080	2	20628	C10H18	trans-3-methyl-6-isopropylcyclohexene, (3R)	5113-93-9	16.080	171.417	1,2
20032	C10H14O	3,5-dimethyl-2-ethylphenol	62126-76-5	19.293	160.928	2	20635	C10H18	1-tert-butyl-1-cyclohexene	3419-66-7	16.331	166.570	1,2
20033	C10H14O	3,5-dimethyl-4-ethylphenol	62126-77-6	19.033	162.148	2	20636	C10H18	decahydronaphthalene; (cis+trans)	91-17-8	15.671	154.818	1,2
20034	C10H14O	2,3,4,5-tetramethylphenol	488-70-0	19.198	161.196	2	20637	C10H18	3,7-dimethyl-1,6-octadiene	2436-90-0	15.170	182.633	1,2
20035	C10H14O	2,3,4,6-tetramethylphenol	3238-38-8	18.959	161.178	2	20638	C10H18	4-methyl-1-(1-methylethyl)cyclohexene	500-00-5	16.091	171.056	2
20036	C10H14O	2,3,5,6-tetramethylphenol	527-35-5	18.228	165.657	2	20678	C10H18O	2-butylcyclohexanone	1126-18-7	17.090	171.200	1,2
20037	C10H14O	2-butylphenol	3180-09-4	19.372	154.602	1,2	20679	C10H18O	4-isobutylcyclohexanone	42061-72-3	17.333	173.466	1,2
20089	C10H14O2	p-tert-butylcatechol	98-29-3	21.797	164.837	2	20680	C10H18O	cis-5-methyl-2-isopropylcyclohexanone, (2R)	1196-31-2	16.843	173.352	1,2
20178	C10H14S	4-tert-butylthiophenol	2396-68-1	17.970	169.056	2	20681	C10H18O	trans-2-methyl-5-isopropylcyclohexanone, (2S)	13163-73-0	17.501	171.577	1,2
20179	C10H14S	2,4,6-trimethylbenzyl mercaptan	21411-42-7	17.624	171.758	2	20682	C10H18O	trans-5-methyl-2-isopropylcyclohexanone, (2S)	14073-97-3	16.990	172.928	1,2
20195	C10H15N	N,N-dietyhlaniline	91-66-7	18.916	160.297	1,2	20688	C10H18O	2-decenal	3913-71-1	17.676	183.836	1,2
20196	C10H15N	2,6-diethylaniline	579-66-8	21.806	165.450	1,2	20689	C10H18O	3-decenal	58474-80-9	16.839	183.078	1,2
20197	C10H15N	2-sec-butylaniline	55751-54-7	18.878	156.561	1,2	20690	C10H18O	3,7-dimethyl-6-octenal	106-23-0	16.876	182.281	1,2
20198	C10H15N	2-tert-butylaniline	6310-21-0	19.243	154.106	1,2	20691	C10H18O	3-decen-2-one	10519-33-2	16.807	182.851	1,2
20199	C10H15N	4-butylaniline	104-13-2	20.164	158.608	1,2	20692	C10H18O	3-ethyl-4-methyl-3-hepten-2-one	54244-90-5	16.241	181.021	1,2
20200	C10H15N	4-sec-butylaniline	30273-11-1	19.137	158.619	1,2	20693	C10H18O	3-ethyl-4-methyl-4-hepten-2-one	53252-08-7	16.784	183.347	1,2
20201	C10H15N	4-tert-butylaniline	769-92-6	19.300	158.041	1,2	20694	C10H18O	4-ethyl-6-methyl-5-hepten-2-one	104035-66-7	16.764	183.780	1,2
20202	C10H15N	N-sec-butylaniline	6068-69-5	18.445	161.235	2	20695	C10H18O	5-ethyl-4-methyl-4-hepten-3-one	22319-28-4	16.880	181.269	1,2
20203	C10H15N	N-tert-butylaniline	937-33-7	18.049	161.235	2	20696	C10H18O	5-ethyl-4-methyl-5-hepten-3-one	74764-56-0	15.992	189.315	1,2
20204	C10H15N	N-butylaniline	1126-78-9	19.244	160.761	1,2	20697	C10H18O	6-methyl-5-nonen-4-one	7036-98-8	16.467	179.994	1,2
20205	C10H15N	4-isobutylaniline	30090-17-6	19.094	158.619	1,2	20698	C10H18O	6-methyl-6-nonen-4-one	53252-20-3	16.755	183.991	1,2
20206	C10H15N	N-isobutylaniline	588-47-6	18.819	159.721	1,2	20716	C10H18O	2-tert-butylcyclohexanone	1728-46-7	16.808	174.554	1,2
20207	C10H15N	4-methyl-N-isopropylaniline	10436-75-6	18.177	162.445	1,2	20717	C10H18O	4-tert-butylcyclohexanone	98-53-3	16.739	173.824	2
20208	C10H15N	2-methyl-5-isopropylaniline	2051-53-8	19.759	150.787	1,2	20723	C10H18O	cis-4-decenal	21662-09-9	16.933	181.047	1,2
20209	C10H15N	4-methyl-N-propylaniline	54837-90-0	18.802	162.147	1,2	20745	C10H18O	2,2,6,6-tetramethylcyclohexanone	1195-93-3	17.101	170.850	2
20210	C10H15N	2,3,4,5-tetramethylaniline	2217-45-0	19.029	167.717	2	20746	C10H18O	3,3,5,5-tetramethylcyclohexanone	14376-79-5	16.660	175.377	1,2
20211	C10H15N	2,3,4,6-tetramethylaniline	488-71-1	20.265	152.730	1,2	20760	C10H18O	2-(1-methylpropyl)cyclohexanone	14765-30-1	17.101	170.850	2
20212	C10H15N	N,N,2,6-tetramethylaniline	769-06-2	17.124	163.843	1,2	20769	C10H18O2	2-decenoic acid	3913-85-7	18.031	184.369	1,2
20220	C10H15N	2-(1-ethylpropyl)pyridine	7399-50-0	16.992	166.867	1,2	20770	C10H18O2	3-decenoic acid	15469-77-9	17.876	187.568	1,2
20221	C10H15N	4-(1-ethylpropyl)pyridine	35182-51-5	15.983	180.646	1,2	20771	C10H18O2	4-decenoic acid	26303-90-2	17.963	185.767	1,2
20230	C10H15N	3,5,N,N-tetramethylaniline	4913-13-7	18.379	163.816	1,2	20772	C10H18O2	9-decenoic acid	14436-32-9	17.949	185.786	1,2
20231	C10H15N	aniline, p-isopropyl-N-methyl-,	6950-79-4	18.602	161.235	2	20788	C10H18O2	trans-2-decenoic acid	334-49-6	18.046	184.056	1,2
20315	C10H16	camphene	79-92-5	15.655	164.565	2	20795	C10H18O2	vinyl 2-ethylhexanoate	94-04-2	15.523	194.573	1,2
20316	C10H16	D-limonene	5989-27-5	16.762	162.380	1,2	20800	C10H18O2	heptyl acrylate	2499-58-3	17.215	183.690	2
20317	C10H16	limonene	138-86-3	16.572	162.746	1,2	20801	C10H18O2	3-hexenyl isobutyrate	57859-47-9	17.215	183.690	2
20318	C10H16	L-limonene	5989-54-8	16.592	162.355	1,2	20802	C10H18O2	cis-3-hexenyl isobutyrate	41519-23-7	17.215	183.690	2
20319	C10H16	alpha-phellandrene	99-83-2	16.992	161.610	1,2	20803	C10H18O2	hexyl-2-butenoate	19089-92-0	17.215	183.690	2
20320	C10H16	beta-phellandrene	555-10-2	16.954	162.768	1,2	20805	C10H18O2	methyl nonylenate	111-79-5	17.215	183.690	2
20321	C10H16	alpha-pinene	80-56-8	16.031	158.970	1,2	20806	C10H18O2	1-octen-3-ol acetate	2442-10-6	17.215	183.690	2
20322	C10H16	alpha-pinene, (-)	7785-26-4	15.352	159.347	1,2	20820	C10H18O4	sebacic acid	111-20-6	23.830	175.397	1,2
20323	C10H16	beta-pinene	127-91-3	16.782	157.136	1,2	20856	C10H19Br	cis-1-bromo-1-decene	66291-72-3	16.891	204.254	1,2
20324	C10H16	beta-pinene, (1R)	19902-08-0	16.216	158.173	1,2	20857	C10H19Br	trans-1-bromo-1-decene	66291-73-4	16.891	204.254	1,2
20325	C10H16	alpha-terpinene	99-86-5	16.859	164.141	1,2	20858	C10H19Br	1-bromo-2-decene	14304-30-4	16.411	205.057	1,2
20326	C10H16	gamma-terpinene	99-85-4	17.250	161.227	1,2	20859	C10H19Br	2-bromo-1-decene	3017-67-2	16.496	202.962	1,2
20327	C10H16	terpinolene	586-62-9	18.047	158.784	1,2	20867	C10H19Br3	1,1,1-tribromodecane	62127-67-7	17.000	250.998	2
20331	C10H16	1-decen-3-yne	33622-26-3	16.145	173.843	1,2	20868	C10H19Cl	cis-1-chloro-1-decene	66291-47-2	16.822	198.313	1,2
20332	C10H16	1-decen-4-yne	24948-66-1	16.152	173.689	1,2	20869	C10H19Cl	trans-1-chloro-1-decene	66291-48-3	16.822	198.313	1,2
20333	C10H16	2-decen-4-yne	116668-40-7	16.159	173.550	1,2	20870	C10H19Cl	(1R)-(-)-menthyl chloride	16052-42-9	17.136	186.660	1,2
20349	C10H16	2-methyl-5-isopropyl-1,3-cyclohexadiene, (±)	13811-01-3	16.992	162.445	1,2	20876	C10H19Cl3	1,1,1-trichlorodecane	62108-56-9	16.577	231.279	1,2
20356	C10H16	(+)-camphene	5794-03-6	15.598	163.600	1,2	20877	C10H19F	cis-1-fluoro-1-decene	66291-49-4	15.483	191.134	1,2
20357	C10H16	(-)-camphene	5794-04-7	16.333	164.060	1,2	20878	C10H19F	trans-1-fluoro-1-decene	66291-50-7	15.483	191.134	1,2
20365	C10H16	(-)-a-pinene	1330-16-1	15.476	158.784	1,2	20882	C10H19F3	1,1,1-trifluorodecane	26288-16-4	15.183	206.264	2
20366	C10H16	(1S)-(-)-b-pinene	18172-67-3	16.356	157.864	1,2	20883	C10H19I	cis-1-iodo-1-decene	66291-51-8	16.836	212.084	1,2
20367	C10H16	(±)-a-pinene	2437-95-8	15.427	158.784	1,2	20884	C10H19I	trans-1-iodo-1-decene	66291-52-9	16.836	212.084	1,2
20368	C10H16	(+)-a-pinene	7785-70-8	15.410	158.970	1,2	20885	C10H19I3	1,1,1-triiododecane	---	17.594	273.066	2
20423	C10H16O	camphor	76-22-2	14.684	184.172	2	20886	C10H19N	decanenitrile	1975-78-6	18.319	187.828	1,2
20540	C10H16S	3-hexylthiophene	1693-86-3	17.483	179.811	1,2	20922	C10H20	pentylcyclopentane	3741-00-2	16.110	178.232	1,2
20593	C10H18	1-decyne	764-93-2	16.119	181.434	1,2	20923	C10H20	butylcyclohexane	1678-93-9	16.403	176.217	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
20924	C10H20	tert-butylcyclohexane	3178-22-1	15.010	173.346	1,2	21044	C10H20O2	2-ethylhexyl acetate	103-09-3	17.199	198.237	1,2
20925	C10H20	sec-butylcyclohexane	7058-01-7	15.635	173.261	1,2	21045	C10H20O2	octyl acetate	112-14-1	16.472	199.615	1,2
20926	C10H20	isobutylcyclohexane	1678-98-4	14.833	177.146	1,2	21046	C10H20O2	6-methyl-2-heptyl acetate	67952-57-2	15.356	204.198	1,2
20927	C10H20	1-methyl-1-propylcyclohexane	4258-93-9	15.025	173.900	1,2	21047	C10H20O2	6-methyl-3-heptyl acetate	32764-34-4	15.339	202.296	1,2
20928	C10H20	1-methyl-2-propylcyclohexane	4291-79-6	15.360	173.431	1,2	21048	C10H20O2	2-methylheptyl acetate, (±)	74112-36-0	15.739	201.687	1,2
20929	C10H20	1-methyl-3-propylcyclohexane	4291-80-9	14.284	178.270	1,2	21049	C10H20O2	heptyl propanoate	2216-81-1	16.407	199.476	1,2
20930	C10H20	1-methyl-4-propylcyclohexane	4291-81-0	15.175	176.748	1,2	21050	C10H20O2	hexyl butanoate	2639-63-6	16.148	200.102	1,2
20931	C10H20	1-methyl-2-isopropylcyclohexane	16580-23-7	14.991	172.899	1,2	21051	C10H20O2	1-methylpentyl butanoate, (S)	116723-96-7	16.045	197.742	1,2
20932	C10H20	1-methyl-3-isopropylcyclohexane	16580-24-8	14.485	176.902	1,2	21052	C10H20O2	isopentyl isovalerate	659-70-1	16.476	201.719	1,2
20933	C10H20	1-methyl-4-isopropylcyclohexane	99-82-1	14.836	175.996	1,2	21053	C10H20O2	1,1-dimethylpropyl 3-methylbutanoate	542-37-0	13.482	197.351	1,2
20934	C10H20	cis-1-methyl-4-isopropylcyclohexane	6069-98-3	14.967	175.236	1,2	21054	C10H20O2	isopentyl pentanoate	2050-09-1	16.217	198.157	2
20935	C10H20	trans-1-methyl-4-isopropylcyclohexane	1678-82-6	14.758	177.680	1,2	21055	C10H20O2	pentyl pentanoate	2173-56-0	16.251	200.350	1,2
20936	C10H20	1,1,3,4-tetramethylcyclohexane	24612-75-7	14.032	176.615	1,2	21056	C10H20O2	butyl hexanoate	626-82-4	16.438	200.004	1,2
20937	C10H20	trans-1,1,3,5-tetramethylcyclohexane	50876-31-8	13.680	179.301	2	21057	C10H20O2	isobutyl 4-methylpentanoate	25415-70-7	14.506	202.734	1,2
20938	C10H20	cis-1,1,3,5-tetramethylcyclohexane	50876-32-9	13.385	180.285	1,2	21058	C10H20O2	propyl heptanoate	7778-87-2	16.390	201.187	1,2
20939	C10H20	diethylcyclohexane; (mixed isomers)	1331-43-7	15.156	174.464	1,2	21059	C10H20O2	ethyl 2-ethylhexanoate	2983-37-1	16.117	200.638	1,2
20942	C10H20	cyclodecane	293-96-9	17.083	164.288	1,2	21060	C10H20O2	ethyl octanoate	106-32-1	16.450	200.207	1,2
20943	C10H20	1-decene	872-05-9	15.850	190.324	1,2	21063	C10H20O2	methyl nonanoate	1731-84-6	16.765	197.604	1,2
20944	C10H20	4-decene	19689-18-0	15.556	190.394	1,2	21066	C10H20O2	8-methylnonanoic acid	5963-14-4	13.889	200.633	2
20945	C10H20	cis-5-decene	7433-78-5	15.614	189.351	1,2	21067	C10H20O2	neodecanoic acid	26896-20-8	17.744	189.798	1,2
20946	C10H20	trans-5-decene	7433-56-9	15.568	190.471	1,2	21068	C10H20O2	tert-decanoic acid	52627-73-3	13.889	200.633	2
20947	C10H20	2-methyl-1-nonene	2980-71-4	15.588	189.246	1,2	21071	C10H20O2	n-hexyl isobutyrate	2349-07-7	16.217	198.157	2
20947.1	C10H20	cis-2-decene	20348-51-0	16.647	175.329	2	21073	C10H20O2	isobutyl hexanoate	105-79-3	13.249	198.157	2
20947.2	C10H20	trans-2-decene	20063-97-2	16.609	176.267	2	21074	C10H20O2	2-(4-isobutylphenyl)butyric acid	55837-18-8	13.742	202.292	2
20947.3	C10H20	8-methyl-1-nonene	26741-24-2	16.538	172.821	1,2	21077	C10H20O2	4-nonanecarboxylic acid	31080-39-4	13.889	200.633	2
20947.4	C10H20	1,1-diethylcyclohexane	78-01-3	16.648	171.141	1,2	21088	C10H20S	thiacycloundecane	408-32-2	17.210	187.137	1,2
20947.5	C10H20	1,2,3,4-tetramethylcyclohexane	3726-45-2	16.600	171.452	2	21090	C10H21Br	1-bromodecane	112-29-8	17.237	207.565	1,2
20948	C10H20	2-methyl-3-nonene	53966-53-3	15.130	192.047	1,2	21091	C10H21Br	2-bromodecane	39563-53-6	16.626	210.448	1,2
20949	C10H20	5-methyl-4-nonene	15918-07-7	15.876	179.440	2	21093	C10H21Cl	1-chlorodecane	1002-69-3	16.762	204.146	1,2
20950	C10H20	3,7-dimethyl-1-octene	4984-01-4	14.252	190.599	1,2	21094	C10H21Cl	decyl chloride (mixed isomers)	28519-06-4	16.594	202.229	2
20951	C10H20	2,6-dimethyl-2-octene	4057-42-5	15.342	188.596	1,2	21097	C10H21F	1-fluorodecane	334-56-5	16.120	196.657	1,2
20952	C10H20	4-propyl-3-heptene	4485-13-6	15.270	188.079	1,2	21100	C10H21I	1-iododecane	2050-77-3	18.833	214.648	1,2
20953	C10H20	2,4,6-trimethyl-3-heptene, isomer	123434-07-1	15.876	179.440	2	21117	C10H21NO2	1-nitrodecane	4609-87-4	17.761	208.927	2
20954	C10H20	2,2,5,5-tetramethylhex-3-ene	22808-06-6	12.420	179.440	2	21133	C10H22	decane	124-18-5	16.092	195.446	1,2
20955	C10H20	cis-1,2-di-tert-butylethene	692-47-7	15.876	179.440	2	21134	C10H22	2-methylnonane	871-83-0	15.437	196.798	1,2
20956	C10H20	(E)-2,2,5,5-tetramethylhex-3-ene	692-48-8	12.481	179.440	2	21135	C10H22	3-methylnonane	5911-04-6	15.532	195.178	1,2
20958	C10H20Br2	1,1-dibromodecane	59104-80-2	17.651	225.073	2	21136	C10H22	4-methylnonane	17301-94-9	15.298	195.446	1,2
20959	C10H20Br2	1,10-dibromodecane	4101-68-2	16.933	224.439	1,2	21137	C10H22	5-methylnonane	15869-85-9	15.464	195.178	1,2
20960	C10H20Br2	5,6-dibromodecane	77928-86-0	16.913	224.333	1,2	21138	C10H22	3-ethyloctane	5881-17-4	15.547	193.322	1,2
20962	C10H20Cl2	1,1-dichlorodecane	3162-62-7	16.776	218.155	1,2	21139	C10H22	4-ethyloctane	15869-86-0	15.436	193.848	1,2
20963	C10H20Cl2	1,10-dichlorodecane	2162-98-3	16.727	212.342	1,2	21140	C10H22	2,2-dimethyloctane	15869-87-1	14.872	197.344	1,2
20966	C10H20F2	1,1-difluorodecane	62127-43-9	15.721	200.299	1,2	21141	C10H22	2,3-dimethyloctane	7146-60-3	15.271	193.848	1,2
20968	C10H20I2	1,1-diiododecane	66291-57-4	17.811	238.356	2	21142	C10H22	2,4-dimethyloctane	4032-94-4	15.036	196.798	1,2
20969	C10H20I2	1,10-diiododecane	16355-92-3	17.612	238.591	2	21143	C10H22	2,5-dimethyloctane	15869-89-3	15.086	195.984	1,2
20992	C10H20O	decanal	112-31-2	17.829	190.339	1,2	21144	C10H22	2,6-dimethyloctane	2051-30-1	15.166	196.798	1,2
20993	C10H20O	2-decanone	693-54-9	17.242	190.622	1,2	21145	C10H22	2,7-dimethyloctane	1072-16-8	15.136	197.618	1,2
20994	C10H20O	3-decanone	928-80-3	16.455	190.260	1,2	21146	C10H22	3,3-dimethyloctane	4110-44-5	15.113	193.585	1,2
20995	C10H20O	4-decanone	624-16-8	16.578	190.513	1,2	21147	C10H22	3,4-dimethyloctane	15869-92-8	15.287	192.017	1,2
20996	C10H20O	2-methyl-5-nonanone	22287-02-1	16.436	191.136	1,2	21148	C10H22	3,5-dimethyloctane	15869-93-9	15.131	194.113	1,2
20997	C10H20O	2-tert-butylcyclohexanol	13491-79-7	16.976	176.351	1,2	21149	C10H22	3,6-dimethyloctane	15869-94-0	15.201	194.378	1,2
20998	C10H20O	trans-2-butylcyclohexanol	35242-05-8	16.523	180.706	1,2	21150	C10H22	4,4-dimethyloctane	15869-95-1	14.967	194.644	1,2
20999	C10H20O	citronellol, (±)	26489-01-0	17.606	183.418	1,2	21151	C10H22	4,5-dimethyloctane	15869-96-2	15.263	191.500	1,2
21004	C10H20O	9-decen-1-ol	13019-22-2	18.591	178.388	1,2	21152	C10H22	4-propylheptane	3178-29-8	15.207	194.378	1,2
21005	C10H20O	3,7-dimethyl-6-octen-3-ol	18479-51-1	17.180	181.303	1,2	21153	C10H22	4-isopropylheptane	52896-87-4	15.071	193.585	1,2
21006	C10H20O	3,7-dimethyl-7-octen-1-ol, (S)	6812-78-8	17.073	183.588	1,2	21154	C10H22	3-ethyl-2-methylheptane	14676-29-0	15.200	192.277	1,2
21007	C10H20O	2-ethylhexyl vinyl ether	103-44-6	16.706	193.549	1,2	21155	C10H22	4-ethyl-2-methylheptane	52896-88-5	15.019	194.378	1,2
21008	C10H20O	octyl vinyl ether	929-62-4	15.767	195.664	1,2	21156	C10H22	5-ethyl-2-methylheptane	13475-78-0	15.123	194.378	1,2
21011	C10H20O	1-methyl-4-isopropylcyclohexanol	21129-27-1	16.539	181.092	1,2	21157	C10H22	3-ethyl-3-methylheptane	17302-01-1	15.193	190.730	1,2
21012	C10H20O	2-methyl-5-isopropylcyclohexanol, [1R-(1alph*	5563-78-0	16.897	180.860	1,2	21158	C10H22	4-ethyl-3-methylheptane	52896-89-6	15.235	190.730	1,2
21013	C10H20O	2-methyl-1-propylcyclohexanol	24580-48-1	16.618	178.648	1,2	21159	C10H22	3-ethyl-5-methylheptane	52896-90-9	15.140	193.059	1,2
21014	C10H20O	3-methyl-1-propylcyclohexanol	24580-52-7	16.106	182.841	1,2	21160	C10H22	3-ethyl-4-methylheptane	52896-91-0	15.268	190.475	1,2
21015	C10H20O	4-tert-butylcyclohexanol; (cis+trans)	98-52-2	16.257	187.157	2	21161	C10H22	4-ethyl-4-methylheptane	17302-04-4	15.140	190.475	1,2
21016	C10H20O	(±)-b-citronellol	106-22-9	17.605	182.770	1,2	21162	C10H22	2,2,3-trimethylheptane	52896-92-1	14.979	192.798	1,2
21017	C10H20O	(R)-(+)-b-citronellol	1117-61-9	16.989	182.343	1,2	21163	C10H22	2,2,4-trimethylheptane	14720-74-2	14.650	196.526	1,2
21018	C10H20O	(-)-b-citronellol	7540-51-4	17.711	182.556	1,2	21164	C10H22	2,2,5-trimethylheptane	20291-95-6	14.721	196.526	1,2
21019	C10H20O	5-decanone	820-29-1	16.915	180.805	2	21165	C10H22	2,2,6-trimethylheptane	1190-83-6	14.699	197.618	1,2
21020	C10H20O	trans-5-decen-1-ol	56578-18-8	17.206	180.766	2	21166	C10H22	2,3,3-trimethylheptane	52896-93-2	15.070	190.986	1,2
21021	C10H20O	cis-4-decen-1-ol	57074-37-0	17.061	183.845	1,2	21167	C10H22	2,3,4-trimethylheptane	52896-95-4	15.119	190.986	1,2
21025	C10H20O	isodecanal	1321-89-7	16.301	188.502	1,2	21168	C10H22	2,3,5-trimethylheptane	20278-85-7	15.062	192.017	1,2
21031	C10H20O	trans-4-(1,1-dimethylethyl)cyclohexanol	21862-63-5	16.062	188.939	2	21169	C10H22	2,3,6-trimethylheptane	4032-93-3	14.979	194.644	1,2
21032	C10H20O	cis-4-(1,1-dimethylethyl)cyclohexanol	937-05-3	15.935	190.121	2	21170	C10H22	2,4,4-trimethylheptane	4032-92-2	14.717	194.644	1,2
21033	C10H20O	[1R-(1a,2a,5b)]-5-methyl-2-(1-methylethyl)cy*	20747-49-3	16.223	187.467	2	21171	C10H22	2,4,5-trimethylheptane	20278-84-6	14.984	193.059	1,2
21034	C10H20O	2-methyl-3-nonanone	5445-31-8	16.757	180.805	2	21172	C10H22	2,4,6-trimethylheptane	2613-61-8	14.724	197.892	1,2
21035	C10H20O	2,6-dimethyl-1-octen-8-ol	141-25-3	17.206	180.766	2	21173	C10H22	2,5,5-trimethylheptane	1189-99-7	14.869	193.322	1,2
21036	C10H20O	2-isopropyl-5-methyl-2-hexen-1-ol	40853-53-0	17.206	180.766	2	21174	C10H22	3,3,4-trimethylheptane	20278-87-9	15.137	189.208	1,2
21038	C10H20O	tetrahydroneral	5988-91-0	11.810	180.805	2	21175	C10H22	3,3,5-trimethylheptane	7154-80-5	14.874	192.537	1,2
21040	C10H20O2	decanoic acid	334-48-5	20.935	193.254	1,2	21176	C10H22	3,4,4-trimethylheptane	20278-88-0	15.115	188.957	1,2
21041	C10H20O2	2,2-dimethyloctanoic acid	29662-90-6	13.889	200.633	2	21177	C10H22	3,4,5-trimethylheptane	20278-89-1	15.268	189.208	1,2
21042	C10H20O2	3-methylnonanoic acid	35205-79-9	14.098	194.716	1,2	21178	C10H22	3-isopropyl-2-methylhexane	62016-13-1	14.999	191.243	1,2
21043	C10H20O2	nonyl formate	5451-92-3	16.465	198.135	2	21179	C10H22	3,3-diethylhexane	17302-02-2	15.309	187.959	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
21180	C10H22	3,4-diethylhexane	19398-77-7	15.241	190.475	1,2	21276	C10H22O	2,4-dimethyl-4-octanol	33933-79-8	17.329	193.265	1,2
21181	C10H22	3-ethyl-2,2-dimethylhexane	20291-91-2	14.935	190.986	1,2	21277	C10H22O	2,5-dimethyl-4-octanol	66719-53-7	17.386	194.931	1,2
21182	C10H22	4-ethyl-2,2-dimethylhexane	52896-99-8	14.652	194.911	1,2	21278	C10H22O	2,6-dimethyl-4-octanol	66719-54-8	17.336	196.055	1,2
21183	C10H22	3-ethyl-2,3-dimethylhexane	52897-00-4	15.214	187.217	1,2	21279	C10H22O	2,7-dimethyl-4-octanol	19781-11-4	17.386	194.931	1,2
21184	C10H22	4-ethyl-2,3-dimethylhexane	52897-01-5	15.163	189.208	1,2	21280	C10H22O	3,4-dimethyl-4-octanol	66719-30-0	17.437	190.858	2
21185	C10H22	3-ethyl-2,4-dimethylhexane	7220-26-0	15.130	189.460	1,2	21281	C10H22O	3,6-dimethyl-4-octanol	66719-31-1	17.609	190.017	1,2
21186	C10H22	4-ethyl-2,4-dimethylhexane	52897-03-7	15.105	189.208	1,2	21282	C10H22O	4,6-dimethyl-4-octanol	56065-43-1	17.423	191.164	1,2
21187	C10H22	3-ethyl-2,5-dimethylhexane	52897-04-8	14.905	193.059	1,2	21283	C10H22O	4,7-dimethyl-4-octanol	19781-13-6	17.392	192.560	1,2
21188	C10H22	4-ethyl-3,3-dimethylhexane	52897-05-9	15.190	187.217	1,2	21284	C10H22O	2-propyl-1-heptanol	10042-59-8	18.546	191.164	1,2
21189	C10H22	3-ethyl-3,4-dimethylhexane	52897-06-0	15.158	187.217	1,2	21285	C10H22O	3-isopropyl-1-heptanol	38514-15-7	18.454	188.883	1,2
21190	C10H22	2,2,3,3-tetramethylhexane	13475-81-5	15.013	186.971	1,2	21286	C10H22O	2,4,6-trimethyl-2-heptanol	66256-47-1	17.369	190.855	2
21191	C10H22	2,2,3,4-tetramethylhexane	52897-08-2	14.916	189.460	1,2	21287	C10H22O	2,5,6-trimethyl-2-heptanol	66256-48-2	17.348	191.396	1,2
21192	C10H22	2,2,3,5-tetramethylhexane	52897-09-3	14.660	194.113	1,2	21288	C10H22O	4,6,6-trimethyl-2-heptanol	51079-79-9	17.369	190.855	2
21193	C10H22	2,2,4,4-tetramethylhexane	51750-65-3	14.523	191.758	1,2	21289	C10H22O	2-methyl-3-ethyl-3-heptanol	66719-37-7	17.629	187.986	1,2
21194	C10H22	2,2,4,5-tetramethylhexane	16747-42-5	14.560	194.644	1,2	21290	C10H22O	4-methyl-5-ethyl-3-heptanol	66731-94-0	17.938	184.266	1,2
21195	C10H22	2,2,5,5-tetramethylhexane	1071-81-4	14.225	199.000	1,2	21291	C10H22O	5-methyl-3-ethyl-3-heptanol	---	17.520	190.245	1,2
21196	C10H22	2,3,3,4-tetramethylhexane	52897-10-6	15.191	185.993	1,2	21292	C10H22O	2,2,3-trimethyl-3-heptanol	29772-40-5	17.171	188.209	1,2
21197	C10H22	2,3,3,5-tetramethylhexane	52897-11-7	14.806	190.986	1,2	21293	C10H22O	2,2,6-trimethyl-3-heptanol	66256-43-7	17.190	193.029	1,2
21198	C10H22	2,3,4,4-tetramethylhexane	52897-12-8	15.251	182.650	1,2	21294	C10H22O	2,3,6-trimethyl-3-heptanol	58046-40-5	17.357	189.335	1,2
21199	C10H22	2,3,4,5-tetramethylhexane	52897-15-1	14.972	190.730	1,2	21295	C10H22O	3,5,5-trimethyl-3-heptanol	66256-50-6	17.545	185.779	1,2
21200	C10H22	3,3,4,4-tetramethylhexane	5171-84-6	14.888	182.650	1,2	21296	C10H22O	4-propyl-4-heptanol	2198-72-3	17.623	191.396	1,2
21201	C10H22	2,4-dimethyl-3-isopropylpentane	13475-79-1	14.949	188.706	1,2	21297	C10H22O	4-isopropyl-4-heptanol	51200-82-9	17.536	188.209	1,2
21202	C10H22	3,3-diethyl-2-methylpentane	52897-16-2	15.443	183.593	1,2	21298	C10H22O	2,2,4-trimethyl-4-heptanol	57233-31-5	16.912	190.934	1,2
21203	C10H22	3-ethyl-2,2,3-trimethylpentane	52897-17-3	15.202	182.885	1,2	21299	C10H22O	2,2,5-trimethyl-4-heptanol	66256-42-6	17.096	190.245	1,2
21204	C10H22	3-ethyl-2,2,4-trimethylpentane	52897-18-4	14.859	188.957	1,2	21300	C10H22O	2,2,6-trimethyl-4-heptanol	66256-44-8	17.068	190.861	2
21205	C10H22	3-ethyl-2,3,4-trimethylpentane	52897-19-5	15.294	184.068	1,2	21301	C10H22O	2,4,5-trimethyl-4-heptanol	66256-46-0	17.068	190.861	2
21206	C10H22	2,2,3,3,4-pentamethylpentane	16747-44-7	15.126	183.121	1,2	21302	C10H22O	2,4,6-trimethyl-4-heptanol	60836-07-9	16.924	194.214	1,2
21207	C10H22	2,2,3,4,4-pentamethylpentane	16747-45-8	14.768	186.236	1,2	21303	C10H22O	3,3,6-trimethyl-4-heptanol	---	17.157	188.883	1,2
21224	C10H22O	1-decanol	112-30-1	20.268	191.859	1,2	21304	C10H22O	4-methyl-2-propyl-1-hexanol	66256-62-0	18.118	191.859	1,2
21225	C10H22O	isodecanol	25339-17-7	19.469	189.109	1,2	21305	C10H22O	4-methyl-2-isopropyl-1-hexanol	66719-41-3	17.851	190.857	2
21226	C10H22O	2-decanol	1120-06-5	17.174	192.700	1,2	21306	C10H22O	5-methyl-2-isopropyl-1-hexanol	2051-33-4	18.167	190.934	1,2
21227	C10H22O	2-decanol, (±)	74742-10-2	16.967	192.794	1,2	21307	C10H22O	5,5-dimethyl-2-ethyl-1-hexanol	---	18.090	189.562	1,2
21228	C10H22O	3-decanol	1565-81-7	18.273	192.326	1,2	21308	C10H22O	2,3,4,4-tetramethyl-2-hexanol	66256-66-4	17.038	190.853	2
21229	C10H22O	4-decanol	2051-31-2	18.243	193.029	1,2	21309	C10H22O	3,3,5,5-tetramethyl-2-hexanol	66256-69-7	17.034	190.853	2
21230	C10H22O	5-decanol	5205-34-5	17.998	193.029	1,2	21310	C10H22O	2-methyl-3-isopropyl-3-hexanol	51200-81-8	17.522	187.097	1,2
21231	C10H22O	2-methyl-1-nonanol	40589-14-8	18.671	190.849	2	21311	C10H22O	2,2-dimethyl-4-ethyl-3-hexanol	66719-47-9	17.216	190.704	1,2
21232	C10H22O	4-methyl-1-nonanol	1489-47-0	18.437	191.164	1,2	21312	C10H22O	2,4-dimethyl-4-ethyl-3-hexanol	66719-48-0	17.490	184.696	1,2
21233	C10H22O	5-methyl-1-nonanol	2768-16-3	18.459	190.704	1,2	21313	C10H22O	5,5-dimethyl-3-ethyl-3-hexanol	5340-62-5	17.143	189.335	1,2
21234	C10H22O	7-methyl-1-nonanol	33234-93-4	18.437	191.164	1,2	21314	C10H22O	2,2,3,4-tetramethyl-3-hexanol	66256-63-1	17.344	185.344	1,2
21235	C10H22O	3-methyl-1-nonanol	22663-64-5	18.459	190.704	1,2	21315	C10H22O	2,2,3,5-tetramethyl-3-hexanol	66256-64-2	18.391	189.562	1,2
21236	C10H22O	2-methyl-2-nonanol	10297-57-1	18.184	190.849	2	21316	C10H22O	2,2,4,4-tetramethyl-3-hexanol	66256-65-3	17.259	185.998	1,2
21237	C10H22O	3-methyl-2-nonanol	60671-32-1	18.341	190.474	1,2	21317	C10H22O	2,2,5,5-tetramethyl-3-hexanol	55073-86-4	15.911	196.651	2
21238	C10H22O	5-methyl-2-nonanol	66731-95-1	18.323	190.850	2	21318	C10H22O	2,3,4,4-tetramethyl-3-hexanol	66256-67-5	17.749	181.936	1,2
21239	C10H22O	6-methyl-2-nonanol	66256-60-8	18.319	190.934	1,2	21319	C10H22O	2,3,5,5-tetramethyl-3-hexanol	5396-09-8	17.400	189.789	1,2
21240	C10H22O	7-methyl-2-nonanol	66256-61-9	18.323	190.850	2	21320	C10H22O	2,4,4,5-tetramethyl-3-hexanol	66256-68-6	17.486	190.849	2
21241	C10H22O	8-methyl-2-nonanol	14779-92-1	18.230	192.794	1,2	21321	C10H22O	3,4,4,5-tetramethyl-3-hexanol	66256-39-1	17.776	181.936	1,2
21242	C10H22O	2-methyl-3-nonanol	26533-33-5	18.123	191.976	1,2	21322	C10H22O	3,4,5,5-tetramethyl-3-hexanol	66256-40-4	17.465	184.480	1,2
21243	C10H22O	3-methyl-3-nonanol	21078-72-8	18.025	191.396	1,2	21323	C10H22O	4-methyl-2-isobutyl-1-pentanol	22417-45-4	17.939	190.704	1,2
21244	C10H22O	5-methyl-3-nonanol	66719-43-5	18.188	190.853	2	21324	C10H22O	4,4-dimethyl-3-isopropyl-1-pentanol	66719-51-5	17.096	190.860	2
21245	C10H22O	2-methyl-4-nonanol	26533-31-3	18.085	193.029	1,2	21325	C10H22O	3,4-dimethyl-3-isopropyl-2-pentanol	66719-50-4	16.978	190.861	2
21246	C10H22O	4-methyl-4-nonanol	23418-38-4	18.014	191.627	1,2	21326	C10H22O	2,4-dimethyl-3-propyl-3-pentanol	---	17.339	186.217	1,2
21247	C10H22O	5-methyl-4-nonanol	66719-44-6	18.173	191.164	1,2	21327	C10H22O	2,4-dimethyl-3-isopropyl-3-pentanol	51200-83-0	17.601	184.244	1,2
21248	C10H22O	7-methyl-4-nonanol	26981-98-6	18.188	190.853	2	21328	C10H22O	2,2,4-trimethyl-3-ethyl-3-pentanol	66256-41-5	17.357	184.480	1,2
21249	C10H22O	2-methyl-5-nonanol	29843-62-7	18.052	193.738	1,2	21329	C10H22O	2,2,3,4,4-pentamethyl-3-pentanol	5857-69-2	16.573	193.987	2
21250	C10H22O	3-methyl-5-nonanol	66779-42-4	18.096	192.794	1,2	21330	C10H22O	2,3-dimethyl-2-tert-butyl-1-butanol	81931-81-9	16.526	196.480	2
21251	C10H22O	5-methyl-5-nonanol	33933-78-7	18.003	191.859	1,2	21331	C10H22O	3,7-dimethyl-3-octanol, (±)	57706-88-4	16.265	193.336	1,2
21252	C10H22O	2-ethyl-1-octanol	20592-10-3	18.316	190.855	2	21332	C10H22O	3,7-dimethyl-1-octanol, (±)	59204-02-3	17.011	193.283	1,2
21253	C10H22O	3-ethyl-1-octanol	66719-36-6	18.223	192.794	1,2	21333	C10H22O	3-ethyl-6-methyl-3-heptanol	66719-40-2	16.596	190.298	1,2
21254	C10H22O	2,2-dimethyl-1-octanol	2370-14-1	17.991	191.627	1,2	21334	C10H22O	8-methyl-1-nonanol	55505-26-5	16.572	190.854	2
21255	C10H22O	2,6-dimethyl-1-octanol	62417-08-7	18.156	192.092	1,2	21335	C10H22O	di-pentyl ether	693-65-2	15.965	202.928	1,2
21256	C10H22O	3,7-dimethyl-1-octanol	106-21-8	18.302	190.245	1,2	21336	C10H22O	diisopentyl ether	544-01-4	15.041	204.481	1,2
21257	C10H22O	4,5-dimethyl-1-octanol	66719-32-2	18.269	190.851	2	21337	C10H22O	ethyl octyl ether	929-61-3	15.629	202.665	1,2
21258	C10H22O	4,6-dimethyl-1-octanol	66719-33-3	18.269	190.851	2	21338	C10H22O	(S)-(+)-2-decanol	33758-16-6	17.029	191.396	1,2
21259	C10H22O	4,7-dimethyl-1-octanol	66719-34-4	18.269	190.851	2	21339	C10H22O	(R)-3,7-dimethyl-1-octanol	1117-60-8	17.121	190.854	2
21260	C10H22O	7,7-dimethyl-1-octanol	66719-35-5	18.131	190.850	2	21340	C10H22O	s-3,7-dimethyl-1-octanol	68680-98-8	17.171	190.854	2
21261	C10H22O	2,4-dimethyl-2-octanol	18675-20-2	17.923	192.560	1,2	21341	C10H22O	decyl alcohol (mixed isomers)	85566-12-7	16.572	190.854	2
21262	C10H22O	2,6-dimethyl-2-octanol	18479-57-7	17.944	192.092	1,2	21347	C10H22O2	1,2-decanediol	1119-86-4	21.082	205.644	2
21263	C10H22O	2,7-dimethyl-2-octanol	42007-73-8	18.003	190.848	2	21348	C10H22O2	1,4-decanediol	37810-94-9	22.350	201.970	2
21264	C10H22O	3,7-dimethyl-2-octanol	15340-96-2	18.093	191.859	1,2	21349	C10H22O2	1,10-decanediol	112-47-0	21.228	209.476	2
21265	C10H22O	3-ethyl-3-octanol	2051-32-3	17.856	189.335	1,2	21350	C10H22O2	2,9-decanediol	14021-92-2	16.347	202.820	2
21266	C10H22O	6-ethyl-3-octanol	19781-27-2	17.915	190.858	2	21351	C10H22O2	3,7-dimethyl-1,7-octanediol	107-74-4	18.015	190.328	1,2
21267	C10H22O	2,2-dimethyl-3-octanol	19841-72-6	17.519	190.857	2	21352	C10H22O2	3,4-diethyl-3,4-hexanediol	6931-71-1	17.209	183.799	1,2
21268	C10H22O	2,3-dimethyl-3-octanol	19781-10-3	17.343	191.883	1,2	21355	C10H22O2	ethylene glycol dibutyl ether	112-48-1	15.567	209.501	1,2
21269	C10H22O	2,7-dimethyl-3-octanol	66719-55-9	17.461	195.171	1,2	21356	C10H22O2	ethylene glycol diisobutyl ether	54922-86-0	14.376	213.411	1,2
21270	C10H22O	3,5-dimethyl-3-octanol	56065-42-0	17.573	189.109	1,2	21357	C10H22O2	(S)-1,2-decanediol	84276-14-2	15.918	207.294	2
21271	C10H22O	3,6-dimethyl-3-octanol	151-19-9	17.465	190.934	1,2	21358	C10H22O2	(R)-1,2-decanediol	87827-60-9	15.902	207.466	2
21272	C10H22O	3,7-dimethyl-3-octanol	78-69-3	17.543	191.627	1,2	21359	C10H22O2	2-(2-ethylhexyloxy)ethanol	1559-35-9	16.988	197.600	1,2
21273	C10H22O	3-ethyl-4-octanol	63126-48-7	17.750	190.861	2	21360	C10H22O2	2-(octyloxy)ethanol	10020-43-6	17.020	198.049	1,2
21274	C10H22O	4-ethyl-4-octanol	38395-42-5	17.665	189.789	1,2	21362	C10H22O2	1,3-decanediol	6071-27-8	21.417	205.193	2
21275	C10H22O	2,2-dimethyl-4-octanol	66719-52-6	17.284	193.738	1,2	21380	C10H22O5	tetraethylene glycol dimethyl ether	143-24-8	19.121	220.956	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
21385	C10H22S	decyl mercaptan	143-10-2	17.399	207.314	1,2	22324	C11H16	1-ethyl-2-propylbenzene	16021-20-8	17.369	170.302	1,2
21386	C10H22S	2-decanethiol	13402-60-3	16.470	208.853	1,2	22325	C11H16	1-ethyl-3-propylbenzene	20024-91-3	17.181	173.025	1,2
21387	C10H22S	dipentyl sulfide	872-10-6	17.302	207.314	1,2	22326	C11H16	1-ethyl-4-propylbenzene	20024-90-2	17.270	173.288	1,2
21388	C10H22S	methyl nonyl sulfide	59973-07-8	17.302	207.314	1,2	22327	C11H16	1-ethyl-2-isopropylbenzene	18970-44-0	17.043	167.701	1,2
21389	C10H22S	ethyl octyl sulfide	3698-94-0	17.302	207.314	1,2	22328	C11H16	1-ethyl-3-isopropylbenzene	4920-99-4	16.813	173.390	1,2
21390	C10H22S	propyl heptyl sulfide	24768-46-5	17.302	207.314	1,2	22329	C11H16	1-ethyl-4-isopropylbenzene	4218-48-8	16.927	173.471	1,2
21391	C10H22S	butyl hexyl sulfide	16967-04-7	17.302	207.314	1,2	22330	C11H16	1,2-dimethyl-3-propylbenzene	17059-44-8	17.680	167.986	1,2
21392	C10H22S	bis(2-methylbutyl) sulfide	96034-00-3	11.762	209.689	1,2	22331	C11H16	1,2-dimethyl-4-propylbenzene	3982-66-9	17.484	170.871	1,2
21393	C10H22S	diisopentyl sulfide	544-02-5	15.053	210.316	1,2	22332	C11H16	1,3-dimethyl-2-propylbenzene	17059-45-9	17.592	168.139	1,2
21394	C10H22S2	dipentyl disulfide	112-51-6	17.273	224.855	1,2	22333	C11H16	1,3-dimethyl-4-propylbenzene	61827-85-8	17.434	170.714	1,2
21395	C10H22S2	diisopentyl disulfide	2051-04-9	16.038	225.411	1,2	22334	C11H16	1,3-dimethyl-5-propylbenzene	3982-64-7	17.206	173.025	1,2
21400	C10H23N	decylamine	2016-57-1	17.031	198.862	1,2	22335	C11H16	1,4-dimethyl-2-propylbenzene	3042-50-0	17.369	170.832	1,2
21401	C10H23N	methylnonylamine	39093-27-1	16.713	201.925	1,2	22336	C11H16	1,2-dimethyl-3-isopropylbenzene	22539-65-7	17.364	167.701	1,2
21402	C10H23N	dimethyloctylamine	7378-99-6	15.346	206.349	1,2	22337	C11H16	1,2-dimethyl-4-isopropylbenzene	4132-77-8	17.166	171.187	1,2
21403	C10H23N	diethylhexylamine	44979-90-0	15.660	205.352	1,2	22338	C11H16	1,3-dimethyl-2-isopropylbenzene	14411-75-7	17.291	167.323	1,2
21404	C10H23N	ethyloctylamine	4088-36-2	16.507	203.125	1,2	22339	C11H16	1,3-dimethyl-4-isopropylbenzene	4706-89-2	17.127	170.596	1,2
21405	C10H23N	dipentylamine	2050-92-2	16.546	203.203	1,2	22340	C11H16	1,3-dimethyl-5-isopropylbenzene	4706-90-5	16.900	172.783	1,2
21406	C10H23N	diisopentylamine	544-00-3	15.378	205.779	1,2	22341	C11H16	1,4-dimethyl-2-isopropylbenzene	4132-72-3	17.061	170.420	1,2
21407	C10H23N	N,N-diisopropylisobutylamine	44976-81-0	15.056	205.084	1,2	22342	C11H16	1-methyl-2,3-diethylbenzene	13632-93-4	17.620	167.115	1,2
21408	C10H23NO	N,N-diisobutylethanolamine	4535-66-4	15.444	206.801	1,2	22343	C11H16	1-methyl-2,4-diethylbenzene	1758-85-6	17.418	170.224	1,2
21409	C10H23NO	2-dibutylaminoethanol	102-81-8	15.553	203.913	2	22344	C11H16	1-methyl-2,5-diethylbenzene	13632-94-5	17.481	170.029	1,2
21601	C11H10	1-methylnaphthalene	90-12-0	20.172	139.823	1,2	22345	C11H16	1-methyl-2,6-diethyl benzene	13632-95-6	17.674	167.172	1,2
21602	C11H10	2-methylnaphthalene	91-57-6	19.906	142.845	1,2	22346	C11H16	1-methyl-3,4-diethylbenzene	13732-80-4	17.396	169.951	1,2
21603	C11H10	methylnaphthalene	1321-94-4	19.719	141.888	2	22347	C11H16	1-methyl-3,5-diethylbenzene	2050-24-0	17.189	172.562	1,2
21702	C11H11N	3-ethylquinoline	1873-54-7	20.340	150.991	1,2	22348	C11H16	1,2,3-trimethyl-4-ethylbenzene	61827-86-9	18.076	165.087	1,2
21703	C11H11N	6-ethylquinoline	19655-60-8	20.023	152.866	1,2	22349	C11H16	1,2,3-trimethyl-5-ethylbenzene	31366-00-4	17.802	168.005	1,2
21704	C11H11N	8-ethylquinoline	19655-56-2	19.871	152.509	2	22350	C11H16	1,2,4-trimethyl-3-ethylbenzene	61827-87-0	17.909	166.384	1,2
21705	C11H11N	2,3-dimethylquinoline	1721-89-7	20.146	147.964	1,2	22351	C11H16	1,2,4-trimethyl-5-ethylbenzene	17851-27-3	17.697	168.655	1,2
21706	C11H11N	2,4-dimethylquinoline	1198-37-4	20.482	150.301	1,2	22352	C11H16	1,2,4-trimethyl-6-ethylbenzene	---	17.765	167.361	1,2
21707	C11H11N	2,6-dimethylquinoline	877-43-0	19.864	154.044	2	22353	C11H16	1,3,5-trimethyl-2-ethylbenzene	3982-67-0	17.681	168.655	1,2
21708	C11H11N	2,7-dimethylquinoline	93-37-8	19.809	154.483	2	22354	C11H16	pentamethylbenzene	700-12-9	17.980	166.429	1,2
21709	C11H11N	2,8-dimethylquinoline	1463-17-8	19.290	156.226	1,2	22355	C11H16	1-ethyl-2,3,5-trimethylbenzene	18262-85-6	17.743	167.359	1,2
21710	C11H11N	3,4-dimethylquinoline	2436-92-2	19.411	156.196	2	22356	C11H16	sec-pentylbenzene	29316-05-0	17.116	171.068	2
21711	C11H11N	3,6-dimethylquinoline	20668-26-2	19.991	153.949	2	22399	C11H16O	p-tert-amylphenol	80-46-6	18.663	180.072	2
21712	C11H11N	3,7-dimethylquinoline	20668-28-4	19.621	156.591	2	22400	C11H16O	2-butyl-4-methylphenol	6891-45-8	17.010	170.299	1,2
21713	C11H11N	3,8-dimethylquinoline	20668-29-5	20.295	150.406	1,2	22401	C11H16O	2-tert-butyl-4-methylphenol	2409-55-4	17.269	174.395	1,2
21714	C11H11N	4,5-dimethylquinoline	59129-74-7	19.473	156.597	2	22402	C11H16O	2-tert-butyl-5-methylphenol	88-60-8	15.621	173.540	1,2
21715	C11H11N	4,6-dimethylquinoline	826-77-7	20.680	149.180	1,2	22403	C11H16O	2-tert-butyl-6-methylphenol	2219-82-1	17.068	171.152	1,2
21716	C11H11N	4,8-dimethylquinoline	13362-80-6	20.065	153.914	2	22404	C11H16O	4-tert-butyl-2-methylphenol	98-27-1	17.658	171.141	1,2
21717	C11H11N	5,6-dimethylquinoline	20668-30-8	20.189	153.103	2	22405	C11H16O	4-isopentylphenol	1805-61-4	18.381	172.525	1,2
21718	C11H11N	5,7-dimethylquinoline	20150-89-4	20.652	150.308	2	22406	C11H16O	5-methyl-2-sec-butylphenol	29472-95-5	17.826	178.520	1,2
21719	C11H11N	6,7-dimethylquinoline	20668-33-1	20.074	154.018	2	22407	C11H16O	pentamethylphenol	2819-86-5	17.147	185.544	2
21720	C11H11N	2,5-dimethylquinoline	26190-82-9	20.141	154.476	2	22408	C11H16O	4-pentylphenol	14938-35-3	18.815	171.714	1,2
21721	C11H11N	5,8-dimethylquinoline	2623-50-9	21.140	147.370	1,2	22439	C11H16O	2-(1-methylbutyl)phenol	87-26-3	17.763	174.036	2
21722	C11H11N	6,8-dimethylquinoline	2436-93-3	20.794	152.365	1,2	22440	C11H16O	o-amylphenol	136-81-2	15.570	174.036	2
21723	C11H11N	2-ethylquinoline	1613-34-9	18.676	153.292	1,2	22441	C11H16O	2-sec-amylphenol	26401-74-1	11.266	174.036	2
22025	C11H14	1-methyl-[1,2,3,4-tetrahydronaphthalene]	1559-81-5	18.551	153.152	1,2	22442	C11H16O	4-sec-amylphenol	25735-67-5	11.355	174.036	2
22026	C11H14	2-methyl-[1,2,3,4-tetrahydronaphthalene]	3877-19-8	18.387	155.649	1,2	22492	C11H17N	N,N-diethyl-2-methylaniline	606-46-2	16.953	176.543	1,2
22027	C11H14	1,2,3,4-tetrahydro-5-methylnaphthalene	2809-64-5	19.124	151.043	1,2	22493	C11H17N	N,N-diethyl-4-methylaniline	613-48-9	17.246	181.156	1,2
22028	C11H14	1,2,3,4-tetrahydro-6-methylnaphthalene	1680-51-9	19.390	153.932	1,2	22494	C11H17N	4-isopentylaniline	104177-72-2	18.368	180.574	1,2
22035	C11H14	(1-ethylallyl)benzene	19947-22-9	16.484	173.161	1,2	22495	C11H17N	N-isopentylaniline	2051-84-5	18.202	181.822	1,2
22036	C11H14	(1-ethyl-1-propenyl)benzene	4701-36-4	17.249	161.801	1,2	22496	C11H17N	2,3,4,5,6-pentamethylaniline	2243-30-3	16.965	201.201	2
22037	C11H14	4-isopropylstyrene	2055-40-5	17.417	165.940	1,2	22497	C11H17N	p-tert-pentylaniline	2049-92-5	18.451	181.797	2
22038	C11H14	(1-methyl-1-butenyl)benzene	53172-84-2	17.352	163.254	1,2	22501	C11H17N	N,N-diethyl-m-toluidine	91-67-8	17.372	180.466	1,2
22039	C11H14	1-pentenylbenzene	826-18-6	17.708	166.914	1,2	22502	C11H17N	N-ethyl-N-isopropylaniline	54813-77-3	17.140	179.506	1,2
22040	C11H14	3-pentenylbenzene	1745-16-0	17.183	165.794	1,2	22503	C11H17N	N,N,2,4,6-pentamethylaniline	13021-15-3	16.608	183.208	1,2
22041	C11H14	4-pentenylbenzene	1075-74-7	17.215	165.175	1,2	22504	C11H17N	4-pentylaniline	33228-44-3	18.337	180.852	1,2
22042	C11H14	2-vinyl-1,3,5-trimethylbenzene	769-25-5	17.669	162.121	1,2	22505	C11H17N	N-pentylaniline	2655-27-8	18.347	181.797	2
22054	C11H14Cl2	2,4-bis(chloromethyl)-1,3,5-trimethylbenzene	1585-17-7	17.057	206.707	2	22554	C11H18	1-undecen-3-yne	74744-28-8	16.567	189.555	1,2
22113	C11H14O2	butyl benzoate	136-60-7	18.291	178.053	1,2	22586	C11H18O	2-heptylfuran	3777-71-7	16.599	178.385	2
22304	C11H16	pentylbenzene	538-68-1	17.026	173.390	1,2	22634	C11H18S	3-heptylthiophene	65016-61-7	17.048	199.050	1,2
22305	C11H16	2-phenylpentane	2719-52-0	16.764	173.471	1,2	22665	C11H20	1-methyl-cis-decahydronaphthalene	---	17.867	170.641	1,2
22306	C11H16	3-phenylpentane	1196-58-3	16.745	174.409	1,2	22666	C11H20	1-methyl-trans-decahydronaphthalene	---	17.678	170.641	1,2
22307	C11H16	1-phenyl-2-methylbutane	3968-85-2	16.948	173.390	1,2	22667	C11H20	2-methyl-cis-decahydronaphthalene	---	17.221	170.641	1,2
22308	C11H16	1-phenyl-3-methylbutane	2049-94-7	16.966	174.000	1,2	22668	C11H20	2-methyl-trans-decahydronaphthalene	4683-94-7	17.025	170.641	1,2
22309	C11H16	2-phenyl-2-methylbutane	2049-95-8	16.744	170.224	1,2	22669	C11H20	4a-methyl-cis-decahydronaphthalene	2547-26-4	17.197	170.641	1,2
22310	C11H16	2-phenyl-3-methylbutane	4481-30-5	16.708	171.187	1,2	22670	C11H20	4a-methyl-trans-decahydronaphthalene	2547-27-5	16.886	171.951	1,2
22311	C11H16	1-phenyl-2,2-dimethylpropane	1007-26-7	16.390	174.205	1,2	22671	C11H20	1-hexylcyclopentene	4291-99-0	16.480	187.421	1,2
22312	C11H16	1-methyl-2-butylbenzene	1595-11-5	17.462	170.990	1,2	22672	C11H20	1-undecyne	2243-98-3	16.125	198.023	1,2
22313	C11H16	1-methyl-3-butylbenzene	1595-04-6	17.265	173.390	1,2	22673	C11H20	2-undecyne	60212-29-5	16.305	195.411	1,2
22314	C11H16	1-methyl-4-butylbenzene	1595-05-7	17.356	172.582	1,2	22674	C11H20	3-undecyne	60212-30-8	16.377	185.105	2
22315	C11H16	1-methyl-2-sec-butylbenzene	1595-06-8	17.054	170.596	1,2	22675	C11H20	4-undecyne	60212-31-9	15.959	197.315	1,2
22316	C11H16	1-methyl-3-sec-butylbenzene	1772-10-7	16.855	173.593	1,2	22676	C11H20	5-undecyne	2294-72-6	15.942	197.290	1,2
22317	C11H16	1-methyl-4-sec-butylbenzene	1595-16-0	17.010	171.981	1,2	22677	C11H20	3,3-dimethyl-4-nonyne	29022-31-9	16.302	199.494	1,2
22318	C11H16	1-methyl-2-isobutylbenzene	36301-29-8	16.975	172.181	1,2	22701	C11H20O2	2-ethylhexyl acrylate	103-11-7	16.721	209.408	1,2
22319	C11H16	1-methyl-3-isobutylbenzene	5160-99-6	16.812	174.471	1,2	22704	C11H20O2	cis-9-undecenoic acid	116836-30-7	17.242	202.093	1,2
22320	C11H16	1-methyl-4-isobutylbenzene	5161-04-6	16.844	174.862	1,2	22705	C11H20O2	trans-9-undecenoic acid	37973-84-5	17.278	202.104	1,2
22321	C11H16	1-methyl-2-tert-butyl benzene	1074-92-6	17.086	167.361	1,2	22706	C11H20O2	10-undecenoic acid	112-38-9	17.292	203.269	1,2
22322	C11H16	1-methyl-3-tert-butylbenzene	1075-38-3	16.571	172.021	1,2	22707	C11H20O2	vinyl nonanoate	6280-03-1	16.833	211.264	1,2
22323	C11H16	1-methyl-4-tert-butylbenzene	98-51-1	16.616	172.924	1,2	22708	C11H20O2	allyl octanoate	4230-97-1	16.117	215.531	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
22713	C11H20O2	N-octyl acrylate	2499-59-4	17.254	201.089	2	22897	C11H24	5-ethylnonane	17302-12-4	15.268	209.955	1,2
22714	C11H20O2	citronellyl formate	105-85-1	17.254	201.089	2	22898	C11H24	2,2-dimethylnonane	17302-14-6	14.921	213.686	1,2
22715	C11H20O2	cis-3-hexenyl 2-methylbutyrate	53398-85-9	17.254	201.089	2	22899	C11H24	2,3-dimethylnonane	2884-06-2	15.303	210.153	1,2
22716	C11H20O2	cis-3-hexenyl valerate	35852-46-1	17.254	201.089	2	22900	C11H24	2,4-dimethylnonane	17302-24-8	15.016	212.727	1,2
22718	C11H20O2	isooctyl acrylate	29590-42-9	17.254	201.089	2	22901	C11H24	2,5-dimethylnonane	17302-27-1	15.057	212.236	1,2
22749	C11H21Br	cis-1-bromo-1-undecene	66142-59-4	16.786	221.876	1,2	22902	C11H24	2,6-dimethylnonane	17302-28-2	15.061	212.149	1,2
22750	C11H21Br	trans-1-bromo-1-undecene	66142-60-7	16.786	221.876	1,2	22903	C11H24	2,7-dimethylnonane	17302-29-3	15.090	212.005	1,2
22751	C11H21Br	11-bromo-1-undecene	7766-50-9	16.397	219.371	1,2	22904	C11H24	2,8-dimethylnonane	17302-30-6	15.085	214.213	1,2
22755	C11H21Br3	1,1,1-tribromoundecane	62127-68-8	16.696	270.617	2	22905	C11H24	3,3-dimethylnonane	17302-15-7	15.092	210.209	1,2
22756	C11H21Cl	cis-1-chloro-1-undecene	66172-73-4	16.782	214.966	1,2	22906	C11H24	3,4-dimethylnonane	17302-22-6	15.317	209.112	1,2
22757	C11H21Cl	trans-1-chloro-1-undecene	66142-61-8	16.782	214.966	1,2	22907	C11H24	3,5-dimethylnonane	17302-25-9	15.144	210.492	1,2
22762	C11H21Cl3	1,1,1-trichloroundecane	3922-25-6	16.547	245.371	2	22908	C11H24	3,6-dimethylnonane	17302-31-7	15.196	210.407	1,2
22764	C11H21F	cis-1-fluoro-1-undecene	66172-74-5	15.573	207.574	1,2	22909	C11H24	3,7-dimethylnonane	17302-32-8	15.251	210.237	1,2
22765	C11H21F	trans-1-fluoro-1-undecene	66142-62-9	15.573	207.574	1,2	22910	C11H24	4,4-dimethylnonane	17302-18-0	14.990	210.351	1,2
22767	C11H21F3	1,1,1-trifluoroundecane	62126-97-0	14.993	225.265	2	22911	C11H24	4,5-dimethylnonane	17302-23-7	15.243	209.112	1,2
22768	C11H21I	cis-1-iodo-1-undecene	66142-63-0	16.745	228.728	1,2	22912	C11H24	4,6-dimethylnonane	17302-26-0	15.118	210.549	1,2
22769	C11H21I	trans-1-iodo-1-undecene	66142-64-1	16.745	228.728	1,2	22913	C11H24	5,5-dimethylnonane	6414-96-6	14.963	210.436	1,2
22770	C11H21I3	1,1,1-triiodoundecane	---	17.477	291.687	2	22914	C11H24	4-propyloctane	17302-13-5	15.232	210.947	1,2
22771	C11H21N	undecanenitrile	2244-07-7	18.185	204.467	1,2	22915	C11H24	4-isopropyloctane	62016-15-3	15.153	208.889	1,2
22791	C11H22	hexylcyclopentane	4457-00-5	16.092	194.572	1,2	22916	C11H24	2-methyl-3-ethyloctane	62016-16-4	15.261	208.638	1,2
22792	C11H22	pentylcyclohexane	4292-92-6	16.053	192.870	1,2	22917	C11H24	2-methyl-4-ethyloctane	62016-17-5	15.038	210.719	1,2
22793	C11H22	isopentylcyclohexane	54105-76-9	15.574	193.124	1,2	22918	C11H24	2-methyl-5-ethyloctane	62016-18-6	15.090	210.634	1,2
22794	C11H22	cycloundecane	294-41-7	16.782	179.622	1,2	22919	C11H24	2-methyl-6-ethyloctane	62016-19-7	15.196	210.407	1,2
22795	C11H22	1-undecene	821-95-4	16.099	206.554	1,2	22920	C11H24	3-methyl-3-ethyloctane	17302-16-8	15.281	207.502	1,2
22796	C11H22	cis-2-undecene	821-96-5	15.778	204.635	1,2	22921	C11H24	3-methyl-4-ethyloctane	62016-20-0	15.322	206.980	1,2
22797	C11H22	trans-2-undecene	693-61-8	15.593	205.934	1,2	22922	C11H24	3-methyl-5-ethyloctane	62016-21-1	15.069	209.842	1,2
22798	C11H22	3-undecene	60669-40-1	15.618	206.261	1,2	22923	C11H24	3-methyl-6-ethyloctane	62016-22-2	15.261	208.638	1,2
22799	C11H22	cis-4-undecene	821-98-7	15.610	205.580	1,2	22924	C11H24	4-methyl-3-ethyloctane	62016-23-3	15.349	206.898	1,2
22800	C11H22	trans-4-undecene	693-62-9	15.591	206.480	1,2	22925	C11H24	4-methyl-4-ethyloctane	17302-19-1	15.166	206.843	1,2
22801	C11H22	cis-5-undecene	764-96-5	15.595	205.689	1,2	22926	C11H24	4-methyl-5-ethyloctane	62016-24-4	15.269	207.063	1,2
22802	C11H22	trans-5-undecene	764-97-6	15.543	206.782	1,2	22927	C11H24	4-methyl-6-ethyloctane	62016-25-5	15.205	208.805	1,2
22803	C11H22	2-methyl-1-decene	13151-27-4	15.642	205.563	1,2	22928	C11H24	2,2,3-trimethyloctane	62016-26-6	14.963	208.945	1,2
22805	C11H22Br2	1,1-dibromoundecane	62168-28-9	17.503	240.155	2	22929	C11H24	2,2,4-trimethyloctane	18932-14-4	14.644	212.843	1,2
22806	C11H22Br2	1,11-dibromoundecane	16696-65-4	14.699	267.230	1,2	22930	C11H24	2,2,5-trimethyloctane	62016-27-7	14.632	212.843	1,2
22807	C11H22Cl2	1,1-dichloroundecane	822-01-5	16.722	234.829	1,2	22931	C11H24	2,2,6-trimethyloctane	62016-28-8	14.710	212.698	1,2
22809	C11H22F2	1,1-difluoroundecane	62127-44-0	15.602	218.514	1,2	22932	C11H24	2,2,7-trimethyloctane	62016-29-9	14.552	214.449	1,2
22810	C11H22I2	1,1-diiodoundecane	66142-53-8	17.665	256.553	2	22933	C11H24	2,3,3-trimethyloctane	62016-30-2	15.101	207.117	1,2
22822	C11H22O	undecanal	112-44-7	17.217	206.920	1,2	22934	C11H24	2,3,4-trimethyloctane	62016-31-3	15.152	207.420	1,2
22823	C11H22O	2-undecanone	112-12-9	16.853	207.164	1,2	22935	C11H24	2,3,5-trimethyloctane	62016-32-4	15.009	209.336	1,2
22824	C11H22O	3-undecanone	2216-87-7	16.471	206.763	1,2	22936	C11H24	2,3,6-trimethyloctane	62016-33-5	15.089	209.168	1,2
22825	C11H22O	4-undecanone	14476-37-0	16.791	205.820	1,2	22937	C11H24	2,3,7-trimethyloctane	62016-34-6	15.002	210.918	1,2
22826	C11H22O	5-undecanone	33083-83-9	16.470	206.791	1,2	22938	C11H24	2,4,4-trimethyloctane	62016-35-7	14.672	211.661	1,2
22827	C11H22O	6-undecanone	927-49-1	16.544	205.870	1,2	22939	C11H24	2,4,5-trimethyloctane	62016-36-8	14.983	209.393	1,2
22828	C11H22O	10-undecen-1-ol	112-43-6	17.873	202.216	1,2	22940	C11H24	2,4,6-trimethyloctane	62016-37-9	14.868	211.232	1,2
22829	C11H22O	2-undecen-4-ol	22381-86-8	17.179	202.541	1,2	22941	C11H24	2,4,7-trimethyloctane	62016-38-0	14.692	214.184	1,2
22830	C11H22O	9-undecen-1-ol	112-46-9	17.817	201.933	1,2	22942	C11H24	2,5,5-trimethyloctane	62016-39-1	14.717	211.089	1,2
22831	C11H22O	4-tert-amylcyclohexanol	5349-51-9	17.567	188.670	1,2	22943	C11H24	2,5,6-trimethyloctane	62016-14-2	15.037	209.252	1,2
22834	C11H22O	2-methyl-1-decanal	19009-56-4	16.966	203.213	2	22944	C11H24	2,6,6-trimethyloctane	54166-32-4	14.822	210.861	1,2
22835	C11H22O2	undecanoic acid	112-37-8	19.240	210.549	1,2	22945	C11H24	3,3,4-trimethyloctane	62016-40-4	15.165	205.376	1,2
22836	C11H22O2	decyl formate	5451-52-5	16.629	215.441	2	22946	C11H24	3,3,5-trimethyloctane	62016-41-5	14.830	209.252	1,2
22837	C11H22O2	nonyl acetate	143-13-5	16.802	216.320	1,2	22947	C11H24	3,3,6-trimethyloctane	62016-42-6	14.908	209.112	1,2
22838	C11H22O2	octyl propanoate	142-60-9	16.803	216.069	1,2	22948	C11H24	3,4,4-trimethyloctane	62016-43-7	15.139	205.430	1,2
22839	C11H22O2	heptyl butanoate	5870-93-9	16.028	216.596	1,2	22949	C11H24	3,4,5-trimethyloctane	62016-44-8	15.241	205.673	1,2
22840	C11H22O2	butyl heptanoate	5454-28-4	16.340	216.632	1,2	22950	C11H24	3,4,6-trimethyloctane	62016-45-9	15.125	207.502	1,2
22841	C11H22O2	ethyl nonanoate	123-29-5	16.390	216.158	1,2	22951	C11H24	3,5,5-trimethyloctane	61868-94-8	14.729	209.336	1,2
22842	C11H22O2	hexyl pentanoate	1117-59-5	16.341	216.707	1,2	22952	C11H24	4,4,5-trimethyloctane	61868-95-9	15.112	205.511	1,2
22843	C11H22O2	isopentyl hexanoate	2198-61-0	16.285	217.334	1,2	22953	C11H24	4-tert-butylheptane	60302-21-8	14.890	207.585	1,2
22844	C11H22O2	pentyl hexanoate	540-07-8	16.344	216.320	1,2	22954	C11H24	2-methyl-4-propylheptane	61868-96-0	14.982	210.890	1,2
22845	C11H22O2	isobutyl heptanoate	7779-80-8	15.602	217.762	1,2	22955	C11H24	3-methyl-4-propylheptane	61868-97-1	15.241	207.145	1,2
22846	C11H22O2	isopropyl octanoate	5458-59-3	15.888	218.725	1,2	22956	C11H24	4-methyl-4-propylheptane	17302-20-4	15.112	206.980	1,2
22847	C11H22O2	propyl octanoate	624-13-5	16.367	216.109	1,2	22957	C11H24	2-methyl-3-isopropylheptane	6876-18-2	15.096	207.806	1,2
22848	C11H22O2	methyl decanoate	110-42-9	16.338	214.358	1,2	22958	C11H24	2-methyl-4-isopropylheptane	61868-98-2	14.875	209.645	1,2
22851	C11H22O2	6-methyldecanoic acid	53696-14-3	13.920	215.959	2	22959	C11H24	3-methyl-4-isopropylheptane	61868-99-3	15.134	205.890	1,2
22853	C11H22O2	hexyl 2,2-dimethylpropanoate	5434-57-1	15.770	215.454	2	22960	C11H24	4-methyl-4-isopropylheptane	61869-00-9	15.176	203.769	1,2
22854	C11H22O2	hexyl isovalerate	10032-13-0	16.008	215.467	2	22961	C11H24	3,3-diethylheptane	17302-17-9	15.444	203.902	1,2
22855	C11H22O2	hexyl 2-methylbutyrate	10032-15-2	16.008	215.467	2	22962	C11H24	3,4-diethylheptane	61869-01-0	15.335	205.295	1,2
22856	C11H22O2	3,5,5-trimethylhexyl acetate	58430-94-7	15.422	215.452	2	22963	C11H24	3,5-diethylheptane	61869-02-1	15.244	207.063	1,2
22866	C11H22S	thiacyclododecane	294-65-5	16.773	205.041	1,2	22964	C11H24	4,4-diethylheptane	17302-21-5	15.252	204.703	1,2
22870	C11H23Br	1-bromoundecane	693-67-4	17.145	224.135	1,2	22965	C11H24	2,2-dimethyl-3-ethylheptane	61869-03-2	15.004	205.781	1,2
22872	C11H23Cl	1-chloroundecane	2473-03-2	16.706	220.706	1,2	22966	C11H24	2,2-dimethyl-4-ethylheptane	62016-46-0	14.610	211.346	1,2
22875	C11H23F	1-fluoroundecane	506-05-8	16.081	213.057	1,2	22967	C11H24	2,2-dimethyl-5-ethylheptane	62016-47-1	14.717	211.089	1,2
22876	C11H23I	1-iodoundecane	4282-44-4	18.694	231.261	1,2	22968	C11H24	2,3-dimethyl-3-ethylheptane	61868-21-1	15.182	203.610	1,2
22885	C11H23NO2	1-nitroundecane	2216-25-3	17.393	228.024	2	22969	C11H24	2,3-dimethyl-4-ethylheptane	61868-22-2	15.186	205.836	1,2
22890	C11H24	undecane	1120-21-4	15.989	212.092	1,2	22970	C11H24	2,3-dimethyl-5-ethylheptane	61868-23-3	15.097	207.585	1,2
22891	C11H24	2-methyldecane	6975-98-0	15.375	213.220	1,2	22971	C11H24	2,4-dimethyl-3-ethylheptane	61868-24-4	15.186	205.836	1,2
22892	C11H24	3-methyldecane	13151-34-3	15.462	211.346	1,2	22972	C11H24	2,4-dimethyl-4-ethylheptane	61868-25-5	14.791	207.585	1,2
22893	C11H24	4-methyldecane	2847-72-5	15.400	211.661	1,2	22973	C11H24	2,4-dimethyl-5-ethylheptane	61868-26-6	15.046	207.640	1,2
22894	C11H24	5-methyldecane	13151-35-4	15.361	211.460	1,2	22974	C11H24	2,5-dimethyl-3-ethylheptane	61868-27-7	15.046	207.640	1,2
22895	C11H24	3-ethylnonane	17302-11-3	15.476	209.645	1,2	22975	C11H24	2,5-dimethyl-4-ethylheptane	61868-28-8	15.018	207.723	1,2
22896	C11H24	4-ethylnonane	5911-05-7	15.370	209.871	1,2	22976	C11H24	2,5-dimethyl-5-ethylheptane	61868-29-9	14.995	207.365	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
22977	C11H24	2,6-dimethyl-3-ethylheptane	61868-30-2	14.983	209.393	1,2	23063	C11H24O	5-ethyl-2-nonanol	103-08-2	16.152	208.646	2
22978	C11H24	2,6-dimethyl-4-ethylheptane	61868-31-3	14.761	211.489	1,2	23064	C11H24O	1-methoxydecane	7289-52-3	17.097	208.775	2
22979	C11H24	3,3-dimethyl-4-ethylheptane	61868-32-4	15.176	203.769	1,2	23065	C11H24O2	1,2-undecanediol	13006-29-6	20.782	221.046	2
22980	C11H24	3,3-dimethyl-5-ethylheptane	61868-33-5	14.917	207.502	1,2	23066	C11H24O2	1,3-undecanediol	6071-32-5	21.065	220.918	2
22981	C11H24	3,4-dimethyl-3-ethylheptane	61868-34-6	15.374	201.770	1,2	23067	C11H24O2	1,4-undecanediol	---	21.594	220.695	2
22982	C11H24	3,4-dimethyl-4-ethylheptane	61868-35-7	15.111	206.189	1,2	23068	C11H24O2	1,11-undecanediol	765-04-8	21.074	223.589	2
22983	C11H24	3,4-dimethyl-5-ethylheptane	61868-36-8	15.332	203.902	1,2	23069	C11H24O2	2,2-dibutyl-1,3-propanediol	24765-57-9	21.209	220.059	2
22984	C11H24	3,5-dimethyl-3-ethylheptane	61868-37-9	15.097	205.917	1,2	23071	C11H24O2	2-(isobutyl-3-methylbutoxy)ethanol	10086-50-7	18.049	217.186	2
22985	C11H24	3,5-dimethyl-4-ethylheptane	61868-38-0	15.304	203.982	1,2	23076	C11H24O3	2-(2-(1-ethylamyloxy)ethoxy)ethanol	10138-87-1	17.821	222.802	2
22986	C11H24	4,4-dimethyl-3-ethylheptane	61868-39-1	15.078	203.769	1,2	23077	C11H24O3	2-(2-(heptyloxy)ethoxy)ethanol	25961-87-9	17.821	222.802	2
22987	C11H24	2,2,3,3-tetramethylheptane	61868-40-4	14.939	204.489	1,2	23081.1	C11H24O4	tripropylene glycol monoethyl ether	75899-69-3	17.920	233.613	2
22988	C11H24	2,2,3,4-tetramethylheptane	61868-41-5	14.890	206.134	1,2	23084	C11H24S	1-undecanethiol	5332-52-5	17.289	223.992	1,2
22989	C11H24	2,2,3,5-tetramethylheptane	61868-42-6	14.776	207.944	1,2	23085	C11H24S	2-undecanethiol	62155-02-6	16.484	225.386	1,2
22990	C11H24	2,2,3,6-tetramethylheptane	61868-43-7	14.617	209.702	1,2	23086	C11H24S	methyl decyl sulfide	22438-39-7	17.282	223.992	1,2
22991	C11H24	2,2,4,4-tetramethylheptane	61868-44-8	14.568	208.110	1,2	23087	C11H24S	ethyl nonyl sulfide	59973-08-9	17.282	223.992	1,2
22992	C11H24	2,2,4,5-tetramethylheptane	61868-45-9	14.584	209.955	1,2	23088	C11H24S	propyl octyl sulfide	3698-93-9	17.282	223.992	1,2
22993	C11H24	2,2,4,6-tetramethylheptane	61868-46-0	14.274	214.184	1,2	23089	C11H24S	butyl heptyl sulfide	40813-84-1	17.282	223.992	1,2
22994	C11H24	2,2,5,5-tetramethylheptane	61868-47-1	14.352	211.575	1,2	23090	C11H25N	undecylamine	7307-55-3	16.995	215.478	1,2
22995	C11H24	2,2,5,6-tetramethylheptane	61868-48-2	14.526	211.632	1,2	23091	C11H25N	methyldecylamine	7516-82-7	16.662	218.250	1,2
22996	C11H24	2,2,6,6-tetramethylheptane	40117-45-1	14.159	215.157	1,2	23092	C11H25N	ethylnonylamine	66563-84-6	16.505	219.368	1,2
22997	C11H24	2,3,3,4-tetramethylheptane	61868-49-3	15.177	202.293	1,2	23093	C11H25N	dimethylnonylamine	17373-27-2	15.547	222.733	1,2
22998	C11H24	2,3,3,5-tetramethylheptane	61868-50-6	14.890	206.134	1,2	23094	C11H25N	diethylheptylamine	26981-81-7	15.669	221.638	1,2
22999	C11H24	2,3,3,6-tetramethylheptane	61868-51-7	14.804	207.861	1,2	23095	C11H25N	4-ethyl-1-methyloctylamine	10024-78-9	15.892	219.464	2
23000	C11H24	2,3,4,4-tetramethylheptane	61868-52-8	15.005	204.302	1,2	23335	C12H8O	dibenzofuran	132-64-9	18.227	152.507	1,2
23001	C11H24	2,3,4,5-tetramethylheptane	61868-53-9	15.134	204.436	1,2	23394	C12H9N	dibenzopyrrole	86-74-8	18.866	172.966	2
23002	C11H24	2,3,4,6-tetramethylheptane	61868-54-0	14.876	208.166	1,2	23437.1	C12H9N3O4	4,4'-dinitrodiphenylamine	1821-27-8	20.072	253.973	2
23003	C11H24	2,3,5,5-tetramethylheptane	61868-55-1	14.725	208.027	1,2	23444	C12H10	acenaphthene	83-32-9	21.155	133.216	1,2
23004	C11H24	2,3,5,6-tetramethylheptane	52670-32-3	14.903	208.082	1,2	23445	C12H10	phenylbenzene (biphenyl)	92-52-4	19.508	153.542	1,2
23005	C11H24	2,4,4,5-tetramethylheptane	61868-56-2	14.838	206.216	1,2	23519	C12H10O	diphenyl ether	101-84-8	18.858	159.327	1,2
23006	C11H24	2,4,4,6-tetramethylheptane	61868-57-3	14.395	211.890	1,2	23607	C12H11N	p-aminodiphenyl	92-67-1	21.175	160.580	2
23007	C11H24	2,4,5,5-tetramethylheptane	61868-58-4	14.890	206.134	1,2	23609	C12H11N	diphenylamine	122-39-4	21.247	149.454	1,2
23008	C11H24	3,3,4,4-tetramethylheptane	61868-59-5	15.193	200.245	1,2	23656	C12H11N3	p-aminoazobenzene	60-09-3	20.991	180.207	2
23009	C11H24	3,3,4,5-tetramethylheptane	61868-60-8	15.150	202.371	1,2	23657	C12H11N3	1,3-diphenyltriazene	136-35-6	20.850	176.907	2
23010	C11H24	3,3,5,5-tetramethylheptane	61868-61-9	14.945	204.302	1,2	23675	C12H12	1,2-dimethylnaphthalene	573-98-8	20.244	154.070	1,2
23011	C11H24	3,4,4,5-tetramethylheptane	61868-62-0	15.320	200.451	1,2	23676	C12H12	1,3-dimethylnaphthalene	575-41-7	20.069	155.760	1,2
23012	C11H24	2,2-dimethyl-3-isopropylhexane	61868-63-1	14.784	206.352	1,2	23677	C12H12	1,4-dimethylnaphthalene	571-58-4	20.220	154.222	1,2
23013	C11H24	2,3-dimethyl-3-isopropylhexane	61868-64-2	15.194	200.554	1,2	23678	C12H12	1,5-dimethylnaphthalene	571-61-9	19.062	162.766	2
23014	C11H24	2,4-dimethyl-3-isopropylhexane	61868-65-3	15.027	204.677	1,2	23679	C12H12	1,6-dimethylnaphthalene	575-43-9	19.976	156.384	1,2
23015	C11H24	2,5-dimethyl-3-isopropylhexane	61868-66-4	14.769	208.415	1,2	23680	C12H12	1,7-dimethylnaphthalene	575-37-1	19.976	156.384	1,2
23016	C11H24	2-methyl-3,3-diethylhexane	61868-67-5	15.465	200.015	1,2	23681	C12H12	1,8-dimethylnaphthalene	569-41-5	18.935	160.702	1,2
23017	C11H24	2-methyl-3,4-diethylhexane	61868-68-6	15.251	204.062	1,2	23682	C12H12	2,3-dimethylnaphthalene	581-40-8	18.697	166.185	1,2
23018	C11H24	2-methyl-4,4-diethylhexane	61868-69-7	15.149	203.849	1,2	23683	C12H12	2,6-dimethylnaphthalene	581-42-0	18.023	168.381	1,2
23019	C11H24	3-methyl-3,4-diethylhexane	61868-70-0	15.465	200.015	1,2	23684	C12H12	2,7-dimethylnaphthalene	582-16-1	18.275	166.203	1,2
23020	C11H24	3-methyl-4,4-diethylhexane	61868-71-1	15.637	198.114	1,2	23685	C12H12	1-ethylnaphthalene	1127-76-0	19.850	155.605	1,2
23021	C11H24	2,2,3-trimethyl-3-ethylhexane	61868-72-2	15.093	200.322	1,2	23686	C12H12	2-ethylnaphthalene	939-27-5	19.421	158.125	1,2
23022	C11H24	2,2,3-trimethyl-4-ethylhexane	61868-73-3	14.954	204.382	1,2	23687	C12H12	dimethylnaphthalene, isomers	28804-88-8	19.822	155.744	1,2
23023	C11H24	2,2,4-trimethyl-3-ethylhexane	61868-74-4	14.926	204.462	1,2	23718	C12H12N2	p-aminodiphenylamine	101-54-2	23.607	156.391	2
23024	C11H24	2,2,4-trimethyl-4-ethylhexane	61868-75-5	14.894	204.382	1,2	23719	C12H12N2	hydrazobenzene	122-66-7	20.279	173.452	1,2
23025	C11H24	2,2,5-trimethyl-3-ethylhexane	61868-76-6	14.670	208.193	1,2	23887	C12H14	1,2,3-trimethylindene	4773-83-5	17.544	174.757	2
23026	C11H24	2,2,5-trimethyl-4-ethylhexane	61868-77-7	14.506	210.096	1,2	23897	C12H14	2-propyl-1H-indene	92013-11-1	18.298	166.572	1,2
23027	C11H24	2,3,3-trimethyl-4-ethylhexane	61868-78-8	15.267	200.554	1,2	24002	C12H14O4	diethyl phthalate	84-66-2	20.206	199.677	1,2
23028	C11H24	2,3,4-trimethyl-3-ethylhexane	61868-79-9	15.438	198.642	1,2	24022.1	C12H14O6	terephthalic acid diethylene glycol ester	959-26-2	19.546	356.171	2
23029	C11H24	2,3,4-trimethyl-4-ethylhexane	61868-80-2	15.194	200.554	1,2	24111	C12H16	cyclohexylbenzene	827-52-1	19.007	170.670	1,2
23030	C11H24	2,3,5-trimethyl-3-ethylhexane	61868-81-3	14.954	204.382	1,2	24112	C12H16	1-ethyl-[1,2,3,4-tetrahydronaphthalene]	13556-58-6	18.184	168.797	1,2
23031	C11H24	2,3,5-trimethyl-4-ethylhexane	61868-82-4	15.079	204.596	1,2	24113	C12H16	2-ethyl-[1,2,3,4-tetrahydronaphthalene]	32367-54-7	18.152	170.797	1,2
23032	C11H24	2,4,4-trimethyl-3-ethylhexane	61868-83-5	15.071	202.529	1,2	24114	C12H16	5-ethyl-1,2,3,4-tetrahydronaphthalene	42775-75-7	18.555	165.347	1,2
23033	C11H24	3,3,4-trimethyl-4-ethylhexane	61868-84-6	15.482	196.495	1,2	24115	C12H16	6-ethyl-1,2,3,4-tetrahydronaphthalene	22531-20-0	18.404	167.405	1,2
23034	C11H24	2,2,3,3,4-pentamethylhexane	61868-85-7	15.141	198.920	1,2	24116	C12H16	1,2,3,4-tetrahydro-1,3-dimethylnaphthalene	5195-37-9	17.702	171.132	1,2
23035	C11H24	2,2,3,3,5-pentamethylhexane	61868-86-8	14.660	203.108	1,2	24117	C12H16	1,2,3,4-tetrahydro-1,4-dimethylnaphthalene	4175-54-6	17.041	171.132	1,2
23036	C11H24	2,2,3,4,4-pentamethylhexane	61868-87-9	15.180	199.148	1,2	24118	C12H16	1,2,3,4-tetrahydro-1,5-dimethylnaphthalene	21564-91-0	18.147	170.951	1,2
23037	C11H24	2,2,3,4,5-pentamethylhexane	61868-88-0	14.786	204.891	1,2	24119	C12H16	1,2,3,4-tetrahydro-2,2-dimethylnaphthalene	13556-55-3	17.320	172.045	1,2
23038	C11H24	2,2,3,5,5-pentamethylhexane	14739-73-2	14.347	208.917	1,2	24120	C12H16	1,2,3,4-tetrahydro-2,3-dimethylnaphthalene	21564-92-1	17.667	171.132	1,2
23039	C11H24	2,2,4,4,5-pentamethylhexane	60302-23-0	14.729	204.891	1,2	24121	C12H16	1,2,3,4-tetrahydro-2,5-dimethylnaphthalene	25419-37-8	17.931	170.051	1,2
23040	C11H24	2,3,3,4,4-pentamethylhexane	61868-89-1	15.286	197.015	1,2	24122	C12H16	1,2,3,4-tetrahydro-2,6-dimethylnaphthalene	7524-63-2	18.236	170.951	1,2
23041	C11H24	2,3,3,4,5-pentamethylhexane	52670-33-4	15.096	201.070	1,2	24123	C12H16	1,2,3,4-tetrahydro-2,7-dimethylnaphthalene	13065-07-1	17.970	170.951	1,2
23042	C11H24	2,2,4-trimethyl-3-isopropylpentane	61868-90-4	14.680	205.133	1,2	24124	C12H16	1,2,3,4-tetrahydro-2,8-dimethylnaphthalene	25419-36-7	17.883	170.951	1,2
23043	C11H24	2,3,4-trimethyl-3-isopropylpentane	61868-91-5	15.361	197.313	1,2	24125	C12H16	1,2,3,4-tetrahydro-5,6-dimethylnaphthalene	20027-77-4	18.838	165.009	1,2
23044	C11H24	2,2-dimethyl-3,3-diethylpentane	60302-28-5	15.454	196.594	1,2	24126	C12H16	1,2,3,4-tetrahydro-5,7-dimethylnaphthalene	21693-54-9	18.714	167.875	1,2
23045	C11H24	2,4-dimethyl-3,3-diethylpentane	61868-92-6	15.559	196.792	1,2	24127	C12H16	1,2,3,4-tetrahydro-5,8-dimethylnaphthalene	14108-88-4	18.837	166.369	1,2
23046	C11H24	2,2,3,4-tetramethyl-3-ethylpentane	61868-93-7	15.258	197.114	1,2	24128	C12H16	1,2,3,4-tetrahydro-6,7-dimethylnaphthalene	1076-61-5	18.635	168.629	1,2
23047	C11H24	2,2,4,4-tetramethyl-3-ethylpentane	---	14.958	201.225	1,2	24129	C12H16	1,2,3,4-tetrahydro-1,1-dimethylnaphthalene	1985-59-7	16.736	169.337	1,2
23048	C11H24	2,2,3,3,4,4-hexamethylpentane	60302-27-4	15.370	193.719	1,2	24130	C12H16	1,2,3,4-tetrahydro-1,2-dimethylnaphthalene	5195-40-4	17.853	169.872	1,2
23055	C11H24O	1-undecanol	112-42-5	19.934	207.354	1,2	24134	C12H16	2-hexenylbenzene	67590-77-6	17.426	181.381	1,2
23056	C11H24O	2-undecanol	1653-30-1	17.008	209.268	1,2	24135	C12H16	3-hexenylbenzene	35008-86-7	16.942	183.032	1,2
23057	C11H24O	2-undecanol, (±)	113666-64-1	16.232	209.420	1,2	24136	C12H16	5-hexenylbenzene	1588-44-9	16.784	182.021	1,2
23058	C11H24O	3-undecanol, (R)-	107494-37-1	16.300	208.573	1,2	24137	C12H16	p-isopropenylisopropylbenzene	2388-14-9	17.040	180.051	1,2
23059	C11H24O	5-undecanol	37493-70-2	16.297	208.648	1,2	24138	C12H16	(1-methyl-1-pentenyl)benzene	20247-89-6	17.273	176.817	1,2
23060	C11H24O	6-undecanol	23708-56-7	16.303	207.601	1,2	24139	C12H16	4-tert-butylstyrene	1746-23-2	17.586	183.153	1,2
23061	C11H24O	2,8-dimethyl-5-nonanol	19780-96-2	16.399	209.653	1,2	24139.1	C12H16	4-isobutylstyrene	63444-56-4	18.053	182.548	2
23062	C11H24O	undecanol	30207-98-8	16.876	208.646	2	24357	C12H18	hexylbenzene	1077-16-3	17.256	189.795	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
24358	C12H18	1,4-dipropylbenzene	4815-57-0	15.757	190.441	1,2	24788	C12H23Br	trans-1-bromo-1-dodecene	66553-40-0	16.231	237.254	1,2
24359	C12H18	diisopropylbenzene	25321-09-9	15.183	188.692	1,2	24791	C12H23Br3	1,1,1-tribromododecane	62127-69-9	15.427	290.474	2
24360	C12H18	1,2-diisopropylbenzene	577-55-9	15.517	187.279	1,2	24792	C12H23Cl	cis-1-chloro-1-dodecene	66553-41-1	16.462	231.469	1,2
24361	C12H18	m-diisopropylbenzene	99-62-7	16.573	190.464	1,2	24793	C12H23Cl	trans-1-chloro-1-dodecene	66553-42-2	16.462	231.469	1,2
24362	C12H18	p-diisopropylbenzene	100-18-5	16.931	190.240	1,2	24795	C12H23Cl3	1,1,1-trichlorododecane	62108-57-0	16.046	264.076	2
24363	C12H18	triethylbenzene; (mixed isomers)	25340-18-5	16.792	187.054	2	24796	C12H23F	cis-1-fluoro-1-dodecene	66553-43-3	15.384	223.934	1,2
24364	C12H18	1,2,3-triethylbenzene	42205-08-3	17.278	186.523	1,2	24797	C12H23F	trans-1-fluoro-1-dodecene	66553-44-4	15.384	223.934	1,2
24365	C12H18	1,2,4-triethylbenzene	877-44-1	17.278	186.523	1,2	24799	C12H23F3	1,1,1-trifluorododecane	764-84-1	14.601	244.467	2
24366	C12H18	1,3,5-triethylbenzene	102-25-0	17.409	182.948	1,2	24800	C12H23I	cis-1-iodo-1-dodecene	66553-45-5	16.428	245.387	1,2
24367	C12H18	1-tert-butyl-3,5-dimethylbenzene	98-19-1	15.727	187.990	1,2	24801	C12H23I	trans-1-iodo-1-dodecene	66553-46-6	16.428	245.387	1,2
24368	C12H18	(1,1-dimethylbutyl)benzene	1985-57-5	15.656	186.790	1,2	24802	C12H23I3	1,1,1-triiododododecane	---	17.245	310.425	2
24369	C12H18	2,4-dimethyl-1-sec-butylbenzene	1483-60-9	15.855	188.076	1,2	24804	C12H23N	dicyclohexylamine	101-83-7	17.188	199.474	1,2
24370	C12H18	(1-ethylbutyl)benzene	4468-42-2	15.525	196.959	1,2	24805	C12H23N	dodecanenitrile	2437-25-4	17.326	221.043	1,2
24371	C12H18	(1-ethyl-1-methylpropyl)benzene	1985-97-3	15.628	186.515	1,2	24818	C12H24	heptylcyclopentane	5617-42-5	16.220	208.837	1,2
24372	C12H18	(1-methylpentyl)benzene	6031-02-3	15.796	188.284	1,2	24819	C12H24	hexylcyclohexane	4292-75-5	16.852	188.702	1,2
24373	C12H18	(3-methylpentyl)benzene	54410-69-4	16.774	189.432	1,2	24820	C12H24	1-methyl-2-pentylcyclohexane	54411-01-7	15.987	207.374	1,2
24374	C12H18	(4-methylpentyl)benzene	4215-86-5	16.607	190.793	1,2	24821	C12H24	cyclododecane	294-62-2	16.195	202.296	1,2
24375	C12H18	1,2,4-trimethyl-5-isopropylbenzene	10222-95-4	17.004	185.130	1,2	24823	C12H24	1-dodecene	112-41-4	16.143	222.649	1,2
24376	C12H18	4-tert-butyl-o-xylene	7397-06-0	15.637	186.309	1,2	24823.1	C12H24	cis-2-dodecene	7206-26-0	17.109	198.997	2
24377	C12H18	hexamethyldewarbenzene	7641-77-2	14.409	202.338	1,2	24823.2	C12H24	trans-2-dodecene	7206-13-5	17.101	198.997	2
24378	C12H18	hexamethylbenzene	87-85-4	16.782	174.778	1,2	24824	C12H24	2-methyl-1-undecene	18516-37-5	15.543	221.944	1,2
24378.1	C12H18	p-tert-butyl ethylbenzene	7364-19-4	16.774	188.600	2	24825	C12H24	4,4-dimethyl-2-neopentyl-1-pentene	141-70-8	16.283	206.241	2
24378.2	C12H18	1,5,9-cyclododecatriene	706-31-0	16.307	182.591	2	24826	C12H24	2,2,4,6,6-pentamethyl-3-heptene	123-48-8	13.667	206.241	2
24378.3	C12H18	1,2,3-triethylebenzene	42205-08-3	17.465	182.535	2	24827	C12H24	trans-2,2,4,6,6-pentamethyl-3-heptene	27656-50-4	13.667	206.241	2
24433	C12H18O	2-tert-butyl-4,5-dimethylphenol	1445-23-4	17.504	188.727	1,2	24828	C12H24	isobutene, trimer	7756-94-7	13.110	222.771	1,2
24434	C12H18O	2-tert-butyl-4,6-dimethylphenol	1879-09-0	17.404	186.440	1,2	24831	C12H24Br2	1,1-dibromododecane	62168-29-0	16.388	258.905	2
24435	C12H18O	4-tert-butyl-2,5-dimethylphenol	17696-37-6	17.465	188.511	1,2	24832	C12H24Br2	1,12-dibromododecane	3344-70-5	16.604	256.024	2
24436	C12H18O	4-tert-butyl-2,6-dimethylphenol	879-97-0	16.418	194.996	1,2	24833	C12H24Cl2	1,1-dichlorododecane	62017-17-8	16.314	251.289	1,2
24446	C12H18O	4-(1,1-dimethylpropyl)-2-methylphenol	71745-63-6	17.941	184.651	1,2	24834	C12H24Cl2	1,12-dichlorododecane	3922-28-9	16.949	248.504	2
24447	C12H18O	2,6-dipropylphenol	6626-32-0	17.738	185.588	1,2	24838	C12H24F2	1,1-difluorododecane	62127-45-1	15.385	234.454	1,2
24448	C12H18O	5-methyl-2-pentylphenol	1300-94-3	17.499	188.202	2	24839	C12H24I2	1,1-diiododododecane	66553-33-1	17.293	274.896	2
24451	C12H18O	6-n-amyl-m-cresol	53043-14-4	17.913	183.788	1,2	24852	C12H24O	dodecanal	112-54-9	17.159	223.150	1,2
24452	C12H18O	2-tert-butyl-4-ethylphenol	96-70-8	17.254	190.539	1,2	24853	C12H24O	2-methylundecanal	110-41-8	16.476	223.365	1,2
24457	C12H18O	3,5-bis(1-methylethyl)phenol	26886-05-5	17.300	189.993	2	24854	C12H24O	2-dodecanone	6175-49-1	16.456	223.784	1,2
24458	C12H18O	2,4-bis(1-methylethyl)phenol	2934-05-6	17.300	189.993	2	24855	C12H24O	6-dodecanone	6064-27-3	16.466	222.916	2
24461	C12H18O	2-hexylphenol	3226-32-2	17.300	189.993	2	24855.1	C12H24O	isobutyl heptyl ketone	123-18-2	16.417	226.308	2
24477.1	C12H18O2	m-diisopropylbenzene hydroperoxide	26762-93-6	22.214	204.591	2	24856	C12H24O	decyl vinyl ether	765-05-9	15.244	227.900	1,2
24477.2	C12H18O2	p-diisopropylbenzene hydroperoxide	98-49-7	22.348	196.265	2	24860	C12H24O	trimethyl nonanone	1331-50-6	15.277	225.608	1,2
24505	C12H19N	2,6-diisopropylaniline	24544-04-5	18.076	188.606	1,2	24861	C12H24O	3-dodecanone	1534-27-6	16.466	222.916	2
24506	C12H19N	N,N-dipropylaniline	2217-07-4	17.190	195.524	1,2	24862	C12H24O	5-dodecanone	19780-10-0	16.466	222.916	2
24507	C12H19N	4-tert-butyl-N,N-dimethylaniline	2909-79-7	17.536	195.684	1,2	24863	C12H24O	4-dodecanone	6137-26-4	16.466	222.916	2
24508	C12H19N	N,N-diisopropylaniline	4107-98-6	17.828	194.824	1,2	24864	C12H24O	(Z)-7-dodecen-1-ol	20056-92-2	16.663	222.877	2
24509	C12H19N	4-hexylaniline	33228-45-4	18.855	193.759	1,2	24867	C12H24O2	dodecanoic acid	143-07-7	20.471	229.685	1,2
24531	C12H20	1-dodecen-3-yne	74744-36-8	15.596	207.208	1,2	24868	C12H24O2	undecyl formate	5454-24-0	16.467	231.584	2
24560	C12H20O	2,5-di-tert-butylfuran	4789-40-6	15.572	216.183	1,2	24869	C12H24O2	decyl acetate	112-17-4	15.999	232.002	1,2
24594	C12H20O4	dibutyl maleate	105-76-0	18.836	230.362	1,2	24870	C12H24O2	nonyl propanoate	53184-67-1	16.522	233.013	1,2
24619	C12H20S	3-octylthiophene	65016-62-8	16.873	213.431	1,2	24871	C12H24O2	octyl butanoate	110-39-4	15.980	233.122	1,2
24652	C12H22	bicyclohexyl	92-51-3	16.992	188.343	1,2	24872	C12H24O2	heptyl pentanoate	5451-80-9	16.301	233.316	1,2
24653	C12H22	1-dodecyne	765-03-7	16.138	214.589	1,2	24873	C12H24O2	hexyl hexanoate	6378-65-0	16.345	232.989	1,2
24654	C12H22	2-dodecyne	629-49-2	16.160	211.834	1,2	24874	C12H24O2	pentyl heptanoate	7493-82-5	16.309	233.316	1,2
24655	C12H22	3-dodecyne	6790-27-8	15.442	218.449	1,2	24875	C12H24O2	butyl octanoate	589-75-3	16.122	233.181	1,2
24656	C12H22	6-dodecyne	6975-99-1	15.638	212.769	1,2	24876	C12H24O2	ethyl decanoate	110-38-3	16.182	232.591	1,2
24657	C12H22	3,3-dimethyl-4-decyne	70732-45-5	16.150	216.031	1,2	24877	C12H24O2	ethyl 3-methylnonanoate	86051-37-8	16.532	232.510	1,2
24658	C12H22	4a-ethyl-cis-decahydronaphthalene	66553-61-5	17.074	188.343	1,2	24878	C12H24O2	methyl undecanoate	1731-86-8	16.565	231.594	2
24659	C12H22	4a-ethyl-trans-decahydronaphthalene	66553-62-6	16.630	194.057	1,2	24879	C12H24O2	2-butyloctanoic acid	27610-92-0	13.713	229.075	1,2
24660	C12H22	1-ethyl,cis-decahydronaphthalene	---	17.447	194.057	1,2	24880	C12H24O2	3,7-dimethyloctanyl acetate	20780-49-8	15.590	231.588	2
24661	C12H22	1-ethyl-trans-decahydronaphthalene	---	17.333	194.057	1,2	24885.1	C12H24O3	2,2,4-trimethyl-1,3-pentanediol monoisobutyr*	77-68-9	16.033	227.945	1,2
24662	C12H22	2-ethyl-cis-decahydronaphthalene	---	17.094	188.963	1,2	24892	C12H24S	thiacyclotridecane	295-05-6	16.623	223.424	1,2
24663	C12H22	2-ethyl-trans-decahydronaphthalene	---	16.752	192.909	1,2	24894	C12H25Br	1-bromododecane	143-15-7	16.493	240.690	1,2
24664	C12H22	1,4a-dimethyl-cis-decahydronaphthalene	---	16.770	187.790	1,2	24895	C12H25Br	2-bromododecane	13187-99-0	16.369	244.348	1,2
24665	C12H22	1,4a-dimethyl-trans-decahydronaphthalene	---	16.350	193.537	1,2	24897	C12H25Cl	1-chlorododecane	112-52-7	16.329	237.127	1,2
24666	C12H22	1-heptylcyclopentene	4292-00-6	16.270	203.807	1,2	24899	C12H25F	1-fluorododecane	334-68-9	15.757	229.446	1,2
24669	C12H22	1,11-dodecadiene	5876-87-9	15.313	216.661	1,2	24900	C12H25I	1-iodododecane	4292-19-7	17.014	247.875	1,2
24700	C12H22O2	2-dodecenoic acid	4412-16-2	17.054	214.724	1,2	24905	C12H25NO2	1-nitrododecane	16891-99-9	16.225	247.393	2
24701	C12H22O2	4-dodecenoic acid	505-92-0	16.856	219.804	1,2	24914	C12H26	dodecane	112-40-3	15.912	228.642	1,2
24702	C12H22O2	5-dodecenoic acid	2761-84-4	16.883	219.092	1,2	24915	C12H26	3-methylundecane	1002-43-3	15.346	227.573	1,2
24703	C12H22O2	11-dodecenoic acid	65423-25-8	16.821	220.716	1,2	24916	C12H26	4-methylundecane	2980-69-0	15.316	227.786	1,2
24704	C12H22O2	2-ethylhexyl methacrylate	688-84-6	15.927	225.347	1,2	24917	C12H26	5-methylundecane	1632-70-8	15.243	227.847	1,2
24708	C12H22O2	methyl 10-undecenoate	111-81-9	16.400	224.691	1,2	24918	C12H26	6-methylundecane	17302-33-9	15.242	227.878	1,2
24712	C12H22O2	citronellyl acetate	150-84-5	15.776	223.317	1,2	24919	C12H26	3-ethyldecane	17085-96-0	15.431	224.189	1,2
24714	C12H22O2	cis-5-dodecenoic acid	2430-94-6	16.891	218.880	1,2	24920	C12H26	4-ethyldecane	1636-44-8	15.249	226.243	1,2
24716	C12H22O2	menthyl acetate	89-48-5	16.041	215.082	1,2	24921	C12H26	5-ethyldecane	17302-36-2	15.196	226.393	1,2
24717	C12H22O2	(1R)-(-)-neomenthyl acetate	146502-80-9	16.027	219.444	1,2	24922	C12H26	2,2-dimethyldecane	17302-37-3	14.989	230.001	1,2
24718	C12H22O2	(1S)-(+)-neomenthyl acetate	2552-91-2	16.027	219.444	1,2	24923	C12H26	2,3-dimethyldecane	17312-44-6	15.256	226.484	1,2
24722	C12H22O2	vinyl decanoate	4704-31-8	15.981	223.821	1,2	24924	C12H26	2,4-dimethyldecane	2801-84-5	15.011	229.567	1,2
24723	C12H22O2	acetic acid 2-isopropyl-5-methyl-2-hexen-1-y*	40853-56-3	16.968	216.891	2	24925	C12H26	2,5-dimethyldecane	17312-50-4	14.995	228.612	1,2
24724	C12H22O2	allyl 3,5,5-trimethylhexanoate	71500-21-5	16.232	216.946	2	24926	C12H26	2,6-dimethyldecane	13150-81-7	14.996	228.581	1,2
24731	C12H22O2	cis-3-hexenyl caproate	31501-11-8	16.232	216.946	2	24927	C12H26	2,7-dimethyldecane	17312-51-5	15.094	228.489	1,2
24782.1	C12H22S	dicyclohexyl sulfide	7133-46-2	17.297	205.113	2	24928	C12H26	2,8-dimethyldecane	17312-52-6	15.147	228.305	1,2
24787	C12H23Br	cis-1-bromo-1-dodecene	66553-39-7	16.231	237.254	1,2	24929	C12H26	2,9-dimethyldecane	1002-17-1	15.089	230.063	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
24930	C12H26	3,3-dimethyldecane	17302-38-4	15.154	226.424	1,2	25010	C12H26	4-methyl-5-propyloctane	62183-85-1	15.110	223.717	1,2
24931	C12H26	3,4-dimethyldecane	17312-45-7	15.287	224.840	1,2	25011	C12H26	2-methyl-3-isopropyloctane	13287-19-9	15.067	224.041	1,2
24932	C12H26	3,5-dimethyldecane	17312-48-0	15.101	226.846	1,2	25012	C12H26	2-methyl-4-isopropyloctane	62183-86-2	14.853	226.123	1,2
24933	C12H26	3,6-dimethyldecane	17312-53-7	15.126	226.815	1,2	25013	C12H26	2-methyl-5-isopropyloctane	62183-87-3	14.880	226.033	1,2
24934	C12H26	3,7-dimethyldecane	17312-54-8	15.153	226.725	1,2	25014	C12H26	3-methyl-4-isopropyloctane	62183-88-4	15.099	222.374	1,2
24935	C12H26	3,8-dimethyldecane	17312-55-9	15.230	226.544	1,2	25015	C12H26	3-methyl-5-isopropyloctane	62183-89-5	14.962	224.277	1,2
24936	C12H26	4,4-dimethyldecane	17312-39-9	15.050	226.695	1,2	25016	C12H26	4-methyl-4-isopropyloctane	62183-90-8	15.212	220.246	1,2
24937	C12H26	4,5-dimethyldecane	17312-46-8	15.209	225.047	1,2	25017	C12H26	4-methyl-5-isopropyloctane	62183-91-9	15.072	222.461	1,2
24938	C12H26	4,6-dimethyldecane	17312-49-1	15.048	226.997	1,2	25018	C12H26	3,3-diethyloctane	17302-40-8	15.354	221.939	1,2
24939	C12H26	4,7-dimethyldecane	17312-56-0	15.075	226.906	1,2	25019	C12H26	3,4-diethyloctane	62183-92-0	15.248	221.795	1,2
24940	C12H26	5,5-dimethyldecane	17453-92-8	14.998	226.815	1,2	25020	C12H26	3,5-diethyloctane	62183-93-1	15.137	223.629	1,2
24941	C12H26	5,6-dimethyldecane	1636-43-7	15.183	225.107	1,2	25021	C12H26	3,6-diethyloctane	62183-94-2	15.272	223.190	1,2
24942	C12H26	4-propylnonane	6165-37-3	15.119	226.544	1,2	25022	C12H26	4,4-diethyloctane	17312-42-4	15.270	220.903	1,2
24943	C12H26	5-propylnonane	998-35-6	15.063	226.785	1,2	25023	C12H26	4,5-diethyloctane	1636-41-5	15.195	221.910	1,2
24944	C12H26	4-isopropylnonane	62184-71-8	15.105	225.286	1,2	25024	C12H26	2,2-dimethyl-3-ethyloctane	62183-95-3	15.043	223.806	1,2
24945	C12H26	5-isopropylnonane	62184-72-9	15.101	225.405	1,2	25025	C12H26	2,2-dimethyl-4-ethyloctane	62183-96-4	14.695	227.786	1,2
24946	C12H26	2-methyl-3-ethylnonane	62184-73-0	15.187	224.988	1,2	25026	C12H26	2,2-dimethyl-5-ethyloctane	62183-97-5	14.747	227.664	1,2
24947	C12H26	2-methyl-4-ethylnonane	62184-37-6	15.044	227.118	1,2	25027	C12H26	2,2-dimethyl-6-ethyloctane	62183-98-6	14.852	227.391	1,2
24948	C12H26	2-methyl-5-ethylnonane	62184-38-7	14.996	227.118	1,2	25028	C12H26	2,3-dimethyl-3-ethyloctane	62183-99-7	15.317	219.990	1,2
24949	C12H26	2-methyl-6-ethylnonane	62184-39-8	15.048	226.997	1,2	25029	C12H26	2,3-dimethyl-4-ethyloctane	62184-00-3	15.150	222.287	1,2
24950	C12H26	2-methyl-7-ethylnonane	62184-40-1	15.153	226.725	1,2	25030	C12H26	2,3-dimethyl-5-ethyloctane	62184-01-4	15.015	224.130	1,2
24951	C12H26	3-methyl-3-ethylnonane	17302-39-5	15.296	222.927	1,2	25031	C12H26	2,3-dimethyl-6-ethyloctane	62184-02-5	15.145	223.864	1,2
24952	C12H26	3-methyl-4-ethylnonane	62184-41-2	15.242	223.365	1,2	25032	C12H26	2,4-dimethyl-3-ethyloctane	62184-03-6	15.151	222.258	1,2
24953	C12H26	3-methyl-5-ethylnonane	62184-42-3	15.020	225.674	1,2	25033	C12H26	2,4-dimethyl-4-ethyloctane	62184-04-7	14.913	224.071	1,2
24954	C12H26	3-methyl-6-ethylnonane	62184-43-4	15.131	225.226	1,2	25034	C12H26	2,4-dimethyl-5-ethyloctane	62184-05-8	14.987	224.248	1,2
24955	C12H26	3-methyl-7-ethylnonane	62184-44-5	15.164	224.958	1,2	25035	C12H26	2,4-dimethyl-6-ethyloctane	62184-06-9	14.906	225.973	1,2
24956	C12H26	4-methyl-3-ethylnonane	62184-45-6	15.221	223.278	1,2	25036	C12H26	2,5-dimethyl-3-ethyloctane	62184-07-0	15.015	224.130	1,2
24957	C12H26	4-methyl-4-ethylnonane	17312-40-2	15.166	223.248	1,2	25037	C12H26	2,5-dimethyl-4-ethyloctane	62184-08-1	14.962	224.277	1,2
24958	C12H26	4-methyl-5-ethylnonane	62184-46-7	15.164	223.541	1,2	25038	C12H26	2,5-dimethyl-5-ethyloctane	62184-09-2	14.965	223.982	1,2
24959	C12H26	4-methyl-6-ethylnonane	62184-47-8	15.053	225.405	1,2	25039	C12H26	2,5-dimethyl-6-ethyloctane	62183-50-0	15.092	224.012	1,2
24960	C12H26	4-methyl-7-ethylnonane	62184-48-9	15.158	225.137	1,2	25040	C12H26	2,6-dimethyl-3-ethyloctane	62183-51-1	15.093	223.982	1,2
24961	C12H26	5-methyl-3-ethylnonane	62184-49-0	15.131	225.226	1,2	25041	C12H26	2,6-dimethyl-4-ethyloctane	62183-52-2	14.854	226.093	1,2
24962	C12H26	5-methyl-4-ethylnonane	1632-71-9	15.189	223.512	1,2	25042	C12H26	2,6-dimethyl-5-ethyloctane	62183-53-3	15.041	224.100	1,2
24963	C12H26	5-methyl-5-ethylnonane	14531-16-9	15.139	223.336	1,2	25043	C12H26	2,6-dimethyl-6-ethyloctane	62183-54-4	15.094	223.688	1,2
24964	C12H26	2,2,3-trimethylnonane	55499-04-2	15.079	225.554	1,2	25044	C12H26	2,7-dimethyl-3-ethyloctane	62183-55-5	15.010	225.733	1,2
24965	C12H26	2,2,4-trimethylnonane	62184-50-3	14.744	229.258	1,2	25045	C12H26	2,7-dimethyl-4-ethyloctane	62183-56-6	14.795	227.878	1,2
24966	C12H26	2,2,5-trimethylnonane	62184-51-4	14.744	229.258	1,2	25046	C12H26	3,3-dimethyl-4-ethyloctane	62183-57-7	15.213	220.218	1,2
24967	C12H26	2,2,6-trimethylnonane	62184-52-5	14.723	229.165	1,2	25047	C12H26	3,3-dimethyl-5-ethyloctane	62183-58-8	14.913	224.071	1,2
24968	C12H26	2,2,7-trimethylnonane	62184-53-6	14.848	228.980	1,2	25048	C12H26	3,3-dimethyl-6-ethyloctane	62183-59-9	15.043	223.806	1,2
24969	C12H26	2,2,8-trimethylnonane	62184-54-7	14.776	231.218	1,2	25049	C12H26	3,4-dimethyl-3-ethyloctane	62212-28-6	15.331	218.215	1,2
24970	C12H26	2,3,3-trimethylnonane	62184-55-8	15.197	223.453	1,2	25050	C12H26	3,4-dimethyl-4-ethyloctane	62183-60-2	15.351	218.327	1,2
24971	C12H26	2,3,4-trimethylnonane	62184-56-9	15.171	223.776	1,2	25051	C12H26	3,4-dimethyl-5-ethyloctane	62183-61-3	15.235	220.503	1,2
24972	C12H26	2,3,5-trimethylnonane	62184-57-0	15.010	225.733	1,2	25052	C12H26	3,4-dimethyl-6-ethyloctane	62183-62-4	15.177	222.200	1,2
24973	C12H26	2,3,6-trimethylnonane	62184-58-1	15.061	225.644	1,2	25053	C12H26	3,5-dimethyl-3-ethyloctane	62183-63-5	15.101	222.084	1,2
24974	C12H26	2,3,7-trimethylnonane	62184-59-2	15.138	225.465	1,2	25054	C12H26	3,5-dimethyl-4-ethyloctane	62183-64-6	15.210	220.531	1,2
24975	C12H26	2,3,8-trimethylnonane	62184-60-5	15.056	227.209	1,2	25055	C12H26	3,5-dimethyl-5-ethyloctane	62183-65-7	14.945	222.403	1,2
24976	C12H26	2,4,4-trimethylnonane	62184-61-6	14.774	227.573	1,2	25056	C12H26	3,5-dimethyl-6-ethyloctane	62183-66-8	15.151	222.258	1,2
24977	C12H26	2,4,5-trimethylnonane	62184-62-7	14.983	225.823	1,2	25057	C12H26	3,6-dimethyl-3-ethyloctane	62183-67-9	15.179	221.910	1,2
24978	C12H26	2,4,6-trimethylnonane	62184-10-5	14.849	227.725	1,2	25058	C12H26	3,6-dimethyl-4-ethyloctane	62183-68-0	15.124	222.345	1,2
24979	C12H26	2,4,7-trimethylnonane	62184-11-6	14.901	227.573	1,2	25059	C12H26	4,4-dimethyl-3-ethyloctane	62183-69-1	14.611	238.736	1,2
24980	C12H26	2,4,8-trimethylnonane	49542-74-7	14.748	230.094	1,2	25060	C12H26	4,4-dimethyl-5-ethyloctane	62183-70-4	15.160	220.360	1,2
24981	C12H26	2,5,5-trimethylnonane	62184-12-7	14.774	227.573	1,2	25061	C12H26	4,4-dimethyl-6-ethyloctane	62183-71-5	14.913	224.071	1,2
24982	C12H26	2,5,6-trimethylnonane	62184-13-8	15.009	225.763	1,2	25062	C12H26	4,5-dimethyl-3-ethyloctane	62183-72-6	15.262	220.417	1,2
24983	C12H26	2,5,7-trimethylnonane	62184-14-9	14.900	227.603	1,2	25063	C12H26	4,5-dimethyl-4-ethyloctane	62183-73-7	15.324	218.411	1,2
24984	C12H26	2,5,8-trimethylnonane	49557-09-7	14.796	229.350	1,2	25064	C12H26	2,2,3,3-tetramethyloctane	62183-74-8	15.193	220.275	1,2
24985	C12H26	2,6,6-trimethylnonane	62184-15-0	14.779	227.421	1,2	25065	C12H26	2,2,3,4-tetramethyloctane	62183-75-9	15.029	222.519	1,2
24986	C12H26	2,6,7-trimethylnonane	62184-16-1	15.088	225.554	1,2	25066	C12H26	2,2,3,5-tetramethyloctane	62183-76-0	14.894	224.425	1,2
24987	C12H26	2,7,7-trimethylnonane	62184-17-2	14.954	227.179	1,2	25067	C12H26	2,2,3,6-tetramethyloctane	62183-77-1	14.947	224.248	1,2
24988	C12H26	3,3,4-trimethylnonane	62184-18-3	15.257	221.708	1,2	25068	C12H26	2,2,3,7-tetramethyloctane	62183-78-2	14.889	226.003	1,2
24989	C12H26	3,3,5-trimethylnonane	62184-19-4	14.836	225.674	1,2	25069	C12H26	2,2,4,4-tetramethyloctane	62183-79-3	14.858	224.543	1,2
24990	C12H26	3,3,7-trimethylnonane	62184-21-8	14.959	225.584	1,2	25070	C12H26	2,2,4,5-tetramethyloctane	62183-80-6	14.707	226.454	1,2
24991	C12H26	3,3,6-trimethylnonane	62184-20-7	15.037	225.405	1,2	25071	C12H26	2,2,4,6-tetramethyloctane	62183-81-7	14.600	228.275	1,2
24992	C12H26	3,4,4-trimethylnonane	62184-22-9	15.205	221.824	1,2	25072	C12H26	2,2,4,7-tetramethyloctane	62183-82-8	14.540	230.032	1,2
24993	C12H26	3,4,5-trimethylnonane	62184-23-0	15.229	222.084	1,2	25073	C12H26	2,2,5,5-tetramethyloctane	62183-83-9	14.552	228.091	1,2
24994	C12H26	3,4,6-trimethylnonane	62184-24-1	15.093	223.982	1,2	25074	C12H26	2,2,5,6-tetramethyloctane	62183-84-0	14.786	226.243	1,2
24995	C12H26	3,4,7-trimethylnonane	27802-85-3	15.170	223.806	1,2	25075	C12H26	2,2,5,7-tetramethyloctane	62199-19-3	14.545	230.001	1,2
24996	C12H26	3,5,5-trimethylnonane	62184-25-2	14.856	225.793	1,2	25076	C12H26	2,2,6,6-tetramethyloctane	62199-20-6	14.583	227.847	1,2
24997	C12H26	3,5,6-trimethylnonane	62184-26-3	15.092	224.012	1,2	25077	C12H26	2,2,6,7-tetramethyloctane	62199-21-7	14.756	227.908	1,2
24998	C12H26	3,5,7-trimethylnonane	62184-27-4	14.983	225.823	1,2	25078	C12H26	2,2,7,7-tetramethyloctane	1071-31-4	14.470	231.438	1,2
24999	C12H26	3,6,6-trimethylnonane	62184-28-5	14.836	225.674	1,2	25079	C12H26	2,3,3,4-tetramethyloctane	62199-22-8	15.305	218.691	1,2
25000	C12H26	4,4,5-trimethylnonane	62184-29-6	15.154	221.939	1,2	25080	C12H26	2,3,3,5-tetramethyloctane	62199-23-9	15.002	222.606	1,2
25001	C12H26	4,4,6-trimethylnonane	62184-30-9	14.855	225.823	1,2	25081	C12H26	2,3,3,6-tetramethyloctane	62199-24-0	15.056	222.432	1,2
25002	C12H26	4,5,5-trimethylnonane	62184-31-0	15.152	221.997	1,2	25082	C12H26	2,3,3,7-tetramethyloctane	62199-25-1	14.997	224.189	1,2
25003	C12H26	4,5,6-trimethylnonane	62211-85-2	15.178	222.171	1,2	25083	C12H26	2,3,4,4-tetramethyloctane	62199-26-2	15.114	220.731	1,2
25004	C12H26	4-tert-butyloctane	62184-32-1	14.913	224.071	1,2	25084	C12H26	2,3,4,5-tetramethyloctane	62199-27-3	15.164	220.932	1,2
25005	C12H26	2-methyl-4-propyloctane	62184-33-2	14.867	227.391	1,2	25085	C12H26	2,3,4,6-tetramethyloctane	62199-28-4	15.054	222.752	1,2
25006	C12H26	2-methyl-5-propyloctane	62184-34-3	14.856	227.725	1,2	25086	C12H26	2,3,4,7-tetramethyloctane	62199-29-5	14.970	224.514	1,2
25007	C12H26	3-methyl-4-propyloctane	62184-35-4	15.137	223.629	1,2	25087	C12H26	2,3,5,5-tetramethyloctane	62199-30-8	14.961	224.573	1,2
25008	C12H26	3-methyl-5-propyloctane	62184-36-5	15.100	222.577	1,2	25088	C12H26	2,3,5,6-tetramethyloctane	62199-31-9	15.055	222.723	1,2
25009	C12H26	4-methyl-4-propyloctane	17312-41-3	15.061	223.512	1,2	25089	C12H26	2,3,5,7-tetramethyloctane	62199-32-0	14.809	226.484	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
25090	C12H26	2,3,6,6-tetramethyloctane	62199-33-1	14.922	224.307	1,2	25170	C12H26	2,3,4-trimethyl-5-ethylheptane	62198-56-5	15.223	219.226	1,2
25091	C12H26	2,3,6,7-tetramethyloctane	52670-34-5	15.023	224.366	1,2	25171	C12H26	2,3,5-trimethyl-3-ethylheptane	62198-57-6	15.216	218.832	1,2
25092	C12H26	2,4,4,5-tetramethyloctane	62199-34-2	14.926	222.723	1,2	25172	C12H26	2,3,5-trimethyl-4-ethylheptane	62198-58-7	15.198	219.226	1,2
25093	C12H26	2,4,4,6-tetramethyloctane	62199-35-3	14.656	226.544	1,2	25173	C12H26	2,3,5-trimethyl-5-ethylheptane	62198-59-8	15.059	220.932	1,2
25094	C12H26	2,4,4,7-tetramethyloctane	35866-96-7	14.580	228.152	1,2	25174	C12H26	2,3,6-trimethyl-3-ethylheptane	62198-60-1	15.117	220.646	1,2
25095	C12H26	2,4,5,5-tetramethyloctane	62199-36-4	14.952	222.694	1,2	25175	C12H26	2,3,6-trimethyl-4-ethylheptane	62198-61-2	14.926	222.956	1,2
25096	C12H26	2,4,5,6-tetramethyloctane	62199-37-5	15.028	222.810	1,2	25176	C12H26	2,3,6-trimethyl-5-ethylheptane	62198-62-3	14.999	222.956	1,2
25097	C12H26	2,4,5,7-tetramethyloctane	2217-17-6	14.717	226.574	1,2	25177	C12H26	2,4,4-trimethyl-3-ethylheptane	62198-63-4	15.059	220.932	1,2
25098	C12H26	2,4,6,6-tetramethyloctane	62199-38-6	14.708	226.424	1,2	25178	C12H26	2,4,4-trimethyl-5-ethylheptane	62198-64-5	15.011	220.932	1,2
25099	C12H26	2,5,5,6-tetramethyloctane	62199-39-7	15.004	222.548	1,2	25179	C12H26	2,4,5-trimethyl-3-ethylheptane	62198-65-6	15.198	219.226	1,2
25100	C12H26	2,5,6,6-tetramethyloctane	62199-40-0	15.055	222.461	1,2	25180	C12H26	2,4,5-trimethyl-4-ethylheptane	62198-66-7	15.152	218.944	1,2
25101	C12H26	3,3,4,4-tetramethyloctane	62199-41-1	15.366	216.688	1,2	25181	C12H26	2,4,5-trimethyl-5-ethylheptane	62198-67-8	15.200	218.944	1,2
25102	C12H26	3,3,4,5-tetramethyloctane	62199-42-2	15.227	218.860	1,2	25182	C12H26	2,4,6-trimethyl-3-ethylheptane	62198-68-9	14.950	222.956	1,2
25103	C12H26	3,3,4,6-tetramethyloctane	62199-43-3	15.115	220.703	1,2	25183	C12H26	2,4,6-trimethyl-4-ethylheptane	62198-69-0	14.715	224.721	1,2
25104	C12H26	3,3,5,5-tetramethyloctane	62199-44-4	15.102	220.846	1,2	25184	C12H26	2,5,5-trimethyl-3-ethylheptane	62198-70-3	14.895	222.956	1,2
25105	C12H26	3,3,5,6-tetramethyloctane	62199-45-5	14.977	222.665	1,2	25185	C12H26	2,5,5-trimethyl-4-ethylheptane	62198-71-4	15.011	220.932	1,2
25106	C12H26	3,3,6,6-tetramethyloctane	62199-46-6	14.797	224.721	1,2	25186	C12H26	3,3,4-trimethyl-4-ethylheptane	62198-72-5	15.564	213.190	1,2
25107	C12H26	3,4,4,5-tetramethyloctane	62199-47-7	15.364	216.992	1,2	25187	C12H26	3,3,4-trimethyl-5-ethylheptane	62198-73-6	15.316	216.992	1,2
25108	C12H26	3,4,4,6-tetramethyloctane	62185-19-7	15.088	220.789	1,2	25188	C12H26	3,3,5-trimethyl-4-ethylheptane	62198-74-7	15.258	217.268	1,2
25109	C12H26	3,4,5,5-tetramethyloctane	62185-20-0	15.200	218.944	1,2	25189	C12H26	3,3,5-trimethyl-5-ethylheptane	62198-75-8	15.355	216.992	1,2
25110	C12H26	3,4,5,6-tetramethyloctane	62185-21-1	15.276	219.085	1,2	25190	C12H26	3,4,4-trimethyl-3-ethylheptane	62198-76-9	15.573	212.923	1,2
25111	C12H26	4,4,5,5-tetramethyloctane	62185-22-2	15.313	216.826	1,2	25191	C12H26	3,4,4-trimethyl-5-ethylheptane	62198-77-0	15.457	215.074	1,2
25112	C12H26	2-methyl-4-tert-butylheptane	62185-23-3	14.715	224.721	1,2	25192	C12H26	3,4,5-trimethyl-3-ethylheptane	62198-78-1	15.457	215.074	1,2
25113	C12H26	3-methyl-4-tert-butylheptane	62185-24-4	14.953	221.219	1,2	25193	C12H26	3,4,5-trimethyl-4-ethylheptane	62198-79-2	15.588	213.457	1,2
25114	C12H26	4-methyl-4-tert-butylheptane	62185-25-5	15.259	216.992	1,2	25194	C12H26	2,2,3,3,4-pentamethylheptane	62198-80-5	15.332	215.346	1,2
25115	C12H26	3-ethyl-4-propylheptane	62185-26-6	15.175	221.795	1,2	25195	C12H26	2,2,3,3,5-pentamethylheptane	62198-81-6	15.053	219.226	1,2
25116	C12H26	4-ethyl-4-propylheptane	17312-43-5	15.207	220.646	1,2	25196	C12H26	2,2,3,3,6-pentamethylheptane	62198-82-7	14.971	220.932	1,2
25117	C12H26	3-ethyl-4-isopropylheptane	62185-27-7	15.158	220.646	1,2	25197	C12H26	2,2,3,4,4-pentamethylheptane	62198-83-8	15.370	215.618	1,2
25118	C12H26	4-ethyl-4-isopropylheptane	62185-28-8	15.384	216.716	1,2	25198	C12H26	2,2,3,4,5-pentamethylheptane	62198-84-9	15.075	219.508	1,2
25119	C12H26	2,2-dimethyl-4-propylheptane	---	14.615	228.030	1,2	25199	C12H26	2,2,3,4,6-pentamethylheptane	62198-85-0	14.805	223.248	1,2
25120	C12H26	2,3-dimethyl-4-propylheptane	62185-30-2	15.075	222.374	1,2	25200	C12H26	2,2,3,5,5-pentamethylheptane	62198-86-1	14.759	222.956	1,2
25121	C12H26	2,4-dimethyl-4-propylheptane	62185-31-3	14.863	224.130	1,2	25201	C12H26	2,2,3,5,6-pentamethylheptane	62198-87-2	14.824	223.248	1,2
25122	C12H26	2,5-dimethyl-4-propylheptane	62185-32-4	14.909	224.425	1,2	25202	C12H26	2,2,3,6,6-pentamethylheptane	62198-88-3	14.585	226.815	1,2
25123	C12H26	2,6-dimethyl-4-propylheptane	62185-33-5	14.621	229.258	1,2	25203	C12H26	2,2,4,4,5-pentamethylheptane	62199-61-5	15.091	219.508	1,2
25124	C12H26	3,3-dimethyl-4-propylheptane	62185-34-6	15.160	220.360	1,2	25204	C12H26	2,2,4,4,6-pentamethylheptane	62199-62-6	14.654	225.137	1,2
25125	C12H26	3,4-dimethyl-4-propylheptane	62185-35-7	15.277	218.383	1,2	25205	C12H26	2,2,4,5,5-pentamethylheptane	62199-63-7	14.726	223.248	1,2
25126	C12H26	3,5-dimethyl-4-propylheptane	62185-36-8	15.182	220.646	1,2	25206	C12H26	2,2,4,5,6-pentamethylheptane	62199-64-8	14.665	225.315	1,2
25127	C12H26	2,2-dimethyl-3-isopropylheptane	62185-37-9	14.895	222.956	1,2	25207	C12H26	2,2,4,6,6-pentamethylheptane	13475-82-6	14.324	229.752	1,2
25128	C12H26	2,2-dimethyl-4-isopropylheptane	62185-38-0	14.575	226.815	1,2	25208	C12H26	2,2,5,5,6-pentamethylheptane	62199-65-9	14.677	224.721	1,2
25129	C12H26	2,3-dimethyl-3-isopropylheptane	62185-39-1	15.364	216.992	1,2	25209	C12H26	2,3,3,4,4-pentamethylheptane	62199-66-0	15.472	213.457	1,2
25130	C12H26	2,3-dimethyl-4-isopropylheptane	62185-40-4	15.033	221.219	1,2	25210	C12H26	2,3,3,4,5-pentamethylheptane	62199-67-1	15.356	215.618	1,2
25131	C12H26	2,4-dimethyl-3-isopropylheptane	62185-41-5	15.033	221.219	1,2	25211	C12H26	2,3,3,4,6-pentamethylheptane	62199-68-2	15.099	219.508	1,2
25132	C12H26	2,4-dimethyl-4-isopropylheptane	62185-42-6	15.011	220.932	1,2	25212	C12H26	2,3,3,5,5-pentamethylheptane	62199-69-3	15.254	217.546	1,2
25133	C12H26	2,5-dimethyl-3-isopropylheptane	62185-43-7	14.926	222.956	1,2	25213	C12H26	2,3,3,5,6-pentamethylheptane	52670-35-6	14.969	221.219	1,2
25134	C12H26	2,5-dimethyl-4-isopropylheptane	62185-44-8	14.892	223.248	1,2	25214	C12H26	2,3,4,4,5-pentamethylheptane	62199-70-6	15.356	215.618	1,2
25135	C12H26	2,6-dimethyl-3-isopropylheptane	62185-45-9	14.868	225.286	1,2	25215	C12H26	2,3,4,4,6-pentamethylheptane	62199-71-7	14.911	221.506	1,2
25136	C12H26	2,6-dimethyl-4-isopropylheptane	35866-89-8	14.629	226.815	1,2	25216	C12H26	2,3,4,5,5-pentamethylheptane	62199-72-8	15.215	217.546	1,2
25137	C12H26	3,3-dimethyl-4-isopropylheptane	62185-46-0	15.118	219.226	1,2	25217	C12H26	2,3,4,5,6-pentamethylheptane	27574-98-7	15.122	219.792	1,2
25138	C12H26	3,4-dimethyl-4-isopropylheptane	62185-47-1	15.423	215.346	1,2	25218	C12H26	2,4,4,5,5-pentamethylheptane	62199-73-9	15.169	217.268	1,2
25139	C12H26	3,5-dimethyl-4-isopropylheptane	62198-89-4	15.140	219.508	1,2	25219	C12H26	3,3,4,4,5-pentamethylheptane	62199-74-0	15.611	211.601	1,2
25140	C12H26	2-methyl-3,3-diethylheptane	62198-90-7	15.466	216.440	1,2	25220	C12H26	3,3,4,5,5-pentamethylheptane	62199-75-1	15.673	211.864	1,2
25141	C12H26	2-methyl-3,4-diethylheptane	62198-91-8	15.158	220.646	1,2	25221	C12H26	2,2-dimethyl-3-tert-butylhexane	62199-76-2	15.149	217.824	1,2
25142	C12H26	2-methyl-3,5-diethylheptane	62198-92-9	15.099	222.374	1,2	25222	C12H26	2-methyl-3-ethyl-3-isopropylhexane	62199-77-3	15.501	213.457	1,2
25143	C12H26	2-methyl-4,4-diethylheptane	62198-93-0	15.102	220.646	1,2	25223	C12H26	2-methyl-4-ethyl-3-isopropylhexane	62199-78-4	15.075	219.508	1,2
25144	C12H26	2-methyl-4,5-diethylheptane	62198-94-1	15.050	222.374	1,2	25224	C12H26	2,2,3-trimethyl-3-isopropylhexane	62199-79-5	15.414	213.725	1,2
25145	C12H26	2-methyl-5,5-diethylheptane	62198-95-2	15.218	220.076	1,2	25225	C12H26	2,2,4-trimethyl-3-isopropylhexane	62199-80-8	14.945	219.792	1,2
25146	C12H26	3-methyl-3,4-diethylheptane	62198-96-3	15.408	216.716	1,2	25226	C12H26	2,2,5-trimethyl-3-isopropylhexane	62199-81-9	14.601	223.541	1,2
25147	C12H26	3-methyl-3,5-diethylheptane	62198-97-4	15.184	220.360	1,2	25227	C12H26	2,2,5-trimethyl-4-isopropylhexane	62199-82-0	14.544	225.315	1,2
25148	C12H26	3-methyl-4,4-diethylheptane	62198-98-5	15.549	214.803	1,2	25228	C12H26	2,3,4-trimethyl-3-isopropylhexane	62199-83-1	15.588	211.864	1,2
25149	C12H26	3-methyl-4,5-diethylheptane	62198-99-6	15.299	218.663	1,2	25229	C12H26	2,3,5-trimethyl-3-isopropylhexane	62199-84-2	15.134	217.824	1,2
25150	C12H26	3-methyl-5,5-diethylheptane	62199-00-2	15.301	218.383	1,2	25230	C12H26	2,3,5-trimethyl-4-isopropylhexane	62199-85-3	14.991	220.076	1,2
25151	C12H26	4-methyl-3,3-diethylheptane	62199-01-3	15.583	214.532	1,2	25231	C12H26	2,4,4-trimethyl-3-isopropylhexane	62199-86-4	15.085	217.824	1,2
25152	C12H26	4-methyl-3,4-diethylheptane	62199-02-4	15.408	216.716	1,2	25232	C12H26	3,3,4-triethylhexane	62199-87-5	15.666	212.923	1,2
25153	C12H26	4-methyl-3,5-diethylheptane	62199-03-5	15.348	218.663	1,2	25233	C12H26	2,2-dimethyl,3,3-diethylhexane	62199-88-6	15.443	213.190	1,2
25154	C12H26	2,2,3-trimethyl-3-ethylheptane	62199-04-6	15.317	216.716	1,2	25234	C12H26	2,2-dimethyl-3,4-diethylhexane	62199-89-7	15.021	219.226	1,2
25155	C12H26	2,2,3-trimethyl-4-ethylheptane	62199-05-7	15.035	220.932	1,2	25235	C12H26	2,2-dimethyl-4,4-diethylhexane	62184-89-8	15.298	217.268	1,2
25156	C12H26	2,2,3-trimethyl-5-ethylheptane	62199-06-8	14.952	222.665	1,2	25236	C12H26	2,3-dimethyl-3,4-diethylhexane	62184-90-1	15.564	213.457	1,2
25157	C12H26	2,2,4-trimethyl-3-ethylheptane	62199-07-9	15.011	220.932	1,2	25237	C12H26	2,3-dimethyl-4,4-diethylhexane	62184-91-2	15.564	213.457	1,2
25158	C12H26	2,2,4-trimethyl-4-ethylheptane	62199-08-0	15.027	220.932	1,2	25238	C12H26	2,4-dimethyl-3,3-diethylhexane	62184-92-3	15.535	211.601	1,2
25159	C12H26	2,2,4-trimethyl-5-ethylheptane	62199-09-1	14.764	224.721	1,2	25239	C12H26	2,4-dimethyl-3,4-diethylhexane	62184-93-4	15.399	215.346	1,2
25160	C12H26	2,2,5-trimethyl-3-ethylheptane	62199-10-4	14.904	222.665	1,2	25240	C12H26	2,5-dimethyl-3,3-diethylhexane	62184-94-5	15.088	217.268	1,2
25161	C12H26	2,2,5-trimethyl-4-ethylheptane	62199-11-5	14.740	224.721	1,2	25241	C12H26	2,5-dimethyl-3,4-diethylhexane	62184-95-6	15.043	219.508	1,2
25162	C12H26	2,2,5-trimethyl-5-ethylheptane	62199-12-6	14.790	224.425	1,2	25242	C12H26	3,3-dimethyl-4,4-diethylhexane	62184-96-7	15.830	209.261	1,2
25163	C12H26	2,2,6-trimethyl-3-ethylheptane	62199-13-7	14.846	224.425	1,2	25243	C12H26	3,4-dimethyl-3,4-diethylhexane	62184-97-8	15.830	209.261	1,2
25164	C12H26	2,2,6-trimethyl-4-ethylheptane	62199-14-8	14.468	228.642	1,2	25244	C12H26	2,2,3,3-tetramethyl-4-ethylhexane	62184-98-9	15.414	213.725	1,2
25165	C12H26	2,2,6-trimethyl-5-ethylheptane	62199-15-9	14.705	226.514	1,2	25245	C12H26	2,2,3,4-tetramethyl-3-ethylhexane	62184-99-0	15.554	211.864	1,2
25166	C12H26	2,3,3-trimethyl-4-ethylheptane	62199-16-0	15.316	216.992	1,2	25246	C12H26	2,2,3,4-tetramethyl-4-ethylhexane	62185-00-6	15.650	211.864	1,2
25167	C12H26	2,3,3-trimethyl-5-ethylheptane	62199-17-1	15.059	220.932	1,2	25247	C12H26	2,2,3,5-tetramethyl-3-ethylhexane	62185-01-7	15.111	217.546	1,2
25168	C12H26	2,3,4-trimethyl-3-ethylheptane	62199-18-2	15.481	215.074	1,2	25248	C12H26	2,2,3,5-tetramethyl-4-ethylhexane	62185-02-8	14.993	219.792	1,2
25169	C12H26	2,3,4-trimethyl-4-ethylheptane	62198-55-4	15.282	217.268	1,2	25249	C12H26	2,2,4,4-tetramethyl-3-ethylhexane	62185-03-9	15.381	213.993	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
25250	C12H26	2,2,4,5-tetramethyl-3-ethylhexane	62185-04-0	14.969	219.792	1,2	25920	C13H14	2-methyl-8-ethylnaphthalene	---	18.213	177.027	2
25251	C12H26	2,2,4,5-tetramethyl-4-ethylhexane	62185-05-1	15.173	217.824	1,2	25921	C13H14	1,2,3-trimethylnaphthalene	879-12-9	19.148	172.066	2
25252	C12H26	2,2,5,5-tetramethyl-3-ethylhexane	62185-06-2	14.514	225.315	1,2	25922	C13H14	1,2,4-trimethylnaphthalene	2717-42-2	18.736	175.117	2
25253	C12H26	2,3,3,4-tetramethyl-4-ethylhexane	62185-07-3	15.727	209.776	1,2	25923	C13H14	1,2,5-trimethylnaphthalene	641-91-8	19.144	169.944	1,2
25254	C12H26	2,3,3,5-tetramethyl-4-ethylhexane	62185-08-4	15.274	215.892	1,2	25924	C13H14	1,2,6-trimethylnaphthalene	3031-05-8	19.124	171.699	2
25255	C12H26	2,3,4,4-tetramethyl-3-ethylhexane	62185-09-5	15.727	209.776	1,2	25925	C13H14	1,2,7-trimethylnaphthalene	486-34-0	17.162	186.333	1,2
25256	C12H26	2,3,4,5-tetramethyl-3-ethylhexane	62185-10-8	15.438	213.993	1,2	25926	C13H14	1,2,8-trimethylnaphthalene	3876-97-9	17.231	188.426	2
25257	C12H26	2,2,3,3,4,4-hexamethylhexane	62185-11-9	15.983	206.221	1,2	25927	C13H14	1,3,5-trimethylnaphthalene	2131-39-7	18.895	174.318	2
25258	C12H26	2,2,3,3,4,5-hexamethylhexane	62185-12-0	15.313	214.262	1,2	25928	C13H14	1,3,6-trimethylnaphthalene	3031-08-1	18.472	176.871	2
25259	C12H26	2,2,3,3,5,5-hexamethylhexane	60302-24-1	15.050	218.103	1,2	25929	C13H14	1,3,7-trimethylnaphthalene	2131-38-6	19.234	169.745	1,2
25260	C12H26	2,2,3,4,4,5-hexamethylhexane	62185-13-1	15.548	212.392	1,2	25930	C13H14	1,3,8-trimethylnaphthalene	17057-91-9	18.875	174.570	2
25261	C12H26	2,2,3,4,5,5-hexamethylhexane	62185-14-2	14.953	218.383	1,2	25931	C13H14	1,4,5-trimethylnaphthalene	2131-41-1	18.646	176.393	2
25262	C12H26	2,3,3,4,4,5-hexamethylhexane	52670-36-7	15.625	210.294	1,2	25932	C13H14	1,4,6-trimethylnaphthalene	2131-42-2	18.422	176.903	2
25263	C12H26	2,4-dimethyl-3-ethyl-3-isopropylpentane	62185-16-4	15.694	210.294	1,2	25933	C13H14	1,6,7-trimethylnaphthalene	2245-38-7	19.124	171.699	2
25264	C12H26	2,2,4-trimethyl-3,3-diethylpentane	62185-15-3	15.670	210.035	1,2	25934	C13H14	2,3,6-trimethylnaphthalene	829-26-5	17.763	182.219	2
25265	C12H26	2,2,3,4-tetramethyl-3-isopropylpentane	62185-17-5	15.568	210.554	1,2	26158	C13H18	1-propyl-[1,2,3,4-tetrahydronaphthalene]	66324-83-2	17.862	185.308	1,2
25266	C12H26	2,2,4,4-tetramethyl-3-isopropylpentane	62185-18-6	15.107	216.716	1,2	26159	C13H18	2-propyl-[1,2,3,4-tetrahydronaphthalene]	66324-84-3	17.864	187.525	1,2
25267	C12H26	2,2,3,4,4-pentamethyl-3-ethylpentane	66576-21-4	15.964	205.475	1,2	26160	C13H18	1,2,3,4-tetrahydro-1,1,6-trimethylnaphthalene	475-03-6	16.521	188.035	1,2
25268	C12H26	2-methylundecane	7045-71-8	15.538	221.990	2	26161	C13H18	2,3-dihydro-1,1,4,7-tetramethyl-1H-indene	1078-04-2	17.636	186.602	1,2
25277	C12H26O	1-dodecanol	112-53-8	19.757	224.503	1,2	26162	C13H18	2,3-dihydro-1,1,4,6-tetramethyl-1H-indene	941-60-6	17.623	186.864	2
25278	C12H26O	2-dodecanol	10203-28-8	16.392	225.837	1,2	26163	C13H18	1,2,3,4-tetrahydro-2,5,8-trimethylnaphthalene	30316-17-7	17.623	186.864	2
25279	C12H26O	3-dodecanol	10203-30-2	15.900	225.356	1,2	26283	C13H20	heptylbenzene	1078-71-3	17.416	206.684	1,2
25280	C12H26O	6-dodecanol	6836-38-0	14.397	225.400	1,2	26284	C13H20	1-methyl-2,4-diisopropylbenzene	1460-98-6	15.425	204.858	1,2
25281	C12H26O	2-methyl-1-undecanol	10522-26-6	15.868	226.252	1,2	26285	C13H20	1-methyl-3,5-diisopropylbenzene	3055-14-9	14.874	204.199	1,2
25282	C12H26O	2-methyl-3-undecanol	60671-36-5	15.924	224.654	1,2	26286	C13H20	[2-methyl-1-isopropylpropyl]benzene	21777-84-4	15.265	202.248	1,2
25283	C12H26O	2-methyl-5-undecanol	33978-71-1	15.841	227.018	1,2	26288	C13H20	(2,4-dimethylpentyl)benzene	54518-00-2	14.985	206.314	2
25284	C12H26O	2-butyl-1-octanol	3913-02-8	16.720	210.003	1,2	26315	C13H20O	4-heptylphenol	1987-50-4	10.881	205.179	2
25285	C12H26O	dihexyl ether	112-58-3	16.471	235.871	1,2	26318	C13H20O	2-sec-butyl-6-isopropylphenol	74926-97-9	13.416	205.179	2
25286	C12H26O	2,6,8-trimethylnonanol-4	123-17-1	14.389	227.519	1,2	26319	C13H20O	o-heptylphenol	5284-22-0	10.677	205.178	2
25287	C12H26O2	1,2-dodecanediol	1119-87-5	17.436	240.418	2	26344	C13H21N	4-heptylaniline	37529-27-4	18.038	210.238	1,2
25288	C12H26O2	1,3-dodecanediol	39516-24-0	17.736	239.620	2	26402	C13H24	1-tridecyne	26186-02-7	16.159	230.901	1,2
25289	C12H26O2	1,4-dodecanediol	38146-95-1	18.376	237.331	2	26403	C13H24	2-tridecyne	28467-75-6	15.704	227.397	2
25290	C12H26O2	1,12-dodecanediol	5675-51-4	17.581	243.633	2	26404	C13H24	3-tridecyne	60186-78-9	15.534	227.617	2
25291	C12H26O2	(R)-1,2-dodecanediol	85514-84-7	17.757	240.532	2	26405	C13H24	dicyclohexylmethane	3178-23-2	16.771	206.568	1,2
25292	C12H26O2	(S)-1,2-dodecanediol	85514-85-8	17.634	241.948	2	26406	C13H24	1-octylcyclopentene	52315-44-3	16.158	220.241	1,2
25294	C12H26O3	diethylene glycol dibutyl ether	112-73-2	16.865	247.828	1,2	26420	C13H24O2	ethyl 10-undecenoate	692-86-4	16.147	242.325	1,2
25310	C12H26S	1-dodecanethiol	112-55-0	16.535	240.385	1,2	26421	C13H24O2	methyl 11-dodecenoate	29972-79-0	16.154	242.126	1,2
25311	C12H26S	2-dodecanethiol	14402-50-7	16.144	241.937	1,2	26422	C13H24O2	isodecyl acrylate	1330-61-6	16.198	240.817	1,2
25312	C12H26S	dihexyl sulfide	6294-31-1	17.270	240.385	1,2	26423	C13H24O2	2-tridecenoic acid	6969-16-0	16.461	236.965	1,2
25313	C12H26S	methyl undecyl sulfide	7289-44-3	17.270	240.385	1,2	26424	C13H24O2	12-tridecenoic acid	6006-06-0	16.206	243.939	2
25314	C12H26S	ethyl decyl sulfide	19313-61-2	17.270	240.385	1,2	26426	C13H24O2	citronellyl propionate	76444-23-0	16.159	241.967	2
25315	C12H26S	propyl nonyl sulfide	62103-66-6	17.270	240.385	1,2	26427	C13H24O2	decyl acrylate	2156-96-9	16.159	241.967	2
25316	C12H26S	butyl octyl sulfide	16900-07-5	17.270	240.385	1,2	26428	C13H24O2	undecenyl acetate	112-19-6	16.159	241.967	2
25317	C12H26S	tert-dodecylmercaptan	25103-58-6	15.383	236.730	1,2	26439	C13H25Br	cis-1-bromo-1-tridecene	66324-50-3	16.136	253.883	1,2
25318	C12H26S2	dihexyl disulfide	10496-15-8	17.044	258.227	1,2	26440	C13H25Br	trans-1-bromo-1-tridecene	66324-51-4	16.136	253.883	1,2
25327	C12H27BO3	tributyl borate	688-74-4	12.852	269.503	1,2	26442	C13H25Br3	1,1,1-tribromotridecane	62127-70-2	15.164	310.551	2
25340	C12H27N	dodecylamine	124-22-1	17.032	232.807	1,2	26443	C13H25Cl	cis-1-chloro-1-tridecene	66324-52-5	16.383	247.765	1,2
25341	C12H27N	methylundecylamine	66553-53-5	16.027	234.654	1,2	26444	C13H25Cl	trans-1-chloro-1-tridecene	66324-53-6	16.383	247.765	1,2
25342	C12H27N	ethyldecylamine	66553-52-4	15.932	235.699	1,2	26445	C13H25Cl3	1,1,1-trichlorotridecane	3922-24-5	15.807	283.009	2
25343	C12H27N	dihexylamine	143-16-8	15.870	236.059	1,2	26446	C13H25F	cis-1-fluoro-1-tridecene	66324-54-7	15.463	240.216	1,2
25344	C12H27N	dimethyldecylamine	1120-24-7	15.524	239.166	1,2	26447	C13H25F	trans-1-fluoro-1-tridecene	66324-55-8	15.463	240.216	1,2
25345	C12H27N	diethyloctylamine	4088-37-3	15.154	238.243	1,2	26448	C13H25F3	1,1,1-trifluorotridecane	62126-98-1	14.379	263.886	2
25346	C12H27N	tributylamine	102-82-9	16.013	239.166	1,2	26449	C13H25I	cis-1-iodo-1-tridecene	66324-56-9	16.315	261.891	1,2
25347	C12H27N	triisobutylamine	1116-40-1	12.739	242.237	1,2	26450	C13H25I	trans-1-iodo-1-tridecene	66324-57-0	16.315	261.891	1,2
25348	C12H27NO	N,N-diisopentylethanolamine	3574-43-4	15.107	237.822	1,2	26451	C13H25I3	1,1,1-triiodotridecane	---	17.128	329.266	2
25575	C13H10	fluorene	86-73-7	20.332	145.348	1,2	26452	C13H25N	tridecanenitrile	629-60-7	17.149	237.564	1,2
25623	C13H10O	benzophenone	119-61-9	19.781	165.913	2	26465	C13H26	octylcyclopentane	1795-20-6	16.040	227.652	1,2
25738	C13H12	diphenylmethane	101-81-5	19.410	167.978	1,2	26466	C13H26	heptylcyclohexane	5617-41-4	15.968	225.960	1,2
25739	C13H12	1-methylbiphenyl	28652-72-4	18.537	167.019	1,2	26467	C13H26	2-butyl-1,1,3-trimethylcyclohexane	54676-39-0	16.024	220.962	1,2
25740	C13H12	3-methylbiphenyl	643-93-6	18.978	166.688	1,2	26468	C13H26	cyclotridecane	295-02-3	16.542	212.281	1,2
25741	C13H12	4-methylbiphenyl	644-08-6	18.649	168.180	1,2	26469	C13H26	1-tridecene	2437-56-1	15.785	239.304	1,2
25742	C13H12	2-methylbiphenyl	643-58-3	18.509	166.912	1,2	26470	C13H26	2-methyl-1-dodecene	16435-49-7	15.532	238.334	1,2
25745	C13H12	methylbiphenyl	28652-72-4	19.254	165.300	2	26471	C13H26	5-butyl-4-nonene	7367-38-6	15.038	236.471	1,2
25903	C13H14	1-propylnaphthalene	2765-18-6	19.510	172.497	1,2	26472	C13H26Br2	1,1-dibromotridecane	62168-30-3	16.106	277.896	2
25904	C13H14	2-propylnaphthalene	2027-19-2	19.387	174.979	1,2	26473	C13H26Br2	1,13-dibromotridecane	31772-05-1	16.678	270.033	1,2
25905	C13H14	1-isopropylnaphthalene	6158-45-8	18.774	171.610	1,2	26474	C13H26Cl2	1,1-dichlorotridecane	821-93-2	16.207	267.994	1,2
25906	C13H14	2-isopropylnaphthalene	2027-17-0	18.599	175.033	1,2	26475	C13H26F2	1,1-difluorotridecane	62127-02-0	15.335	250.394	1,2
25907	C13H14	1-methyl-2-ethylnaphthalene	25607-16-3	18.364	176.925	2	26476	C13H26I2	1,1-diiodotridecane	66324-43-4	17.158	293.372	2
25908	C13H14	1-methyl-3-ethylnaphthalene	17179-41-8	18.289	176.976	2	26486	C13H26O	1-tridecanal	10486-19-8	17.508	239.841	1,2
25909	C13H14	1-methyl-4-ethylnaphthalene	27424-87-9	18.314	176.959	2	26487	C13H26O	2-tridecanone	593-08-8	16.197	240.895	1,2
25910	C13H14	1-methyl-5-ethylnaphthalene	17057-92-0	18.630	173.642	2	26488	C13H26O	3-tridecanone	1534-26-5	16.449	235.535	2
25911	C13H14	1-methyl-6-ethylnaphthalene	17059-53-9	18.289	176.976	2	26489	C13H26O	7-tridecanone	462-18-0	16.087	241.018	1,2
25912	C13H14	1-methyl-7-ethylnaphthalene	2451-00-5	17.687	181.647	2	26492	C13H26O2	tridecanoic acid	638-53-9	17.249	245.845	1,2
25913	C13H14	1-methyl-8-ethylnaphthalene	61886-71-3	18.339	176.942	2	26493	C13H26O2	2-methyldodecanoic acid	2874-74-0	16.024	242.104	1,2
25914	C13H14	2-methyl-1-ethylnaphthalene	---	18.289	176.976	2	26494	C13H26O2	dodecyl formate	28303-42-6	16.699	244.913	2
25915	C13H14	2-methyl-3-ethylnaphthalene	31032-94-7	18.855	177.736	2	26495	C13H26O2	undecyl acetate	1731-81-3	16.800	244.909	2
25916	C13H14	2-methyl-4-ethylnaphthalene	17057-94-2	18.314	176.959	2	26496	C13H26O2	decyl propanoate	5454-19-3	16.643	249.532	1,2
25917	C13H14	2-methyl-5-ethylnaphthalene	---	18.213	177.027	2	26497	C13H26O2	nonyl butanoate	2639-64-7	15.918	249.649	1,2
25918	C13H14	2-methyl-6-ethylnaphthalene	7372-86-3	19.132	174.304	2	26498	C13H26O2	octyl pentanoate	5451-85-4	16.191	249.854	1,2
25919	C13H14	2-methyl-7-ethylnaphthalene	17059-55-1	19.132	174.304	2	26499	C13H26O2	heptyl hexanoate	6976-72-3	16.164	249.970	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
26500	C13H26O2	hexyl heptanoate	1119-06-8	16.164	249.970	1,2	27269	C14H16	1-sec-butylnaphthalene	1680-58-6	18.503	194.290	1,2
26501	C13H26O2	pentyl octanoate	638-25-5	16.135	249.912	1,2	27270	C14H16	2-sec-butylnaphthalene	4614-03-3	18.520	192.865	2
26502	C13H26O2	butyl nonanoate	50623-57-9	16.535	251.878	1,2	27271	C14H16	1-isobutylnaphthalene	16727-91-6	18.205	190.373	1,2
26503	C13H26O2	propyl decanoate	30673-60-0	16.494	249.623	1,2	27272	C14H16	2-isobutylnaphthalene	26490-07-3	18.520	192.865	2
26504	C13H26O2	isopropyl decanoate	2311-59-3	16.418	251.952	1,2	27273	C14H16	1-tert-butylnaphthalene	17085-91-5	18.284	186.368	1,2
26505	C13H26O2	methyl dodecanoate	111-82-0	18.826	206.302	1,2	27274	C14H16	2-tert-butylnaphthalene	2876-35-9	18.101	191.004	1,2
26506	C13H26O2	ethyl undecanoate	627-90-7	16.504	249.335	1,2	27275	C14H16	1-methyl-2-propylnaphthalene	39036-65-2	18.566	192.963	2
26507	C13H26O2	isoamyl caprylate	2035-99-6	16.652	244.903	2	27276	C14H16	2-methyl-1-propylnaphthalene	54774-89-9	18.566	192.963	2
26514	C13H26S	thiacyclotetradecane	295-20-5	16.118	245.953	2	27277	C14H16	3-methyl-2-propylnaphthalene	66577-19-3	18.566	192.963	2
26515	C13H27Br	1-bromotridecane	765-09-3	16.375	257.242	1,2	27278	C14H16	2-methyl-1-isopropylnaphthalene	32114-79-7	18.527	192.874	2
26516	C13H27Cl	1-chlorotridecane	822-13-9	16.231	253.634	1,2	27279	C14H16	3-methyl-2-isopropylnaphthalene	66577-18-2	18.527	192.874	2
26517	C13H27F	1-fluorotridecane	1536-21-6	15.673	245.876	1,2	27280	C14H16	1-methyl-3-isopropylnaphthalene	66577-16-0	18.527	192.874	2
26518	C13H27I	1-iodotridecane	35599-77-0	16.872	264.480	1,2	27281	C14H16	1-methyl-4-isopropylnaphthalene	1680-53-1	18.600	191.366	1,2
26522	C13H27NO2	1-nitrotridecane	26817-31-2	15.882	267.041	2	27282	C14H16	1-methyl-6-isopropylnaphthalene	10136-83-1	18.527	192.874	2
26526	C13H28	tridecane	629-50-5	15.897	244.516	1,2	27283	C14H16	1-methyl-7-isopropylnaphthalene	490-65-3	17.726	194.828	1,2
26527	C13H28	2-methyldodecane	1560-97-0	15.286	245.886	1,2	27284	C14H16	2-methyl-8-isopropylnaphthalene	---	17.818	193.316	2
26528	C13H28	3-methyldodecane	17312-57-1	15.370	243.773	1,2	27285	C14H16	1,2-diethylnaphthalene	19182-11-7	18.566	192.963	2
26529	C13H28	2,2-dimethylundecane	17312-64-0	15.018	246.313	1,2	27286	C14H16	1,4-diethylnaphthalene	37796-58-0	19.199	186.331	1,2
26530	C13H28	2,3-dimethylundecane	17312-77-5	15.373	241.000	1,2	27287	C14H16	1,6-diethylnaphthalene	19182-13-9	18.566	192.963	2
26531	C13H28	2,4-dimethylundecane	17312-80-0	14.993	244.516	1,2	27288	C14H16	1,7-diethylnaphthalene	66577-37-5	18.566	192.963	2
26532	C13H28	5-butylnonane	17312-63-9	14.971	242.958	1,2	27289	C14H16	2,3-diethylnaphthalene	66610-91-1	18.566	192.963	2
26535	C13H28O	1-tridecanol	112-70-9	18.831	243.591	1,2	27289.1	C14H16	2,6-diethylnaphthalene	59919-41-4	18.745	187.713	2
26536	C13H28O	2-tridecanol	1653-31-2	16.242	242.367	1,2	27290	C14H16	2,4-dimethyl-1-ethylnaphthalene	66577-14-8	18.573	192.972	2
26537	C13H28O	3-tridecanol	10289-68-6	15.745	243.495	1,2	27291	C14H16	4,6-dimethyl-1-ethylnaphthalene	66577-15-9	18.573	192.972	2
26538	C13H28O	5-butyl-5-nonanol	597-93-3	15.945	239.221	1,2	27292	C14H16	2,5-dimethyl-3-ethylnaphthalene	---	18.573	192.972	2
26539	C13H28O2	1,2-tridecanediol	---	17.078	258.820	2	27293	C14H16	1,2-dimethyl-4-ethylnaphthalene	66577-38-6	18.573	192.972	2
26540	C13H28O2	1,3-tridecanediol	---	17.319	258.540	2	27294	C14H16	1,3-dimethyl-5-ethylnaphthalene	66577-40-0	19.028	189.007	2
26541	C13H28O2	1,4-tridecanediol	61828-34-0	18.126	253.724	2	27295	C14H16	1,4-dimethyl-5-ethylnaphthalene	66309-90-8	19.103	188.368	2
26542	C13H28O2	1,13-tridecanediol	13362-52-2	17.391	259.912	2	27296	C14H16	1,3-dimethyl-6-ethylnaphthalene	39622-45-2	18.573	192.972	2
26543	C13H28O2	1,12-tridecanediol	99706-68-0	17.560	256.708	2	27297	C14H16	1,4-dimethyl-6-ethylnaphthalene	66610-92-2	18.573	192.972	2
26549	C13H28S	1-tridecanethiol	19484-26-5	16.885	257.044	1,2	27298	C14H16	1,2-dimethyl-7-ethylnaphthalene	66577-39-7	18.573	192.972	2
26550	C13H28S	2-tridecanethiol	62155-03-7	16.047	258.456	1,2	27299	C14H16	1,2,3,4-tetramethylnaphthalene	3031-15-0	17.850	199.654	2
26551	C13H28S	methyl dodecyl sulfide	---	17.240	257.044	1,2	27300	C14H16	1,2,3,6-tetramethylnaphthalene	66577-20-6	18.595	192.859	2
26552	C13H28S	ethyl undecyl sulfide	66577-30-8	17.240	257.044	1,2	27301	C14H16	1,2,4,6-tetramethylnaphthalene	66577-21-7	18.825	190.838	2
26553	C13H28S	propyl decyl sulfide	66577-31-9	17.240	257.044	1,2	27302	C14H16	1,2,4,7-tetramethylnaphthalene	16020-17-0	19.399	182.818	1,2
26554	C13H28S	butyl nonyl sulfide	66577-32-0	17.240	257.044	1,2	27303	C14H16	1,2,4,8-tetramethylnaphthalene	66577-22-8	18.641	192.450	2
26555	C13H29N	tridecylamine	2869-34-3	16.410	248.859	1,2	27304	C14H16	1,2,5,6-tetramethylnaphthalene	2131-43-3	17.720	200.888	2
26556	C13H29N	methyldodecylamine	7311-30-0	15.945	251.109	1,2	27305	C14H16	1,2,5,8-tetramethylnaphthalene	3031-16-1	18.581	192.981	2
26557	C13H29N	ethylundecylamine	59570-04-6	15.885	252.061	1,2	27306	C14H16	1,2,6,8-tetramethylnaphthalene	66577-00-2	18.581	192.981	2
26558	C13H29N	dimethylundecylamine	17373-28-3	15.471	255.754	1,2	27307	C14H16	1,3,5,8-tetramethylnaphthalene	14558-12-4	18.641	192.450	2
26559	C13H29N	diethylnonylamine	45124-35-4	15.124	254.866	1,2	27308	C14H16	1,3,6,7-tetramethylnaphthalene	7435-50-9	18.809	190.970	2
26560	C13H29N	6-methyl-N-isopentyl-2-heptanamine	502-59-0	15.448	252.250	2	27309	C14H16	1,4,5,8-tetramethylnaphthalene	2717-39-7	17.438	203.591	2
26561	C13H29N	tert-amyl-tert-octylamine	150285-07-7	12.140	246.758	1,2	27310	C14H16	1,4,6,7-tetramethylnaphthalene	13764-18-6	18.533	193.410	2
26562	C13H29N	N-methyldihexylamine	37615-53-5	15.282	257.473	1,2	27311	C14H16	2,3,6,7-tetramethylnaphthalene	1134-40-3	16.395	214.168	2
26654	C14H8O2	anthraquinone	84-65-1	19.227	177.047	1,2	27313	C14H16	7-methyl-1-isopropylnaphthalene	66577-17-1	16.977	191.901	1,2
26728	C14H10	anthracene	120-12-7	19.173	157.788	1,2	27314	C14H16	1,3,6,8-tetramethylnaphthalene	14558-14-6	17.909	196.483	2
26729	C14H10	diphenylacetylene	501-65-5	18.657	179.616	1,2	27506.1	C14H18O8	di-1-glyceryl terephthalate	66032-51-76	24.263	329.355	2
26730	C14H10	phenanthrene	85-01-8	18.783	190.721	1,2	27560	C14H20	1-butyl-[1,2,3,4-tetrahydronaphthalene]	38857-76-0	17.578	202.335	1,2
26866	C14H12	cis-stilbene	645-49-8	18.964	178.288	1,2	27561	C14H20	2-butyl-[1,2,3,4-tetrahydronaphthalene]	36230-28-1	17.631	203.890	1,2
26867	C14H12	trans-stilbene	103-30-0	18.180	199.014	1,2	27562	C14H20	1,2,3,4-tetrahydro-1,1,2,6-tetramethylnaphth*	1681-22-7	17.538	202.528	1,2
26868	C14H12	1,1-diphenylethene	530-48-3	18.653	176.663	1,2	27565	C14H20	5-butyl-1,2,3,4-tetrahydronaphthalene	66325-42-6	17.822	201.401	2
26873	C14H12	stilbene	588-59-0	17.656	199.395	1,2	27566	C14H20	1,2,3,4-tetrahydro-5-isobutylnaphthalene	5458-54-8	17.492	201.401	2
26942	C14H12O2	benzyl benzoate	120-51-4	20.450	190.357	1,2	27566.1	C14H20	diamantane	2292-79-7	11.624	263.946	2
26987.1	C14H12O4	dimethyl-2,6-naphthalenedicarboxylate	840-65-3	17.890	241.547	1,2	27644	C14H22	octylbenzene	2189-60-8	17.296	223.129	1,2
27052	C14H14	1,1-diphenylethane	612-00-0	18.873	182.997	1,2	27645	C14H22	1,2,3,4-tetraethylbenzene	642-32-0	17.197	215.548	1,2
27053	C14H14	1,2-diphenylethane	103-29-7	18.262	189.931	1,2	27646	C14H22	1,2,3,5-tetraethylbenzene	38842-05-6	17.138	216.775	1,2
27054	C14H14	2-methyldiphenylmethane	713-36-0	18.525	182.594	1,2	27647	C14H22	1,2,4,5-tetraethylbenzene	635-81-4	17.098	217.518	1,2
27055	C14H14	3-methyldiphenylmethane	620-47-3	18.397	184.554	1,2	27648	C14H22	1,4-di-tert-butylbenzene	1012-72-2	16.158	203.890	1,2
27056	C14H14	4-methyldiphenylmethane	620-83-7	18.422	185.304	1,2	27649	C14H22	(1-methylheptyl)benzene	777-22-0	16.518	219.146	1,2
27057	C14H14	2,2'-dimethylbiphenyl	605-39-0	17.877	183.550	1,2	27650	C14H22	1,3-di-tert-butylbenzene	1014-60-4	16.427	221.570	1,2
27058	C14H14	2,3'-trimethylbiphenyl	611-43-8	17.871	187.430	1,2	27679	C14H22O	p-tert-octylphenol	140-66-9	17.264	230.661	2
27059	C14H14	2,4'-dimethlbiphenyl	611-61-0	17.826	187.379	1,2	27680	C14H22O	2,4-di-tert-butylphenol	96-76-4	16.019	225.455	2
27060	C14H14	3,3'-dimethylbiphenyl	612-75-9	18.560	183.717	1,2	27681	C14H22O	2,6-di-sec-butylphenol	5510-99-6	15.591	220.338	2
27061	C14H14	3,4'-dimethylbiphenyl	7383-90-6	18.383	183.365	1,2	27682	C14H22O	2,6-di-tert-butylphenol	128-39-2	15.197	222.566	2
27062	C14H14	4,4'-dimethylbiphenyl	613-33-2	17.083	198.762	1,2	27687	C14H22O	4-octylphenol	1806-26-4	9.892	217.569	1,2
27063	C14H14	2-ethylbiphenyl	1812-51-7	18.027	183.605	1,2	27688	C14H22O	tert-octylphenol	27193-28-8	16.383	227.212	1,2
27064	C14H14	3-ethylbiphenyl	5668-93-9	18.550	183.126	1,2	27689	C14H22O	3,5-bis(1,1-dimethylethyl)phenol	1138-52-9	14.520	230.971	2
27065	C14H14	4-ethylbiphenyl	5707-44-8	18.066	186.338	2	27691	C14H22O	2-isopropyl-6-(1-methylbutyl)phenol	74926-98-0	15.062	224.200	2
27066	C14H14	2,3-dimethylbiphenyl	3864-18-4	18.002	185.720	2	27724	C14H23N	2,6-diisopropyl-N,N-dimethylaniline	2909-77-5	16.465	235.216	1,2
27067	C14H14	3,4-dimethylbiphenyl	4433-11-8	18.440	181.852	1,2	27725	C14H23N	N-(2-ethylhexyl)aniline	10137-80-1	16.828	225.157	1,2
27068	C14H14	2,6-dimethylbiphenyl	3976-34-9	17.947	184.627	1,2	27772	C14H24S	3-decylthiophene	65016-55-9	16.459	246.064	1,2
27069	C14H14	1,3-dimethyl-4-phenyl benzene	---	17.760	186.713	2	27777	C14H26	1,1-dicyclohexylethane	2319-61-1	16.808	218.456	1,2
27070	C14H14	1,3-dimethyl-5-phenyl benzene	---	17.915	186.703	2	27778	C14H26	1,2-dicyclohexylethane	3321-50-4	16.685	222.840	1,2
27071	C14H14	1,4-dimethyl-2-phenyl benzene	---	17.579	186.643	2	27779	C14H26	1-nonylcyclopentene	62184-74-1	16.052	236.679	1,2
27072	C14H14	2,5-dimethylbiphenyl	7372-85-2	18.708	184.524	1,2	27780	C14H26	1-tetradecyne	765-10-6	15.833	246.838	1,2
27073	C14H14	2,4-dimethylbiphenyl	4433-10-7	17.918	193.465	1,2	27781	C14H26	3-tetradecyne	60212-32-0	15.405	242.468	2
27074	C14H14	3,5-dimethylbiphenyl	17057-88-4	18.654	183.066	1,2	27782	C14H26	7-tetradecyne	35216-11-6	15.803	249.543	1,2
27138	C14H14O	dibenzyl ether	103-50-4	19.665	190.273	1,2	27784	C14H26	1,13-tetradecadiene	21964-49-8	16.350	228.929	1,2
27267	C14H16	1-butylnaphthalene	1634-09-9	19.102	189.395	1,2	27797	C14H26O2	methyl 12-tridecenoate	29780-00-5	14.704	257.849	1,2
27268	C14H16	2-butylnaphthalene	1134-62-9	19.106	191.560	1,2	27798	C14H26O2	4-tetradecenoic acid	544-65-0	16.344	251.614	1,2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
27799	C14H26O2	5-tetradecenoic acid	544-66-1	16.364	251.003	1,2	27947	C14H30S	2-tetradecanethiol	62155-04-8	15.965	274.977	1,2
27800	C14H26O2	9-tetradecenoic acid	13147-06-3	16.338	251.781	1,2	27948	C14H30S	diheptyl sulfide	629-65-2	16.548	282.654	1,2
27801	C14H26O2	decyl methacrylate	3179-47-3	14.814	254.055	2	27949	C14H30S	methyl tridecyl sulfide	62155-09-3	17.208	273.379	1,2
27803	C14H26O2	isodecyl methacrylate	29964-84-9	14.705	257.812	1,2	27950	C14H30S	ethyl dodecyl sulfide	2851-83-4	17.208	273.379	1,2
27807	C14H26O2	citronellyl butyrate	141-16-2	14.814	254.055	2	27951	C14H30S	propyl undecyl sulfide	66826-84-4	17.208	273.379	1,2
27808	C14H26O2	citronellyl isobutyrate	97-89-2	14.814	254.055	2	27952	C14H30S	butyl decyl sulfide	19313-57-6	17.208	273.379	1,2
27809	C14H26O2	2,6-dimethyl-2-octen-8-yl butyrate	141-16-2	14.814	254.055	2	27953	C14H30S2	diheptyl disulfide	10496-16-9	16.886	291.694	1,2
27810	C14H26O2	cis-7-dodecenyl acetate	14959-86-5	14.814	254.055	2	27956	C14H31N	tetradecylamine	2016-42-4	16.617	268.115	1,2
27825	C14H27Br	cis-1-bromo-1-tetradecene	66827-02-9	16.262	262.251	2	27957	C14H31N	methyltridecylamine	45165-81-9	15.811	269.277	2
27826	C14H27Br	trans-1-bromo-1-tetradecene	66827-03-0	16.262	262.251	2	27958	C14H31N	ethyldodecylamine	35902-57-9	15.808	269.279	2
27828	C14H27Br3	1,1,1-tribromotetradecane	62155-25-3	14.904	330.917	2	27959	C14H31N	diheptylamine	2470-68-0	15.689	268.876	1,2
27829	C14H27Cl	cis-1-chloro-1-tetradecene	66827-04-1	16.292	264.400	1,2	27960	C14H31N	dimethyldodecylamine	112-18-5	15.474	271.995	1,2
27830	C14H27Cl	trans-1-chloro-1-tetradecene	66827-05-2	16.292	264.400	1,2	27961	C14H31N	diethyldecylamine	6308-94-7	15.091	271.165	1,2
27832	C14H27Cl3	1,1,1-trichlorotetradecane	62108-58-1	15.572	302.175	2	28029	C15H10N2O2	diphenylmethane-4,4'-diisocyanate	101-68-8	22.897	204.154	1,2
27833	C14H27F	cis-1-fluoro-1-tetradecene	66827-06-3	15.538	256.727	1,2	28135.1	C15H12	1-phenylindene	1961-96-2	21.131	180.169	2
27834	C14H27F	trans-1-fluoro-1-tetradecene	66827-07-4	15.538	256.727	1,2	28250	C15H14	1,1-diphenyl-1-propene	778-66-5	17.980	193.458	1,2
27835	C14H27F3	1,1,1-trifluorotetradecane	62126-99-2	14.194	283.533	2	28251	C15H14	1,2-diphenyl-1-propene	779-51-1	17.016	206.242	1,2
27836	C14H27I	cis-1-iodo-1-tetradecene	66827-08-5	16.441	270.581	2	28252	C15H14	1,3-diphenyl-1-propene	5209-18-7	18.670	192.632	1,2
27837	C14H27I	trans-1-iodo-1-tetradecene	66827-09-6	16.441	270.581	2	28253	C15H14	2,3-diphenyl-1-propene	948-97-0	18.642	180.119	1,2
27838	C14H27I3	1,1,1-triiodotetradecane	---	17.025	348.201	2	28379	C15H16	1,1-diphenylpropane	1530-03-6	17.887	199.727	1,2
27839	C14H27N	tetradecanenitrile	629-63-0	16.982	254.004	1,2	28380	C15H16	1,2-diphenylpropane	5814-85-7	17.760	201.615	1,2
27847	C14H28	nonylcyclopentane	2882-98-6	15.984	244.249	1,2	28381	C15H16	1,3-diphenylpropane	1081-75-0	18.157	201.078	1,2
27848	C14H28	octylcyclohexane	1795-15-9	15.931	242.440	1,2	28382	C15H16	2,2-diphenylpropane	778-22-3	17.747	197.944	1,2
27849	C14H28	cyclotetradecane	295-17-0	15.216	254.702	2	28383	C15H16	2-methyl-1,1-diphenylethane	32341-92-7	17.852	201.138	2
27850	C14H28	1-tetradecene	1120-36-1	16.099	255.698	1,2	28384	C15H16	3-methyl-1,1-diphenylethane	32341-91-6	17.830	201.141	2
27851	C14H28	2-tetradecene	638-60-8	15.958	246.436	1,2	28385	C15H16	4-methyl-1,1-diphenylethane	3717-68-8	17.874	201.135	2
27852	C14H28	2-methyl-1-tridecene	18094-01-4	15.512	254.769	1,2	28386	C15H16	2-methyl-1,2-diphenylethane	34403-05-9	18.071	201.133	2
27853	C14H28	trans-7-tetradecene	41446-63-3	15.349	257.037	1,2	28387	C15H16	3-methyl-1,2-diphenylethane	34403-06-0	18.049	201.136	2
27854	C14H28Br2	1,1-dibromotetradecane	62168-31-4	15.832	297.134	2	28388	C15H16	4-methyl-1,2-diphenylethane	14310-20-4	17.872	201.161	2
27855	C14H28Br2	1,14-dibromotetradecane	37688-96-3	16.219	291.050	2	28389	C15H16	2-ethyldiphenylmethane	28122-25-0	18.104	198.616	1,2
27856	C14H28Cl2	1,1-dichlorotetradecane	4168-40-5	16.120	284.645	1,2	28390	C15H16	3-ethyldiphenylmethane	28122-24-9	18.006	201.119	1,2
27857	C14H28F2	1,1-difluorotetradecane	62127-03-1	15.243	266.333	1,2	28391	C15H16	4-ethyldiphenylmethane	620-85-9	18.107	201.553	1,2
27858	C14H28I2	1,1-diiodotetradecane	66826-79-7	17.039	311.969	2	28392	C15H16	2',3'-dimethyldiphenylmethane	62155-16-2	18.079	201.135	2
27862	C14H28O	tetradecanal	124-25-4	16.330	256.554	1,2	28393	C15H16	2',4'-dimethyldiphenylmethane	28122-28-3	18.057	201.138	2
27863	C14H28O	2-tetradecanone	2345-27-9	16.171	255.233	2	28394	C15H16	2',5'-dimethyldiphenylmethane	13540-50-6	18.035	201.141	2
27864	C14H28O	7-ethyl-2-methyl-4-undecanone	6976-00-7	15.176	257.772	1,2	28395	C15H16	2',6'-dimethyldiphenylmethane	---	18.079	201.135	2
27865	C14H28O	2-methyl-3-tridecanone	40239-35-8	15.483	261.148	1,2	28396	C15H16	3',4'-dimethyldiphenylmethane	13540-56-2	18.101	201.132	2
27866	C14H28O	3-tetradecanone	629-23-2	14.878	255.328	2	28397	C15H16	3',5'-dimethyldiphenylmethane	28122-27-2	18.013	201.144	2
27867	C14H28O	dodecyl vinyl ether	765-14-0	14.634	259.946	1,2	28398	C15H16	2',2"-dimethyldiphenylmethane	28122-29-4	18.079	201.135	2
27870	C14H28O	cis-9-tetradecenol	35153-15-2	15.406	244.110	1,2	28399	C15H16	2',3"-dimethyldiphenylmethane	21895-13-6	18.035	201.141	2
27873	C14H28O2	tetradecanoic acid	544-63-8	19.110	264.918	1,2	28400	C15H16	2',4"-dimethyldiphenylmethane	21895-17-0	18.101	201.132	2
27874	C14H28O2	tridecyl formate	42875-41-2	16.627	266.702	2	28401	C15H16	3',3"-dimethyldiphenylmethane	---	18.013	201.144	2
27875	C14H28O2	dodecyl acetate	112-66-3	16.826	265.769	1,2	28402	C15H16	3',4"-dimethyldiphenylmethane	21895-16-9	18.079	201.135	2
27876	C14H28O2	undecyl propanoate	5458-33-3	16.838	265.093	2	28403	C15H16	4',4"-dimethyldiphenylmethane	4957-14-6	18.147	201.528	1,2
27877	C14H28O2	decyl butanoate	5454-09-1	15.891	266.234	1,2	28429	C15H16O	p-cumylphenol	599-64-4	19.634	206.616	2
27878	C14H28O2	octyl hexanoate	4887-30-3	16.011	266.528	1,2	28436	C15H16O2	bisphenol a	80-05-7	19.996	230.084	2
27879	C14H28O2	heptyl heptanoate	624-09-9	16.131	265.112	1,2	28495	C15H18	2-pentylnaphthalene	93-22-1	19.003	208.088	1,2
27880	C14H28O2	hexyl octanoate	1117-55-1	16.103	266.520	1,2	28496	C15H18	1,6-dimethyl-4-isopropylnaphthalene	483-78-3	17.833	205.139	1,2
27881	C14H28O2	pentyl nonanoate	61531-45-1	16.411	268.487	1,2	28497	C15H18	1-pentylnaphthalene	86-89-5	19.036	206.087	1,2
27882	C14H28O2	ethyl laurate	106-33-2	15.875	266.050	1,2	28647	C15H22	1-pentyl-[1,2,3,4-tetrahydronaphthalene]	66359-06-6	17.353	219.101	1,2
27883	C14H28O2	methyl tridecanoate	1731-88-0	16.516	265.094	2	28648	C15H22	2-pentyl-[1,2,3,4-tetrahydronaphthalene]	66359-07-7	17.420	220.294	1,2
27885	C14H28O2	3,7-dimethyloctanyl butyrate	67874-80-0	16.164	265.093	2	28725	C15H24	nonylbenzene	1081-77-2	17.046	239.854	1,2
27893	C14H28S	thiacyclopentadecane	295-51-2	15.794	263.533	2	28726	C15H24	1,2,4-triisopropylbenzene	948-32-3	14.211	238.343	1,2
27895	C14H29Br	1-bromotetradecane	112-71-0	16.257	273.757	1,2	28727	C15H24	1,3,5-triisopropylbenzene	717-74-8	13.748	240.069	1,2
27896	C14H29Br	1-bromo-12-methyltridecane	111772-90-8	16.317	271.767	1,2	28728	C15H24	3,5-di-tert-butyltoluene	15181-11-0	14.147	238.829	1,2
27897	C14H29Cl	1-chlorotetradecane	2425-54-9	16.152	270.144	1,2	28756	C15H24O	2,6-di-tert-butyl-p-cresol	128-37-0	16.640	245.457	1,2
27899	C14H29F	1-fluorotetradecane	73180-09-3	15.587	262.282	1,2	28757	C15H24O	nonylphenol	25154-52-3	18.912	237.936	1,2
27901	C14H29I	1-iodotetradecane	19218-94-1	16.752	281.061	1,2	28758	C15H24O	2,4-di-tert-butyl-5-methylphenol	497-39-2	16.346	238.041	1,2
27908	C14H29NO2	1-nitrotetradecane	31241-42-6	15.574	286.914	2	28759	C15H24O	2,4-di-tert-butyl-6-methylphenol	616-55-7	15.889	241.584	1,2
27912	C14H30	tetradecane	629-59-4	15.902	261.731	1,2	28764	C15H24O	4-nonylphenol	104-40-5	17.025	236.912	2
27913	C14H30	2-methyltridecane	1560-96-9	15.278	262.285	1,2	28765	C15H24O	4-nonylphenol, isomers	84852-15-3	16.778	240.279	1,2
27914	C14H30	3-methyltridecane	6418-41-3	15.358	260.118	1,2	28815	C15H28	1,1-dicyclohexylpropane	54934-91-7	16.590	234.248	1,2
27915	C14H30	2,2-dimethyldodecane	49598-54-1	15.035	262.632	1,2	28816	C15H28	1,2-dicyclohexylpropane	41851-34-7	16.436	239.524	1,2
27916	C14H30	2,3-dimethyldodecane	6117-98-2	15.381	257.018	1,2	28817	C15H28	1,3-dicyclohexylpropane	3178-24-3	16.686	238.922	1,2
27917	C14H30	2,4-dimethyldodecane	6117-99-3	14.996	260.631	1,2	28818	C15H28	2,2-dicyclohexylpropane	54934-90-6	16.756	231.844	1,2
27918	C14H30	7-methyltridecane	26730-14-3	15.235	260.977	1,2	28819	C15H28	1-decylcyclopentene	62184-75-2	15.928	253.112	1,2
27922	C14H30O	1-tetradecanol	112-72-1	18.712	260.202	1,2	28820	C15H28	1-pentadecyne	765-13-9	16.137	264.116	1,2
27923	C14H30O	2-tetradecanol	4706-81-4	16.001	260.615	1,2	28821	C15H28	2-pentadecyne	52112-25-1	15.463	257.541	2
27924	C14H30O	3-tetradecanol	1653-32-3	15.816	260.416	1,2	28822	C15H28	3-pentadecyne	61886-61-1	15.254	257.995	2
27925	C14H30O	12-methyl-1-tridecanol	21987-21-3	16.013	255.762	1,2	28827	C15H28O2	menthol 3-methylbutanoate	16409-46-4	15.313	266.607	1,2
27926	C14H30O	2-methyl-3-tridecanol	98930-89-3	15.818	256.491	1,2	28829	C15H28O2	butyl 10-undecenoate	109-42-2	15.365	264.807	2
27927	C14H30O	2-methyl-4-tridecanol	36691-77-7	15.849	260.128	2	28837	C15H29Br	cis-1-bromo-1-pentadecene	66374-76-3	15.995	281.105	2
27928	C14H30O	diheptyl ether	629-64-1	15.488	268.931	1,2	28838	C15H29Br	trans-1-bromo-1-pentadecene	66374-77-4	15.995	281.105	2
27929	C14H30O	tetradecanol; mixed isomers	27196-00-5	16.046	261.972	2	28839	C15H29Br3	1,1,1-tribromopentadecane	62127-71-3	14.646	351.583	2
27930	C14H30O2	1,2-tetradecanediol	21129-09-9	16.903	275.259	2	28840	C15H29Cl	cis-1-chloro-1-pentadecene	66374-78-5	16.206	280.789	1,2
27931	C14H30O2	1,3-tetradecanediol	---	16.938	277.657	2	28841	C15H29Cl	trans-1-chloro-1-pentadecene	66374-79-6	16.206	280.789	1,2
27932	C14H30O2	1,4-tetradecanediol	---	17.375	277.028	2	28842	C15H29Cl3	1,1,1-trichloropentadecane	62108-59-2	15.357	321.547	2
27933	C14H30O2	1,14-tetradecanediol	19812-64-7	17.053	278.416	2	28843	C15H29F	cis-1-fluoro-1-pentadecene	66291-42-7	15.616	273.198	1,2
27938	C14H30O2	2,2,9,9-tetramethyl-1,10-decanediol	35449-36-6	17.328	273.564	2	28844	C15H29F	trans-1-fluoro-1-pentadecene	66291-43-8	15.616	273.198	1,2
27946	C14H30S	1-tetradecanethiol	2079-95-0	16.780	273.703	1,2	28845	C15H29F3	1,1,1-trifluoropentadecane	62127-00-8	13.976	303.418	2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
28846	C15H29I	cis-1-iodo-1-pentadecene	66291-44-9	16.165	289.320	2	29358	C16H18	meso-2,3-diphenylbutane	4613-11-0	16.052	234.638	2
28847	C15H29I	trans-1-iodo-1-pentadecene	66291-45-0	16.165	289.320	2	29359.1	C16H18	4-ethyl-bibenzyl	7439-15-8	18.855	201.770	2
28848	C15H29I3	1,1,1-triiodopentadecane	---	16.933	367.216	2	29440	C16H20	1-hexylnaphthalene	2876-53-1	18.715	224.218	1,2
28849	C15H29N	pentadecanenitrile	18300-91-9	16.814	270.561	1,2	29441	C16H20	2-hexylnaphthalene	2876-46-2	17.915	224.788	1,2
28855	C15H30	decylcyclopentane	1795-21-7	15.930	260.723	1,2	29442	C16H20	1-isopropyl-2,4,7-trimethylnaphthalene	6995-30-8	17.582	218.535	1,2
28856	C15H30	nonylcyclohexane	2883-02-5	15.889	258.799	1,2	29443	C16H20	1,2,5-trimethyl-8-isopropylnaphthalene	6897-76-3	16.874	224.797	1,2
28857	C15H30	1-ethyl-1-methyl-2,4-diisopropylcyclohexane,*	515-12-8	16.081	250.241	1,2	29444	C16H20	1,3,8-trimethyl-5-isopropylnaphthalene	6897-88-7	17.734	215.917	1,2
28858	C15H30	cyclopentadecane	295-48-7	15.576	252.101	1,2	29445	C16H20	2,6-diisopropylnaphthalene	24157-81-1	14.855	226.265	2
28859	C15H30	1-pentadecene	13360-61-7	16.031	272.190	1,2	29446	C16H20	bis(isopropyl)naphthalene	38640-62-9	17.512	220.290	2
28860	C15H30	2-methyl-1-tetradecene	52254-38-3	15.470	271.173	1,2	29518	C16H22O4	dibutyl phthalate	84-74-2	18.984	266.873	1,2
28861	C15H30	7-pentadecene	15430-98-5	15.744	272.584	1,2	29559	C16H24	1-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-11-9	17.147	235.796	1,2
28862	C15H30	8-pentadecene	15430-98-5	16.088	261.049	2	29560	C16H24	2-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-09-5	17.215	236.725	1,2
28862.1	C15H30	trans-2-pentadecene	74392-36-2	17.072	238.690	2	29561	C16H24	1,2,3,4-tetrahydro-6-ethyl-1,1,4,4-tetrameth*	80-81-9	17.181	236.260	2
28864	C15H30Br2	1,1-dibromopentadecane	62168-32-5	15.581	316.588	2	29595	C16H26	decylbenzene	104-72-3	17.069	256.317	1,2
28865	C15H30Cl2	1,1-dichloropentadecane	822-15-1	16.078	298.038	2	29596	C16H26	pentaethylbenzene	605-01-6	17.033	244.619	1,2
28866	C15H30F2	1,1-difluoropentadecane	62127-04-2	15.037	284.571	2	29599	C16H26	(1-methylnonyl)benzene	4537-13-7	16.321	256.446	2
28867	C15H30I2	1,1-diiodopentadecane	66325-78-8	16.935	330.672	2	29608	C16H26O	2,6-di-tert-butyl-4-ethylphenol	4130-42-1	15.478	256.568	2
28873	C15H30O	pentadecanal	2765-11-9	16.398	265.731	2	29609	C16H26O	2,4-di-tert-amylphenol	120-95-6	15.770	252.023	1,2
28874	C15H30O	2-pentadecanone	2345-28-0	15.848	276.719	1,2	29622	C16H27N	4-decylaniline	37529-30-9	16.245	260.715	2
28875	C15H30O	8-pentadecanone	818-23-5	15.751	277.671	1,2	29637	C16H28S	3-dodecylthiophene	104934-52-3	15.027	279.894	1,2
28877	C15H30O	1-pentadecen-3-ol	99814-65-0	16.320	270.494	1,2	29640	C16H30	1-hexadecyne	629-74-3	16.120	280.472	1,2
28879	C15H30O2	pentadecanoic acid	1002-84-2	18.398	280.981	1,2	29641	C16H30	2-hexadecyne	629-75-4	15.861	277.707	1,2
28880	C15H30O2	tetradecyl formate	5451-63-8	16.660	286.247	2	29642	C16H30	3-hexadecyne	61886-62-2	14.854	282.707	2
28881	C15H30O2	tridecyl acetate	1072-33-9	17.056	282.031	2	29643	C16H30	1,1-dicyclohexylbutane	54890-00-5	16.321	250.805	1,2
28882	C15H30O2	dodecyl propanoate	6221-93-8	16.999	282.583	2	29644	C16H30	1,4-dicyclohexylbutane	6165-44-2	16.603	254.283	1,2
28883	C15H30O2	undecyl butanoate	5461-02-9	17.009	282.583	2	29645	C16H30	1,3-dicyclohexyl-2-methylpropane	2883-08-1	16.224	256.088	1,2
28884	C15H30O2	octyl heptanoate	5132-75-2	15.919	283.076	1,2	29646	C16H30	1-undecylcyclopentene	62184-76-3	15.825	269.560	1,2
28885	C15H30O2	heptyl octanoate	4265-97-8	15.938	283.071	1,2	29648	C16H30	1,3-dicyclohexylbutane	41851-35-8	16.227	264.281	2
28886	C15H30O2	propyl dodecanoate	3681-78-5	16.970	282.608	1,2	29660	C16H30O2	7-hexadecenoic acid	1191-75-9	15.348	294.063	2
28887	C15H30O2	isopropyl dodecanoate	10233-13-3	16.897	285.046	1,2	29661	C16H30O2	9-hexadecenoic acid	2091-29-4	15.431	292.765	2
28888	C15H30O2	methyl tetradecanoate	124-10-7	16.180	280.619	1,2	29662	C16H30O2	cis-9-hexadecenoic acid	373-49-9	15.431	292.765	2
28889	C15H30O2	ethyl tridecanoate	28267-29-0	16.923	284.176	1,2	29663	C16H30O2	lauryl methacrylate	142-90-5	15.429	293.103	1,2
28895	C15H30S	thiacyclohexadecane	295-68-1	15.504	281.239	2	29665	C16H30O2	cis-9-tetradecenyl acetate	16725-53-4	15.447	292.429	1,2
28898	C15H31Br	1-bromopentadecane	629-72-1	16.156	290.299	1,2	29666	C16H30O2	cis-tetradec-11-en-1-yl acetate	20711-10-8	15.438	292.765	2
28899	C15H31Cl	1-chloropentadecane	4862-03-1	16.054	286.717	1,2	29667	C16H30O2	trans-tetradec-11-en-1-yl acetate	33189-72-9	15.438	292.765	2
28900	C15H31F	1-fluoropentadecane	1555-17-5	15.531	278.710	1,2	29684	C16H31Br	cis-1-bromo-1-hexadecene	66271-67-8	15.732	300.197	2
28901	C15H31I	1-iodopentadecane	35599-78-1	16.608	297.656	1,2	29685	C16H31Br	trans-1-bromo-1-hexadecene	66271-68-9	15.732	300.197	2
28903	C15H31NO2	1-nitropentadecane	39220-65-0	15.274	307.066	2	29688	C16H31Br3	1,1,1-tribromohexadecane	62127-72-4	14.406	372.457	2
28904	C15H32	pentadecane	629-62-9	15.921	277.672	1,2	29689	C16H31Cl	cis-1-chloro-1-hexadecene	66271-69-0	16.133	297.215	1,2
28905	C15H32	2-methyltetradecane	1560-95-8	15.258	278.655	1,2	29690	C16H31Cl	trans-1-chloro-1-hexadecene	66271-70-3	16.133	297.215	1,2
28906	C15H32	3-methyltetradecane	18435-22-8	15.339	276.515	1,2	29692	C16H31Cl3	1,1,1-trichlorohexadecane	62108-60-5	15.141	341.149	2
28907	C15H32	2,2-dimethyltridecane	61869-04-3	15.018	278.985	1,2	29693	C16H31F	cis-1-fluoro-1-hexadecene	66271-71-4	15.695	289.630	1,2
28908	C15H32	2,3-dimethyltridecane	18435-20-6	15.376	273.067	1,2	29694	C16H31F	trans-1-fluoro-1-hexadecene	66271-72-5	15.695	289.630	1,2
28909	C15H32	2,4-dimethyltridecane	61868-05-1	14.988	276.731	1,2	29695	C16H31F3	1,1,1-trifluorohexadecane	62127-01-9	13.788	323.552	2
28912	C15H32O	1-pentadecanol	629-76-5	18.919	277.877	1,2	29696	C16H31I	cis-1-iodo-1-hexadecene	66271-73-6	15.913	308.287	2
28913	C15H32O	2-pentadecanol	1653-34-5	15.881	277.371	1,2	29697	C16H31I	trans-1-iodo-1-hexadecene	66271-74-7	15.913	308.287	2
28914	C15H32O	3-pentadecanol	53346-71-7	20.279	277.459	2	29698	C16H31I3	1,1,1-triiodohexadecane	---	16.851	386.299	2
28915	C15H32O	2,8-dimethyl-6-isobutylnonanol-4	10143-20-1	17.177	277.553	2	29699	C16H31N	hexadecanenitrile	629-79-8	16.578	288.378	1,2
28916	C15H32O2	1,2-pentadecanediol	33968-47-7	16.361	297.392	2	29704	C16H32	undecylcyclopentane	6785-23-5	15.910	277.074	1,2
28917	C15H32O2	1,3-pentadecanediol	---	16.588	296.949	2	29705	C16H32	decylcyclohexane	1795-16-0	16.678	275.374	1,2
28918	C15H32O2	1,4-pentadecanediol	---	17.011	296.175	2	29706	C16H32	cyclohexadecane	295-65-8	14.879	288.624	2
28919	C15H32O2	1,15-pentadecanediol	14722-40-8	16.830	295.674	2	29707	C16H32	1-hexadecene	629-73-2	15.767	288.842	1,2
28921	C15H32S	1-pentadecanethiol	25276-70-4	17.052	290.018	1,2	29708	C16H32	2-methyl-1-pentadecene	29833-69-0	15.440	287.583	1,2
28922	C15H32S	2-pentadecanethiol	62155-05-9	15.882	291.505	1,2	29709	C16H32	2-methyl-1-propene, tetramer	15220-85-6	14.255	283.641	1,2
28923	C15H32S	methyl tetradecyl sulfide	7289-45-4	17.146	290.018	1,2	29710	C16H32Br2	1,16-dibromohexadecane	45223-18-5	15.925	325.512	2
28924	C15H32S	ethyl tridecyl sulfide	66271-81-6	17.146	290.018	1,2	29711	C16H32Br2	1,1-dibromohexadecane	62168-33-6	15.331	336.287	2
28925	C15H32S	propyl dodecyl sulfide	66271-82-7	17.146	290.018	1,2	29712	C16H32Cl2	1,1-dichlorohexadecane	62017-19-0	15.834	317.011	2
28926	C15H32S	butyl undecyl sulfide	66271-83-8	17.146	290.018	1,2	29713	C16H32F2	1,1-difluorohexadecane	62127-05-3	14.794	303.837	2
28931	C15H33N	pentadecylamine	2570-26-5	16.123	284.095	1,2	29714	C16H32I2	1,1-diiodohexadecane	66271-75-8	16.841	349.471	2
28932	C15H33N	methyltetradecylamine	29369-63-9	15.836	282.133	2	29717	C16H32O	hexadecanal	629-80-1	16.053	287.084	2
28933	C15H33N	ethyltridecylamine	59570-06-8	15.764	283.088	2	29718	C16H32O	2-hexadecanone	18787-63-8	15.839	288.916	2
28934	C15H33N	dimethyltridecylamine	17373-29-4	15.425	288.402	1,2	29719	C16H32O	3-hexadecanone	18787-64-9	15.502	288.684	2
28935	C15H33N	diethylundecylamine	54334-64-4	15.059	287.527	1,2	29721	C16H32O2	hexadecanoic acid	57-10-3	17.820	300.840	1,2
28936	C15H33N	tripentylamine	621-77-2	14.340	293.619	1,2	29722	C16H32O2	2-hexyldecanoic acid	25354-97-6	15.032	306.296	2
28937	C15H33N	triisopentylamine	645-41-0	13.875	290.928	1,2	29723	C16H32O2	pentadecyl formate	66271-76-9	17.243	297.550	1,2
28938	C15H33N	tris(2-methylbutyl)amine	620-43-9	14.717	255.334	1,2	29724	C16H32O2	tetradecyl acetate	638-59-5	17.325	298.833	1,2
28984	C16H10	fluoranthene	206-44-0	20.644	171.402	1,2	29725	C16H32O2	tridecyl propanoate	66271-77-0	17.289	299.077	1,2
28985	C16H10	pyrene	129-00-0	20.791	173.209	1,2	29726	C16H32O2	dodecyl butanoate	3724-61-6	17.285	299.496	1,2
29024	C16H12	1-phenylnaphthalene	605-02-7	19.929	189.519	1,2	29727	C16H32O2	octyl octanoate	2306-88-9	15.879	300.874	1,2
29232	C16H16	1,1-diphenyl-1-butene	1726-14-3	17.670	210.386	1,2	29728	C16H32O2	heptyl nonanoate	71605-85-1	16.163	299.812	1,2
29233	C16H16	1,3-diphenyl-1-butene	7614-93-9	17.946	212.477	1,2	29729	C16H32O2	ethyl myristate	124-06-1	15.495	299.112	1,2
29234	C16H16	cis-2,3-diphenyl-2-butene	782-05-8	17.633	214.695	1,2	29730	C16H32O2	methyl pentadecanoate	7132-64-1	11.572	297.550	1,2
29235	C16H16	trans-2,3-diphenyl-2-butene	782-06-9	16.873	224.945	1,2	29731	C16H32O2	n-butyl laurate	106-18-3	16.203	298.325	2
29290.1	C16H16O2	trans-3,5-dimethoxystilbene	21956-56-9	21.544	224.710	2	29732	C16H32O2	2-ethylhexyl-2-ethylhexanoate	7425-14-1	16.203	298.329	2
29342	C16H18	1,1-diphenylbutane	719-79-9	17.180	216.556	1,2	29738	C16H32S	thiacycloheptadecane	296-00-4	15.225	299.077	2
29343	C16H18	1,2-diphenylbutane	5223-59-6	17.269	218.990	1,2	29739	C16H33Br	1-bromohexadecane	112-82-3	16.050	306.846	1,2
29344	C16H18	1,4-diphenylbutane	1083-56-3	17.999	218.349	1,2	29740	C16H33Cl	1-chlorohexadecane	4860-03-1	15.960	303.291	1,2
29346	C16H18	1,3-diphenylbutane, (±)	116783-21-2	17.379	217.893	1,2	29744	C16H33F	1-fluorohexadecane	408-38-8	15.467	295.142	1,2
29347	C16H18	1,3-diphenyl-2-methylpropane	1520-46-3	17.740	218.339	1,2	29746	C16H33I	1-iodohexadecane	544-77-4	16.459	314.227	1,2
29356	C16H18	DL-2,3-diphenylbutane	2726-21-8	17.797	216.917	2	29750	C16H33NO2	1-nitrohexadecane	66271-50-9	14.977	327.507	2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
29754	C16H34	hexadecane	544-76-3	15.937	294.086	1,2	30326	C17H34O2	hexadecyl formate	4113-08-0	16.922	325.354	2
29755	C16H34	2-methylpentadecane	1560-93-6	15.227	295.121	1,2	30327	C17H34O2	pentadecyl acetate	629-58-3	17.678	315.125	2
29756	C16H34	3-methylpentadecane	2882-96-4	15.292	292.944	1,2	30328	C17H34O2	tetradecyl propanoate	6221-95-0	17.256	321.218	2
29757	C16H34	2,2-dimethyltetradecane	59222-86-5	15.013	295.313	1,2	30329	C17H34O2	tridecyl butanoate	56164-20-6	17.263	321.219	2
29758	C16H34	2,3-dimethyltetradecane	18435-23-9	15.358	289.240	1,2	30330	C17H34O2	isopropyl tetradecanoate	110-27-0	18.474	318.107	1,2
29759	C16H34	2,4-dimethyltetradecane	61868-06-2	14.945	292.982	1,2	30331	C17H34O2	propyl tetradecanoate	14303-70-9	18.411	319.012	1,2
29760	C16H34	2,2,4,4,6,8,8-heptamethylnonane	4390-04-9	14.155	293.267	2	30332	C17H34O2	methyl palmitate	112-39-0	21.573	317.012	1,2
29766	C16H34O	1-hexadecanol	36653-82-4	18.118	295.939	1,2	30336	C17H34S	thiacyclooctadecane	296-21-9	14.972	317.040	2
29767	C16H34O	2-hexadecanol	14852-31-4	15.680	295.956	1,2	30337	C17H35Br	1-bromoheptadecane	3508-00-7	15.884	324.222	1,2
29768	C16H34O	3-hexadecanol	593-03-3	14.919	299.222	1,2	30338	C17H35Cl	1-chloroheptadecane	62016-75-5	15.909	317.381	2
29769	C16H34O	2-methyl-1-pentadecanol	25354-98-7	15.309	291.401	1,2	30339	C17H35F	1-fluoroheptadecane	1545-17-1	15.383	310.769	2
29770	C16H34O	6-methyl-6-pentadecanol	108836-86-8	15.124	294.488	1,2	30340	C17H35I	1-iodoheptadecane	26825-83-2	16.286	330.314	2
29771	C16H34O	dioctyl ether	629-82-3	16.503	301.924	1,2	30343	C17H35NO2	1-nitroheptadecane	39220-66-1	14.702	348.152	2
29772	C16H34O	bis(2-ethylhexyl) ether	10143-60-9	14.926	292.811	2	30346	C17H36	heptadecane	629-78-7	15.925	311.090	1,2
29773	C16H34O	2-hexyl-1-decanol	2425-77-6	15.163	292.952	1,2	30347	C17H36	2-methylhexadecane	1560-92-5	15.188	311.493	1,2
29776	C16H34O2	1,2-hexadecanediol	6920-24-7	16.468	309.955	2	30348	C17H36	3-methylhexadecane	6418-43-5	15.261	309.290	1,2
29777	C16H34O2	1,3-hexadecanediol	34014-79-4	16.262	316.396	2	30349	C17H36	2,2-dimethylpentadecane	61869-05-4	14.993	311.695	1,2
29778	C16H34O2	1,4-hexadecanediol	---	16.673	315.475	2	30350	C17H36	2,3-dimethylpentadecane	2882-97-5	15.327	305.440	1,2
29780	C16H34O2	1,16-hexadecanediol	7735-42-4	16.576	313.676	2	30351	C17H36	2,4-dimethylpentadecane	61868-07-3	14.911	309.250	1,2
29789	C16H34S	1-hexadecanethiol	2917-26-2	16.946	306.657	1,2	30352	C17H36O	1-heptadecanol	1454-85-9	18.167	311.372	1,2
29790	C16H34S	2-hexadecanethiol	66271-53-2	15.786	308.009	1,2	30353	C17H36O	2-heptadecanol	16813-18-6	15.553	314.430	2
29791	C16H34S	dioctyl sulfide	2690-08-6	17.055	306.657	1,2	30354	C17H36O	9-heptadecanol	624-08-8	15.237	318.148	2
29792	C16H34S	methyl pentadecyl sulfide	62155-10-6	17.055	306.657	1,2	30355	C17H36O	heptadecanol (mixed primary isomers)	52783-44-5	15.331	316.517	2
29793	C16H34S	ethyl tetradecyl sulfide	66271-54-3	16.554	306.294	1,2	30356	C17H36O2	1,2-heptadecanediol	34719-63-6	15.742	336.583	2
29794	C16H34S	propyl tridecyl sulfide	66271-55-4	17.055	306.657	1,2	30357	C17H36O2	1,3-heptadecanediol	---	15.956	335.975	2
29795	C16H34S	butyl dodecyl sulfide	16900-08-6	17.055	306.657	1,2	30358	C17H36O2	1,4-heptadecanediol	---	16.356	334.907	2
29797	C16H34S2	dioctyl disulfide	822-27-5	16.950	325.031	1,2	30359	C17H36O2	1,17-heptadecanediol	66577-59-1	15.898	339.445	2
29798	C16H35N	hexadecylamine	143-27-1	15.914	302.903	1,2	30362	C17H36S	1-heptadecanethiol	53193-22-9	16.808	323.728	2
29799	C16H35N	ethyltetradecylamine	66271-56-5	15.709	301.368	2	30363	C17H36S	2-heptadecanethiol	66577-60-4	15.731	324.528	1,2
29800	C16H35N	dioctylamine	1120-48-5	15.530	301.713	1,2	30364	C17H36S	methyl hexadecyl sulfide	27563-68-4	16.942	322.913	1,2
29801	C16H35N	methylpentadecylamine	29664-53-7	15.690	301.366	2	30365	C17H36S	ethyl pentadecyl sulfide	64919-20-6	16.942	322.913	1,2
29802	C16H35N	N-(1-methylheptyl)-2-octanamine	5412-92-0	14.916	300.862	1,2	30366	C17H36S	propyl tetradecyl sulfide	66577-61-5	16.942	322.913	1,2
29803	C16H35N	dimethyltetradecylamine	112-75-4	15.367	304.836	1,2	30367	C17H36S	butyl tridecyl sulfide	66577-62-6	16.942	322.913	1,2
29804	C16H35N	diethyldodecylamine	4271-27-6	15.057	301.425	2	30369	C17H37N	heptadecylamine	4200-95-7	16.259	305.606	1,2
29805	C16H35N	bis(2-ethylhexyl)amine	106-20-7	15.494	301.370	2	30370	C17H37N	methylhexadecylamine	13417-08-8	15.590	315.780	2
30056	C17H18	1,1-diphenyl-1-pentene	1530-11-6	17.393	227.424	1,2	30371	C17H37N	ethylpentadecylamine	56392-13-3	15.636	315.784	2
30117	C17H20	1,1-diphenylpentane	1726-12-1	17.254	233.135	1,2	30372	C17H37N	dimethylpentadecylamine	17678-60-3	15.531	313.178	2
30118	C17H20	1,3-diphenylpentane	838-45-9	17.197	231.169	1,2	30373	C17H37N	diethyltridecylamine	66577-48-8	15.109	313.178	2
30119	C17H20	1,5-diphenylpentane	1718-50-9	18.047	229.679	1,2	30374	C17H37N	methyldioctylamine	4455-26-9	15.676	313.178	2
30177	C17H22	1-heptylnaphthalene	2876-52-0	17.750	239.283	1,2	30406	C18H12	chrysene	218-01-9	19.522	209.145	1,2
30178	C17H22	2-heptylnaphthalene	2876-45-1	17.712	241.375	1,2	30456.1	C18H13N3O4	4,4'-dinitrotriphenylamine	1100-1-3	18.736	317.117	2
30241	C17H26	1-heptyl-[1,2,3,4-tetrahydronaphthalene]	66563-99-3	16.738	259.671	2	30457	C18H14	m-terphenyl	92-06-8	20.088	200.974	1,2
30242	C17H26	2-heptyl-[1,2,3,4-tetrahydronaphthalene]	26438-24-4	16.815	259.668	2	30458	C18H14	o-terphenyl	84-15-1	18.527	217.302	2
30264	C17H28	undecylbenzene	6742-54-7	17.420	273.101	1,2	30459	C18H14	p-terphenyl	92-94-4	17.325	241.271	2
30267	C17H28O	2,6-di-tert-pentyl-4-methylphenol	56103-67-4	14.874	277.145	1,2	30567	C18H15P	triphenylphosphine	603-35-0	18.687	244.226	1,2
30284	C17H32	1-heptadecyne	26186-00-5	16.079	297.037	1,2	30588	C18H16N2	N,N'-diphenyl-p-phenylenediamine	74-31-7	19.705	249.871	2
30285	C17H32	2-heptadecyne	61847-96-9	14.918	298.942	2	30714	C18H20	1,1-diphenyl-1-hexene	1530-19-4	17.144	244.322	1,2
30286	C17H32	3-heptadecyne	61886-63-3	14.677	299.726	2	30715	C18H20	2,4-diphenyl-4-methyl-1-pentene	6362-80-7	17.127	238.744	1,2
30287	C17H32	1,1-dicyclohexylpentane	54833-30-6	16.179	267.286	1,2	30778	C18H22	1,1-diphenylhexane	1530-04-7	17.006	250.181	1,2
30288	C17H32	1,3-dicyclohexyl-2-ethylpropane	54833-34-0	16.118	268.239	1,2	30779	C18H22	2,3-dimethyl-2,3-diphenylbutane	1889-67-4	15.863	257.109	2
30289	C17H32	1,5-dicyclohexylpentane	54833-31-7	16.631	271.950	1,2	30806	C18H22O2	dicumyl peroxide	80-43-3	16.981	261.985	2
30290	C17H32	1-dodecylcyclopentene	62184-77-4	15.721	286.006	1,2	30836	C18H24	1-octylnaphthalene	2876-51-9	17.555	255.923	1,2
30292	C17H32O2	9-heptadecenoic acid	10136-52-4	15.353	301.034	1,2	30837	C18H24	2-octylnaphthalene	2876-44-0	17.541	257.983	1,2
30294	C17H33Br	cis-1-bromo-1-heptadecene	66563-89-1	15.491	319.508	2	30838	C18H24	2,6-bis(1,1-dimethylethyl)-naphthalene	3905-64-4	15.155	280.254	2
30295	C17H33Br	trans-1-bromo-1-heptadecene	66563-90-4	15.491	319.508	2	30913	C18H28	1-octyl-[1,2,3,4-tetrahydronaphthalene]	29138-91-8	16.445	278.204	2
30296	C17H33Br3	1,1,1-tribromoheptadecane	62127-73-5	14.182	393.517	2	30914	C18H28	2-octyl-[1,2,3,4-tetrahydronaphthalene]	66553-10-4	16.520	278.178	2
30297	C17H33Cl	cis-1-chloro-1-heptadecene	66563-91-5	16.080	309.746	2	30947	C18H30	dodecylbenzene	123-01-3	17.122	290.266	1,2
30298	C17H33Cl	trans-1-chloro-1-heptadecene	66563-92-6	16.080	309.746	2	30948	C18H30	hexaethylbenzene	604-88-6	15.179	296.732	1,2
30300	C17H33Cl3	1,1,1-trichloroheptadecane	62108-61-6	14.922	360.989	2	30949	C18H30	1,2,4,5-tetraisopropylbenzene	635-11-0	12.994	315.905	1,2
30301	C17H33F	cis-1-fluoro-1-heptadecene	66577-63-7	15.775	303.019	2	30952	C18H30	1,3,5-tri-tert-butylbenzene	1460-02-2	11.346	298.318	2
30302	C17H33F	trans-1-fluoro-1-heptadecene	66577-51-3	15.775	303.019	2	30953	C18H30	1,2,4-tri-tert-butylbenzene	1459-11-6	15.182	292.738	2
30303	C17H33F3	1,1,1-trifluoroheptadecane	62126-84-5	13.629	343.953	2	30960	C18H30O	2,4,6-tri-tert-butylphenol	732-26-3	13.100	326.221	1,2
30304	C17H33I	cis-1-iodo-1-heptadecene	66577-52-4	15.680	327.467	2	30961	C18H30O	4-sec-butyl-2,6-di-tert-butylphenol	17540-75-9	15.021	290.949	1,2
30305	C17H33I	trans-1-iodo-1-heptadecene	66577-53-5	15.680	327.467	2	30962	C18H30O	4-dodecylphenol	104-43-8	15.049	286.893	1,2
30306	C17H33I3	1,1,1-triiocloheptadecane	---	16.776	405.440	2	30963	C18H30O	dodecylphenols	27193-86-8	14.572	292.854	1,2
30307	C17H33N	heptadecanenitrile	5399-02-0	16.406	305.314	1,2	30991	C18H32O2	linoleic acid	60-33-3	18.626	310.921	1,2
30310	C17H34	dodecylcyclopentane	5634-30-0	15.865	293.666	1,2	31013	C18H34	9-octadecyne	35365-59-4	15.572	313.754	1,2
30311	C17H34	undecylcyclohexane	54105-66-7	15.794	291.869	1,2	31014	C18H34	1-octadecyne	629-89-0	15.986	313.733	1,2
30312	C17H34	cycloheptadecane	295-97-6	14.717	305.611	2	31015	C18H34	2-octadecyne	61847-97-0	15.610	312.460	1,2
30313	C17H34	1-heptadecene	6765-39-5	15.847	304.932	1,2	31016	C18H34	3-octadecyne	61886-64-4	15.374	315.451	1,2
30314	C17H34	2-methyl-1-hexadecene	61868-19-7	15.398	304.077	1,2	31017	C18H34	1,1-dicyclohexylhexane	55030-20-1	16.030	284.138	1,2
30315	C17H34Br2	1,1-dibromoheptadecane	62168-34-7	15.098	356.185	2	31018	C18H34	1-tridecylcyclopentene	62184-78-5	15.614	302.461	1,2
30316	C17H34Br2	1,17-dibromoheptadecane	81726-82-1	16.047	337.999	2	31030	C18H34O2	oleic acid	112-80-1	16.938	318.093	1,2
30317	C17H34Cl2	1,1-dichloroheptadecane	62046-36-0	15.590	336.208	2	31031	C18H34O2	elaidic acid	112-79-8	14.833	323.411	1,2
30318	C17H34F2	1,1-difluoroheptadecane	62127-06-4	14.551	323.343	2	31032	C18H34O2	trans-2-octadecenoic acid	2825-79-8	14.677	326.931	1,2
30319	C17H34I2	1,1-diiodoheptadecane	66577-55-7	16.755	368.350	2	31033	C18H34O2	trans-11-octadecenoic acid	693-72-1	14.848	322.999	2
30322	C17H34O	9-heptadecanone	540-08-9	13.392	313.823	1,2	31034	C18H34O2	petroselinic acid	593-39-5	14.851	320.440	2
30323	C17H34O	2-heptadecanone	2922-51-2	15.404	316.134	1,2	31041	C18H34O4	dibutyl sebacate	109-43-3	17.119	337.409	1,2
30324	C17H34O	heptadecanal	629-90-3	15.728	311.729	2	31042	C18H34O4	dihexyl adipate	110-33-8	17.478	337.409	1,2
30325	C17H34O2	heptadecanoic acid	506-12-7	16.221	317.244	1,2	31054	C18H35Br	cis-1-bromo-1-octadecene	66292-44-2	15.249	339.054	2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
31055	C18H35Br	trans-1-bromo-1-octadecene	66292-45-3	15.249	339.054	2	31647	C19H32	(1-hexylheptyl)benzene	2400-01-3	16.121	306.536	1,2
31057	C18H35Br3	1,1,1-tribromooctadecane	62127-74-6	13.953	414.872	2	31670	C19H36	1-nonadecyne	26186-01-6	15.825	331.522	1,2
31058	C18H35Cl	cis-1-chloro-1-octadecene	66292-46-4	15.842	328.797	2	31671	C19H36	2-nonadecyne	61847-98-1	14.168	353.500	2
31059	C18H35Cl	trans-1-chloro-1-octadecene	66292-47-5	15.842	328.797	2	31672	C19H36	3-nonadecyne	61886-65-5	13.923	354.635	2
31061	C18H35Cl3	1,1,1-trichlorooctadecane	62108-62-7	14.715	381.015	2	31673	C19H36	1,1-dicyclohexylheptane	2090-15-5	15.068	328.309	2
31062	C18H35F	cis-1-fluoro-1-octadecene	66292-48-6	15.699	322.086	2	31674	C19H36	1-tetradecylcyclopentene	62184-79-6	15.500	318.937	1,2
31063	C18H35F	trans-1-fluoro-1-octadecene	66292-49-7	15.699	322.086	2	31675	C19H36O2	methyl oleate	112-62-9	16.946	340.797	1,2
31064	C18H35F3	1,1,1-trifluorooctadecane	1511-82-6	13.305	364.619	2	31678	C19H37Br	cis-1-bromo-1-nonadecene	66359-51-1	15.022	358.802	2
31065	C18H35I	cis-1-iodo-1-octadecene	66292-50-0	15.446	346.874	2	31679	C19H37Br	trans-1-bromo-1-nonadecene	66359-52-2	15.022	358.802	2
31066	C18H35I	trans-1-iodo-1-octadecene	66292-51-1	15.446	346.874	2	31680	C19H37Br3	1,1,1-tribromononadecane	62127-75-7	13.716	436.534	2
31067	C18H35I3	1,1,1-triiodooctadecane	---	16.706	424.624	2	31681	C19H37Cl	cis-1-chloro-1-nonadecene	66359-53-3	15.602	348.062	2
31069	C18H35N	octadecanenitrile	638-65-3	16.163	323.775	1,2	31682	C19H37Cl	trans-1-chloro-1-nonadecene	66359-54-4	15.602	348.062	2
31071	C18H36	1-octadecene	112-88-9	16.183	321.635	1,2	31683	C19H37Cl3	1,1,1-trichlorononadecane	62108-63-8	14.502	401.277	2
31072	C18H36	9-octadecene	5557-31-3	15.566	320.146	1,2	31684	C19H37F	cis-1-fluoro-1-nonadecene	66359-55-5	15.630	341.228	2
31073	C18H36	2-methyl-1-heptadecene	42764-74-9	15.347	320.533	1,2	31685	C19H37F	trans-1-fluoro-1-nonadecene	66359-56-6	15.630	341.228	2
31074	C18H36	tridecylcyclopentane	6006-34-4	15.829	310.177	1,2	31686	C19H37F3	1,1,1-trifluorononadecane	62126-85-6	13.223	385.571	2
31075	C18H36	dodecylcyclohexane	1795-17-1	15.731	308.283	1,2	31687	C19H37I	cis-1-iodo-1-nonadecene	66359-57-7	15.208	366.514	2
31076	C18H36	cyclooctadecane	296-18-4	14.486	324.656	2	31688	C19H37I	trans-1-iodo-1-nonadecene	66359-58-8	15.208	366.514	2
31079	C18H36Br2	1,1-dibromooctadecane	62168-35-8	14.861	376.328	2	31689	C19H37I3	1,1,1-triiododononadecane	---	16.638	443.841	2
31080	C18H36Cl2	1,1-dichlorooctadecane	62017-20-3	15.360	355.611	2	31690	C19H37N	nonadecanenitrile	28623-46-3	16.213	332.115	2
31083	C18H36F2	1,1-difluorooctadecane	62127-07-5	14.336	343.097	2	31695	C19H38	tetradecylcyclopentane	1795-22-8	15.857	326.606	1,2
31084	C18H36I2	1,1-diiodooctadecane	66292-27-1	16.676	387.298	2	31696	C19H38	tridecylcyclohexane	6006-33-3	15.683	324.617	1,2
31090	C18H36O	octadecanal	638-66-4	15.637	325.094	2	31697	C19H38	cyclononadecane	296-44-6	15.294	314.282	1,2
31091	C18H36O	2-octadecanone	7373-13-9	15.426	327.332	2	31698	C19H38	1-nonadecene	18435-45-5	16.259	338.212	1,2
31092	C18H36O	3-octadecanone	18261-92-2	15.486	327.081	2	31699	C19H38	2-methyl-1-octadecene	61868-20-0	15.285	336.971	1,2
31094	C18H36O	cis-9-octadecen-1-ol	143-28-2	15.971	317.396	1,2	31700	C19H38Br2	1,1-dibrombnonadecane	62168-36-9	14.619	396.724	2
31095	C18H36O	trans-9-octadecen-1-ol	506-42-3	15.741	321.183	1,2	31701	C19H38Cl2	1,1-dichlorononadecane	62017-21-4	15.126	375.235	2
31097	C18H36O2	octadecanoic acid	57-11-4	17.975	313.898	1,2	31702	C19H38F2	1,1-difluorononadecane	62127-08-6	14.115	363.108	2
31098	C18H36O2	2-octyldecanoic acid	619-39-6	17.008	329.668	1,2	31703	C19H38I2	1,1-diiodononadecane	66359-60-2	16.600	406.303	2
31099	C18H36O2	heptadecyl formate	66292-28-2	17.393	336.152	2	31704	C19H38O	nonadecanal	17352-32-8	15.601	338.545	2
31100	C18H36O2	hexadecyl acetate	629-70-9	18.103	331.836	1,2	31705	C19H38O	2-nonadecanone	629-66-3	15.153	348.434	1,2
31101	C18H36O2	pentadecyl propanoate	66292-29-3	17.737	331.804	2	31706	C19H38O	10-nonadecanone	504-57-4	15.292	344.204	2
31102	C18H36O2	tetradecyl butanoate	6221-98-3	17.745	331.809	2	31708	C19H38O2	nonadecanoic acid	646-30-0	17.086	351.994	1,2
31103	C18H36O2	ethyl palmitate	628-97-7	18.408	331.681	1,2	31709	C19H38O2	14-methyloctadecanoic acid	94434-64-7	18.078	321.393	1,2
31104	C18H36O2	methyl heptadecanoate	1731-92-6	18.584	323.906	2	31710	C19H38O2	17-methyloctadecanoic acid	2724-59-6	17.000	353.922	1,2
31105	C18H36O2	n-butyl myristate	110-36-1	18.661	322.758	2	31711	C19H38O2	9-methyloctadecanoic acid	86073-38-3	18.585	303.445	1,2
31113	C18H36S	thiacyclononadecane	296-47-9	14.725	335.143	2	31712	C19H38O2	octadecyl formate	5451-75-2	17.789	353.788	2
31115	C18H37Br	1-bromooctadecane	112-89-0	15.801	340.428	1,2	31713	C19H38O2	heptadecyl acetate	822-20-8	18.895	337.924	2
31116	C18H37Cl	1-chlorooctadecane	3386-33-2	15.689	337.362	1,2	31714	C19H38O2	hexadecyl propanoate	6221-96-1	18.142	349.182	2
31118	C18H37F	1-fluorooctadecane	1649-73-6	15.300	327.209	2	31715	C19H38O2	pentadecyl butanoate	125164-51-4	18.149	349.186	2
31119	C18H37I	1-iodooctadecane	629-93-6	16.086	349.059	1,2	31716	C19H38O2	ethyl heptadecanoate	14010-23-2	18.988	350.009	1,2
31124	C18H37NO2	1-nitrooctadecane	66292-30-6	14.425	369.087	2	31717	C19H38O2	isopropyl palmitate	142-91-6	18.958	352.091	1,2
31131	C18H38	octadecane	593-45-3	15.835	327.664	1,2	31718	C19H38O2	propyl palmitate	2239-78-3	18.983	351.163	1,2
31132	C18H38	9-methylheptadecane	18869-72-2	15.095	327.136	1,2	31719	C19H38O2	methyl stearate	112-61-8	21.089	350.736	1,2
31133	C18H38	2-methylheptadecane	1560-89-0	15.148	327.921	1,2	31726	C19H38S	thiacycloeicosane	66359-61-3	14.498	353.372	2
31134	C18H38	3-methylheptadecane	6418-44-6	15.217	325.697	1,2	31727	C19H39Br	1-bromononadecane	4434-66-6	15.644	355.830	2
31135	C18H38	2,2-dimethylhexadecane	19486-08-9	14.963	328.048	1,2	31728	C19H39Cl	1-chlorononadecane	62016-76-6	15.544	352.535	2
31136	C18H38	2,3-dimethylhexadecane	61868-02-8	15.285	321.622	1,2	31729	C19H39F	1-fluorononadecane	1480-63-3	15.108	346.251	2
31137	C18H38	2,4-dimethylhexadecane	61868-08-4	14.866	325.489	1,2	31730	C19H39I	1-iodononadecane	62127-51-9	15.902	365.146	2
31140	C18H38O	1-octadecanol	112-92-5	17.764	332.664	1,2	31732	C19H39NO2	1-nitrononadecane	66359-36-2	14.145	390.325	2
31141	C18H38O	2-octadecanol	593-32-8	15.287	336.604	2	31733	C19H40	7-hexyltridecane	7225-66-3	14.942	342.205	1,2
31142	C18H38O	3-octadecanol, (±)	111897-18-8	14.954	337.105	1,2	31734	C19H40	2,6,10,14-tetramethylpentadecane	1921-70-6	14.173	344.663	1,2
31143	C18H38O	dinonyl ether	2456-27-1	15.007	339.424	1,2	31735	C19H40	nonadecane	629-92-5	16.012	345.147	1,2
31144	C18H38O2	1,2-octadecanediol	20294-76-2	16.068	344.905	2	31736	C19H40	2-methyloctadecane	1560-88-9	15.094	344.353	1,2
31145	C18H38O2	1,3-octadecanediol	---	15.668	355.663	2	31737	C19H40	3-methyloctadecane	6561-44-0	15.161	342.116	1,2
31146	C18H38O2	1,4-octadecanediol	---	16.056	354.449	2	31738	C19H40	2,2-dimethylheptadecane	53594-82-4	14.864	344.344	2
31147	C18H38O2	1,18-octadecanediol	3155-43-9	16.275	346.731	2	31739	C19H40	2,3-dimethylheptadecane	61868-03-9	15.229	337.897	1,2
31149	C18H38S	1-octadecanethiol	2885-00-9	16.655	339.907	1,2	31740	C19H40	2,4-dimethylheptadecane	61868-09-5	14.807	341.811	1,2
31150	C18H38S	2-octadecanethiol	62155-06-0	15.673	339.611	2	31742	C19H40O	1-nonadecanol	1454-84-8	17.268	352.150	2
31151	C18H38S	2-thianonadecane	62155-11-7	16.300	339.493	1,2	31743	C19H40O	2-nonadecanol	26533-36-8	15.320	349.407	2
31152	C18H38S	dinonyl sulfide	929-98-6	16.803	339.366	2	31744	C19H40O2	1,2-nonadecanediol	39516-65-9	15.193	376.209	2
31153	C18H38S	methyl heptadecyl sulfide	---	16.803	339.366	2	31745	C19H40O2	1,3-nonadecanediol	66359-38-4	16.189	359.742	2
31154	C18H38S	ethyl hexadecyl sulfide	66292-31-7	16.803	339.366	2	31746	C19H40O2	1,4-nonadecanediol	---	15.772	374.081	2
31155	C18H38S	propyl pentadecyl sulfide	66292-32-8	16.803	339.366	2	31747	C19H40O2	1,19-nonanecanediol	---	15.335	379.086	2
31156	C18H38S	butyl tetradecyl sulfide	66292-33-9	16.803	339.366	2	31750	C19H40S	1-nonadecanethiol	62155-07-1	16.463	354.923	2
31157	C18H38S2	dinonyl disulfide	4485-77-2	16.599	358.416	1,2	31751	C19H40S	2-nonadecanethiol	---	15.603	354.238	2
31162	C18H39N	octadecylamine	124-30-1	16.169	320.469	1,2	31752	C19H40S	methyl octadecyl sulfide	40289-98-3	16.624	353.958	2
31163	C18H39N	methylheptadecylamine	66292-34-0	15.628	330.940	2	31753	C19H40S	ethyl heptadecyl sulfide	66359-40-8	16.624	353.958	2
31164	C18H39N	ethylhexadecylamine	5877-76-9	15.667	330.940	2	31754	C19H40S	propyl hexadecyl sulfide	66359-41-9	16.624	353.958	2
31165	C18H39N	dinonylamine	2044-21-5	15.456	334.593	1,2	31755	C19H40S	butyl pentadecyl sulfide	66359-42-0	16.624	353.958	2
31166	C18H39N	dimethylhexadecylamine	112-69-6	15.257	337.738	1,2	31756	C19H41N	nonadecylamine	14130-05-3	15.748	352.592	2
31167	C18H39N	diethyltetradecylamine	7307-58-6	15.001	330.989	2	31757	C19H41N	methyloctadecylamine	2439-55-6	15.382	350.300	2
31168	C18H39N	trihexylamine	102-86-3	14.081	339.097	1,2	31758	C19H41N	ethylheptadecylamine	66359-43-1	15.415	350.298	2
31477	C19H22	1,1-diphenyl-1-heptene	1530-20-7	17.034	261.061	1,2	31759	C19H41N	dimethylheptadecylamine	3002-57-1	15.415	346.001	2
31535	C19H24	1,1-diphenylheptane	1530-05-8	16.805	266.723	1,2	31760	C19H41N	diethylpentadecylamine	36555-73-4	14.962	346.001	2
31568	C19H26	1-nonylnaphthalene	26438-26-6	17.416	272.393	1,2	31976	C20H16	triphenylethylene	58-72-0	18.629	245.718	1,2
31569	C19H26	2-nonylnaphthalene	61886-67-7	17.308	276.208	1,2	32214	C20H24	1,1-diphenyl-1-octene	1530-21-8	16.902	277.947	1,2
31621	C19H30	1-nonyl-[1,2,3,4-tetrahydronaphthalene]	33425-49-9	16.160	296.981	2	32259	C20H26	1,1-diphenyloctane	1530-06-9	16.602	283.644	1,2
31622	C19H30	2-nonyl-[1,2,3,4-tetrahydronaphthalene]	26437-45-6	16.215	296.943	2	32260	C20H26	2,5-dimethyl-2,5-diphenylhexane	17648-05-4	16.168	289.269	2
31646	C19H32	tridecylbenzene	123-02-4	16.961	306.067	1,2	32262	C20H26	3,4-dimethyl-3,4-diphenylhexane	10192-93-5	16.612	282.345	2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
32302	C20H28	1-decylnaphthalene	26438-27-7	17.186	289.270	1,2	32541	C20H42S	ethyl octadecyl sulfide	41947-84-6	16.329	371.591	2
32303	C20H28	2-decylnaphthalene	14188-79-5	17.202	291.121	1,2	32542	C20H42S	propyl heptadecyl sulfide	66455-35-4	16.329	371.591	2
32346	C20H30O2	abietic acid	514-10-3	16.933	342.633	2	32543	C20H42S	butyl hexadecyl sulfide	18437-89-3	16.329	371.591	2
32358.1	C20H30O2	isopimaric acid	5835-26-7	14.743	356.230	2	32544	C20H42S2	didecyl disulfide	10496-18-1	16.101	391.735	1,2
32367	C20H31N	dehydroabietylamine	1446-61-3	17.117	312.042	2	32546	C20H43N	eicosylamine	10525-37-8	15.470	378.803	2
32376	C20H32	1-decyl-[1,2,3,4-tetrahydronaphthalene]	55255-57-7	15.898	315.991	2	32547	C20H43N	methylnonadecylamine	66455-36-5	15.209	373.534	2
32377	C20H32	2-decyl-[1,2,3,4-tetrahydronaphthalene]	66455-67-2	15.934	315.953	2	32548	C20H43N	ethyloctadecylamine	7317-85-3	15.297	373.005	2
32391.1	C20H32O2	isoagatholal	17990-11-3	18.657	331.919	2	32549	C20H43N	didecylamine	1120-49-6	15.135	372.444	2
32399	C20H34	1-phenyltetradecane	1459-10-5	16.246	322.550	1,2	32550	C20H43N	dimethyloctadecylamine	124-28-7	15.169	370.663	1,2
32407.1	C20H34O2	agathadiol	1857-24-5	18.848	347.209	2	32551	C20H43N	diethylhexadecylamine	30951-88-3	14.731	369.650	1,2
32436	C20H38	1-eicosyne	765-27-5	15.663	348.966	1,2	32860	C21H26	1,1-diphenyl-1-nonene	1530-26-3	16.741	294.705	1,2
32437	C20H38	2-eicosyne	61847-99-2	13.962	374.380	2	32914	C21H28	1,1-diphenylnonane	1726-13-2	16.412	300.336	1,2
32438	C20H38	3-eicosyne	61886-66-6	13.518	376.797	2	32944	C21H30	1-undecylnaphthalene	7225-71-0	17.019	305.537	1,2
32439	C20H38	1,1-dicyclohexyloctane	62016-87-9	14.850	347.591	2	32945	C21H30	2-undecylnaphthalene	61886-68-8	17.052	307.399	1,2
32440	C20H38	1-pentadecylcyclopentene	62184-80-9	15.398	335.407	1,2	32998	C21H36	pentadecylbenzene	2131-18-2	16.209	339.033	1,2
32445	C20H38O2	cis-9-eicosenoic acid	29204-02-2	14.668	349.607	1,2	33021	C21H40	1,1-dicyclohexylnonane	62155-19-5	14.751	361.919	2
32446	C20H38O2	9-eicosenoic acid	506-31-0	14.668	349.607	1,2	33022	C21H40	1-hexadecylcyclopentene	62184-81-0	15.235	353.006	2
32447	C20H38O2	11-eicosenoic acid	2462-94-4	14.622	351.825	1,2	33023	C21H40	1-heneicosyne	61847-81-2	15.259	356.117	2
32450	C20H38O2	cis-11-eicosenoic acid	5561-99-9	14.625	351.665	1,2	33032	C21H41N	heneicosanenitrile	66326-13-4	15.818	367.251	2
32450.1	C20H38O2	cetyl methacrylate	2495-27-4	14.516	357.472	2	33036	C21H42	hexadecylcyclopentane	6812-39-1	15.723	359.664	1,2
32457	C20H39Br	cis-1-bromo-1-eicosene	66455-60-5	14.790	378.783	2	33037	C21H42	pentadecylcyclohexane	6006-95-7	15.517	358.430	1,2
32458	C20H39Br	trans-1-bromo-1-eicosene	66455-61-6	14.790	378.783	2	33038	C21H42	1-heneicosene	1599-68-4	15.288	360.762	2
32459	C20H39Br3	1,1,1-tribromoeicosane	62127-76-8	13.509	458.203	2	33039	C21H42Br2	1,1-dibromoheneicosane	62168-38-1	14.166	438.029	2
32460	C20H39Cl	cis-1-chloro-1-eicosene	66455-62-7	15.359	367.545	2	33040	C21H42Cl2	1,1-dichloroheneicosane	62017-23-6	14.670	415.078	2
32461	C20H39Cl	trans-1-chloro-1-eicosene	66455-41-2	15.359	367.545	2	33041	C21H42F2	1,1-difluoroheneicosane	62127-10-0	13.776	404.599	2
32462	C20H39Cl3	1,1,1-trichloroeicosane	62108-64-9	14.298	421.705	2	33042	C21H42I2	1,1-diiodoheneicosane	66326-14-5	16.455	444.430	2
32463	C20H39F	cis-1-fluoro-1-eicosene	66455-42-3	15.566	360.431	2	33043	C21H42O2	eicosyl formate	66326-15-6	18.632	409.469	2
32464	C20H39F	trans-1-fluoro-1-eicosene	66455-43-4	15.566	360.431	2	33044	C21H42O2	nonadecyl acetate	53939-51-8	20.099	387.387	2
32465	C20H39F3	1,1,1-trifluoroeicosane	62126-86-7	13.038	406.820	2	33045	C21H42O2	octadecyl propanoate	52663-48-6	20.034	385.532	2
32466	C20H39I	cis-1-iodo-1-eicosene	66455-45-6	14.983	386.351	2	33046	C21H42O2	heptadecyl butanoate	84869-41-0	19.013	404.286	2
32467	C20H39I	trans-1-iodo-1-eicosene	66455-44-5	14.983	386.351	2	33047	C21H42O2	isopropyl stearate	112-10-7	20.374	386.124	1,2
32468	C20H39I3	1,1,1-triiodoeicosane	---	16.573	463.077	2	33048	C21H42O2	propyl stearate	3634-92-2	20.419	384.105	1,2
32469	C20H39N	eicosanenitrile	4616-73-3	15.972	350.582	2	33049	C21H42O2	methyl eicosanoate	1120-28-1	20.137	389.370	2
32473	C20H40	pentadecylcyclopentane	4669-01-6	15.858	342.956	1,2	33050	C21H42O2	heneicosanoic acid	2363-71-5	17.493	396.823	2
32474	C20H40	tetradecylcyclohexane	1795-18-2	15.624	341.287	1,2	33051	C21H42O2	isopropyl isostearate	68171-33-5	20.310	386.529	2
32475	C20H40	cycloeicosane	296-56-0	15.124	331.448	1,2	33055	C21H43Br	1-bromoheneicosane	4276-50-0	15.335	390.781	2
32476	C20H40	1-eicosene	3452-07-1	16.268	355.503	1,2	33056	C21H43Cl	1-chloroheneicosane	66326-16-7	15.198	387.682	2
32476.1	C20H40	trans-2-eicosene	42448-85-1	17.193	294.028	2	33057	C21H43F	1-fluoroheneicosane	62126-78-7	14.796	381.497	2
32477	C20H40	2-methyl-1-nonadecene	52254-50-9	15.211	353.411	1,2	33058	C21H43I	1-iodoheneicosane	62127-52-0	15.542	399.878	2
32479	C20H40Br2	1,1-dibromoeicosane	62168-37-0	14.388	417.298	2	33059	C21H44	heneicosane	629-94-7	14.894	380.077	1,2
32480	C20H40Cl2	1,1-dichloroeicosane	62017-22-5	14.902	395.048	2	33062	C21H44O	henicosanol	15594-90-8	14.673	387.020	2
32481	C20H40F2	1,1-difluoroeicosane	62127-09-7	13.919	383.383	2	33065	C21H45N	heneicosylamine	14130-15-5	15.315	387.185	2
32482	C20H40I2	1,1-diiodoeicosane	66455-47-8	16.527	425.351	2	33066	C21H45N	methyleicosylamine	66326-20-3	15.050	384.437	2
32486	C20H40O	eicosanal	2400-66-0	15.325	359.456	2	33067	C21H45N	ethylnonadecylamine	66326-79-0	15.100	384.394	2
32487	C20H40O	2-eicosanone	29703-52-4	15.051	361.705	2	33068	C21H45N	isopropyloctadecylamine	13329-71-0	14.915	384.528	2
32489	C20H40O	3,7,11,15-tetramethyl-1-hexadecen-3-ol	505-32-8	15.596	349.244	1,2	33069	C21H45N	dimethylnonadecylamine	49859-87-2	15.216	379.309	2
32491	C20H40O2	eicosanoic acid	506-30-9	15.548	372.656	1,2	33070	C21H45N	diethylheptadecylamine	66326-18-9	14.773	379.344	2
32492	C20H40O2	3,7,11,15-tetramethylhexadecanoic acid	14721-66-5	17.965	344.052	2	33071	C21H45N	triheptylamine	2411-36-1	14.589	379.360	2
32493	C20H40O2	nonadecyl formate	66455-49-0	18.508	364.612	2	33313	C22H28	1,1-diphenyl-1-decene	1530-27-4	16.600	311.430	1,2
32494	C20H40O2	octadecyl acetate	822-23-1	19.224	368.009	1,2	33343	C22H30	1,1-diphenyldecane	1530-07-0	16.041	316.952	1,2
32495	C20H40O2	heptadecyl propanoate	---	18.874	359.749	2	33361	C22H32	1-dodecylnaphthalene	26438-28-8	16.829	322.482	1,2
32496	C20H40O2	hexadecyl butanoate	6221-99-4	18.883	359.754	2	33362	C22H32	2-dodecylnaphthalene	60899-39-0	16.824	325.464	1,2
32497	C20H40O2	decyl decanoate	1654-86-0	19.078	365.205	1,2	33401	C22H38	1-phenylhexadecane	1459-09-2	16.168	355.668	1,2
32498	C20H40O2	butyl palmitate	111-06-8	19.660	343.919	2	33425	C22H42	1,1-dicyclohexyldecane	62155-20-8	14.538	381.561	2
32499	C20H40O2	ethyl stearate	111-61-5	21.021	298.698	1,2	33426	C22H42	1-docosyne	61847-82-3	15.119	373.694	2
32500	C20H40O2	methyl nonadecanoate	1731-94-8	19.406	347.877	2	33431	C22H42O2	cis-13-docosenoic acid	112-86-7	14.021	389.635	1,2
32504	C20H40S	thiacycloheneicosane	42425-07-0	14.290	371.725	2	33432	C22H42O2	trans-13-docosenoic acid	506-33-2	13.789	395.381	1,2
32505	C20H41Br	1-bromoeicosane	4276-49-7	15.559	371.926	2	33433	C22H42O2	13-docosenoic acid	1072-39-5	13.844	399.700	1,2
32506	C20H41Cl	1-chloroeicosane	42217-02-7	15.387	369.510	2	33454	C22H44	heptadecylcyclopentane	62016-52-8	15.233	381.638	2
32507	C20H41F	1-fluoroeicosane	676-44-8	15.053	362.492	2	33455	C22H44	hexadecylcyclohexane	6812-38-0	15.394	376.043	1,2
32508	C20H41I	1-iodoeicosane	34994-81-5	15.770	381.625	2	33456	C22H44	1-docosene	1599-67-3	14.873	392.068	1,2
32511	C20H41NO2	1-nitroeicosane	66455-50-3	13.898	411.608	2	33457	C22H44Br2	1,1-dibromodocosane	62168-39-2	13.936	458.998	2
32515	C20H42	eicosane	112-95-8	15.790	363.038	1,2	33458	C22H44Cl2	1,1-dichlorodocosane	62017-24-7	14.446	435.276	2
32516	C20H42	2-methylnonadecane	1560-86-7	15.026	360.814	1,2	33459	C22H44F2	1,1-difluorodocosane	62127-11-1	13.540	425.444	2
32517	C20H42	3-methylnonadecane	6418-45-7	15.090	358.570	1,2	33460	C22H44I2	1,1-diiododocosane	66326-05-4	16.381	463.528	2
32518	C20H42	2,2-dimethyloctadecane	61869-06-5	14.688	363.489	2	33462	C22H44O	cis-13-docosen-1-ol	629-98-1	15.139	386.196	1,2
32519	C20H42	2,3-dimethyloctadecane	61868-04-0	15.177	354.210	1,2	33463	C22H44O2	eicosyl acetate	822-24-2	21.606	403.049	2
32520	C20H42	2,4-dimethyloctadecane	61868-10-8	14.751	358.161	1,2	33464	C22H44O2	nonadecyl propanoate	66326-06-5	20.186	423.420	2
32522	C20H42O	1-eicosanol	629-96-9	17.801	366.466	1,2	33465	C22H44O2	octadecyl butanoate	13373-83-6	20.196	423.424	2
32523	C20H42O	2-eicosanol	4340-76-5	15.188	366.382	1,2	33466	C22H44O2	butyl stearate	123-95-5	15.828	399.152	1,2
32524	C20H42O	didecyl ether	2456-28-2	14.607	366.008	1,2	33467	C22H44O2	isobutyl stearate	646-13-9	20.474	403.064	1,2
32525	C20H42O	2-octyl-1-dodecanol	5333-42-6	15.011	356.268	1,2	33468	C22H44O2	docosanoic acid	112-85-6	16.346	411.875	1,2
32526	C20H42O2	1,2-eicosanediol	39825-93-9	15.735	379.089	2	33469	C22H44O2	ethyl eicosanoate	18281-05-5	20.211	405.824	2
32527	C20H42O2	1,3-eicosanediol	---	15.134	395.278	2	33470	C22H44O2	methyl heneicosanoate	6064-90-0	20.227	405.550	2
32528	C20H42O2	1,4-eicosanediol	---	15.501	393.780	2	33473	C22H45Br	1-bromodocosane	6938-66-5	15.243	406.834	2
32529	C20H42O2	1,20-eicosanediol	---	15.074	398.992	2	33474	C22H45Cl	1-chlorodocosane	42217-03-8	15.079	404.473	2
32537	C20H42S	1-eicosanethiol	13373-97-2	16.187	372.221	2	33475	C22H45F	1-fluorodocosane	62126-79-8	14.709	397.748	2
32538	C20H42S	2-eicosanethiol	62155-08-2	15.492	371.687	2	33476	C22H45I	1-iododocosane	62127-53-1	15.386	416.342	2
32539	C20H42S	didecyl sulfide	693-83-4	16.329	371.591	2	33477	C22H46	docosane	629-97-0	14.767	397.809	1,2
32540	C20H42S	methyl nonadecyl sulfide	62155-12-8	16.329	371.591	2	33479	C22H46O	1-docosanol	661-19-8	14.548	404.558	2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
33483	C22H47N	docosylamine	14130-06-4	15.155	405.102	2	34150	C25H36	1,1-diphenyltridecane	62155-14-0	15.798	364.117	2
33484	C22H47N	methylheneicosylamine	66326-08-7	14.916	401.522	2	34171	C25H44	nonadecylbenzene	29136-19-4	15.245	408.408	1,2
33485	C22H47N	ethyleicosylamine	66326-07-6	14.999	400.644	2	34172	C25H44	(3-octylundecyl)benzene	5637-96-7	15.425	403.855	1,2
33486	C22H47N	diundecylamine	16165-33-6	15.003	399.841	2	34173	C25H44	9-(4-tolyl)octadecane	4445-08-3	15.559	396.895	1,2
33487	C22H47N	dimethyleicosylamine	45275-74-9	15.036	397.393	2	34178	C25H48	1,1-dicyclohexyltridecane	62155-22-0	13.907	442.012	2
33488	C22H47N	diethyloctadecylamine	30427-51-1	14.602	397.547	2	34179	C25H48	1-pentacosyne	61847-85-6	14.705	426.150	2
33607	C23H30	1,1-diphenyl-1-undecene	1530-28-5	16.443	328.079	1,2	34182	C25H50	eicosylcyclopentane	22331-38-0	14.923	428.502	1,2
33633	C23H32	1,1-diphenylundecane	1530-08-1	16.065	333.557	1,2	34183	C25H50	nonadecylcyclohexane	22349-03-7	14.891	428.646	1,2
33674	C23H40	heptadecylbenzene	14752-75-1	15.570	373.314	1,2	34184	C26H52	heneicosylcyclopentane	6703-82-8	14.770	446.125	1,2
33677	C23H44	1,1-dicyclohexylundecane	62155-21-9	14.319	401.479	2	34185	C25H50	1-pentacosene	16980-85-1	14.671	433.429	2
33678	C23H44	1-tricosyne	61847-83-4	14.986	391.316	2	34186	C25H50	9-octyl-8-heptadecene	24306-18-1	14.791	435.061	1,2
33684	C23H46	octadecylcyclopentane	62016-53-9	15.223	393.378	1,2	34187	C25H50Br2	1,1-dibromopentacosane	62168-04-1	13.268	522.722	2
33685	C23H46	heptadecylcyclohexane	19781-73-8	15.176	393.614	1,2	34188	C25H50Cl2	1,1-dichloropentacosane	62017-27-0	13.764	496.917	2
33686	C23H46	1-tricosene	18835-32-0	14.949	398.773	2	34189	C25H50F2	1,1-difluoropentacosane	62127-14-4	12.877	488.943	2
33687	C23H46	cis-9-tricosene	27519-02-4	13.851	400.271	1,2	34190	C25H50I2	1,1-diiodopentacosane	66359-84-0	16.148	520.815	2
33688	C23H46Br2	1,1-dibromotricosane	62168-40-5	13.712	480.098	2	34192	C25H50O2	methyl tetracosanoate	2442-49-1	25.735	447.852	2
33689	C23H46Cl2	1,1-dichlorotricosane	62017-25-8	14.213	455.687	2	34193	C25H51Br	1-bromopentacosane	62108-45-6	14.703	460.359	2
33690	C23H46F2	1,1-difluorotricosane	62127-12-2	13.329	446.373	2	34194	C25H51Cl	1-chloropentacosane	62016-78-8	14.586	457.497	2
33691	C23H46I2	1,1-diiodotricosane	66325-82-4	16.306	482.633	2	34195	C25H51F	1-fluoropentacosane	62126-82-3	14.224	451.586	2
33694	C23H46O	12-tricosanone	540-09-0	15.219	419.111	1,2	34196	C25H51I	1-iodopentacosane	62127-56-4	14.797	469.008	2
33695	C23H46O2	eicosyl propanoate	65591-14-2	22.595	434.120	2	34197	C25H52	pentacosane	629-99-2	14.378	450.549	1,2
33696	C23H46O2	nonadecyl butanoate	84869-42-1	22.616	434.126	2	34198	C25H52	9-octylheptadecane	7225-64-1	14.706	441.217	1,2
33697	C23H46O2	isopentyl stearate	627-88-3	25.726	416.161	1,2	34199	C25H53N	pentacosylamine	14130-09-7	14.737	456.288	2
33698	C23H46O2	pentyl stearate	6382-13-4	25.987	406.391	2	34200	C25H53N	methyltetracosylamine	66359-78-2	14.475	452.876	2
33699	C23H46O2	methyl docosanoate	929-77-1	25.534	412.691	2	34201	C25H53N	ethyltricosylamine	66359-77-1	14.534	452.799	2
33700	C23H46O2	tricosanoic acid	2433-96-7	18.649	419.240	2	34202	C25H53N	dimethyltricosylamine	66359-76-0	14.539	450.784	2
33701	C23H46O2	isostearyl neopentanoate	58958-60-4	25.866	408.048	2	34203	C25H53N	diethylheneicosylamine	66359-75-9	14.135	451.207	2
33702	C23H47Br	1-bromotricosane	62108-44-5	15.024	425.646	2	34221	C26H20	tetraphenylethylene	632-51-9	16.996	322.929	1,2
33703	C23H47Cl	1-chlorotricosane	62016-77-7	14.889	422.670	2	34296	C26H36	1,1-diphenyl-1-tetradecene	62155-38-8	16.001	377.856	1,2
33704	C23H47F	1-fluorotricosane	62126-80-1	14.515	416.625	2	34302	C26H38	1,1-diphenyltetradecane	55268-63-8	15.611	383.030	1,2
33705	C23H47I	1-iodotricosane	62127-54-2	15.176	434.491	2	34319.1	C26H42O4	heptyl undecyl phthalate	65185-88-8	17.098	433.927	2
33706	C23H48	tricosane	638-67-5	14.615	416.849	1,2	34326	C26H46	eicosylbenzene	2398-68-7	15.082	426.011	1,2
33707	C23H48	9-hexylheptadecane	55124-79-3	14.913	408.419	1,2	34327	C26H46	(1-butylhexadecyl)benzene	2400-04-6	15.235	422.162	1,2
33708	C23H48O	1-tricosanol	3133-01-5	14.440	422.034	2	34328	C26H46	(1-ethyloctadecyl)benzene	2400-02-4	15.242	422.074	1,2
33710	C23H49N	tricosylamine	14130-07-5	15.027	421.979	2	34329	C26H46	(1-methylnonadecyl)benzene	2398-66-5	15.246	421.947	1,2
33711	C23H49N	methyldocosylamine	66375-05-1	14.771	418.903	2	34330	C26H46	(1-octyldodecyl)benzene	2398-65-4	15.278	421.548	1,2
33712	C23H49N	ethylheneicosylamine	66375-04-0	14.818	418.850	2	34331	C26H46	(1-propylheptadecyl)benzene	2400-03-5	15.220	422.623	1,2
33713	C23H49N	dimethylheneicosylamine	66375-03-9	14.875	415.198	2	34338	C26H50	1,1-dicyclohexyltetradecane	55334-08-2	14.947	419.804	1,2
33714	C23H49N	diethylnonadecylamine	66375-02-8	14.452	415.446	2	34339	C26H50	1-hexacosyne	61847-86-7	14.572	443.311	2
33887	C24H32	1,1-diphenyl-1-dodecene	1530-29-6	16.302	344.680	1,2	34348	C26H52	eicosylcyclohexane	4443-55-4	14.749	446.162	1,2
33906	C24H34	1,1-diphenyldodecane	1603-53-8	15.901	350.162	1,2	34349	C26H52	1-hexacosene	18835-33-1	14.521	450.871	2
33924	C24H38O4	diisooctyl phthalate	27554-26-3	17.224	397.318	1,2	34350	C26H52	3-cyclohexyleicosane	4443-57-6	14.775	443.114	2
33925	C24H38O4	dioctyl phthalate	117-84-0	16.984	398.534	1,2	34351	C26H52	9-cyclohexyleicosane	4443-61-2	14.611	447.399	2
33931.1	C24H38O4	heptyl nonyl phthalate	19295-81-9	17.903	398.025	2	34352	C26H52Br2	1,1-dibromohexacosane	62168-05-2	13.031	544.361	2
33959	C24H42	octadecylbenzene	4445-07-2	15.415	390.769	1,2	34353	C26H52Cl2	1,1-dichlorohexacosane	62017-28-1	13.532	517.783	2
33960	C24H42O	dinonylphenol	1323-65-5	17.994	388.868	2	34354	C26H52F2	1,1-difluorohexacosane	62127-15-5	12.652	510.469	2
33967	C24H46	1,1-dicyclohexyldodecane	18254-57-4	14.941	401.878	2	34355	C26H52I2	1,1-diiodohexacosane	66291-94-9	16.063	539.869	2
33968	C24H46	1-tetracosyne	61847-84-5	14.852	408.712	2	34356	C26H52O2	hexacosanoic acid	506-46-7	18.878	480.523	1,2
33970	C24H46O2	cis-15-tetracosenoic acid	506-37-6	13.823	416.298	2	34357	C26H52O2	hexadecyl neodecanoate	67749-11-5	24.221	461.392	2
33971	C24H46O2	trans-15-tetracosenoic acid	14490-79-0	13.674	420.195	2	34358	C26H52O2	octyl stearate	22047-49-0	24.221	461.360	2
33983	C24H48	nonadecylcyclopentane	62016-54-0	15.037	412.893	2	34360	C26H53Br	1-bromohexacosane	4276-51-1	14.599	476.349	2
33984	C24H48	octadecylcyclohexane	4445-06-1	15.050	410.861	1,2	34361	C26H53Cl	1-chlorohexacosane	56134-53-3	14.442	474.356	2
33985	C24H48	1-tetracosene	10192-32-2	14.811	415.938	2	34362	C26H53F	1-fluorohexacosane	62126-83-4	14.109	467.846	2
33986	C24H48Br2	1,1-dibromotetracosane	62168-03-0	13.479	501.429	2	34363	C26H53I	1-iodohexacosane	52644-81-2	14.635	485.357	2
33987	C24H48Cl2	1,1-dichlorotetracosane	62017-26-9	13.986	476.242	2	34364	C26H54	hexacosane	630-01-3	14.213	469.981	1,2
33988	C24H48F2	1,1-difluorotetracosane	62127-13-3	13.091	467.644	2	34365	C26H54	5-butyldocosane	55282-16-1	12.468	523.711	1,2
33989	C24H48I2	1,1-diiodotetracosane	66374-96-7	16.229	501.733	2	34366	C26H54	7-butyldocosane	55282-15-0	14.598	457.252	1,2
33990	C24H48O2	eicosyl butanoate	41927-66-6	30.645	455.407	2	34367	C26H54	9-butyldocosane	55282-14-9	14.597	457.366	1,2
33991	C24H48O2	ethyl docosanoate	5908-87-2	28.470	428.181	2	34368	C26H54	11-butyldocosane	13475-76-8	14.582	457.856	1,2
33992	C24H48O2	tetracosanoic acid	557-59-5	18.980	445.577	1,2	34369	C26H54	11-(2,2-dimethylpropyl)heneicosane	55282-10-5	14.585	458.104	1,2
33993	C24H48O2	hexadecyl 2-ethylhexanoate	59130-69-7	28.471	428.150	2	34370	C26H54	6,11-dipentylhexadecane	15874-03-0	14.622	455.783	1,2
33994	C24H48O2	octyl palmitate	29806-73-3	28.472	428.119	2	34371	C26H54	3-ethyl-5-(2-ethylbutyl)octadecane	55282-12-7	14.661	453.375	1,2
33998	C24H49Br	1-bromotetracosane	6946-24-3	14.922	441.640	2	34372	C26H54	3-ethyltetracosane	55282-17-2	14.551	458.332	1,2
33999	C24H49Cl	1-chlorotetracosane	6422-18-0	14.759	439.502	2	34373	C26H54O	1-hexacosanol	506-52-5	14.192	474.205	2
34000	C24H49F	1-fluorotetracosane	62126-81-2	14.415	432.885	2	34377	C26H55N	hexacosylamine	14130-10-0	14.575	473.739	2
34001	C24H49I	1-iodotetracosane	62127-55-3	15.025	450.898	2	34378	C26H55N	methylpentacosylamine	66291-92-7	14.329	470.000	2
34002	C24H50	tetracosane	646-31-1	14.512	433.004	1,2	34379	C26H55N	ethyltetracosylamine	66291-91-6	14.387	469.918	2
34003	C24H50	2-methyltricosane	1928-30-9	14.598	432.786	1,2	34380	C26H55N	ditridecylamine	5910-75-8	14.338	470.131	2
34004	C24H50O	2-decyl-1-tetradecanol	58670-89-6	14.986	421.212	1,2	34381	C26H55N	dimethyltetracosylamine	66291-90-5	14.398	467.929	2
34005	C24H50O	tetracosanol	506-51-4	14.236	439.528	2	34382	C26H55N	diethyldocosylamine	66291-89-2	13.948	469.620	2
34008	C24H50S	dodecyl sulfide	2469-45-6	14.253	438.591	2	34464	C27H38	1,1-diphenyl-1-pentadecene	62155-39-9	15.854	394.472	1,2
34012	C24H51N	tetracosylamine	14130-08-6	14.878	439.404	2	34475	C27H40	1,1-diphenylpentadecane	62155-15-1	15.443	398.638	2
34013	C24H51N	methyltricosylamine	66374-99-0	14.625	436.027	2	34536	C27H48	heneicosylbenzene	40775-09-5	14.907	443.671	1,2
34014	C24H51N	ethyldocosylamine	66374-98-9	14.682	435.680	2	34537	C27H48	11-phenylheneicosane	6703-80-6	15.138	438.168	1,2
34015	C24H51N	didodecylamine	3007-31-6	14.662	435.425	2	34547	C27H52	1,1-dicyclohexylpentadecane	62155-23-1	13.488	483.526	2
34016	C24H51N	dimethyldocosylamine	21542-96-1	14.687	433.444	2	34548	C27H52	1-heptacosyne	61847-87-8	14.429	460.778	2
34017	C24H51N	diethyleicosylamine	66374-97-8	14.492	428.058	2	34549	C27H54	docosylcyclopentane	62016-55-1	14.628	463.517	1,2
34018	C24H51N	trioctylamine	1116-76-3	14.095	437.285	1,2	34550	C27H54	heneicosylcyclohexane	26718-82-1	14.559	466.899	2
34019	C24H51N	triisooctylamine	2757-28-0	14.837	428.058	2	34551	C27H54	(1-decylundecyl)cyclohexane	6703-99-7	14.701	459.525	2
34140	C25H34	1,1-diphenyl-1-tridecene	62155-37-7	16.154	361.319	1,2	34552	C27H54	1-heptacosene	15306-27-1	14.373	468.269	2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
34553	C27H54Br2	1,1-dibromoheptacosane	62168-06-3	12.815	565.904	2	34960	C30H61I	1-iodotriacontane	62154-82-9	14.174	545.772	1,2
34554	C27H54Cl2	1,1-dichloroheptacosane	62017-29-2	13.305	538.740	2	34961	C30H62	triacontane	638-68-6	13.654	538.195	1,2
34555	C27H54F2	1,1-difluoroheptacosane	62127-16-6	12.434	532.083	2	34962	C30H62	2,6,10,15,19,23-hexamethyltetracosane	111-01-3	12.402	524.286	1,2
34556	C27H54I2	1,1-diiodoheptacosane	66291-84-7	15.974	558.883	2	34963	C30H62	9-octyldocosane	55319-83-0	12.852	522.656	1,2
34557	C27H54O	14-heptacosanone	542-50-7	15.751	493.276	1,2	34964	C30H62O	1-triacontanol	593-50-0	13.855	562.194	1,2
34558	C27H54O2	methyl hexacosanoate	5802-82-4	22.761	482.089	2	34965	C30H63N	triacontylamine	66214-00-4	13.935	542.046	2
34559	C27H55Br	1-bromoheptacosane	62108-46-7	14.390	494.966	2	34966	C30H63N	methylnonacosylamine	66214-04-8	13.681	537.944	2
34560	C27H55Cl	1-chloroheptacosane	62016-79-9	14.266	492.116	2	34967	C30H63N	ethyloctacosylamine	66214-03-7	13.740	538.030	2
34561	C27H55F	1-fluoroheptacosane	62108-81-0	13.917	486.319	2	34968	C30H63N	dipentadecylamine	35551-81-6	13.695	538.310	2
34562	C27H55I	1-iodoheptacosane	62127-57-5	14.337	503.496	2	34969	C30H63N	dimethyloctacosylamine	66214-02-6	13.725	537.415	2
34563	C27H56	heptacosane	593-49-7	14.066	488.041	1,2	34970	C30H63N	diethylhexacosylamine	66214-01-5	13.661	527.969	2
34566	C27H57N	heptacosylamine	14130-11-1	14.433	490.597	2	34971	C30H63N	tri-N-decylamine	1070-01-5	13.307	536.237	1,2
34567	C27H57N	methylhexacosylamine	66291-81-4	14.169	487.144	2	35019	C31H56	pentacosylbenzene	61828-06-6	14.230	513.254	1,2
34568	C27H57N	ethylpentacosylamine	66291-80-3	14.225	487.056	2	35020	C31H56	13-phenylpentacosane	6006-90-2	14.484	505.605	1,2
34569	C27H57N	dimethylpentacosylamine	66291-79-0	14.235	485.311	2	35023	C31H60	1-hentriacontyne	61847-91-4	13.827	529.843	2
34570	C27H57N	diethyltricosylamine	66291-86-9	13.837	485.847	2	35025	C31H62	hexacosylcyclopentane	62016-58-4	13.985	533.004	1,2
34571	C27H57N	trinonylamine	2044-22-6	13.560	486.253	2	35026	C31H62	pentacosylcyclohexane	61828-10-2	13.991	533.057	1,2
34663	C28H40	1,1-diphenyl-1-hexadecene	13456-25-2	15.698	411.029	1,2	35027	C31H62	1-hentriacontene	18435-54-6	13.866	532.000	2
34677	C28H42	1,1-diphenylhexadecane	13456-23-0	15.385	413.131	2	35028	C31H62	13-cyclohexylpentacosane	6697-15-0	14.237	522.866	2
34691	C28H46O4	diisodecyl phthalate	26761-40-0	16.018	459.066	1,2	35029	C31H62Br2	1,1-dibromohentriacontane	62168-10-9	11.951	652.657	2
34704	C28H50	docosylbenzene	5634-22-0	14.744	461.140	1,2	35030	C31H62Cl2	1,1-dichlorohentriacontane	62017-33-8	12.405	623.353	2
34712	C28H54	1,1-dicyclohexylhexadecane	13287-09-7	13.286	504.572	2	35031	C31H62F2	1,1-difluorohentriacontane	62127-20-2	11.559	619.523	2
34713	C28H54	1-octacosyne	61847-88-9	14.281	477.971	2	35032	C31H62I2	1,1-diiodohentriacontane	66214-07-1	15.578	634.320	2
34716	C28H56	tricosylcyclopentane	62016-56-2	14.438	482.784	2	35033	C31H62O	16-hentriacontanone	502-73-8	17.888	564.965	1,2
34717	C28H56	docosylcyclohexane	61828-07-7	14.461	480.988	1,2	35034	C31H63Br	1-bromohentriacontane	62108-48-9	13.701	563.700	2
34718	C28H56	1-octacosene	18835-34-2	14.212	485.668	2	35035	C31H63Cl	1-chlorohentriacontane	62016-83-5	13.597	561.086	2
34719	C28H56Br2	1,1-dibromooctacosane	62168-07-4	12.590	587.627	2	35036	C31H63F	1-fluorohentriacontane	62108-85-4	13.274	555.470	2
34720	C28H56Cl2	1,1-dichlorooctacosane	62017-30-5	13.083	559.761	2	35037	C31H63I	1-iodohentriacontane	57094-91-4	13.653	571.621	2
34721	C28H56F2	1,1-difluorooctacosane	62127-17-7	12.205	553.910	2	35039	C31H64	hentriacontane	630-04-6	13.448	559.312	1,2
34722	C28H56I2	1,1-diiodooctacosane	66291-74-5	15.881	577.846	2	35040	C31H64	11-decylheneicosane	55320-06-4	13.910	539.825	1,2
34723	C28H56O2	octacosanoic acid	506-48-9	18.795	515.834	1,2	35041	C31H65N	hentriacontylamine	66214-08-2	13.778	558.849	2
34728	C28H57Br	1-bromooctacosane	16331-21-8	14.257	510.927	2	35042	C31H65N	methyltriacontylamine	66214-12-8	13.517	554.750	2
34729	C28H57Cl	1-chlorooctacosane	62016-80-2	14.121	508.964	2	35043	C31H65N	ethylnonacosylamine	66214-11-7	13.580	554.628	2
34730	C28H57F	1-fluorooctacosane	62108-82-1	13.800	502.540	2	35044	C31H65N	dimethylnonacosylamine	66214-10-6	13.559	554.508	2
34731	C28H57I	1-iodooctacosane	62154-80-7	14.257	519.677	2	35045	C31H65N	diethylheptacosylamine	66214-09-3	13.198	555.226	2
34732	C28H58	octacosane	630-02-4	13.957	503.152	1,2	35105	C32H58	hexacosylbenzene	13024-80-1	14.055	530.802	1,2
34733	C28H58	2,2,4,10,12,12-hexamethyl-7-(3,5,5-trimethyl*	3035-75-4	14.283	493.295	1,2	35108	C32H62	1-dotriacontyne	61847-92-5	13.665	547.036	2
34734	C28H58	7-hexyldocosane	55373-86-9	14.346	490.095	1,2	35111	C32H64	heptacosylcyclopentane	61827-90-5	13.797	551.917	2
34735	C28H58	9-octyleicosane	13475-77-9	14.342	490.398	1,2	35112	C32H64	hexacosylcyclohexane	61828-11-3	13.832	550.268	1,2
34737	C28H58O	1-octacosanol	557-61-9	14.199	508.853	2	35113	C32H64	1-dotriacontene	18435-55-7	13.666	551.427	2
34738	C28H59N	octacosylamine	14130-12-2	14.257	508.062	2	35114	C32H64Br2	1,1-dibromodotriacontane	62168-11-0	11.736	674.385	2
34739	C28H59N	methylheptacosylamine	66291-78-9	14.005	503.993	2	35115	C32H64Cl2	1,1-dichlorodotriacontane	62017-34-9	12.190	644.522	2
34740	C28H59N	ethylhexacosylamine	66291-77-8	14.065	504.131	2	35116	C32H64F2	1,1-difluorodotriacontane	62127-21-3	11.343	641.525	2
34741	C28H59N	ditetradecylamine	17361-44-3	14.016	504.453	2	35117	C32H64I2	1,1-diiododotriacontane	66214-13-9	15.470	652.973	2
34742	C28H59N	dimethylhexacosylamine	66291-76-7	14.070	502.797	2	35122	C32H65Br	1-bromodotriacontane	7596-92-1	13.564	579.556	2
34743	C28H59N	diethyltetracosylamine	66291-75-6	13.681	503.393	2	35123	C32H65Cl	1-chlorodotriacontane	62016-84-6	13.447	577.576	2
34812	C29H52	tricosylbenzene	61828-04-4	14.569	478.597	1,2	35124	C32H65F	1-fluorodotriacontane	62108-86-5	13.140	571.614	2
34814	C29H56	1-nonacosyne	61847-89-0	14.124	495.477	2	35125	C32H65I	1-iododotriacontane	62154-83-0	13.475	587.832	2
34815	C29H58	tetracosylcyclopentane	62016-57-3	14.280	499.911	2	35126	C32H66	dotriacontane	544-85-4	13.344	573.117	1,2
34816	C29H58	tricosylcyclohexane	61828-08-8	14.299	498.363	1,2	35127	C32H66	3-methylhentriacontane	4981-99-1	13.363	571.312	1,2
34817	C29H58	1-nonacosene	18835-35-3	14.169	499.853	2	35129	C32H67N	dotriacontylamine	66214-14-0	13.601	575.966	2
34818	C29H58Br2	1,1-dibrononacosane	62168-08-5	12.371	609.350	2	35130	C32H67N	methylhentriacontylamine	66214-18-4	13.332	571.885	2
34819	C29H58Cl2	1,1-dichlorononacosane	62017-31-6	12.851	580.942	2	35131	C32H67N	ethyltriacontylamine	66214-17-3	13.397	572.058	2
34820	C29H58F2	1,1-difluorononacosane	62127-18-8	11.983	575.783	2	35132	C32H67N	dihexadecylamine	16724-63-3	13.351	572.464	2
34821	C29H58I2	1,1-diiodononacosane	66213-91-0	15.784	596.746	2	35133	C32H67N	dimethyltriacontylamine	66214-16-2	13.382	572.013	2
34823	C29H59Br	1-bromononacosane	62108-47-8	14.056	529.404	2	35134	C32H67N	diethyloctacosylamine	66214-15-1	13.017	572.815	2
34824	C29H59Cl	1-chlorononacosane	62016-81-3	13.934	526.762	2	35178	C33H60	heptacosylbenzene	61828-25-9	13.877	548.006	1,2
34825	C29H59F	1-fluorononacosane	62108-83-2	13.597	521.071	2	35179	C33H64	1-tritriacontyne	61847-93-6	13.502	564.214	2
34826	C29H59I	1-iodononacosane	62154-81-8	14.035	537.568	2	35180	C33H66	octacosylcyclopentane	61827-91-6	13.636	569.051	2
34827	C29H60	nonacosane	630-03-5	13.805	520.752	1,2	35181	C33H66	heptacosylcyclohexane	61828-12-4	13.623	570.639	2
34828	C29H60O	1-nonacosanol	6624-76-6	14.147	526.376	2	35182	C33H66	1-tritriacontene	61868-11-9	13.496	568.541	2
34829	C29H61N	nonacosylamine	66213-93-2	14.101	524.913	2	35183	C33H66Br2	1,1-dibromotritriacontane	62168-12-1	11.529	695.992	2
34830	C29H61N	methyloctacosylamine	66213-97-6	13.845	521.121	2	35184	C33H66Cl2	1,1-dichlorotritriacontane	62017-35-0	11.969	665.787	2
34831	C29H61N	ethylheptacosylamine	66213-96-5	13.911	521.004	2	35185	C33H66F2	1,1-difluorotritriacontane	62127-22-4	11.134	663.447	2
34832	C29H61N	dimethylheptacosylamine	66213-95-4	13.904	519.900	2	35186	C33H66I2	1,1-diiodotritriacontane	66214-19-5	15.360	671.524	2
34833	C29H61N	diethylpentacosylamine	66213-94-3	13.524	520.530	2	35187	C33H67Br	1-bromotritriacontane	62108-49-0	13.351	597.831	2
34922.1	C30H48O6	tri-n-heptyl trimellitate	1528-48-9	18.801	347.404	2	35188	C33H67Cl	1-chlorotritriacontane	62016-85-7	13.250	595.369	2
34936	C30H54	tetracosylbenzene	61828-05-5	14.394	496.072	1,2	35189	C33H67F	1-fluorotritriacontane	62108-87-6	12.949	589.473	2
34940	C30H58	1-triacontyne	61847-90-3	13.976	512.665	2	35190	C33H67I	1-iodotritriacontane	62154-84-1	13.272	605.496	2
34946	C30H60	pentacosylcyclopentane	62016-74-4	14.126	517.329	2	35191	C33H68	tritriacontane	630-05-7	13.275	582.257	2
34947	C30H60	tetracosylcyclohexane	61828-09-9	14.151	515.725	1,2	35192	C33H69N	tritriacontylamine	---	13.432	592.745	2
34948	C30H60	1-triacontene	18435-53-5	13.898	520.256	2	35193	C33H69N	methyldotriacontylamine	66214-25-3	13.169	588.651	2
34949	C30H60Br2	1,1-dibromotriacontane	62168-09-6	12.158	631.038	2	35194	C33H69N	ethylhentriacontylamine	66214-24-2	13.229	588.523	2
34950	C30H60Cl2	1,1-dichlorotriacontane	62017-32-7	12.625	602.149	2	35195	C33H69N	dimethylhentriacontylamine	66214-23-1	13.205	589.106	2
34951	C30H60F2	1,1-difluorotriacontane	62127-19-9	11.768	597.667	2	35196	C33H69N	diethylnonacosylamine	66214-22-0	12.862	589.906	2
34952	C30H60I2	1,1-diiodotriacontane	66213-98-7	15.683	615.575	2	35197	C33H69N	triundecylamine	42910-16-7	12.598	590.573	2
34954	C30H60O2	triacontanoic acid	506-50-3	18.943	539.647	2	35257	C34H62	octacosylbenzene	61828-26-0	13.699	565.200	1,2
34957	C30H61Br	1-bromotriacontane	4209-22-7	13.920	545.317	2	35260	C34H66	1-tetratriacontyne	26185-83-1	13.336	581.071	2
34958	C30H61Cl	1-chlorotriacontane	62016-82-4	13.784	543.296	2	35263	C34H67I	1-iodotetratriacontane	62154-85-2	13.196	612.608	2
34959	C30H61F	1-fluorotriacontane	62108-84-3	13.464	537.273	2	35265	C34H68	nonacosylcyclopentane	61827-92-7	13.463	586.200	2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
35266	C34H68	octacosylcyclohexane	61828-13-5	13.491	584.649	1,2	35514	C38H74	1-octatriacontyne	---	12.673	648.865	2
35267	C34H68	1-tetratriacontene	61868-12-0	13.244	588.847	2	35518	C38H76	tritriacontylcyclopentane	---	12.772	654.340	2
35268	C34H68Br2	1,1-dibromotetratriacontane	62168-13-2	11.329	717.442	2	35519	C38H76	dotriacontylcyclohexane	61828-17-9	12.809	652.864	1,2
35269	C34H68Cl2	1,1-dichlorotetratriacontane	62017-36-1	11.755	686.971	2	35520	C38H76	1-octatriacontene	61868-16-4	12.568	656.675	2
35270	C34H68F2	1,1-difluorotetratriacontane	62127-23-5	10.933	685.249	2	35521	C38H76Br2	1,1-dibromooctatriacontane	62168-17-6	10.587	801.466	2
35271	C34H68I2	1,1-diiodotetratriacontane	66214-26-4	15.247	689.965	2	35522	C38H76Cl2	1,1-dichlorooctatriacontane	62017-40-7	10.962	770.439	2
35274	C34H69Br	1-bromotetratriacontane	62108-50-3	13.202	613.655	2	35523	C38H76F2	1,1-difluorooctatriacontane	62126-87-8	10.188	771.002	2
35275	C34H69Cl	1-chlorotetratriacontane	62016-86-8	13.089	611.836	2	35524	C38H76I2	1,1-diiodooctatriacontane	66577-13-7	14.788	762.447	2
35276	C34H69F	1-fluorotetratriacontane	62108-88-7	12.803	605.587	2	35526	C38H77Br	1-bromooctatriacontane	62108-53-6	12.501	681.213	2
35277	C34H70	tetratriacontane	14167-59-0	12.970	612.704	1,2	35527	C38H77Cl	1-chlorooctatriacontane	62016-90-4	12.400	679.398	2
35278	C34H70	11-decyltetracosane	55429-84-0	13.444	588.449	1,2	35528	C38H77F	1-fluorooctatriacontane	62108-92-3	12.138	673.190	2
35280	C34H71N	tetratriacontylamine	66214-29-7	13.246	609.839	2	35529	C38H77I	1-iodooctatriacontane	62154-89-6	12.360	688.742	2
35281	C34H71N	methyltritriacontylamine	66214-33-3	12.996	605.420	2	35530	C38H78	octatriacontane	7194-85-6	12.431	667.748	2
35282	C34H71N	ethyldotriacontylamine	66214-32-2	13.050	605.911	2	35531	C38H78	13-dodecylhexacosane	55517-73-2	12.769	655.096	1,2
35283	C34H71N	diheptadecylamine	16130-73-7	12.987	606.673	2	35532	C38H79N	octatriacontylamine	66576-94-1	12.565	676.592	2
35284	C34H71N	dimethyldotriacontylamine	66214-31-1	13.039	606.251	2	35533	C38H79N	methylheptatriacontylamine	66576-99-6	12.302	672.291	2
35285	C34H71N	diethyltriacontylamine	66214-30-0	12.704	607.079	2	35534	C38H79N	ethylhexatriacontylamine	66576-98-5	12.349	673.395	2
35312	C35H64	nonacosylbenzene	61828-27-1	13.584	577.061	2	35535	C38H79N	dinonadecylamine	66576-97-4	12.286	674.488	2
35313	C35H68	1-pentatriacontyne	61847-94-7	13.174	598.205	2	35536	C38H79N	dimethylhexatriacontylamine	66576-96-3	12.336	674.212	2
35314	C35H70	triacontylcyclopentane	61827-93-8	13.305	601.976	1,2	35537	C38H79N	diethyltetratriacontylamine	66576-95-2	12.122	670.866	2
35315	C35H70	nonacosylcyclohexane	61828-14-6	13.286	604.911	2	35553	C39H72	tritriacontylbenzene	61828-30-6	12.850	645.271	2
35316	C35H70	1-pentatriacontene	61868-13-1	13.080	605.881	2	35553.1	C39H72O5	glycerol dioleate	2465-32-9	20.463	677.232	1,2
35317	C35H70Br2	1,1-dibromopentatriacontane	---	11.138	738.697	2	35555	C39H76	1-nonatriacontyne	---	12.494	665.947	2
35318	C35H70Cl2	1,1-dichloropentatriacontane	62017-37-2	11.548	708.041	2	35556	C39H78	tetratriacontylcyclopentane	---	12.593	671.423	2
35319	C35H70F2	1,1-difluoropentatriacontane	62127-24-6	10.741	706.890	2	35557	C39H78	tritriacontylcyclohexane	55517-75-4	12.605	672.876	2
35320	C35H70I2	1,1-diiodopentatriacontane	66576-85-0	15.133	708.285	2	35558	C39H78	1-nonatriacontene	61868-17-5	12.403	673.488	2
35321	C35H70O	18-pentatriacontanone	504-53-0	25.897	637.340	1,2	35559	C39H78Br2	1,1-dibrmononatriacontane	62168-18-7	10.416	821.874	2
35322	C35H71Br	1-bromopentatriacontane	62108-51-4	12.998	631.766	2	35560	C39H78Cl2	1,1-dichlorononatriacontane	62017-41-8	10.776	790.937	2
35323	C35H71Cl	1-chloropentatriacontane	---	12.904	629.259	2	35561	C39H78F2	1,1-difluorononatriacontane	62126-88-9	10.030	791.626	2
35324	C35H71F	1-fluoropentatriacontane	62108-89-8	12.608	623.741	2	35562	C39H78I2	1,1-diiodononatriacontane	66576-58-7	14.673	780.210	2
35325	C35H71I	1-iodopentatriacontane	62154-86-3	12.897	639.169	2	35563	C39H79Br	1-bromononatriacontane	62108-54-7	12.304	699.062	2
35326	C35H72	pentatriacontane	630-07-9	12.874	622.582	1,2	35564	C39H79Cl	1-chlorononatriacontane	62016-91-5	12.217	696.718	2
35327	C35H73N	pentatriacontylamine	66576-87-2	13.080	626.555	2	35565	C39H79F	1-fluorononatriacontane	62108-93-4	11.964	690.844	2
35328	C35H73N	methyltetratriacontylamine	66576-91-8	12.824	622.165	2	35566	C39H79I	1-iodononatriacontane	62154-90-9	12.171	705.997	2
35329	C35H73N	ethyltritriacontylamine	66576-90-7	12.893	622.008	2	35567	C39H80	nonatriacontane	7194-86-7	12.267	684.912	2
35330	C35H73N	dimethyltritriacontylamine	66576-89-4	12.880	622.636	2	35568	C39H81N	nonatriacontylamine	66576-42-9	12.399	693.197	2
35331	C35H73N	diethylhentriacontylamine	66576-88-3	12.554	623.448	2	35569	C39H81N	methyloctatriacontylamine	66576-46-3	12.131	688.950	2
35400	C36H66	triacontylbenzene	50715-02-1	13.405	594.205	2	35570	C39H81N	ethylheptatriacontylamine	66576-45-2	12.203	688.765	2
35408	C36H70	1-hexatriacontyne	61847-95-8	13.008	615.009	2	35571	C39H81N	dimethylheptatriacontylamine	66576-44-1	12.199	689.815	2
35418	C36H72	hentriacontylcyclopentane	61827-94-9	13.117	620.458	2	35572	C39H81N	diethylpentatriacontylamine	66576-43-0	11.905	690.655	2
35419	C36H72	triacontylcyclohexane	61828-15-7	13.152	618.890	1,2	35573	C39H81N	tritridecylamine	5910-77-0	11.659	691.416	2
35420	C36H72	1-hexatriacontene	61868-14-2	12.907	622.852	2	35615	C40H74	tetratriacontylbenzene	61828-31-7	12.667	662.352	2
35421	C36H72Br2	1,1-dibromohexatriacontane	62168-15-4	10.941	759.971	2	35616	C40H78	1-tetracontyne	---	12.335	682.619	2
35422	C36H72Cl2	1,1-dichlorohexatriacontane	62017-38-3	11.349	728.964	2	35617	C40H80	pentatriacontylcyclopentane	61827-98-3	12.428	687.151	1,2
35424	C36H72F2	1,1-difluorohexatriacontane	62127-25-7	10.557	728.331	2	35618	C40H80	tetratriacontylcyclohexane	61828-19-1	12.462	686.740	1,2
35425	C36H72I2	1,1-diiodohexatriacontane	66576-72-5	15.018	726.477	2	35619	C40H80	1-tetracontene	61868-18-6	12.250	688.119	2
35430	C36H73Br	1-bromohexatriacontane	7461-19-0	12.851	647.528	2	35620	C40H80Br2	1,1-dibromotetracontane	62168-19-8	10.255	841.927	2
35431	C36H73Cl	1-chlorohexatriacontane	62016-88-0	12.745	645.665	2	35621	C40H80Cl2	1,1-dichlorotetracontane	62017-42-9	10.598	811.172	2
35432	C36H73F	1-fluorohexatriacontane	62108-90-1	12.464	639.786	2	35622	C40H80F2	1,1-difluorotetracontane	62126-89-0	9.856	812.473	2
35433	C36H73I	1-iodohexatriacontane	62154-87-4	12.721	655.291	2	35623	C40H80I2	1,1-diiodotetracontane	66576-47-4	14.560	797.816	2
35434	C36H74	hexatriacontane	630-06-8	12.622	648.288	1,2	35626	C40H81Br	1-bromotetracontane	62108-55-8	12.154	714.725	2
35435	C36H74	13-undecylpentacosane	55517-89-0	13.104	622.298	1,2	35627	C40H81Cl	1-chlorotetracontane	62016-92-6	12.057	713.017	2
35437	C36H75N	hexatriacontylamine	45313-33-5	12.906	643.270	2	35628	C40H81F	1-fluorotetracontane	62108-94-5	11.817	706.781	2
35438	C36H75N	methylpentatriacontylamine	66577-27-3	12.644	638.910	2	35629	C40H81I	1-iodotetracontane	62154-91-0	12.011	721.989	2
35439	C36H75N	ethyltetratriacontylamine	66577-26-2	12.697	639.794	2	35630	C40H82	tetracontane	4181-95-7	12.105	702.046	2
35440	C36H75N	dioctadecylamine	112-99-2	12.652	639.907	2	35631	C40H83N	tetracontylamine	66576-50-9	12.227	709.795	2
35441	C36H75N	dimethyltetratriacontylamine	66577-25-1	12.678	640.456	2	35632	C40H83N	methylnonatriacontylamine	66576-36-1	11.964	705.577	2
35442	C36H75N	diethyldotriacontylamine	66577-24-0	12.520	634.220	2	35633	C40H83N	ethyloctatriacontylamine	66576-53-2	12.012	706.507	2
35443	C36H75N	tridodecylamine	102-87-4	12.386	635.112	1,2	35634	C40H83N	dieicosylamine	3071-00-9	11.949	707.748	2
35476	C37H68	hentriacontylbenzene	61828-28-2	13.216	611.358	2	35635	C40H83N	dimethyloctatriacontylamine	66576-52-1	12.005	707.832	2
35477	C37H72	1-heptatriacontyne	---	12.836	632.122	2	35636	C40H83N	diethylhexatriacontylamine	66576-51-0	11.718	708.746	2
35478	C37H74	dotriacontylcyclopentane	---	12.934	637.588	2	35656	C41H76	pentatriacontylbenzene	61828-32-8	12.487	679.402	2
35479	C37H74	hentriacontylcyclohexane	61828-16-8	12.942	639.008	2	35658	C41H82	hexatriacontylcyclopentane	61827-99-4	12.249	705.174	2
35480	C37H74	1-heptatriacontene	61868-15-3	12.736	639.795	2	35659	C41H82	pentatriacontylcyclohexane	61828-20-4	12.277	706.555	2
35481	C37H74Br2	1,1-dibromoheptatriacontane	62168-16-5	10.766	780.737	2	35660	C41H84	n-hentetracontane	7194-87-8	11.960	718.482	2
35482	C37H74Cl2	1,1-dichloroheptatriacontane	62017-39-4	11.158	749.707	2	35703	C42H78	hexatriacontylbenzene	61828-33-9	12.306	696.119	2
35483	C37H74F2	1,1-difluoroheptatriacontane	62127-26-8	10.367	749.797	2	35705	C42H84	hexatriacontylcyclohexane	61828-21-5	12.117	720.388	1,2
35484	C37H74I2	1,1-diiodoheptatriacontane	66577-05-7	14.903	744.534	2	35708	C42H86	n-dotetracontane	7098-20-6	11.805	736.036	2
35486	C37H75Br	1-bromoheptatriacontane	62108-52-5	12.655	665.484	2	35709	C42H87N	tritetradecylamine	27911-72-4	11.472	726.125	2
35487	C37H75Cl	1-chloroheptatriacontane	62016-89-1	12.566	663.026	2	35735	C43H88	tritetracontane	7098-21-7	11.504	772.891	1,2
35488	C37H75F	1-fluoroheptatriacontane	62108-91-2	12.283	657.524	2	35763	C44H90	n-tetratetracontane	7098-22-8	11.514	770.706	2
35489	C37H75I	1-iodoheptatriacontane	62154-88-5	12.529	672.684	2	35774	C45H92	n-pentatetracontane	7098-23-9	11.392	787.771	2
35490	C37H76	heptatriacontane	7194-84-5	12.598	650.594	2	35775	C45H93N	tripentadecylamine	66576-66-7	11.229	776.636	2
35491	C37H77N	heptatriacontylamine	66577-08-0	12.734	659.950	2	35788	C46H94	n-hexatetracontane	7098-24-0	11.262	804.937	2
35492	C37H77N	methylhexatriacontylamine	66577-12-6	12.488	655.575	2	35798	C47H96	n-heptatetracontane	7098-25-1	11.143	821.777	2
35493	C37H77N	ethylpentatriacontylamine	66577-11-5	12.542	655.444	2	35816	C48H98	n-octatetracontane	7098-26-2	11.042	838.578	2
35494	C37H77N	dimethylpentatriacontylamine	66577-10-4	12.730	647.538	2	35817	C48H99N	trihexadecylamine	28947-77-5	10.865	827.886	2
35495	C37H77N	diethyltritriacontylamine	66577-09-1	12.426	647.872	2	35823	C49H100	n-nonatetracontane	7098-27-3	10.914	856.048	2
35496	C37H77N	N-methyldioctadecylamine	4088-22-6	12.716	647.444	2	35831	C50H102	n-pentacontane	6596-40-3	10.800	873.799	2
35513	C38H70	dotriacontylbenzene	61828-29-3	13.028	628.492	2	35838	C51H104	n-henpentacontane	7667-76-7	10.700	890.868	2

Table 13 Solubility Parameter and Liquid Volume - Organic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
35839	C51H105N	triheptadecylamine	66575-83-5	10.571	880.109	2	35975	C75H152	n-pentaheptacontane	7667-86-9	8.881	1300.076	2
35847	C52H106	n-dopentacontane	7719-79-1	10.591	908.116	2	35977	C76H154	n-hexaheptacontane	7667-87-0	8.819	1317.429	2
35849	C53H108	n-tripentacontane	'7719-80-4	10.500	925.103	2	35979	C77H156	n-heptaheptacontane	7719-94-0	8.766	1334.732	2
35869	C54H110	n-tetrapentacontane	5856-66-6	10.402	942.133	2	35980	C78H158	n-octaheptacontane	7719-85-9	8.708	1352.100	2
35871	C54H111N	trioctadecylamine	102-88-5	10.272	930.019	2	35982	C79H160	n-nonaheptacontane	7719-86-0	8.658	1369.416	2
35880	C55H112	n-pentapentacontane	5846-40-2	10.309	959.164	2	35984	C80H162	n-octacontane	7667-88-1	8.602	1386.799	2
35891	C56H114	n-hexapentacontane	7719-82-6	10.219	976.197	2	35985	C81H164	n-henoctacontane	7667-89-2	8.547	1404.314	2
35900	C57H116	n-heptapentacontane	5856-67-7	10.131	993.328	2	35986	C82H166	n-dooctacontane	7719-95-1	8.491	1422.155	2
35901	C57H117N	trinonadecylamine	66575-72-2	10.009	980.184	2	35987	C83H168	n-trioctacontane	7667-90-5	8.441	1439.248	2
35904	C58H118	n-octapentacontane	7667-78-9	10.049	1010.269	2	35990	C84H170	n-tetraoctacontane	7667-91-6	8.391	1456.343	2
35908	C59H120	n-nonapentacontane	7667-79-0	9.966	1027.551	2	35991	C85H172	n-pentaoctacontane	7719-96-2	8.343	1473.439	2
35922	C60H122	n-hexacontane	7667-80-3	9.877	1044.937	2	35992	C86H174	n-hexaoctacontane	7667-92-7	8.296	1490.536	2
35923	C60H123N	trieicosylamine	45324-58-1	9.757	1031.145	2	35993	C87H176	n-heptaoctacontane	7667-93-8	8.251	1507.634	2
35925	C61H124	n-henhexacontane	7667-81-4	9.800	1062.186	2	35998	C88H178	n-octaoctacontane	7667-94-9	8.206	1524.733	2
35932	C62H126	n-dohexacontane	7719-83-7	9.722	1080.000	2	36000	C89H180	n-nonaoctacontane	7719-76-8	8.162	1541.834	2
35940	C63H128	n-trihexacontane	7719-84-8	9.646	1096.906	2	36002	C90H182	n-nonacontane	7667-51-8	8.119	1558.936	2
35943	C64H130	n-tetrahexacontane	7719-87-1	9.571	1113.810	2	36003	C91H184	n-hennonacontane	7719-97-3	8.076	1576.039	2
35944	C65H132	n-pentahexacontane	7719-88-2	9.497	1131.080	2	36004	C92H186	n-dononacontane	7667-95-0	8.035	1593.144	2
35949	C66H134	n-hexahexacontane	7719-89-3	9.433	1148.305	2	36005	C93H188	n-trinonacontane	7667-96-1	7.995	1610.249	2
35952	C67H136	n-heptahexacontane	7719-90-6	9.364	1165.425	2	36006	C94H190	n-tetranonacontane	1574-32-9	7.948	1627.639	2
35956	C68H138	n-octahexacontane	7719-91-7	9.298	1182.494	2	36008	C95H192	n-pentanonacontane	7667-97-2	7.910	1644.607	2
35958	C69H140	n-nonahexacontane	7719-92-8	9.233	1199.564	2	36010	C96H194	n-hexanonacontane	7763-13-5	7.873	1661.574	2
35960	C70H142	n-heptacontane	7719-93-9	9.171	1216.579	2	36011	C97H196	n-heptanonacontane	7670-25-9	7.830	1678.614	2
35961	C71H144	n-henheptacontane	7667-82-5	9.121	1230.900	2	36012	C98H198	n-octanonacontane	7670-26-0	7.794	1695.579	2
35968	C72H146	n-doheptacontane	7667-83-6	9.061	1248.171	2	36013	C99H200	n-nonanonacontane	7670-27-1	7.753	1712.617	2
35970	C73H148	n-triheptacontane	7667-84-7	9.002	1265.448	2	36014	C100H202	n-hectane	6703-98-6	7.717	1729.877	2
35972	C74H150	n-tetraheptacontane	7667-85-8	8.937	1282.785	2							

Code: 1 - data, 2 - estimate

* Use ID or CAS No for complete name (See Chapther 1 of this book).

Chapter 14

SOLUBILITY PARAMETER AND LIQUID VOLUME – INORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 14. The tabulation is arranged by alphabetical order (Ag, Al, Ar, ..., Zr) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for solubility parameter and liquid volume are given in the adjacent columns. The next column provides the code for the tabulation.

For the tabulation, the results for solubility parameter are ascertained from heat of vaporization and liquid volume

$$\text{sol par} = [\ (\Delta H_{vap} - RT) / v\ ]^{0.5} \qquad (14)$$

where sol par = solubility parameter, $(\text{joule/cm}^3)^{0.5}$
ΔH_{vap} = enthalpy of vaporization, joule/mol
R = universal gas constant, joule/(mol K)
T = temperature, K
v = liquid volume, cm^3/mol

For compounds that are liquids at ambient conditions, the values apply at 25 C. For compounds that are gases at ambient conditions, the values apply at the normal boiling point temperature. For compounds that are solids at ambient conditions, the values apply at the melting point temperature.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-36). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (1-2); Daubert and Danner (3); Janz, Ward, and Reeves (7); Landolt and Bornstein (8); Lange's Handbook (9-10), Vargaftik(18); web sites (19-21), and Yaws (22-36) were used extensively. The Kistiakowsky rule (14) and Riedel method (14) were primarily used for estimates of enthalpy of vaporization at the boiling point. Estimates of liquid density were primarily based on Schroeder correlation (14, group contribution), Le Bas method (14, group contribution), and Tyn-Calus equation (14, critical volume). Liquid volume was ascertained from molecular weight and liquid density (molecular weight/density).

For the inorganic compounds, most of the data for enthalpy of vaporization and liquid density are only available for compounds with low boiling points and low melting points. The data available for compounds with high normal boiling points and high melting points are very meager. In the absence of data, the estimates should be considered rough approximations for those compounds with high boiling points and high melting points.

Example

In an engineering analysis, the solubility parameter and liquid volume are needed for silicon tetrachloride (SiCl4). Determine the solubility parameter and liquid volume for silicon tetrachloride.

Inspection of the tabulation yields:

sol par = 15.342 $(\text{joule/cm}^3)^{0.5}$

v = 115.581 cm^3/mol

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Table 14 Solubility Parameter and Liquid Volume - Inorganic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
13	Ag	silver	7440-22-4	155.190	11.605	1,2	1144	CsI	cesium iodide	7789-17-5	46.356	81.571	1,2
35	AgCl	silver (i) chloride	7783-90-6	91.958	29.507	1,2	1169	Cu	copper	7440-50-8	209.123	8.043	1,2
45	AgI	silver (i) iodide	7783-96-2	64.292	42.288	1,2	1173	CuBr	cuprous bromide	7787-70-4	88.011	32.468	1,2
77	Al	aluminum	7429-90-5	166.403	11.401	1,2	1229	CuCl	cuprous chloride	7758-89-6	52.027	26.431	1,2
82	AlBr3	aluminum bromide	7727-15-3	15.123	111.397	1,2	1230	CuCl2	cupric chloride	7447-39-4	62.667	44.809	1,2
86	AlC2H6Cl	aluminum, dimethyl chloride	1184-58-3	20.152	93.173	1,2	1255	CuI	copper iodide	7681-65-4	79.319	38.248	1,2
88	AlC3H9	aluminum, trimethyl	75-24-1	20.407	96.325	1,2	1302	D2	deuterium	7782-39-0	6.282	24.978	1,2
96	AlC6H15	aluminum, triethyl	97-93-8	22.934	137.079	1,2	1303	D2O	deuterium oxide	7789-20-0	49.264	18.087	1,2
127	AlCl3	aluminum chloride	7446-70-0	18.492	103.448	1,2	1369	Eu	europium	7440-53-1	75.750	31.402	1,2
134	AlF3	aluminum fluoride	7784-18-1	73.767	34.480	1,2	1406	FNO	nitrosyl fluoride	7789-25-5	21.852	36.662	1,2
146	AlI3	aluminum iodide	7784-23-8	16.540	126.394	1,2	1409	F2	fluorine	7782-41-4	15.208	25.283	1,2
167	Al2O3	aluminum oxide	1344-28-1	152.730	29.029	1,2	1412	F2O	fluorine oxide	7783-41-7	16.774	35.620	1,2
200	Ar	argon	7440-37-1	14.138	28.586	1,2	1420	Fe	iron	7439-89-6	212.755	7.751	1,2
202	As	arsenic	7440-38-3	37.040	14.171	1,2	1434	FeC5O5	iron pentacarbonyl	13463-40-6	16.145	134.980	1,2
203	AsBr3	arsenic (iii) bromide	7784-33-0	22.332	96.172	1,2	1502	FeCl2	ferrous chloride	7758-94-3	22.214	44.949	1,2
228	AsCl3	arsenic trichloride	7784-34-1	21.091	84.315	1,2	1505	FeCl3	ferric chloride	7705-08-0	25.153	62.639	1,2
230	AsF3	arsenic trifluoride	7784-35-2	24.130	49.791	1,2	1575	Ga	gallium	7440-55-3	158.422	11.471	1,2
231	AsF5	arsenic pentafluoride	7784-36-3	16.128	72.924	1,2	1578	GaC3H9	gallium, trimethyl	1445-79-0	17.370	100.788	1,2
234	AsH3	arsine	7784-42-1	17.504	48.100	1,2	1585	GaCl3	gallium trichloride	13450-90-3	16.894	85.783	1,2
238	AsI3	arsenic triiodide	7784-45-4	24.820	112.196	1,2	1637	Ge	germanium	7440-56-4	163.332	13.001	1,2
245	As2O3	arsenic trioxide	1327-53-3	31.937	56.428	1,2	1639	GeBr4	germanium bromide	13450-92-5	19.325	124.968	1,2
256	Au	gold	7440-57-5	196.846	11.397	1,2	1661	GeCl4	germanium chloride	10038-98-9	15.625	115.627	1,2
283	B	boron	7440-42-8	329.687	5.006	1,2	1668	GeHCl3	germane, trichloro	1184-65-2	17.551	93.779	1,2
285	BBr3	boron tribromide	10294-33-4	18.098	95.446	1,2	1675	GeH4	germane	7782-65-2	15.002	55.645	1,2
361	BCl3	boron trichloride	10294-34-5	15.679	87.074	1,2	1686	Ge2H6	digermane	13818-89-8	16.050	88.949	1,2
363	BF3	boron trifluoride	7637-07-2	20.305	43.146	1,2	1687	Ge3H8	trigermane	14691-44-2	18.184	102.183	1,2
394	B2H6	diborane	19287-45-7	14.083	64.533	1,2	1691	HBr	hydrogen bromide	10035-10-6	20.850	37.597	1,2
401	B3N3H6	borazine	6569-51-3	18.726	89.260	1,2	1694	HCN	hydrogen cyanide	74-90-8	25.093	39.768	1,2
404	B4H10	tetraborane	18283-93-7	15.494	102.807	1,2	1695	HCl	hydrogen chloride	7647-01-0	22.004	30.563	1,2
405	B5H9	pentaborane	19624-22-7	15.404	98.202	1,2	1696	HClO3S	chlorosulfonic acid	7790-94-5	26.116	66.941	1,2
406	B5H11	pentaborane	18433-84-6	18.891	87.954	1,2	1697	HClO4	perchloric acid	7601-90-3	21.942	57.085	1,2
413	B10H14	decaborane	---	17.905	140.870	1,2	1698	HF	hydrogen fluoride	7664-39-3	15.602	20.945	1,2
416	Ba	barium	7440-39-3	63.777	41.301	1,2	1699	HI	hydrogen iodide	10034-85-2	19.725	45.718	1,2
530	Be	beryllium	7440-41-7	235.733	5.333	1,2	1702	HNO3	nitric acid	7697-37-2	30.460	39.426	1,2
534	BeBr2	beryllium bromide	7787-46-4	42.107	53.340	1,2	1709	H2	hydrogen	1333-74-0	5.067	28.604	1,2
541	BeCl2	beryllium chloride	7787-47-5	44.537	52.731	1,2	1712	H2O	water	7732-18-5	47.868	17.969	1,2
550	BeI2	beryllium iodide	7787-53-3	31.639	65.198	1,2	1713	H2O2	hydrogen peroxide	7722-84-1	45.956	23.452	1,2
562	Bi	bismuth	7440-69-9	87.487	20.765	1,2	1714	H2S	hydrogen sulfide	7783-06-4	21.753	35.860	1,2
564	BiBr3	bismuth tribromide	7787-58-8	29.466	95.984	1,2	1716	H2SO4	sulfuric acid	7664-93-9	34.303	53.305	1,2
576	BiCl3	bismuth trichloride	7787-60-2	31.542	80.373	1,2	1718	H2S2	hydrogen disulfide	13465-07-1	26.222	49.883	1,2
626	BrF3	bromine trifluoride	7787-71-5	32.505	48.840	1,2	1719	H2Se	hydrogen selenide	7783-07-5	20.846	40.989	1,2
628	BrF5	bromine pentafluoride	7789-30-2	20.312	70.923	1,2	1721	H2Te	hydrogen telluride	7783-09-7	18.065	51.928	1,2
633	Br2	bromine	7726-95-6	23.794	51.480	1,2	1722	H3NO	hydroxylamine	7803-49-8	46.740	27.436	1,2
641	CCl2O	carbonyl chloride	75-44-5	17.833	70.547	1,2	1739	He	helium-4	7440-59-7	1.223	32.257	1,2
642	CF2O	carbonyl fluoride	353-50-4	15.362	61.524	1,2	1740	Hf	hafnium	7440-58-6	197.385	14.874	1,2
644	CH4N2O	urea	57-13-6	36.540	44.984	1,2	1771	Hg	mercury	7439-97-6	65.074	14.861	1,2
645	CH4N2S	thiourea	62-56-6	24.960	90.511	1,2	1773	HgBr2	mercuric bromide	7789-47-1	29.093	70.338	1,2
646	CNBr	cyanogen bromide	506-68-3	22.626	56.537	1,2	1800	HgCl2	mercuric chloride	7487-94-7	30.025	62.143	1,2
647	CNCl	cyanogen chloride	506-77-4	21.831	51.356	1,2	1813	HgI2	mercuric iodide	7774-29-0	26.087	87.042	1,2
648	CNF	cyanogen fluoride	1495-50-7	24.762	32.929	1,2	1868	IF5	iodine pentafluoride	7783-66-6	25.067	69.560	1,2
651	CN4O8	tetranitromethane	509-14-8	18.378	120.267	1,2	1869	IF7	iodine heptafluoride	16921-96-3	14.535	92.635	1,2
652	CO	carbon monoxide	630-08-0	12.146	35.456	1,2	1873	I2	iodine	7553-56-2	25.533	63.835	1,2
653	COS	carbonyl sulfide	463-58-1	18.130	50.984	1,2	1877	In	indium	7440-74-6	126.778	16.329	1,2
654	COSe	carbon oxyselenide	1603-84-5	20.261	56.187	1,2	1917	Ir	iridium	7439-88-5	245.492	9.611	1,2
655	CO2	carbon dioxide	124-38-9	19.774	35.020	1,2	1960	K	potassium	7440-09-7	43.362	47.204	1,2
656	CS2	carbon disulfide	75-15-0	20.319	60.639	1,2	1972	KBr	potassium bromide	7758-02-3	55.231	55.991	1,2
661	C2N2	cyanogen	460-19-5	20.049	54.341	1,2	2009	KCl	potassium chloride	7447-40-7	53.571	48.891	1,2
675	Ca	calcium	7440-70-2	75.664	29.299	1,2	2018	KF	potassium fluoride	7789-23-3	72.325	30.434	1,2
728	CaF2	calcium fluoride	7789-75-5	107.442	31.017	1,2	2035	KI	potassium iodide	7681-11-0	57.528	67.783	1,2
776	Cd	cadmium	7440-43-9	87.435	14.022	1,2	2047	KOH	potassium hydroxide	1310-58-3	73.702	32.592	1,2
791	CdCl2	cadmium chloride	10108-64-2	50.592	53.982	1,2	2162	Kr	krypton	7439-90-9	15.331	34.648	1,2
798	CdF2	cadmium fluoride	7790-79-6	94.613	26.605	1,2	2168	La	lanthanum	7439-91-0	135.870	24.488	1,2
804	CdI2	cadmium iodide	7790-80-9	39.324	82.960	1,2	2203	Li	lithium	7439-93-2	116.047	13.547	1,2
809	CdO	cadmium oxide	1306-19-0	133.585	18.142	1,2	2213	LiBr	lithium bromide	7550-35-8	60.707	34.226	1,2
891	ClF	chlorine monofluoride	7790-89-8	25.950	33.517	1,2	2253	LiCl	lithium chloride	7447-41-8	94.205	28.225	1,2
892	ClFO3	perchloryl fluoride	7616-94-6	16.985	60.457	1,2	2261	LiF	lithium fluoride	7789-24-4	109.171	14.196	1,2
893	ClF3	chlorine trifluoride	7790-91-2	22.282	50.677	1,2	2270	LiI	lithium iodide	10377-51-2	65.247	43.148	1,2
894	ClF5	chlorine pentafluoride	13637-63-3	17.296	69.166	1,2	2316	Lu	lutetium	7439-94-3	195.641	19.265	1,2
898	ClO2	chlorine dioxide	10049-04-4	25.701	41.852	1,2	2335	Mg	magnesium	7439-95-4	95.933	15.396	1,2
899	Cl2	chlorine	7782-50-5	20.190	45.389	1,2	2392	MgCl2	magnesium chloride	7786-30-3	56.438	56.780	1,2
900	Cl2O	chlorine monoxide	7791-21-1	20.929	53.904	1,2	2429	MgO	magnesium oxide	1309-48-4	220.606	6.772	1,2
905	Cl2O7	chlorine heptoxide	10294-48-1	18.952	98.881	1,2	2464	Mn	manganese	7439-96-5	161.408	8.544	1,2
916	Co	cobalt	7440-48-4	230.037	7.687	1,2	2495	MnCl2	manganese (ii) chloride	7773-01-5	58.939	48.912	1,2
968	CoCl2	cobalt chloride	7646-79-9	58.945	44.949	1,2	2548	Mo	molybdenum	7439-98-7	257.605	10.283	1,2
1035	Cr	chromium	7440-47-3	204.993	8.049	1,2	2573	MoF6	molybdenum fluoride	7783-77-9	18.026	83.198	1,2
1099	CrO2Cl2	chromium oxychloride	14977-61-8	21.400	81.436	1,2	2585	MoO3	molybdenum oxide	1313-27-5	66.268	33.650	1,2
1124	Cs	cesium	7440-46-2	32.025	71.723	1,2	2607	NClO	nitrosyl chloride	2696-92-6	21.832	49.406	1,2
1128	CsBr	cesium bromide	7787-69-1	50.890	67.956	1,2	2608	NCl3	nitrogen trichloride	10025-85-1	20.302	73.370	1,2
1137	CsCl	cesium chloride	7647-17-8	46.039	62.194	1,2	2613	NF3	nitrogen trifluoride	7783-54-2	15.075	45.662	1,2
1140	CsF	cesium fluoride	13400-13-0	56.054	41.342	1,2	2619	NH3	ammonia	7664-41-7	29.179	24.980	1,2

Table 14 Solubility Parameter and Liquid Volume - Inorganic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
2625	NH4Br	ammonium bromide	12124-97-9	36.124	33.207	1,2	4047	SbH3	stibine	7803-52-3	18.722	55.749	1,2
2627	NH4Cl	ammonium chloride	12125-02-9	23.479	37.952	1,2	4049	SbI3	antimony triiodide	7790-44-5	27.092	105.470	1,2
2634	NH4I	ammonium iodide	12027-06-4	19.610	63.691	1,2	4056	Sb2O3	antimony (iii) oxide	1309-64-4	38.101	57.850	1,2
2674	NO	nitric oxide	10102-43-9	23.118	23.427	1,2	4065	Sc	scandium	7440-20-2	146.237	16.295	1,2
2676	NO2	nitrogen dioxide	10102-44-0	26.441	31.781	1,2	4083	Se	selenium (gray)	7782-49-2	74.320	19.800	1,2
2678	N2	nitrogen	7727-37-9	11.915	34.672	1,2	4089	SeCS	selenosulfide, carbon	5951-19-9	23.975	62.241	1,2
2684	N2F4	tetrafluorohydrazine	10036-47-2	12.525	74.077	1,2	4107	SeCl4	selenium tetrachloride	10026-03-6	15.629	124.033	1,2
2685	N2H4	hydrazine	302-01-2	39.052	28.632	1,2	4109	SeF4	selenium tetrafluoride	13465-66-2	29.927	56.347	1,2
2747	N2O	nitrous oxide	10024-97-2	20.308	36.002	1,2	4110	SeF6	selenium hexafluoride	7783-79-1	13.950	84.599	1,2
2748	N2O3	nitrogen trioxide	10544-73-7	26.321	53.592	1,2	4115	SeOCl2	selenium oxychloride	7791-23-3	26.564	68.698	1,2
2749	N2O4	nitrogen tetraoxide	10544-72-6	23.745	63.269	1,2	4117	SeO2	selenium dioxide	7446-08-4	50.757	33.748	1,2
2750	N2O5	nitrogen pentoxide	10102-03-1	28.375	72.356	1,2	4140	Si	silicon	7440-21-3	205.243	10.927	1,2
2781	Na	sodium	7440-23-5	66.717	24.863	1,2	4143	SiBrCl2F	silane, bromodichlorofluoro	---	14.140	109.231	1,2
2800	NaBr	sodium bromide	7647-15-6	61.502	43.939	1,2	4144	SiBr2ClF	silane, dibromochlorofluoro	---	15.402	106.012	1,2
2810	NaCN	sodium cyanide	143-33-9	68.089	38.644	1,2	4146	SiBr4	tetrabromosilane	7789-66-4	18.447	124.179	1,2
2855	NaCl	sodium chloride	7647-14-5	60.677	37.713	1,2	4149	SiCH3Cl3	silane, methyltrichloro	75-79-6	15.227	118.043	1,2
2864	NaF	sodium fluoride	7681-49-4	90.859	21.593	1,2	4150	SiCH4Cl2	silane, methyldichloro	75-54-7	15.403	104.287	1,2
2888	NaI	sodium iodide	7681-82-5	68.062	54.663	1,2	4152	SiC2H5Cl3	silane, ethyltrichloro	115-21-9	15.979	133.414	1,2
2897	NaOH	sodium hydroxide	1310-73-2	98.856	22.434	1,2	4153	SiC2H6Cl2	silane, dimethyldichloro	75-78-5	15.632	121.207	1,2
3019	Nb	niobium	7440-03-1	244.764	11.865	1,2	4157	SiC3H10	silane, trimethyl	993-07-7	13.009	116.614	1,2
3037	NbF5	niobium (v) fluoride	7783-68-8	30.533	61.997	1,2	4187	SiC7H8Cl2	silane, methylphenyldichloro	149-74-6	17.771	162.884	1,2
3057	Nd	neodymium	7440-00-8	117.261	22.306	1,2	4196	SiC8H20	silane, tetraethyl	631-36-7	14.895	189.288	1,2
3091	Ne	neon	7440-01-9	9.440	16.762	1,2	4238	SiClC3H9	chlorotrimethylsilane	75-77-4	14.655	127.296	1,2
3092	Ni	nickel	7440-02-0	233.591	7.564	1,2	4240	SiClF3	silane, chlorotrifluoro	14049-36-6	14.610	79.699	1,2
3105	NiC4O4	nickel carbonyl	13463-39-3	14.583	130.747	1,2	4241	SiCl2F2	silane, dichlorodifluoro	18356-71-3	14.363	92.565	1,2
3198	O2	oxygen	7782-44-7	14.635	28.196	1,2	4243	SiCl3F	silane, trichlorofluoro	14965-52-7	13.548	105.509	1,2
3199	O3	ozone	10028-15-6	18.745	35.578	1,2	4244	SiCl4	silicon tetrachloride	10026-04-7	15.342	115.581	1,2
3200	Os	osmium	7440-04-2	282.642	9.464	1,2	4245	SiF4	silicon tetrafluoride	7783-61-1	14.380	64.097	1,2
3222	OsO4	osmium tetroxide	20816-12-0	27.044	57.503	1,2	4246	SiHBr3	silane, tribromo	7789-57-3	19.143	100.231	1,2
3234	P	phosphorus (white)	7723-14-0	25.964	17.744	1,2	4247	SiHCl3	silane, trichloro	10025-78-2	15.489	101.489	1,2
3238	PBr3	phosphorus tribromide	7789-60-8	21.314	95.635	1,2	4248	SiHF3	silane, trifluoro	13465-71-9	15.433	61.799	1,2
3252	PC3H9O4	phosphate, trimethyl	512-56-1	21.308	116.548	1,2	4250	SiH2Br2	silane, dibromo	13768-94-0	18.470	89.957	1,2
3280	PC6H15O4	phosphate, triethyl	78-40-0	17.913	170.915	1,2	4251	SiH2Cl2	silane, dichloro	4109-96-0	16.680	81.957	1,2
3381	PCl3	phosphorus (iii) chloride	7719-12-2	18.774	87.684	1,2	4252	SiH2F2	silane, difluoro	13824-36-7	16.074	56.800	1,2
3382	PCl5	phosphorus pentachloride	10026-13-8	26.049	62.669	1,2	4253	SiH2I2	silane, diiodo	13760-02-6	21.655	100.501	1,2
3389	PH3	phosphine	7803-51-2	16.886	45.730	1,2	4257	SiH3Br	silane, monobromo	13465-73-1	17.460	72.527	1,2
3392	PH4I	phosphonium iodide	12125-09-6	23.945	56.955	1,2	4258	SiH3Cl	silane, monochloro	13465-78-6	16.882	66.599	1,2
3396	POCl3	phosphorus oxychloride	10025-87-3	19.816	92.010	1,2	4259	SiH3F	silane, monofluoro	13537-33-2	18.278	51.800	1,2
3398	PSCl3	phosphorus thiochloride	3982-91-0	18.618	104.197	1,2	4260	SiH3I	silane, iodo	13598-42-0	19.186	77.783	1,2
3451	P2S5	phosphorus (v) sulfide	1314-80-3	20.316	126.660	1,2	4261	SiH4	silane	7803-62-5	13.982	55.126	1,2
3461	P4O6	phosphorous (iii) oxide	12440-00-5	21.738	103.336	1,2	4265	SiO2	silicon dioxide (alpha quartz)	14808-60-7	128.200	23.749	1,2
3483	Pb	lead	7439-92-1	101.283	19.478	1,2	4274	Si2C6H18O	disiloxane, hexamethyl	107-46-0	12.575	213.776	1,2
3487	PbBr2	lead bromide	10031-22-8	49.002	65.199	1,2	4275	Si2C6H19N	disilazane, hexamethyl	999-97-3	13.632	209.042	1,2
3504	PbC8H20	tetraethyl lead	78-00-2	16.528	196.205	1,2	4286	Si2Cl6	disilane, hexachloro	13465-77-5	13.302	173.787	1,2
3514	PbCl2	lead chloride	7758-95-4	50.754	56.178	1,2	4287	Si2Cl6O	disiloxane, hexachloro	14986-21-1	12.859	180.194	1,2
3521	PbF2	lead fluoride	7783-46-2	74.897	31.469	1,2	4288	Si2F6	disilane, hexafluoro	---	11.588	116.199	1,2
3530	PbI2	lead iodide	10101-63-0	38.883	79.549	1,2	4289	Si2H6	disilane	1590-87-0	14.378	92.109	1,2
3537	PbO	lead oxide	1317-36-8	96.961	24.886	1,2	4290	Si2H6O	disiloxane	13597-73-4	13.547	93.632	1,2
3545	PbS	lead sulfide	1314-87-0	82.836	33.910	1,2	4291	Si2OCl3F3	disiloxane, trichlorotrifluoro	---	11.053	158.294	1,2
3571	Pd	palladium	7440-05-3	191.054	10.177	1,2	4295	Si3Cl8	octachlorotrisilane	---	12.415	231.660	1,2
3641	Po	polonium	7440-08-6	68.162	24.216	1,2	4296	Si3H8	trisilane	7783-26-8	14.643	128.148	1,2
3691	Pt	platinum	7440-06-4	232.191	10.359	1,2	4297	Si3H9N	trisilazane	---	13.149	125.170	1,2
3773	Ra	radium	7440-14-4	49.303	48.971	1,2	4300	Si4H10	tetrasilane	7783-29-1	12.976	158.807	1,2
3781	Rb	rubidium	7440-17-7	38.700	58.230	1,2	4303	Sm	samarium	7440-19-9	88.000	21.666	1,2
3786	RbBr	rubidium bromide	7789-39-1	54.173	60.901	1,2	4332	Sn	tin (white)	7440-31-5	141.989	17.028	1,2
3791	RbCl	rubidium chloride	7791-11-9	59.816	53.784	1,2	4335	SnBr4	stannic bromide	7789-67-5	19.493	130.697	1,2
3795	RbF	rubidium fluoride	13446-74-7	80.579	30.905	1,2	4422	SnCl2	stannous chloride	7772-99-8	42.346	56.371	1,2
3801	RbI	rubidium iodide	7790-29-6	56.246	73.139	1,2	4424	SnCl4	stannic chloride	7646-78-8	17.739	117.592	1,2
3828	Re	rhenium	7440-15-5	269.338	9.852	1,2	4433	SnI4	stannic iodide	7790-47-8	20.958	146.682	1,2
3875	Re2O7	rhenium heptoxide	1314-68-7	28.862	88.327	1,2	4461	Sr	strontium	7440-24-6	61.480	36.893	1,2
3880	Rh	rhodium	7440-16-6	229.691	9.662	1,2	4517	Ta	tantalum	7440-25-7	249.522	12.063	1,2
3940	Rn	radon	10043-92-2	17.855	51.256	1,2	4570	Tc	technetium	7440-26-8	254.869	9.233	1,2
3941	Ru	ruthenium	7440-18-8	255.612	9.272	1,2	4583	Te	tellurium	13494-80-9	72.072	22.011	1,2
3974	RuF5	ruthenium (v) fluoride	14521-18-7	29.921	75.094	1,2	4588	TeCl4	tellurium tetrachloride	10026-07-0	28.136	104.863	1,2
3991	S	sulfur	7704-34-9	52.998	17.870	1,2	4590	TeF6	tellurium hexafluoride	7783-80-4	14.029	77.517	1,2
3994	SCl2	sulfur dichloride	10545-99-0	22.329	63.903	1,2	4639	Ti	titanium	7440-32-6	204.769	11.646	1,2
3996	SCl2O	thionyl chloride	7719-09-7	20.882	73.005	1,2	4678	TiCl4	titanium tetrachloride	7550-45-0	18.553	110.669	1,2
3998	SF4	sulfur tetrafluoride	7783-60-0	20.284	59.557	1,2	4703	Tl	thallium	7440-28-0	100.507	18.101	1,2
4001	SF6	sulfur hexafluoride	2551-62-4	13.896	76.274	1,2	4704	TlBr	thallous bromide	7789-40-4	52.954	39.485	1,2
4004	SOBr2	thionyl bromide	507-16-4	23.211	78.188	1,2	4728	TlI	thallium iodide	7790-30-9	49.046	49.011	1,2
4005	SOCl2	thionyl chloride	7719-09-7	20.884	73.010	1,2	4747	Tm	thulium	7440-30-4	110.762	19.636	1,2
4006	SOF2	thionyl fluoride	7783-42-8	19.311	53.348	1,2	4766	U	uranium	7440-61-1	184.412	13.292	1,2
4007	SO2	sulfur dioxide	7446-09-5	22.916	43.823	1,2	4787	UF6	uranium fluoride	7783-81-5	18.017	78.937	1,2
4008	SO2Cl2	sulfuryl chloride	7791-25-5	19.733	81.413	1,2	4836	V	vanadium	7440-62-2	226.278	9.181	1,2
4010	SO3	sulfur trioxide	7446-11-9	31.130	42.095	1,2	4860	VCl4	vanadium tetrachloride	7632-51-1	20.116	105.853	1,2
4013	S2Cl2	sulfur monochloride	10025-67-9	21.960	80.821	1,2	4880	VOCl3	vanadium oxytrichloride	7727-18-6	19.363	105.846	1,2
4023	Sb	antimony	7440-36-0	104.811	18.758	1,2	4899	W	tungsten	7440-33-7	285.129	10.386	1,2
4025	SbBr3	antimony tribromide	7789-61-9	27.181	89.939	1,2	4917	WF6	tungsten fluoride	7783-82-6	16.655	86.838	1,2
4042	SbCl3	antimony trichloride	10025-91-9	24.441	85.118	1,2	4945	Xe	xenon	7440-63-3	15.655	44.449	1,2
4044	SbCl5	antimony pentachloride	7647-18-9	21.027	128.552	1,2	4960	Y	yttrium	7440-65-5	134.572	21.550	1,2

Table 14 Solubility Parameter and Liquid Volume - Inorganic Compounds

Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)							Solubility Parameter and Liquid Volume (sol par - (joule/cm^3)$^{0.5}$, v - cm^3/mol)						
ID	FORMULA	NAME	CAS No	sol par	v	code	ID	FORMULA	NAME	CAS No	sol par	v	code
4995	Yb	ytterbium	7440-64-4	76.493	26.904	1,2	5069	ZnF2	zinc fluoride	7783-49-5	97.627	22.652	1,2
5021	Zn	zinc	7440-66-6	113.746	9.938	1,2	5113	Zr	zirconium	7440-67-7	206.484	15.728	1,2
5062	ZnCl2	zinc chloride	7646-85-7	51.231	56.941	1,2							
Code: 1 - data, 2 - estimate													
* Use ID or CAS No for complete name (See Chapther 1 of this book).													

Chapter 15

VAN DER WAALS AREA AND VOLUME – ORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 15. The tabulation is arranged by carbon number (C, C2, C3, ...) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for van der Waals area and volume are given in the adjacent columns.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-7). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of Daubert and Danner (3) and Yaws (6-7) were used extensively. Van der Waals area and volume involve the surface area and volume of an atom and maybe ascertained from bond distances, contact distances and shapes of atoms. Methods of calculation are described by Bondi (1).

Example

In an engineering analysis, van der Waals area and volume are needed for carbon tetrachloride (CCl4). Determine van der Waals area and volume for carbon tetrachloride.

Inspection of the tabulation yields:

area = 7.280E+09 cm^2/mol

volume = 52.300 cm^3/mol

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Table 15 Van Der Waals Area and Volume - Organic Compounds

Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)						Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)					
ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol	ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol
13	CBrClF2	bromochlorodifluoromethane	353-59-3	6.200E+09	42.170	643	C2H2F2	cis-1,2-difluoroethene	1630-77-9	4.670E+09	28.390
16	CBrCl3	bromotrichloromethane	75-62-7	7.550E+09	54.650	644	C2H2F2	trans-1,2-difluoroethene	1630-78-0	4.670E+09	28.390
17	CBrF3	bromotrifluoromethane	75-63-8	7.590E+09	35.330	650	C2H2F4	1,1,1,2-tetrafluoroethane	811-97-2	5.950E+09	37.560
23	CBr2F2	dibromodifluoromethane	75-61-6	6.360E+09	43.570	681	C2H2O	ketene	463-51-4	4.027E+09	25.710
34	CClF3	chlorotrifluoromethane	75-72-9	5.270E+09	33.570	684	C2H2O4	oxalic acid	144-62-7	6.120E+09	39.480
39	CClN	cyanogen chloride	506-77-4	3.990E+09	26.320	688	C2H3Br	vinyl bromide	593-60-2	5.070E+09	35.530
42	CCl2F2	dichlorodifluoromethane	75-71-8	5.940E+09	39.810	701	C2H3Cl	vinyl chloride	75-01-4	4.740E+09	32.030
44	CCl2O	phosgene	75-44-5	5.200E+09	34.900	702	C2H3ClF2	1-chloro-1,1-difluoroethane	75-68-3	6.240E+09	41.240
47	CCl3F	trichlorofluoromethane	75-69-4	6.610E+09	46.050	707	C2H3ClO	acetyl chloride	75-36-5	5.520E+09	36.990
50	CCl4	carbon tetrachloride	56-23-5	7.280E+09	52.300	708	C2H3ClO	chloroacetaldehyde	107-20-0	5.520E+09	36.990
68	CF2O	carbonyl fluoride	353-50-4	3.800E+09	23.140	710	C2H3ClO2	chloroacetic acid	79-11-8	6.210E+09	41.370
74	CF4	carbon tetrafluoride	75-73-0	4.600E+09	27.330	711	C2H3ClO2	methyl chloroformate	79-22-1	6.120E+09	40.490
96	CHBr3	bromoform	75-25-2	6.810E+09	49.980	720	C2H3Cl3	1,1,1-trichloroethane	71-55-6	7.580E+09	53.720
97	CHClF2	chlorodifluoromethane	75-45-6	4.690E+09	31.020	721	C2H3Cl3	1,1,2-trichloroethane	79-00-5	7.360E+09	53.110
101	CHCl2F	dichlorofluoromethane	75-43-4	5.270E+09	35.740	728	C2H3F	vinyl fluoride	75-02-5	4.040E+09	26.130
104	CHCl3	chloroform	67-66-3	7.660E+09	43.500	735	C2H3F3	1,1,1-trifluoroethane	420-46-2	5.570E+09	35.000
113	CHF3	fluoroform	75-46-7	3.870E+09	23.940	753	C2H3N	acetonitrile	75-05-8	4.310E+09	28.370
117	CHI3	iodoform	75-47-8	8.010E+09	64.320	755	C2H3NO	methyl isocyanate	624-83-9	4.930E+09	32.530
122	CHN	hydrogen cyanide	74-90-8	3.025E+09	18.130	787	C2H4	ethylene	74-85-1	3.720E+09	23.880
140	CH2BrCl	bromochloromethane	74-97-5	5.260E+09	37.070	798	C2H4Br2	1,1-dibromoethane	557-91-5	6.870E+09	49.650
144	CH2Br2	dibromomethane	74-95-3	5.530E+09	39.430	799	C2H4Br2	1,2-dibromoethane	106-93-4	6.860E+09	49.260
145	CH2ClF	chlorofluoromethane	593-70-4	4.250E+09	27.570	812	C2H4Cl2	1,1-dichloroethane	75-34-3	6.330E+09	44.930
149	CH2Cl2	dichloromethane	75-09-2	4.990E+09	34.710	813	C2H4Cl2	1,2-dichloroethane	107-06-2	6.300E+09	43.700
158	CH2F2	difluoromethane	75-10-5	3.550E+09	21.670	816	C2H4Cl2O	bis(chloromethyl) ether	542-88-1	6.900E+09	47.400
161	CH2I2	diiodomethane	75-11-6	6.430E+09	50.930	834	C2H4F2	1,1-difluoroethane	75-37-6	4.890E+09	31.890
175	CH2O	formaldehyde	50-00-0	3.090E+09	18.600	835	C2H4F2	1,2-difluoroethane	624-72-6	4.900E+09	31.900
176	CH2O2	formic acid	64-18-6	3.634E+09	22.740	845	C2H4I2	1,2-diiodoethane	624-73-7	7.660E+09	58.820
191	CH3Br	methyl bromide	74-83-9	4.200E+09	28.070	884	C2H4O	acetaldehyde	75-07-0	4.490E+09	28.810
196	CH3Cl	methyl chloride	74-87-3	3.920E+09	25.290	885	C2H4O	ethylene oxide	75-21-8	3.300E+09	24.160
210	CH3Cl3Si	methyl trichlorosilane	75-79-6	8.090E+09	61.680	889	C2H4O2	acetic acid	64-19-7	5.180E+09	33.300
214	CH3F	methyl fluoride	593-53-3	3.220E+09	19.390	890	C2H4O2	methyl formate	107-31-3	5.090E+09	32.510
222	CH3I	methyl iodide	74-88-4	4.600E+09	32.850	901	C2H4S	ethylene sulfide	420-12-2	4.000E+09	31.260
232	CH3NO	formamide	75-12-7	4.110E+09	25.460	910	C2H5Br	bromoethane	74-96-4	5.550E+09	38.300
235	CH3NO2	nitromethane	75-52-5	4.690E+09	30.470	914	C2H5Cl	ethyl chloride	75-00-3	5.270E+09	35.520
251	CH4	methane	74-82-8	2.880E+09	17.050	917	C2H5ClO	2-chloroethanol	107-07-3	5.960E+09	40.120
254	CH4Cl2Si	methyl dichlorosilane	75-54-7	7.080E+09	52.800	939	C2H5F	ethyl fluoride	353-36-6	4.570E+09	29.620
272	CH4O	methyl alcohol	67-56-1	3.580E+09	21.710	948	C2H5I	ethyl iodide	75-03-6	5.950E+09	43.080
275	CH4O3S	methanesulfonic acid	75-75-2	6.180E+09	42.010	954	C2H5N	ethyleneimine	151-56-4	3.690E+09	28.540
278	CH4S	methyl mercaptan	74-93-1	4.390E+09	28.480	956	C2H5NO	acetamide	60-35-5	5.460E+09	35.690
284	CH5ClSi	methyl chlorosilane	993-00-0	6.060E+09	43.920	957	C2H5NO	N-methylformamide	123-39-7	5.480E+09	36.450
286	CH5N	methylamine	74-89-5	3.860E+09	24.210	958	C2H5NO2	nitroethane	79-24-3	6.020E+09	40.700
322	CH6Si	methyl silane	992-94-9	5.050E+09	35.040	985	C2H6	ethane	74-84-0	4.240E+09	27.340
363	CN4O8	tetranitromethane	509-14-8	1.020E+10	70.530	1065	C2H6O	ethyl alcohol	64-17-5	4.930E+09	31.940
372	CO	carbon monoxide	630-08-0	2.780E+09	16.200	1066	C2H6O	dimethyl ether	115-10-6	4.840E+09	31.040
373	COS	carbonyl sulfide	463-58-1	4.053E+09	25.900	1067	C2H6OS	dimethyl sulfoxide	67-68-5	6.180E+09	42.880
375	CO2	carbon dioxide	124-38-9	3.230E+09	19.700	1072	C2H6O2	ethylene glycol	107-21-1	5.620E+09	36.540
382	CS2	carbon disulfide	75-15-0	4.754E+09	31.200	1083	C2H6O4S	dimethyl sulfate	77-78-1	7.640E+09	62.440
404	C2BrF3	bromotrifluoroethylene	598-73-2	6.600E+09	41.820	1092	C2H6S	ethyl mercaptan	75-08-1	5.750E+09	38.710
413	C2Br2F4	1,2-dibromotetrafluoroethane	124-73-2	8.560E+09	58.340	1093	C2H6S	dimethyl sulfide	75-18-3	5.540E+09	38.140
423	C2ClF3	chlorotrifluoroethylene	79-38-9	6.490E+09	40.260	1094	C2H6S2	dimethyl disulfide	624-92-0	7.250E+09	50.040
427	C2ClF5	chloropentafluoroethane	76-15-3	7.570E+09	40.260	1115	C2H7N	ethylamine	75-04-7	5.210E+09	34.440
441	C2Cl2F4	1,2-dichloro-1,1,2,2-tetrafluoroethane	76-14-2	8.240E+09	55.140	1116	C2H7N	dimethylamine	124-40-3	5.230E+09	35.420
449	C2Cl3F3	1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	9.580E+09	61.380	1117	C2H7NO	monoethanolamine	141-43-5	5.900E+09	39.040
455	C2Cl4	tetrachloroethylene	127-18-4	8.500E+09	58.980	1159	C2H8N2	ethylenediamine	107-15-3	9.660E+09	41.540
456	C2Cl4F2	1,1,2,2-tetrachloro-1,2-difluoroethane	76-12-0	8.910E+09	67.620	1168	C2H8Si	dimethyl silane	1111-74-6	6.320E+09	44.780
459	C2Cl4O	trichloroacetyl chloride	76-02-8	8.860E+09	63.370	1210	C2N2	cyanogen	460-19-5	4.380E+09	29.400
463	C2Cl6	hexachloroethane	67-72-1	1.092E+10	80.100	1284	C3F6	hexafluoropropylene	116-15-4	8.120E+09	49.350
488	C2F4	tetrafluoroethylene	116-14-3	5.820E+09	34.020	1287	C3F6O	hexafluoroacetone	684-16-2	8.500E+09	54.360
494	C2F6	hexafluoroethane	76-16-4	6.900E+09	42.660	1299	C3F8	octafluoropropane	76-19-7	9.200E+09	57.990
511	C2HBrClF3	halothane	151-67-7	7.900E+09	54.130	1377	C3H2N2	malononitrile	109-77-3	5.730E+09	39.630
525	C2HClF2	2-chloro-1,1-difluoroethylene	359-10-4	5.790E+09	37.100	1402	C3H3Cl	propargyl chloride	624-65-7	5.870E+09	41.450
539	C2HCl3	trichloroethylene	79-01-6	7.130E+09	49.580	1462	C3H3N	acrylonitrile	107-13-1	5.130E+09	35.100
543	C2HCl3O	dichloroacetyl chloride	79-36-7	7.610E+09	54.580	1463	C3H3NO	oxazole	288-42-6	4.070E+09	34.330
544	C2HCl3O	trichloroacetaldehyde	75-87-6	7.830E+09	55.190	1492	C3H4	methylacetylene	74-99-7	4.840E+09	33.270
551	C2HCl5	pentachloroethane	76-01-7	9.670E+09	71.310	1493	C3H4	allene	463-49-0	4.706E+09	30.840
554	C2HF3	trifluoroethene	359-11-5	4.990E+09	30.640	1533	C3H4Cl2	2,3-dichloropropene	78-88-6	7.440E+09	51.040
556	C2HF3O2	trifluoroacetic acid	76-05-1	6.510E+09	41.070	1621	C3H4O	acrolein	107-02-8	6.390E+09	44.020
558	C2HF5	pentafluoroethane	354-33-6	6.320E+09	40.110	1622	C3H4O	propargyl alcohol	107-19-7	5.530E+09	37.870
571	C2H2	acetylene	74-86-2	3.480E+09	23.100	1626	C3H4O2	acrylic acid	79-10-7	6.000E+09	39.930
592	C2H2Br4	1,1,2,2-tetrabromoethane	79-27-6	9.460E+09	71.160	1627	C3H4O2	beta-propiolactone	57-57-8	4.900E+09	35.660
615	C2H2Cl2	1,1-dichloroethylene	75-35-4	6.110E+09	41.430	1628	C3H4O2	vinyl formate	692-45-5	5.900E+09	39.250
616	C2H2Cl2	cis-1,2-dichloroethylene	156-59-2	5.760E+09	40.180	1633	C3H4O3	ethylene carbonate	96-49-1	7.530E+09	38.220
617	C2H2Cl2	trans-1,2-dichloroethylene	156-60-5	5.760E+09	40.180	1634	C3H4O3	pyruvic acid	127-17-3	6.780E+09	45.110
625	C2H2Cl2O	chloroacetyl chloride	79-04-9	6.550E+09	45.170	1645	C3H5Br	3-bromo-1-propene	106-95-6	6.370E+09	45.040
626	C2H2Cl2O	dichloroacetaldehyde	79-02-7	6.580E+09	46.400	1670	C3H5Cl	2-chloro-1-propene	557-98-2	6.410E+09	42.860
627	C2H2Cl2O2	dichloroacetic acid	79-43-6	7.270E+09	51.000	1671	C3H5Cl	3-chloro-1-propene	107-05-1	6.090E+09	42.260
630	C2H2Cl3F	1,1,1-trichloro-2-fluoroethane	2366-36-1	7.960E+09	56.280	1676	C3H5ClO	alpha-epichlorohydrin	106-89-8	5.670E+09	42.560
635	C2H2Cl4	1,1,1,2-tetrachloroethane	630-20-6	8.550E+09	61.900	1688	C3H5ClO2	methyl chloroacetate	96-34-4	7.470E+09	50.720
636	C2H2Cl4	1,1,2,2-tetrachloroethane	79-34-5	8.420E+09	62.520	1689	C3H5ClO2	ethyl chloroformate	541-41-3	7.470E+09	50.720
642	C2H2F2	1,1-difluoroethylene	75-38-7	4.670E+09	28.390	1707	C3H5Cl3	1,2,3-trichloropropane	96-18-4	8.690E+09	62.720

Table 15 Van Der Waals Area and Volume - Organic Compounds

Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)						Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)					
ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol	ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol
1737	C3H5I	3-iodo-1-propene	556-56-9	6.770E+09	49.820	2634	C4H5Cl	chloroprene	126-99-8	7.230E+09	49.600
1752	C3H5N	propionitrile	107-12-0	5.660E+09	38.600	2695	C4H5N	trans-crotonitrile	627-26-9	6.470E+09	45.310
1755	C3H5NO	acrylamide	79-06-1	6.280E+09	42.430	2696	C4H5N	cis-crotonitrile	1190-76-7	6.470E+09	45.310
1756	C3H5NO	hydracrylonitrile	109-78-4	6.350E+09	43.200	2697	C4H5N	methacrylonitrile	126-98-7	6.780E+09	45.320
1757	C3H5NO	lactonitrile	78-97-7	6.340E+09	43.190	2698	C4H5N	vinylacetonitrile	109-75-1	6.480E+09	45.340
1796	C3H5N3O9	nitroglycerine	55-63-0	1.272E+10	88.740	2701	C4H5N	pyrrole	109-97-7	5.310E+09	41.960
1809	C3H6	cyclopropane	75-19-4	4.050E+09	30.690	2713	C4H5NO2	methyl cyanoacetate	105-34-0	7.860E+09	53.800
1810	C3H6	propylene	115-07-1	5.060E+09	34.080	2753	C4H6	cyclobutene	822-35-5	4.000E+09	32.240
1825	C3H6Br2	1,2-dibromopropane	78-75-1	8.200E+09	60.100	2754	C4H6	dimethylacetylene	503-17-3	6.200E+09	43.440
1844	C3H6Cl2	1,1-dichloropropane	78-99-9	7.680E+09	55.160	2755	C4H6	ethylacetylene	107-00-6	6.190E+09	43.500
1845	C3H6Cl2	1,2-dichloropropane	78-87-5	7.640E+09	54.540	2756	C4H6	1,2-butadiene	590-19-2	6.060E+09	41.040
1846	C3H6Cl2	1,3-dichloropropane	142-28-9	7.650E+09	53.930	2757	C4H6	butadiene (1,3 butadiene)	106-99-0	5.880E+09	40.820
1847	C3H6Cl2	2,2-dichloropropane	594-20-7	7.680E+09	55.160	2806	C4H6Cl2	1,3-dichloro-trans-2-butene	7415-31-8	8.780E+09	61.240
1872	C3H6I2	1,2-diiodopropane	598-29-8	9.000E+09	69.660	2807	C4H6Cl2	1,4-dichloro-cis-2-butene	1476-11-5	8.460E+09	60.240
1920	C3H6O	allyl alcohol	107-18-6	5.750E+09	38.680	2808	C4H6Cl2	1,4-dichloro-trans-2-butene	110-57-6	8.460E+09	60.640
1921	C3H6O	methyl vinyl ether	107-25-5	5.660E+09	37.780	2809	C4H6Cl2	3,4-dichloro-1-butene	760-23-6	8.480E+09	61.280
1922	C3H6O	propionaldehyde	123-38-6	5.840E+09	39.040	2939.1	C4H6O	cis-crotonaldehyde	15798-64-8	6.510E+09	45.300
1923	C3H6O	acetone	67-64-1	5.840E+09	39.040	2940	C4H6O	trans-crotonaldehyde	123-73-9	6.650E+09	45.750
1924	C3H6O	1,2-propylene oxide	75-56-9	4.640E+09	34.400	2941	C4H6O	methacrolein	78-85-3	6.960E+09	45.760
1925	C3H6O	1,3-propylene oxide	503-30-0	4.650E+09	34.390	2942	C4H6O	2,5-dihydrofuran	1708-29-8	5.460E+09	41.100
1930	C3H6O2	propanoic acid	79-09-4	6.530E+09	43.420	2944	C4H6O	divinyl ether	109-93-3	6.480E+09	44.520
1931	C3H6O2	ethyl formate	109-94-4	6.440E+09	42.740	2963	C4H6O2	2-butyne-1,4-diol	110-65-6	7.580E+09	52.640
1932	C3H6O2	methyl acetate	79-20-9	6.440E+09	42.540	2965	C4H6O2	gamma-butyrolactone	96-48-0	6.250E+09	45.890
1942	C3H6O2S	3-mercaptopropionic acid	107-96-0	7.900E+09	55.010	2966	C4H6O2	cis-2-butenoic acid	503-64-0	7.340E+09	50.130
1948	C3H6O3	lactic acid	50-21-5	7.200E+09	48.010	2967	C4H6O2	trans-2-butenoic acid	107-93-7	7.340E+09	50.350
1949	C3H6O3	methoxyacetic acid	625-45-6	7.130E+09	47.120	2969	C4H6O2	methacrylic acid	79-41-4	7.650E+09	50.140
1950	C3H6O3	trioxane	110-88-3	5.850E+09	41.790	2970	C4H6O2	methyl acrylate	96-33-3	7.260E+09	49.280
1967	C3H6S	thiacyclobutane	287-27-4	5.350E+09	38.700	2971	C4H6O2	vinyl acetate	108-05-4	7.260E+09	49.280
1978	C3H7Br	1-bromopropane	106-94-5	6.900E+09	48.530	2990	C4H6O3	acetic anhydride	108-24-7	8.640E+09	54.400
1979	C3H7Br	2-bromopropane	75-26-3	6.890E+09	48.520	3006	C4H6O4	succinic acid	110-15-6	8.820E+09	59.500
1986	C3H7Cl	1-chloropropane	540-54-5	6.620E+09	45.750	3023	C4H6O5	diglycolic acid	110-99-6	9.420E+09	63.200
1987	C3H7Cl	2-chloropropane	75-29-6	6.610E+09	45.740	3024	C4H6O5	malic acid	6915-15-7	1.550E+10	64.530
2020	C3H7F	1-fluoropropane	460-13-9	5.920E+09	39.850	3033	C4H6O6	tartaric acid	87-69-4	1.018E+10	68.680
2021	C3H7F	2-fluoropropane	420-26-8	5.910E+09	39.840	3238	C4H7N	butyronitrile	109-74-0	7.010E+09	48.830
2025	C3H7I	1-iodopropane	107-08-4	7.300E+09	53.310	3239	C4H7N	isobutyronitrile	78-82-0	7.000E+09	48.820
2026	C3H7I	2-iodopropane	75-30-9	7.290E+09	53.300	3246	C4H7NO	acetone cyanohydrin	75-86-5	7.890E+09	53.410
2030	C3H7N	allylamine	107-11-9	6.030E+09	41.180	3247	C4H7NO	2-methacrylamide	79-39-0	8.400E+09	56.320
2031	C3H7N	propyleneimine	75-55-8	5.030E+09	38.760	3248	C4H7NO	3-methoxypropionitrile	110-67-8	7.610E+09	52.530
2036	C3H7NO	N,N-dimethylformamide	68-12-2	6.840E+09	46.810	3249	C4H7NO	2-pyrrolidone	616-45-5	6.640E+09	50.470
2037	C3H7NO	N-methylacetamide	79-16-3	6.830E+09	47.120	3319	C4H8	cyclobutane	287-23-0	5.400E+09	40.920
2045	C3H7NO2	1-nitropropane	108-03-2	7.370E+09	50.930	3320	C4H8	1-butene	106-98-9	6.410E+09	44.310
2046	C3H7NO2	2-nitropropane	79-46-9	7.360E+09	50.920	3322	C4H8	cis-2-butene	590-18-1	6.400E+09	44.280
2094	C3H8	propane	74-98-6	5.590E+09	37.570	3323	C4H8	trans-2-butene	624-64-6	6.400E+09	44.280
2129	C3H8O	propyl alcohol	71-23-8	6.280E+09	42.170	3324	C4H8	isobutene	115-11-7	6.710E+09	44.290
2130	C3H8O	isopropyl alcohol	67-63-0	6.270E+09	42.160	3334	C4H8Br2	1,2-dibromobutane	533-98-2	9.560E+09	69.720
2131	C3H8O	methyl ethyl ether	540-67-0	6.190E+09	41.270	3338	C4H8Br2	DL-2,3-dibromobutane	598-71-0	9.550E+09	69.710
2138	C3H8O2	2-methoxyethanol	109-86-4	6.880E+09	45.870	3363	C4H8Cl2	1,4-dichlorobutane	110-56-5	9.000E+09	64.160
2139	C3H8O2	methylal	109-87-5	6.790E+09	44.970	3402	C4H8I2	1,2-diiodobutane	53161-72-1	1.048E+10	79.280
2140	C3H8O2	1,2-propanediol (propylene glycol)	57-55-6	6.960E+09	46.760	3474	C4H8O	1,2-epoxybutane	106-88-7	5.990E+09	44.610
2141	C3H8O2	1,3-propanediol	504-63-2	6.970E+09	46.770	3476	C4H8O	ethyl vinyl ether	109-92-2	7.010E+09	48.010
2148	C3H8O3	glycerol	56-81-5	7.650E+09	51.360	3478	C4H8O	butyraldehyde	123-72-8	7.190E+09	49.270
2158	C3H8S	propyl mercaptan	107-03-9	7.100E+09	48.940	3479	C4H8O	isobutyraldehyde	78-84-2	7.190E+09	49.270
2159	C3H8S	isopropyl mercaptan	75-33-2	7.100E+09	48.930	3480	C4H8O	methyl ethyl ketone	78-93-3	7.190E+09	49.270
2160	C3H8S	methyl ethyl sulfide	624-89-5	6.890E+09	48.370	3481	C4H8O	tetrahydrofuran	109-99-9	6.000E+09	44.620
2200	C3H9N	propylamine	107-10-8	6.560E+09	44.670	3504	C4H8O2	butyric acid	107-92-6	7.880E+09	53.870
2201	C3H9N	isopropylamine	75-31-0	6.550E+09	44.660	3505	C4H8O2	isobutyric acid	79-31-2	7.870E+09	53.860
2203	C3H9N	trimethylamine	75-50-3	6.590E+09	45.340	3506	C4H8O2	propyl formate	110-74-7	7.790E+09	52.970
2204	C3H9NO	1-amino-2-propanol	78-96-6	7.240E+09	49.300	3508	C4H8O2	ethyl acetate	141-78-6	7.790E+09	52.770
2205	C3H9NO	3-amino-1-propanol	156-87-6	7.250E+09	49.270	3509	C4H8O2	methyl propanoate	554-12-1	7.790E+09	52.770
2206	C3H9NO	methylethanolamine	109-83-1	7.270E+09	50.250	3510	C4H8O2	1,4-dioxane	123-91-1	5.900E+09	46.620
2241	C3H9O4P	trimethyl phosphate	512-56-1	9.460E+09	66.810	3511	C4H8O2	cis-2-butene-1,4-diol	6117-80-2	7.780E+09	53.480
2255	C3H10N2	1,2-propanediamine	78-90-0	7.520E+09	51.760	3512	C4H8O2	trans-2-butene-1,4-diol	821-11-4	7.780E+09	53.480
2268	C3H10Si	trimethyl silane	993-07-7	7.590E+09	54.530	3535.1	C4H8O2	4-hydroxybutraldehyde	25714-71-0	7.880E+09	53.870
2317	C4Cl4S	tetrachlorothiophene	6012-97-1	1.102E+10	79.800	3535.2	C4H8O2	3-hydroxy-2-methyl propionaldehyde	38433-80-6	7.870E+09	53.860
2318	C4Cl6	hexachloro-1,3-butadiene	87-68-3	1.336E+10	93.480	3536	C4H8O2S	sulfolane	126-33-0	8.000E+09	61.220
2334	C4F8	octafluoro-2-butene	360-89-4	1.032E+10	64.120	3581	C4H8S	tetrahydrothiophene	110-01-0	6.700E+09	51.700
2336	C4F8	octafluorocyclobutane	115-25-3	9.200E+09	61.320	3598	C4H9Br	1-bromobutane	109-65-9	8.250E+09	58.760
2338.1	C4F8O	pentafluoroethyl trifluorovinyl ether	10493-43-3	9.641E+09	70.950	3599	C4H9Br	2-bromobutane	78-76-2	8.250E+09	58.900
2344	C4F10	decafluorobutane	355-25-9	1.150E+10	73.320	3610	C4H9Cl	1-chlorobutane	109-69-3	7.970E+09	55.980
2374	C4H2	biacetylene	460-12-8	3.840E+09	31.280	3611	C4H9Cl	1-chloro-2-methylpropane	513-36-0	7.960E+09	55.970
2420.1	C4H2N2	maleonitrile	928-53-0	6.540E+09	46.340	3613	C4H9Cl	2-chloro-2-methylpropane	507-20-0	8.180E+09	56.580
2430	C4H2O3	maleic anhydride	108-31-6	5.960E+09	44.040	3669	C4H9I	2-iodo-2-methylpropane	558-17-8	8.290E+09	63.530
2510	C4H4	vinylacetylene	689-97-4	5.660E+09	40.010	3675	C4H9N	pyrrolidine	123-75-1	6.390E+09	49.000
2562	C4H4N2	succinonitrile	110-61-2	7.080E+09	49.860	3681	C4H9NO	N,N-dimethylacetamide	127-19-5	8.190E+09	57.040
2592	C4H4O	furan	110-00-9	4.920E+09	37.580	3682	C4H9NO	morpholine	110-91-8	6.990E+09	52.700
2598	C4H4O2	diketene	674-82-8	6.020E+09	42.380	3697	C4H9NO2	1-nitrobutane	627-05-4	8.720E+09	61.160
2603	C4H4O3	succinic anhydride	108-30-5	5.900E+09	43.900	3698	C4H9NO2	2-nitrobutane	600-24-8	8.710E+09	61.150
2605	C4H4O4	fumaric acid	110-17-8	8.280E+09	56.420	3783	C4H10	butane	106-97-8	6.940E+09	47.800
2606	C4H4O4	maleic acid	110-16-7	8.280E+09	56.420	3784	C4H10	isobutane	75-28-5	6.930E+09	47.790
2613	C4H4S	thiophene	110-02-1	5.620E+09	44.680	3830	C4H10N2	piperazine	110-85-0	7.380E+09	57.080

Table 15 Van Der Waals Area and Volume - Organic Compounds

Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)						Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)					
ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol	ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol
3865	C4H10O	butanol	71-36-3	7.620E+09	52.400	5286	C5H10	1-pentene	109-67-1	7.760E+09	54.540
3866	C4H10O	isobutanol	78-83-1	7.620E+09	52.390	5288	C5H10	cis-2-pentene	627-20-3	7.750E+09	54.510
3867	C4H10O	sec-butanol	78-92-2	7.620E+09	52.390	5289	C5H10	trans-2-pentene	646-04-8	7.750E+09	54.510
3868	C4H10O	tert-butanol	75-65-0	7.620E+09	52.380	5290	C5H10	2-methyl-1-butene	563-46-2	8.060E+09	54.520
3869	C4H10O	diethyl ether	60-29-7	7.540E+09	51.500	5291	C5H10	3-methyl-1-butene	563-45-1	7.750E+09	54.530
3870	C4H10O	methyl propyl ether	557-17-5	7.540E+09	51.500	5292	C5H10	2-methyl-2-butene	513-35-9	8.050E+09	54.490
3871	C4H10O	methyl isopropyl ether	598-53-8	7.530E+09	51.490	5314	C5H10Br2	2,3-dibromo-2-methylbutane	594-51-4	8.830E+09	79.950
3881	C4H10O2	t-butyl hydroperoxide	75-91-2	8.420E+09	56.080	5334	C5H10Cl2	1,5-dichloropentane	628-76-2	1.035E+10	74.390
3882	C4H10O2	1,2-dimethoxyethane	110-71-4	8.140E+09	55.200	5445	C5H10O	pentanal	110-62-3	8.540E+09	59.500
3883	C4H10O2	2-ethoxyethanol	110-80-5	8.230E+09	56.100	5450	C5H10O	methyl propyl ketone	107-87-9	8.540E+09	59.500
3885	C4H10O2	1,3-butanediol	107-88-0	8.310E+09	56.990	5451	C5H10O	diethyl ketone	96-22-0	8.540E+09	59.500
3886	C4H10O2	1,4-butanediol	110-63-4	8.320E+09	57.000	5452	C5H10O	methyl isopropyl ketone	563-80-4	8.530E+09	59.490
3887	C4H10O2	DL-2,3-butanediol	6982-25-8	8.300E+09	56.980	5492	C5H10O2	pentanoic acid	109-52-4	9.230E+09	63.880
3893.1	C4H10O2	n-butylhydroperoxide	4813-50-7	8.230E+09	56.100	5493	C5H10O2	2-methylbutyric acid	116-53-0	9.220E+09	63.870
3918	C4H10O3	diethylene glycol	111-46-6	8.920E+09	60.700	5494	C5H10O2	3-methylbutanoic acid	503-74-2	9.220E+09	63.870
3937	C4H10O4S	diethyl sulfate	64-67-5	1.034E+10	82.900	5497	C5H10O2	butyl formate	592-84-7	9.140E+09	63.200
3942	C4H10S	butyl mercaptan	109-79-5	8.454E+09	59.170	5498	C5H10O2	isobutyl formate	542-55-2	9.130E+09	63.190
3943	C4H10S	isobutyl mercaptan	513-44-0	8.453E+09	59.160	5501	C5H10O2	propyl acetate	109-60-4	9.140E+09	63.000
3944	C4H10S	sec-butyl mercaptan	513-53-1	8.450E+09	59.160	5502	C5H10O2	isopropyl acetate	108-21-4	9.130E+09	62.990
3945	C4H10S	tert-butyl mercaptan	75-66-1	8.450E+09	59.150	5503	C5H10O2	ethyl propanoate	105-37-3	9.140E+09	63.000
3947	C4H10S	diethyl sulfide	352-93-2	8.240E+09	58.600	5504	C5H10O2	methyl butanoate	623-42-7	9.140E+09	63.000
3948	C4H10S	methyl propyl sulfide	3877-15-4	8.240E+09	58.600	5506	C5H10O2	tetrahydrofurfuryl alcohol	97-99-4	8.030E+09	59.440
3949	C4H10S	methyl isopropyl sulfide	1551-21-9	8.230E+09	58.590	5537	C5H10O2S	3-methyl sulfolane	872-93-5	9.340E+09	71.440
3950	C4H10S2	diethyl disulfide	110-81-6	9.530E+09	70.490	5543	C5H10O3	diethyl carbonate	105-58-8	9.740E+09	66.700
3977	C4H11N	butylamine	109-73-9	7.910E+09	54.900	5544	C5H10O3	ethyl lactate	97-64-3	9.820E+09	67.590
3978	C4H11N	isobutylamine	78-81-9	7.900E+09	54.890	5593	C5H10S	thiacyclohexane	1613-51-0	8.050E+09	58.150
3979	C4H11N	sec-butylamine	13952-84-6	7.900E+09	54.890	5597	C5H10S	cyclopentanethiol	1679-07-8	8.050E+09	61.310
3980	C4H11N	tert-butylamine	75-64-9	8.100E+09	54.880	5603	C5H11Br	1-bromopentane	110-53-2	9.600E+09	68.990
3984	C4H11N	diethylamine	109-89-7	7.930E+09	55.880	5620	C5H11Cl	1-chloropentane	543-59-9	9.320E+09	66.210
3988	C4H11NO	dimethylethanolamine	108-01-0	8.630E+09	60.170	5624	C5H11Cl	1-chloro-3-methylbutane	107-84-6	9.320E+09	66.210
4006	C4H11NO2	diethanolamine	111-42-2	9.310E+09	65.080	5625	C5H11Cl	2-chloro-2-methylbutane	594-36-5	9.320E+09	66.210
4007	C4H11NO2	2-aminoethoxyethanol	929-06-6	9.200E+09	63.200	5669	C5H11N	N-methylpyrrolidine	120-94-5	7.543E+09	58.920
4080	C4H12N2O	N-aminoethyl ethanolamine	111-41-1	9.590E+09	67.580	5670	C5H11N	piperidine	110-89-4	7.740E+09	59.230
4110	C4H12Si	tetramethylsilane	75-76-3	8.867E+09	64.270	5675	C5H11NO	tert-butylformamide	2425-74-3	5.720E+09	67.560
4118	C4H13N3	diethylene triamine	111-40-0	9.870E+09	70.080	5772	C5H12	pentane	109-66-0	8.290E+09	58.030
4169	C5Cl6	hexachlorocyclopentadiene	77-47-4	1.386E+10	96.810	5773	C5H12	isopentane	78-78-4	8.280E+09	58.020
4327	C5H4O2	furfural	98-01-1	6.120E+09	47.260	5774	C5H12	neopentane	463-82-1	8.480E+09	58.010
4391	C5H5N	pyridine	110-86-1	6.650E+09	45.500	5831	C5H12O	1-pentanol	71-41-0	8.980E+09	62.630
4447	C5H6	cyclopentadiene	542-92-7	5.670E+09	43.860	5832	C5H12O	2-pentanol	6032-29-7	8.970E+09	62.620
4448	C5H6	2-methyl-1-butene-3-yne	78-80-8	7.310E+09	50.220	5833	C5H12O	3-pentanol	584-02-1	8.970E+09	62.620
4449	C5H6	1-pentene-3-yne	646-05-9	7.020E+09	50.180	5834	C5H12O	2-methyl-1-butanol	137-32-6	8.970E+09	62.620
4450	C5H6	1-pentene-4-yne	871-28-3	7.010E+09	50.240	5837	C5H12O	3-methyl-1-butanol	123-51-3	8.970E+09	62.620
4490	C5H6N2	glutaronitrile	544-13-8	8.430E+09	60.090	5838	C5H12O	tert-pentyl-alcohol	75-85-4	8.960E+09	62.610
4548	C5H6O2	furfuryl alcohol	98-00-0	6.650E+09	51.190	5839	C5H12O	3-methyl-2-butanol	598-75-4	8.960E+09	62.610
4567	C5H6O3	glutaric anhydride	108-55-4	7.250E+09	54.100	5840	C5H12O	2,2-dimethyl-1-propanol	75-84-3	9.170E+09	62.610
4576	C5H6O4	citraconic acid	498-23-7	9.930E+09	66.630	5842	C5H12O	methyl isobutyl ether	625-44-5	8.880E+09	61.720
4577	C5H6O4	itaconic acid	97-65-4	9.940E+09	66.660	5843	C5H12O	methyl sec-butyl ether	6795-87-5	8.880E+09	61.720
4587	C5H6S	2-methylthiophene	554-14-3	7.740E+09	58.350	5844	C5H12O	methyl tert-butyl ether	1634-04-4	9.080E+09	61.710
4588	C5H6S	3-methylthiophene	616-44-4	7.740E+09	58.350	5845	C5H12O	ethyl propyl ether	628-32-0	8.890E+09	61.730
4658	C5H7N	N-methylpyrrole	96-54-8	6.670E+09	51.880	5857	C5H12O2	ethylene glycol monopropyl ether	2807-30-9	9.580E+09	66.320
4677	C5H7NO2	ethyl cyanoacetate	105-56-6	9.210E+09	63.810	5858	C5H12O2	neopentyl glycol	126-30-7	9.860E+09	67.210
4737	C5H8	cyclopentene	142-29-0	6.050E+09	46.810	5863	C5H12O2	1,5-pentanediol	111-29-5	9.670E+09	67.230
4738	C5H8	isoprene	78-79-5	7.530E+09	51.030	5899	C5H12O3	2-(2-methoxyethoxy)ethanol	111-77-3	1.018E+10	70.030
4739	C5H8	3-methyl-1,2-butadiene	598-25-4	7.410E+09	51.250	5912	C5H12O4	pentaerythritol	115-77-5	1.124E+10	76.410
4740	C5H8	1,2-pentadiene	591-95-7	7.410E+09	51.270	5921	C5H12S	pentyl mercaptan	110-66-7	9.808E+09	69.400
4741	C5H8	cis-1,3-pentadiene	1574-41-0	7.220E+09	51.020	5926	C5H12S	2-methyl-2-butanethiol	1679-09-0	9.590E+09	72.840
4742	C5H8	trans-1,3-pentadiene	2004-70-8	7.220E+09	51.020	5930	C5H12S	methyl butyl sulfide	628-29-5	9.590E+09	68.830
4743	C5H8	1,4-pentadiene	591-93-5	7.230E+09	51.050	5931	C5H12S	ethyl propyl sulfide	4110-50-3	9.590E+09	68.830
4744	C5H8	2,3-pentadiene	591-96-8	7.400E+09	51.240	5947	C5H13N	pentylamine	110-58-7	9.260E+09	65.150
4745	C5H8	1-pentyne	627-19-0	7.540E+09	53.730	5986	C5H13NO2	methyl diethanolamine	105-59-9	1.067E+10	75.000
4746	C5H8	2-pentyne	627-21-4	7.530E+09	53.720	6067	C6Cl6	hexachlorobenzene	118-74-1	1.272E+10	106.700
4747	C5H8	3-methyl-1-butyne	598-23-2	7.530E+09	53.720	6080	C6F6	hexafluorobenzene	392-56-3	7.860E+09	63.240
4845	C5H8N4O12	pentaerythritol tetranitrate	78-11-5	1.800E+10	126.250	6281	C6H3ClN2O4	1-chloro-2,4-dinitrobenzene	97-00-7	1.081E+10	86.400
4848	C5H8O	cyclopentanone	120-92-3	7.000E+09	52.620	6296	C6H3Cl2NO2	1,2-dichloro-4-nitrobenzene	99-54-7	1.007E+10	81.600
4849	C5H8O	methyl isopropenyl ketone	814-78-8	8.310E+09	55.990	6305	C6H3Cl3	1,2,4-trichlorobenzene	120-82-1	1.233E+10	100.980
4882	C5H8O2	acetylacetone	123-54-6	8.790E+09	60.970	6367	C6H3N3O6	1,3,5-trinitrobenzene	99-35-4	1.155E+10	91.200
4883	C5H8O2	allyl acetate	591-87-7	7.810E+09	59.510	6411	C6H4Br2	m-dibromobenzene	108-36-1	8.600E+09	70.920
4885	C5H8O2	vinyl propionate	105-38-4	8.610E+09	59.510	6443	C6H4ClNO2	m-chloronitrobenzene	121-73-3	8.780E+09	70.520
4888	C5H8O2	ethyl acrylate	140-88-5	8.610E+09	59.510	6444	C6H4ClNO2	o-chloronitrobenzene	88-73-3	8.780E+09	70.520
4889	C5H8O2	methyl methacrylate	80-62-6	8.910E+09	59.490	6445	C6H4ClNO2	p-chloronitrobenzene	100-00-5	8.780E+09	70.520
4927	C5H8O3	2-hydroxyethyl acrylate	818-61-1	9.300E+09	64.110	6469	C6H4Cl2	o-dichlorobenzene	95-50-1	8.220E+09	67.300
4928	C5H8O3	levulinic acid	123-76-2	9.480E+09	65.600	6470	C6H4Cl2	m-dichlorobenzene	541-73-1	8.220E+09	67.320
4929	C5H8O3	methyl acetoacetate	105-45-3	9.390E+09	64.470	6471	C6H4Cl2	p-dichlorobenzene	106-46-7	8.220E+09	67.320
4945	C5H8O4	glutaric acid	110-94-1	1.017E+10	69.730	6524	C6H4F2	m-difluorobenzene	372-18-9	6.820E+09	55.520
5183	C5H9N	valeronitrile	110-59-8	8.360E+09	59.060	6525	C6H4F2	o-difluorobenzene	367-11-3	6.820E+09	55.520
5197	C5H9NO	butyl isocyanate	111-36-4	8.730E+09	61.260	6526	C6H4F2	p-difluorobenzene	540-36-3	6.820E+09	55.520
5198	C5H9NO	N-methyl-2-pyrrolidone	872-50-4	8.000E+09	60.390	6580	C6H4N2O4	m-dinitrobenzene	99-65-0	9.700E+09	76.920
5245	C5H9NO4	L-glutamic acid	56-86-0	1.113E+10	76.820	6581	C6H4N2O4	o-dinitrobenzene	528-29-0	9.700E+09	76.920
5269.1	C5H9NS	N-methylthiopyrrolidone	10441-57-3	9.477E+09	65.810	6582	C6H4N2O4	p-dinitrobenzene	100-25-4	9.700E+09	76.920
5285	C5H10	cyclopentane	287-92-3	6.750E+09	49.690	6656	C6H5Br	bromobenzene	108-86-1	7.340E+09	60.160

Table 15 Van Der Waals Area and Volume - Organic Compounds

Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)						Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)					
ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol	ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol
6692	C6H5Cl	chlorobenzene	108-90-7	7.140E+09	57.840	8230	C6H12	3-methyl-cis-2-pentene	922-62-3	9.400E+09	64.720
6720	C6H5ClO	m-chlorophenol	108-43-0	7.870E+09	63.360	8232	C6H12	3-methyl-trans-2-pentene	616-12-6	9.410E+09	64.750
6721	C6H5ClO	o-chlorophenol	95-57-8	7.870E+09	63.360	8233	C6H12	2,3-dimethyl-1-butene	563-78-0	9.400E+09	64.740
6722	C6H5ClO	p-chlorophenol	106-48-9	7.870E+09	63.360	8234	C6H12	2,3-dimethyl-2-butene	563-79-1	9.700E+09	64.700
6740	C6H5Cl2N	3,4-dichloroaniline	95-76-1	9.260E+09	75.340	8235	C6H12	3,3-dimethyl-1-butene	558-37-2	9.300E+09	64.750
6769	C6H5F	fluorobenzene	462-06-6	6.310E+09	50.840	8236	C6H12	2-ethyl-1-butene	760-21-4	9.410E+09	64.750
6795	C6H5I	iodobenzene	591-50-4	7.720E+09	64.680	8315	C6H12N2	triethylenediamine	280-57-9	7.420E+09	67.760
6819	C6H5NO2	nitrobenzene	98-95-3	7.760E+09	61.840	8394	C6H12O	butyl vinyl ether	111-34-2	9.710E+09	68.470
6876	C6H6	benzene	71-43-2	6.000E+09	48.400	8400	C6H12O	cyclohexanol	108-93-0	8.780E+09	64.840
6923	C6H6ClN	m-chloroaniline	108-42-9	9.090E+09	66.440	8401	C6H12O	hexanal	66-25-1	9.890E+09	69.700
6924	C6H6ClN	o-chloroaniline	95-51-2	9.090E+09	66.440	8409	C6H12O	2-hexanone	591-78-6	9.890E+09	69.730
6925	C6H6ClN	p-chloroaniline	106-47-8	8.160E+09	66.100	8410	C6H12O	3-hexanone	589-38-8	8.540E+09	69.730
6979	C6H6N2	cis-dicyano-1-butene	2141-58-4	9.240E+09	66.800	8411	C6H12O	3-methyl-2-pentanone	565-61-7	9.880E+09	69.720
6980	C6H6N2	trans-dicyano-1-butene	2141-59-5	9.240E+09	66.800	8413	C6H12O	ethyl isopropyl ketone	565-69-5	9.880E+09	69.720
6981	C6H6N2	trans-1,4-dicyano-2-butene	1119-85-3	9.240E+10	66.800	8460	C6H12O2	hexanoic acid	142-62-1	1.058E+10	74.330
6996	C6H6N2O2	m-nitroaniline	99-09-2	8.710E+09	69.060	8461	C6H12O2	2-ethyl butyric acid	88-09-5	1.057E+10	74.320
6997	C6H6N2O2	o-nitroaniline	88-74-4	8.710E+09	69.060	8468	C6H12O2	pentyl formate	638-49-3	1.049E+10	73.430
6998	C6H6N2O2	p-nitroaniline	100-01-6	8.710E+09	69.060	8476	C6H12O2	butyl acetate	123-86-4	1.049E+10	73.230
7057	C6H6O	phenol	108-95-2	6.790E+09	53.800	8477	C6H12O2	isobutyl acetate	110-19-0	1.048E+10	73.220
7070	C6H6O2	pyrocatechol	120-80-9	7.520E+09	59.400	8478	C6H12O2	sec-butyl acetate	105-46-4	1.048E+10	73.220
7071	C6H6O2	resorcinol	108-46-3	7.520E+09	59.400	8479	C6H12O2	tert-butyl acetate	540-88-5	1.070E+10	73.200
7072	C6H6O2	p-hydroquinone	123-31-9	8.460E+09	59.980	8480	C6H12O2	propyl propanoate	106-36-5	1.049E+10	73.230
7085	C6H6O3	1,2,3-benzenetriol	87-66-1	8.010E+09	62.500	8482	C6H12O2	ethyl butanoate	105-54-4	1.049E+10	73.430
7121	C6H6S	phenyl mercaptan	108-98-5	8.650E+09	60.650	8483	C6H12O2	ethyl isobutanoate	97-62-1	1.050E+10	73.200
7172	C6H7N	aniline	62-53-3	7.040E+09	56.380	8484	C6H12O2	cyclohexyl peroxide	766-07-4	8.810E+09	68.530
7173	C6H7N	2-methylpyridine	109-06-8	8.120E+09	56.670	8485	C6H12O2	diacetone alcohol	123-42-2	1.077E+10	74.310
7174	C6H7N	3-methylpyridine	108-99-6	8.120E+09	56.670	8531	C6H12O3	2-ethoxyethyl acetate	111-15-9	1.090E+10	76.930
7175	C6H7N	4-methylpyridine	108-89-4	8.120E+09	56.670	8532	C6H12O3	hydroxycaproic acid	1191-25-9	1.126E+10	78.920
7267	C6H8	1,3-cyclohexadiene	592-57-4	7.020E+09	54.090	8533	C6H12O3	paraldehyde	123-63-7	9.870E+09	72.450
7268	C6H8	methylcyclopentadiene	26519-91-5	7.320E+09	54.320	8621	C6H12S	thiacycloheptane	4753-80-4	9.400E+09	67.620
7316	C6H8N2	adiponitrile	111-69-3	9.780E+09	70.320	8742	C6H13N	cyclohexylamine	108-91-8	8.490E+09	66.200
7317	C6H8N2	methylglutaronitrile	4553-62-2	9.770E+09	70.310	8745	C6H13N	hexamethyleneimine	111-49-9	9.090E+09	69.460
7318	C6H8N2	m-phenylenediamine	108-45-2	9.020E+09	64.980	8877	C6H14	hexane	110-54-3	9.640E+09	68.260
7319	C6H8N2	o-phenylenediamine	95-54-5	9.020E+09	64.980	8878	C6H14	2,2-dimethylbutane	75-83-2	9.830E+09	68.240
7320	C6H8N2	p-phenylenediamine	106-50-3	9.020E+09	64.980	8879	C6H14	2,3-dimethylbutane	79-29-8	9.620E+09	68.240
7321	C6H8N2	phenylhydrazine	100-63-0	8.740E+09	65.980	8880	C6H14	2-methylpentane	107-83-5	9.630E+09	68.250
7343	C6H8N2O	bis(cyanoethyl) ether	1656-48-0	1.038E+10	74.020	8881	C6H14	3-methylpentane	96-14-0	9.630E+09	68.250
7446	C6H8O4	dimethyl maleate	624-48-6	1.080E+10	74.680	8944	C6H14N2O2	lysine	56-87-1	1.251E+10	88.520
7459	C6H8O6	ascorbic acid	50-81-7	1.175E+10	80.950	8970	C6H14O	1-hexanol	111-27-3	1.033E+10	72.860
7464	C6H8O7	citric acid	77-92-9	1.202E+10	90.390	8971	C6H14O	2-hexanol	626-93-7	1.032E+10	72.850
7619	C6H10	1-methylcyclopentene	693-89-0	7.660E+09	58.770	8973	C6H14O	2-methyl-1-pentanol	105-30-6	1.032E+10	72.850
7620	C6H10	3-methylcyclopentene	1120-62-3	7.660E+09	58.770	8976	C6H14O	4-methyl-2-pentanol	108-11-2	1.031E+10	72.840
7621	C6H10	4-methylcyclopentene	1759-81-5	7.660E+09	58.770	8981	C6H14O	2-ethyl-1-butanol	97-95-0	1.032E+10	72.850
7622	C6H10	cyclohexene	110-83-8	7.400E+09	57.040	8993	C6H14O	dipropyl ether	111-43-3	1.022E+10	71.960
7629	C6H10	1,5-hexadiene	592-42-7	8.580E+09	61.280	8995	C6H14O	diisopropyl ether	108-20-3	1.022E+10	71.940
7632	C6H10	cis-2,trans-4-hexadiene	5194-50-3	8.560E+09	61.220	9002	C6H14O	methyl tert-pentyl ether	994-05-8	1.043E+10	71.940
7634	C6H10	trans-2,trans-4-hexadiene	5194-51-4	8.560E+09	61.220	9004	C6H14O	ethyl butyl ether	628-81-9	1.024E+10	71.960
7647	C6H10	2,3-dimethyl-1,3-butadiene	513-81-5	9.180E+09	61.240	9020	C6H14O2	acetal	105-57-7	1.083E+10	75.650
7648	C6H10	1-hexyne	693-02-7	8.890E+09	63.960	9021	C6H14O2	2-butoxyethanol	111-76-2	1.093E+10	76.560
7649	C6H10	2-hexyne	764-35-2	8.900E+09	63.900	9022	C6H14O2	hexylene glycol	107-41-5	9.740E+09	69.390
7650	C6H10	3-hexyne	928-49-4	8.900E+09	63.900	9027	C6H14O2	1,6-hexanediol	629-11-8	1.102E+10	77.460
7760	C6H10O	cyclohexanone	108-94-1	8.350E+09	62.850	9069	C6H14O2S	dipropyl sulfone	598-03-8	1.224E+10	88.560
7761	C6H10O	mesityl oxide	141-79-7	9.650E+09	66.190	9075	C6H14O3	diethylene glycol dimethyl ether	111-96-6	1.144E+10	79.360
7813	C6H10O2	epsilon-caprolactone	502-44-3	8.950E+09	66.550	9076	C6H14O3	dipropylene glycol	25265-71-8	1.160E+10	81.140
7814	C6H10O2	ethyl methacrylate	97-63-2	1.026E+10	69.720	9077	C6H14O3	2-(2-ethoxyethoxy)ethanol	111-90-0	1.153E+10	80.260
7815	C6H10O2	propyl acrylate	925-60-0	9.960E+09	69.740	9078	C6H14O3	trimethylolpropane	77-99-6	1.190E+10	82.030
7848.1	C6H10O2	isopropyl acrylate	689-12-3	9.950E+09	69.730	9092	C6H14O4	triethylene glycol	112-27-6	1.220E+10	84.860
7881	C6H10O3	ethylacetoacetate	141-97-9	1.074E+10	74.700	9100	C6H14O6	sorbitol	50-70-4	1.374E+10	95.820
7882	C6H10O3	propionic anhydride	123-62-6	1.074E+10	74.900	9107	C6H14S	hexyl mercaptan	111-31-9	1.120E+10	79.630
7917	C6H10O4	adipic acid	124-04-9	1.150E+10	80.400	9112	C6H14S	dipropyl sulfide	111-47-7	1.092E+10	79.060
7918	C6H10O4	diethyl oxalate	95-92-1	1.134E+10	78.200	9113	C6H14S	diisopropyl sulfide	625-80-9	1.092E+10	79.040
7919	C6H10O4	ethylene glycol diacetate	111-55-7	1.134E+10	78.200	9114	C6H14S	methyl pentyl sulfide	1741-83-9	1.094E+10	79.060
7920	C6H10O4	ethylidene diacetate	542-10-9	1.133E+10	78.190	9115	C6H14S	ethyl butyl sulfide	638-46-0	1.094E+10	79.060
7953.1	C6H10O5	dilactic acid	19201-34-4	1.210E+10	84.080	9130	C6H14S2	dipropyl disulfide	629-19-6	1.224E+10	90.960
8088	C6H11N	hexanenitrile	628-73-9	9.710E+09	69.290	9173	C6H15N	hexylamine	111-26-2	1.061E+10	75.360
8101	C6H11NO	epsilon-caprolactam	105-60-2	9.340E+09	70.930	9202	C6H15N	di-propylamine	142-84-7	1.063E+10	76.340
8102	C6H11NO	cyclohexanone oxime	100-64-1	9.808E+09	69.400	9203	C6H15N	diisopropylamine	108-18-9	1.061E+10	76.320
8214	C6H12	methylcyclopentane	96-37-7	8.090E+09	60.170	9212	C6H15N	triethylamine	121-44-8	1.064E+10	76.030
8215	C6H12	cyclohexane	110-82-7	8.100E+09	61.400	9213	C6H15NO	6-aminohexanol	4048-33-3	1.130E+10	79.960
8216	C6H12	1-hexene	592-41-6	9.110E+09	64.770	9230	C6H15NO2	diisopropanolamine	110-97-4	1.199E+10	85.520
8218	C6H12	cis-2-hexene	7688-21-3	9.100E+09	64.740	9239	C6H15NO3	triethanolamine	102-71-6	1.271E+10	89.830
8219	C6H12	trans-2-hexene	4050-45-7	9.100E+09	64.740	9247	C6H15N3	N-aminoethyl piperazine	140-31-8	1.106E+10	84.330
8221	C6H12	cis-3-hexene	7642-09-3	9.100E+09	64.740	9268	C6H15O4P	triethyl phosphate	78-40-0	1.350E+10	97.500
8222	C6H12	trans-3-hexene	13269-52-8	9.100E+09	64.740	9292	C6H16N2	hexamethylenediamine	124-09-4	1.580E+10	82.460
8223	C6H12	2-methyl-1-pentene	763-29-1	9.410E+09	64.750	9356	C6H18N3OP	hexamethyl phosphoramide	680-31-9	1.351E+10	97.400
8224	C6H12	3-methyl-1-pentene	760-20-3	9.100E+09	64.760	9359	C6H18N4	triethylene tetramine	112-24-3	1.356E+10	98.620
8225	C6H12	4-methyl-1-pentene	691-37-2	9.100E+09	64.760	9362	C6H18OSi2	hexamethyldisiloxane	107-46-0	1.417E+10	105.700
8227	C6H12	4-methyl-cis-2-pentene	691-38-3	9.090E+09	64.730	9366	C6H18O3Si3	hexamethylcyclotrisiloxane	541-05-9	1.535E+10	123.500
8228	C6H12	4-methyl-trans-2-pentene	674-76-0	9.090E+09	64.730	9378	C6H19NSi2	hexamethyldisilazane	999-97-3	1.475E+10	110.730
8229	C6H12	2-methyl-2-pentene	625-27-4	9.400E+09	64.720	9508	C7H3ClF3NO2	4-chloro-3-nitrobenzotrifluoride	121-17-5	1.144E+10	88.530

Table 15 Van Der Waals Area and Volume - Organic Compounds

Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)						Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)					
ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol	ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol
9519	C7H3Cl2F3	2,4-dichlorobenzotrifluoride	320-60-5	1.190E+10	84.540	11834	C7H14O	5-methyl-2-hexanone	110-12-3	1.123E+10	79.950
9527	C7H3Cl2NO	3,4-dichlorophenyl isocyanate	102-36-3	1.150E+10	80.320	11843	C7H14O	2,4-dimethyl-3-pentanone	565-80-0	1.122E+10	79.940
9684	C7H4ClF3	p-chlorobenzotrifluoride	98-56-6	9.680E+09	75.050	11844	C7H14O	1-methylcyclohexanol	590-67-0	1.012E+10	76.190
9736	C7H4Cl2O	m-chlorobenzoyl chloride	618-46-2	9.630E+09	77.040	11845	C7H14O	cis-2-methylcyclohexanol	7443-70-1	1.012E+10	76.190
9799	C7H4F3NO2	3-nitrobenzotrifluoride	98-46-4	1.060E+10	81.450	11846	C7H14O	trans-2-methylcyclohexanol	7443-52-9	1.012E+10	76.190
9927	C7H5ClO	benzoyl chloride	98-88-4	9.010E+09	68.630	11847	C7H14O	cis-3-methylcyclohexanol	5454-79-5	1.012E+10	76.190
9932	C7H5ClO2	o-chlorobenzoic acid	118-91-2	9.080E+09	68.500	11848	C7H14O	trans-3-methylcyclohexanol	7443-55-2	1.012E+10	76.190
9967	C7H5Cl3	benzotrichloride	98-07-7	1.079E+10	85.890	11849	C7H14O	cis-4-methylcyclohexanol	7731-28-4	1.012E+10	76.190
10003	C7H5F3	benzotrifluoride	98-08-8	8.780E+09	67.170	11850	C7H14O	trans-4-methylcyclohexanol	7731-29-5	1.012E+10	76.190
10045	C7H5N	benzonitrile	100-47-0	7.520E+09	60.540	11884	C7H14O2	heptanoic acid	111-14-8	1.193E+10	84.340
10049	C7H5NO	phenyl isocyanate	103-71-9	8.821E+09	61.940	11892	C7H14O2	pentyl acetate	628-63-7	1.184E+10	83.460
10118	C7H5N3O6	2,4,6-trinitrotoluene	118-96-7	1.217E+10	102.350	11895	C7H14O2	isopentyl acetate	123-92-2	1.178E+10	83.450
10252	C7H6Cl2	benzyl dichloride	98-87-3	9.510E+09	77.100	11901	C7H14O2	butyl propanoate	590-01-2	1.184E+10	83.460
10253	C7H6Cl2	2,4-dichlorotoluene	95-73-8	1.081E+10	78.110	11905	C7H14O2	propyl butanoate	105-66-8	1.184E+10	83.660
10363	C7H6N2O4	2,4-dinitrotoluene	121-14-2	1.112E+10	88.070	11909	C7H14O2	ethyl isovalerate	108-64-5	1.183E+10	83.450
10364	C7H6N2O4	2,5-dinitrotoluene	619-15-8	1.112E+10	88.070	11927.1	C7H14O2	allyl-tert-butylperoxide	39972-78-6	1.140E+10	86.500
10365	C7H6N2O4	2,6-dinitrotoluene	606-20-2	1.112E+10	88.070	11927.2	C7H14O2	neoheptanoic acid	1185-39-3	1.212E+10	84.540
10366	C7H6N2O4	3,4-dinitrotoluene	610-39-9	1.112E+10	88.070	11931	C7H14O3	ethyl-3-ethoxypropionate	763-69-9	1.244E+10	87.160
10367	C7H6N2O4	3,5-dinitrotoluene	618-85-9	1.112E+10	88.070	11934.1	C7H14O3	propylene glycol ethyl ether acetate	54839-24-6	1.243E+10	87.150
10404	C7H6O	benzaldehyde	100-52-7	7.700E+09	60.980	11982	C7H15Br	1-bromoheptane	629-04-9	1.230E+10	89.450
10408	C7H6O2	benzoic acid	65-85-0	9.274E+09	65.370	12024	C7H15N	N-methylcyclohexylamine	100-60-7	1.121E+10	78.550
10409	C7H6O2	p-hydroxybenzaldehyde	123-08-0	8.430E+09	66.500	12112	C7H16	heptane	142-82-5	1.099E+10	78.490
10410	C7H6O2	salicylaldehyde	90-02-8	8.670E+09	64.900	12113	C7H16	2-methylhexane	591-76-4	1.098E+10	78.480
10420	C7H6O3	salicylic acid	69-72-7	1.079E+10	75.820	12114	C7H16	3-methylhexane	589-34-4	1.098E+10	78.480
10462	C7H7Br	p-bromotoluene	106-38-7	9.740E+09	71.970	12115	C7H16	3-ethylpentane	617-78-7	1.098E+10	78.480
10492	C7H7Cl	benzyl chloride	100-44-7	8.450E+09	67.690	12116	C7H16	2,2-dimethylpentane	590-35-2	1.118E+10	78.470
10493	C7H7Cl	o-chlorotoluene	95-49-8	8.530E+09	68.990	12117	C7H16	2,3-dimethylpentane	565-59-3	1.097E+10	78.470
10494	C7H7Cl	p-chlorotoluene	106-43-4	8.530E+09	68.990	12118	C7H16	2,4-dimethylpentane	108-08-7	1.097E+10	78.470
10555	C7H7F	p-fluorotoluene	352-32-9	7.830E+09	63.090	12119	C7H16	3,3-dimethylpentane	562-49-2	1.118E+10	78.470
10611	C7H7NO	formanilide	103-70-8	9.370E+09	70.580	12120	C7H16	2,2,3-trimethylbutane	464-06-2	1.117E+10	78.460
10626	C7H7NO2	m-nitrotoluene	99-08-1	9.180E+09	72.990	12164	C7H16O	1-heptanol	111-70-6	1.168E+10	83.090
10627	C7H7NO2	o-nitrotoluene	88-72-2	9.180E+09	72.990	12165	C7H16O	2-heptanol	543-49-7	1.167E+10	83.080
10628	C7H7NO2	p-nitrotoluene	99-99-0	9.180E+09	72.990	12171	C7H16O	5-methyl-1-hexanol	627-98-5	1.167E+10	83.080
10660	C7H7NO3	o-nitroanisole	91-23-6	9.810E+09	76.990	12211	C7H16O	isopropyl-tert-butyl-ether	17348-59-3	1.167E+10	83.080
10724	C7H8	1,3,5-cycloheptatriene	544-25-2	7.000E+09	56.420	12212.1	C7H16O	isopropyl isobutyl ether	78448-33-6	1.157E+10	82.170
10725	C7H8	toluene	108-88-3	7.420E+09	59.510	12275.1	C7H16O2	propylene glycol 2-tert-butyl ether	94023-15-1	1.246E+10	86.760
10850	C7H8O	anisole	100-66-3	7.930E+09	62.410	12275.2	C7H16O2	diethylene glycol monopropyl ether	6881-94-3	1.288E+10	90.490
10851	C7H8O	benzyl alcohol	100-51-6	8.110E+09	64.110	12300	C7H16S	heptyl mercaptan	1639-09-4	1.254E+10	89.860
10852	C7H8O	m-cresol	108-39-4	8.180E+09	65.030	12302	C7H16S	methyl hexyl sulfide	20291-60-5	1.229E+10	89.290
10853	C7H8O	o-cresol	95-48-7	8.180E+09	65.030	12303	C7H16S	ethyl pentyl sulfide	26158-99-6	1.229E+10	89.290
10854	C7H8O	p-cresol	106-44-5	8.180E+09	65.030	12304	C7H16S	propyl butyl sulfide	1613-46-3	1.229E+10	89.290
10866	C7H8O2	guaiacol	90-05-1	8.780E+09	85.350	12315	C7H17N	heptylamine	111-68-2	1.196E+10	85.590
10867	C7H8O2	p-methoxyphenol	150-76-5	8.000E+09	63.400	12520	C8H4Cl2O2	isophthaloyl chloride	99-63-8	1.140E+10	89.960
10953	C7H9N	benzylamine	100-46-9	8.400E+09	66.600	12594	C8H4O3	phthalic anhydride	85-44-9	8.220E+09	68.820
10954	C7H9N	N-methylaniline	100-61-8	8.320E+09	66.790	12713	C8H6	ethynylbenzene	536-74-3	9.720E+09	72.280
10955	C7H9N	m-toluidine	108-44-1	8.460E+09	67.530	12934	C8H6O4	isophthalic acid	121-91-5	1.072E+10	82.800
10956	C7H9N	o-toluidine	95-53-4	8.460E+09	67.530	12935	C8H6O4	phthalic acid	88-99-3	1.072E+10	82.800
10957	C7H9N	p-toluidine	106-49-0	8.460E+09	67.530	12936	C8H6O4	terephthalic acid	100-21-0	1.062E+10	82.800
10961	C7H9N	2,6-dimethylpyridine	108-48-5	8.860E+09	69.100	12947	C8H6S	benzothiophene	95-15-8	7.720E+09	68.640
11047	C7H10	2-norbornene	498-66-8	6.780E+09	60.050	13107	C8H7N	indole	120-72-9	7.410E+09	65.920
11079	C7H10N2	m-toluenediamine	95-80-7	9.020E+09	68.410	13237	C8H8	styrene	100-42-5	8.270E+09	66.250
11275	C7H11NO	cyclohexyl isocyanate	3173-53-3	8.580E+09	72.820	13238	C8H8	1,3,5,7-cyclooctatetraene	629-20-9	8.000E+09	64.480
11340	C7H12	1-heptyne	628-71-7	1.101E+10	77.630	13391	C8H8O	acetophenone	98-86-2	8.930E+09	70.410
11450	C7H12O2	butyl acrylate	141-32-2	1.131E+10	80.170	13392	C8H8O	p-tolualdehyde	104-87-0	9.000E+09	71.330
11450.1	C7H12O2	sec-butyl acrylate	2998-08-5	1.120E+10	80.700	13412	C8H8O2	methyl benzoate	93-58-3	9.530E+09	73.910
11451	C7H12O2	isobutyl acrylate	106-63-8	1.080E+10	78.300	13413	C8H8O2	o-toluic acid	118-90-1	9.690E+09	75.710
11452	C7H12O2	propyl methacrylate	2210-28-8	1.161E+10	79.950	13414	C8H8O2	p-toluic acid	99-94-5	9.690E+09	75.710
11530	C7H12O4	diethyl malonate	105-53-3	1.269E+10	88.430	13445	C8H8O3	methyl salicylate	119-36-8	1.020E+10	78.630
11696	C7H14	ethylcyclopentane	1640-89-7	9.440E+09	70.400	13446	C8H8O3	vanillin	121-33-5	1.045E+10	81.350
11697	C7H14	1,1-dimethylcyclopentane	1638-26-2	9.070E+09	70.450	13671	C8H9NO	acetanilide	103-84-4	1.004E+10	79.290
11699	C7H14	cis-1,2-dimethylcyclopentane	1192-18-3	9.430E+09	71.590	13789	C8H10	ethylbenzene	100-41-4	8.800E+09	69.740
11700	C7H14	trans-1,2-dimethylcyclopentane	822-50-4	9.430E+09	71.590	13790	C8H10	o-xylene	95-47-6	8.840E+09	70.660
11702	C7H14	cis-1,3-dimethylcyclopentane	2532-58-3	8.860E+09	704.500	13791	C8H10	m-xylene	108-38-3	8.840E+09	70.660
11703	C7H14	trans-1,3-dimethylcyclopentane	1759-58-6	8.860E+09	70.450	13792	C8H10	p-xylene	106-42-3	8.840E+09	70.660
11704	C7H14	methylcyclohexane	108-87-2	8.870E+09	70.460	13912	C8H10O	phenetole	103-73-1	9.280E+09	72.640
11705	C7H14	cycloheptane	291-64-5	9.450E+09	71.610	13913	C8H10O	2-phenylethanol	60-12-8	9.370E+09	73.540
11706	C7H14	1-heptene	592-76-7	1.046E+10	75.000	13919	C8H10O	m-ethylphenol	620-17-7	9.430E+09	74.460
11708	C7H14	cis-2-heptene	6443-92-1	1.045E+10	74.970	13920	C8H10O	p-ethylphenol	123-07-9	9.430E+09	74.460
11709	C7H14	trans-2-heptene	14686-13-6	1.045E+10	74.970	13921	C8H10O	2,3-xylenol	526-75-0	9.330E+09	73.780
11712	C7H14	cis-3-heptene	7642-10-6	1.045E+10	74.970	13922	C8H10O	2,4-xylenol	105-67-9	9.330E+09	73.780
11713	C7H14	trans-3-heptene	14686-14-7	1.045E+10	74.970	13923	C8H10O	2,5-xylenol	95-87-4	9.330E+09	73.780
11714	C7H14	2-methyl-1-hexene	6094-02-6	1.076E+10	74.980	13924	C8H10O	2,6-xylenol	576-26-1	9.330E+09	73.780
11715	C7H14	3-methyl-1-hexene	3404-61-3	1.045E+10	74.990	13925	C8H10O	3,4-xylenol	95-65-8	9.330E+09	73.780
11716	C7H14	4-methyl-1-hexene	3769-23-1	1.045E+10	74.990	13926	C8H10O	3,5-xylenol	108-68-9	9.330E+09	73.780
11729	C7H14	2-ethyl-1-pentene	3404-71-5	1.076E+10	74.980	13985.1	C8H10O2	ethylbenzene hydroperoxide	3071-32-7	1.008E+10	78.030
11730	C7H14	3-ethyl-1-pentene	4038-04-4	1.045E+10	74.990	14082	C8H11N	N,N-dimethylaniline	121-69-7	9.680E+09	76.710
11744	C7H14	2,3,3-trimethyl-1-butene	594-56-9	1.095E+10	74.960	14083	C8H11N	o-ethylaniline	578-54-1	9.810E+09	77.760
11827	C7H14O	1-heptanal	111-71-7	1.124E+10	80.000	14096	C8H11N	2,4,6-trimethylpyridine	108-75-8	1.107E+10	78.950
11828.1	C7H14O	2-methylhexanal	925-54-2	1.123E+10	79.950	14124	C8H11NO	p-phenetidine	156-43-4	1.041E+10	81.460
11829	C7H14O	2-heptanone	110-43-0	1.124E+10	79.960	14228	C8H12	1,5-cyclooctadiene	111-78-4	9.720E+09	74.800

Table 15 Van Der Waals Area and Volume - Organic Compounds

Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)						Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)					
ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol	ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol
14230.1	C8H12	methylnorbornene	694-92-8	7.860E+09	69.120	16010	C9H7N	isoquinoline	119-65-3	7.650E+09	71.100
14231	C8H12	vinylcyclohexene	100-40-3	9.720E+09	74.820	16011	C9H7N	quinoline	91-22-5	7.640E+09	71.100
14379	C8H12O4	1,4-cyclohexanedicarboxylic acid	619-82-9	1.209E+10	92.820	16018	C9H7NO	8-hydroxyquinoline	148-24-3	1.066E+10	75.820
14380	C8H12O4	diethyl maleate	141-05-9	1.350E+10	95.140	16090	C9H8	indene	95-13-6	7.930E+09	68.890
14413.1	C8H12S	3-ethyl-2,5-dimethylthiophene	55735-23-4	1.119E+10	86.960	16185	C9H8O	2-methylbenzofuran	4265-25-2	8.830E+09	72.570
14599	C8H14O2	butyl methacrylate	97-88-1	1.296E+10	90.180	16246.1	C9H8S	2-methyl benzothiophene	1195-14-8	1.010E+10	81.200
14654.1	C8H14O2	2-oxolan-2-yloxolane	106538-38-9	1.087E+10	85.020	16508	C9H10	indane	496-11-7	7.900E+09	71.270
14659	C8H14O3	butyric anhydride	106-31-0	1.344E+10	95.360	16509	C9H10	cis-1-propenylbenzene	766-90-5	1.055E+10	80.790
14688	C8H14O4	diethyl succinate	123-25-1	1.404E+10	98.200	16510	C9H10	trans-1-propenylbenzene	873-66-5	1.055E+10	80.790
14861	C8H16	propylcyclopentane	2040-96-2	1.078E+10	80.620	16512	C9H10	alpha-methylstyrene	98-83-9	9.920E+09	76.460
14863	C8H16	1-methyl-1-ethylcyclopentane	16747-50-5	1.099E+10	81.820	16513	C9H10	m-methylstyrene	100-80-1	9.660E+09	77.400
14877	C8H16	ethylcyclohexane	1678-91-7	1.022E+10	80.690	16514	C9H10	o-methylstyrene	611-15-4	9.660E+09	77.400
14878	C8H16	1,1-dimethylcyclohexane	590-66-9	1.099E+10	81.820	16515	C9H10	p-methylstyrene	622-97-9	9.660E+09	77.400
14880	C8H16	cis-1,2-dimethylcyclohexane	2207-01-4	1.078E+10	81.820	16676	C9H10O2	ethyl benzoate	93-89-0	1.088E+10	84.140
14881	C8H16	trans-1,2-dimethylcyclohexane	6876-23-9	1.078E+10	81.820	16680	C9H10O2	benzyl acetate	140-11-4	1.088E+10	84.150
14883	C8H16	cis-1,3-dimethylcyclohexane	638-04-0	1.078E+10	81.820	16707.1	C9H10O2	phenyl ethyl formate	7775-38-4	1.099E+10	85.130
14884	C8H16	trans-1,3-dimethylcyclohexane	2207-03-6	1.078E+10	81.820	16711	C9H10O3	ethyl vanillin	121-32-4	1.023E+10	85.480
14886	C8H16	cis-1,4-dimethylcyclohexane	624-29-3	1.078E+10	81.820	16905	C9H11NO	p-dimethylaminobenzaldehyde	100-10-7	1.144E+10	90.130
14887	C8H16	trans-1,4-dimethylcyclohexane	2207-04-7	1.078E+10	81.820	17004	C9H12	cumene	98-82-8	1.014E+10	79.960
14888	C8H16	cyclooctane	292-64-8	1.080E+10	75.760	17005	C9H12	m-ethyltoluene	620-14-4	1.019E+10	80.890
14890	C8H16	1-octene	111-66-0	1.181E+10	85.230	17006	C9H12	o-ethyltoluene	611-14-3	1.019E+10	80.890
14893	C8H16	trans-2-octene	13389-42-9	1.180E+10	85.200	17007	C9H12	p-ethyltoluene	622-96-8	1.019E+10	80.890
14895	C8H16	trans-3-octene	14919-01-8	1.180E+10	85.200	17008	C9H12	1,2,3-trimethylbenzene	526-73-8	1.026E+10	81.810
14898	C8H16	trans-4-octene	14850-23-8	1.180E+10	85.200	17009	C9H12	1,2,4-trimethylbenzene	95-63-6	1.026E+10	81.810
14929	C8H16	2-ethyl-1-hexene	1632-16-2	1.211E+10	85.210	17011	C9H12	mesitylene	108-67-8	1.026E+10	81.830
14979	C8H16	2,4,4-trimethyl-1-pentene	107-39-1	1.230E+10	85.190	17012	C9H12	propylbenzene	103-65-1	1.012E+10	79.970
14986	C8H16	2,4,4-trimethyl-2-pentene	107-40-4	1.229E+10	85.160	17077	C9H12O	benzyl ethyl ether	539-30-0	1.073E+10	83.670
15062	C8H16O	2-ethylhexanal	123-05-7	1.258E+10	90.180	17090	C9H12O	2-phenyl-2-propanol	617-94-7	1.103E+10	84.550
15063	C8H16O	1-octanal	124-13-0	1.259E+10	90.190	17138	C9H12O2	cumene hydroperoxide	80-15-9	1.162E+10	88.250
15066	C8H16O	2-octanone	111-13-7	1.259E+10	90.190	17395.1	C9H14	ethylnorbene	15403-89-1	8.900E+09	79.360
15156	C8H16O2	octanoic acid	124-07-2	1.328E+10	94.790	17395.2	C9H14	1-methyl-4-vinylcyclohexene	17699-86-4	1.111E+10	83.340
15160	C8H16O2	hexyl acetate	142-92-7	1.319E+10	93.690	17395.3	C9H14	propenyl cyclohexene	13511-13-2	1.081E+10	83.900
15175	C8H16O2	butyl butanoate	109-21-7	1.319E+10	93.890	17436	C9H14O	isophorone	78-59-1	1.235E+10	89.980
15177	C8H16O2	isobutyl isobutyrate	97-85-8	1.317E+10	93.670	17513	C9H14O6	glyceryl triacetate	102-76-1	1.620E+10	114.000
15232	C8H16O4	diethylene glycol ethyl ether acetate	112-15-2	1.439E+10	101.090	17518.1	C9H14O7	trilatic acid	78024-33-6	1.699E+09	119.530
15354	C8H18	octane	111-65-9	1.234E+10	88.720	17593	C9H16	1-nonyne	3452-09-3	1.304E+10	95.070
15355	C8H18	2-methylheptane	592-27-8	1.233E+10	88.710	17755	C9H16O4	azelaic acid	123-99-9	1.557E+10	111.060
15356	C8H18	3-methylheptane	589-81-1	1.233E+10	88.710	17859	C9H18	butylcyclopentane	2040-95-1	1.213E+10	90.850
15357	C8H18	4-methylheptane	589-53-7	1.233E+10	88.700	17916	C9H18	propylcyclohexane	1678-92-8	1.157E+10	90.920
15358	C8H18	3-methyl-3-ethylpentane	1067-08-9	1.253E+10	88.700	17917	C9H18	isopropylcyclohexane	696-29-7	1.156E+10	90.910
15359	C8H18	3-ethylhexane	619-99-8	1.233E+10	88.710	17938	C9H18	cis,cis-1,3,5-trimethylcyclohexane	1795-27-3	1.311E+10	97.800
15360	C8H18	3-ethyl-2-methylpentane	609-26-7	1.232E+10	88.700	17939	C9H18	cis,trans-1,3,5-trimethylcyclohexane	1795-26-2	1.311E+10	97.800
15361	C8H18	2,2-dimethylhexane	590-73-8	1.253E+10	88.700	17942	C9H18	1-nonene	124-11-8	1.316E+10	95.460
15362	C8H18	2,3-dimethylhexane	584-94-1	1.232E+10	88.700	17948.1	C9H18	7-methyl-1-octene	13151-06-9	1.315E+10	95.450
15363	C8H18	2,4-dimethylhexane	589-43-5	1.232E+10	88.700	17997	C9H18O	1-nonanal	124-19-6	1.394E+10	100.420
15364	C8H18	2,5-dimethylhexane	592-13-2	1.232E+10	88.700	17998	C9H18O	diisobutyl ketone	108-83-8	1.392E+10	100.400
15365	C8H18	3,3-dimethylhexane	563-16-6	1.253E+10	88.700	18052	C9H18O2	nonanoic acid	112-05-0	1.463E+10	104.800
15366	C8H18	3,4-dimethylhexane	583-48-2	1.232E+10	88.700	18058	C9H18O2	octyl formate	112-32-3	1.454E+10	104.120
15367	C8H18	2,2,3-trimethylpentane	564-02-3	1.252E+10	88.690	18071	C9H18O2	butyl valerate	591-68-4	1.454E+10	103.920
15368	C8H18	2,2,4-trimethylpentane	540-84-1	1.252E+10	88.690	18099.1	C9H18O3	triacetone alcohol	3682-91-5	1.570E+10	109.600
15369	C8H18	2,3,3-trimethylpentane	560-21-4	1.252E+10	88.690	18176	C9H20	nonane	111-84-2	1.369E+10	98.950
15370	C8H18	2,3,4-trimethylpentane	565-75-3	1.231E+10	88.690	18177	C9H20	2-methyloctane	3221-61-2	1.368E+10	98.940
15371	C8H18	2,2,3,3-tetramethylbutane	594-82-1	1.231E+10	88.690	18178	C9H20	3-methyloctane	2216-33-3	1.368E+10	98.940
15430	C8H18O	1-octanol	111-87-5	1.303E+10	93.320	18179	C9H20	4-methyloctane	2216-34-4	1.368E+10	98.940
15431	C8H18O	2-octanol	123-96-6	1.302E+10	93.310	18180	C9H20	3-ethylheptane	15869-80-4	1.368E+10	98.940
15454	C8H18O	2-ethyl-1-hexanol	104-76-7	1.302E+10	93.310	18181	C9H20	4-ethylheptane	2216-32-2	1.368E+10	98.940
15527	C8H18O	dibutyl ether	142-96-1	1.288E+10	91.920	18182	C9H20	2,2-dimethylheptane	1071-26-7	1.388E+10	98.930
15528	C8H18O	di-sec-butyl ether	6863-58-7	1.292E+10	92.400	18183	C9H20	2,3-dimethylheptane	3074-71-3	1.388E+10	98.930
15529	C8H18O	di-tert-butyl ether	6163-66-2	1.332E+10	92.380	18184	C9H20	2,4-dimethylheptane	2213-23-2	1.388E+10	98.930
15556	C8H18O2	di-t-butyl peroxide	110-05-4	1.392E+10	96.080	18185	C9H20	2,5-dimethylheptane	2216-30-0	1.388E+10	98.930
15571	C8H18O2S	dibutyl sulfone	598-04-9	1.494E+10	109.020	18186	C9H20	2,6-dimethylheptane	1072-05-5	1.367E+10	98.930
15578	C8H18O3	diethylene glycol diethyl ether	112-36-7	1.414E+10	99.820	18187	C9H20	3,4-dimethylheptane	922-28-1	1.388E+10	98.930
15579	C8H18O3	diethylene glycol monobutyl ether	112-34-5	1.420E+10	101.000	18188	C9H20	3,5-dimethylheptane	926-82-9	1.388E+10	98.930
15587.1	C8H18O3	dipropylene glycol monoethyl ether	30025-38-8	1.382E+10	102.200	18189	C9H20	4,4-dimethylheptane	1068-19-5	1.388E+10	98.930
15591	C8H18O4	triethylene glycol dimethyl ether	112-49-2	1.474E+10	103.520	18190	C9H20	3-ethyl-2-methylhexane	16789-46-1	1.388E+10	98.930
15598	C8H18O5	tetraethylene glycol	112-60-7	1.552E+10	109.020	18191	C9H20	4-ethyl-2-methylhexane	3074-75-7	1.388E+10	98.930
15602	C8H18S	octyl mercaptan	111-88-6	1.390E+10	100.090	18192	C9H20	3-ethyl-3-methylhexane	3074-76-8	1.388E+10	98.930
15604	C8H18S	tert-octyl mercaptan	141-59-3	1.386E+10	100.050	18193	C9H20	3-ethyl-4-methylhexane	3074-77-9	1.388E+10	98.930
15606	C8H18S	dibutyl sulfide	544-40-1	1.364E+10	99.520	18194	C9H20	2,2,3-trimethylhexane	16747-25-4	1.387E+10	98.920
15607	C8H18S	methyl heptyl sulfide	20291-61-6	1.364E+10	99.520	18195	C9H20	2,2,4-trimethylhexane	16747-26-5	1.387E+10	98.920
15608	C8H18S	ethyl hexyl sulfide	7309-44-6	1.364E+10	99.520	18196	C9H20	2,2,5-trimethylhexane	3522-94-9	1.387E+10	98.920
15609	C8H18S	propyl pentyl sulfide	42841-80-5	1.364E+10	99.520	18197	C9H20	2,3,3-trimethylhexane	16747-28-7	1.387E+10	98.920
15614	C8H18S2	dibutyl disulfide	629-45-8	1.494E+10	111.420	18198	C9H20	2,3,4-trimethylhexane	921-47-1	1.387E+10	98.920
15631	C8H19N	octylamine	111-86-4	1.330E+10	95.800	18199	C9H20	2,3,5-trimethylhexane	1069-53-0	1.387E+10	98.920
15637	C8H19N	dibutylamine	111-92-2	1.333E+10	96.800	18200	C9H20	2,4,4-trimethylhexane	16747-30-1	1.387E+10	98.920
15638	C8H19N	diisobutylamine	110-96-3	1.327E+10	96.780	18201	C9H20	3,3,4-trimethylhexane	16747-31-2	1.387E+10	98.920
15747	C8H23N5	tetraethylenepentamine	112-57-2	2.341E+10	154.680	18202	C9H20	3,3-diethylpentane	1067-20-5	1.388E+10	98.930
15756	C8H24O4Si4	octamethylcyclotetrasiloxane	556-67-2	2.122E+10	166.200	18203	C9H20	2,2-dimethyl-3-ethylpentane	16747-32-3	1.387E+10	98.920
15803	C9H4O5	trimellitic anhydride	552-30-7	1.076E+10	87.640	18204	C9H20	2,3-dimethyl-3-ethylpentane	16747-33-4	1.387E+10	98.920
15903	C9H6N2O2	toluene diisocyanate	584-84-9	9.040E+09	86.670	18205	C9H20	2,4-dimethyl-3-ethylpentane	1068-87-7	1.366E+10	98.920

Table 15 Van Der Waals Area and Volume - Organic Compounds

Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)						Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)					
ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol	ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol
18206	C9H20	2,2,3,3-tetramethylpentane	7154-79-2	1.407E+10	98.910	21135	C10H22	3-methylnonane	5911-04-6	1.503E+10	109.170
18207	C9H20	2,2,3,4-tetramethylpentane	1186-53-4	1.386E+10	98.910	21136	C10H22	4-methylnonane	17301-94-9	1.503E+10	109.170
18208	C9H20	2,2,4,4-tetramethylpentane	1070-87-7	1.407E+10	98.910	21137	C10H22	5-methylnonane	15869-85-9	1.503E+10	109.170
18209	C9H20	2,3,3,4-tetramethylpentane	16747-38-9	1.407E+10	98.910	21138	C10H22	3-ethyloctane	5881-17-4	1.503E+10	109.170
18236	C9H20O	1-nonanol	143-08-8	1.438E+10	103.550	21139	C10H22	4-ethyloctane	15869-86-0	1.503E+10	110.170
18237	C9H20O	2-nonanol	628-99-9	1.437E+10	103.540	21140	C10H22	2,2-dimethyloctane	15869-87-1	1.523E+10	109.160
18288	C9H20O	2,6-dimethyl-4-heptanol	108-82-7	1.435E+10	103.500	21141	C10H22	2,3-dimethyloctane	7146-60-3	1.523E+10	109.160
18365	C9H20S	nonyl mercaptan	1455-21-6	1.520E+10	110.320	21142	C10H22	2,4-dimethyloctane	4032-94-4	1.523E+10	109.160
18367	C9H20S	methyl octyl sulfide	3698-95-1	1.499E+10	109.750	21143	C10H22	2,5-dimethyloctane	15869-89-3	1.523E+10	109.160
18368	C9H20S	ethyl heptyl sulfide	24768-44-3	1.499E+10	109.750	21144	C10H22	2,6-dimethyloctane	2051-30-1	1.523E+10	109.160
18369	C9H20S	propyl hexyl sulfide	24768-43-2	1.499E+10	109.750	21145	C10H22	2,7-dimethyloctane	1072-16-8	1.523E+10	109.160
18370	C9H20S	butyl pentyl sulfide	24768-42-1	1.499E+10	109.750	21146	C10H22	3,3-dimethyloctane	4110-44-5	1.523E+10	109.160
18388	C9H21N	nonylamine	112-20-9	1.466E+10	106.050	21147	C10H22	3,4-dimethyloctane	15869-92-8	1.523E+10	109.160
18393	C9H21N	tripropylamine	102-69-2	1.469E+10	106.720	21148	C10H22	3,5-dimethyloctane	15869-93-9	1.523E+10	109.160
18598	C10H6O8	pyromellitic acid	89-05-4	1.544E+10	117.240	21149	C10H22	3,6-dimethyloctane	15869-94-0	1.523E+10	109.160
18601	C10H7Br	1-bromonaphthalene	90-11-9	9.890E+09	86.570	21150	C10H22	4,4-dimethyloctane	15869-95-1	1.523E+10	109.160
18606	C10H7Cl	1-chloronaphthalene	90-13-1	9.440E+09	82.640	21151	C10H22	4,5-dimethyloctane	15869-96-2	1.523E+10	109.160
18669	C10H8	naphthalene	91-20-3	8.420E+09	74.640	21152	C10H22	4-propylheptane	3178-29-8	1.503E+10	109.170
18670	C10H8	azulene	275-51-4	8.420E+09	74.640	21153	C10H22	4-isopropylheptane	52896-87-4	1.503E+10	109.170
18849	C10H9N	2-methylquinoline	91-63-4	1.151E+10	82.250	21154	C10H22	3-ethyl-2-methylheptane	14676-29-0	1.523E+10	109.160
18958	C10H10	m-divinylbenzene	108-57-6	1.030E+10	82.540	21155	C10H22	4-ethyl-2-methylheptane	52896-88-5	1.523E+10	109.160
18963	C10H10	1-methylindene	767-59-9	9.260E+09	79.110	21156	C10H22	5-ethyl-2-methylheptane	13475-78-0	1.523E+10	109.160
18964	C10H10	2-methylindene	2177-47-1	9.580E+09	79.100	21157	C10H22	3-ethyl-3-methylheptane	17302-01-1	1.523E+10	109.160
19195	C10H10O4	dimethyl phthalate	131-11-3	1.306E+10	99.460	21158	C10H22	4-ethyl-3-methylheptane	52896-89-6	1.523E+10	109.160
19196	C10H10O4	dimethyl terephthalate	120-61-6	1.324E+10	101.060	21159	C10H22	3-ethyl-5-methylheptane	52896-90-9	1.523E+10	109.160
19358	C10H12	1,3-dicyclopentadiene	77-73-6	9.300E+09	81.460	21160	C10H22	3-ethyl-4-methylheptane	52896-91-0	1.523E+10	109.160
19359	C10H12	1,2,3,4-tetrahydronaphthalene	119-64-2	9.120E+09	80.980	21161	C10H22	4-ethyl-4-methylheptane	17302-04-4	1.523E+10	109.160
19484	C10H12O	anethole	104-46-1	1.160E+10	91.050	21162	C10H22	2,2,3-trimethylheptane	52896-92-1	1.522E+10	109.150
19675	C10H12O4	diallyl maleate	999-21-3	1.514E+10	108.620	21163	C10H22	2,2,4-trimethylheptane	14720-74-2	1.522E+10	110.150
19865	C10H14	butylbenzene	104-51-8	1.147E+10	90.200	21164	C10H22	2,2,5-trimethylheptane	20291-95-6	1.522E+10	111.150
19866	C10H14	isobutylbenzene	538-93-2	1.137E+10	89.390	21165	C10H22	2,2,6-trimethylheptane	1190-83-6	1.522E+10	112.150
19867	C10H14	sec-butylbenzene	135-98-8	1.146E+10	90.190	21166	C10H22	2,3,3-trimethylheptane	52896-93-2	1.522E+10	113.150
19868	C10H14	tert-butylbenzene	98-06-6	1.166E+10	90.180	21167	C10H22	2,3,4-trimethylheptane	52896-95-4	1.522E+10	114.150
19870	C10H14	m-cymene	535-77-3	1.153E+10	91.110	21168	C10H22	2,3,5-trimethylheptane	20278-85-7	1.522E+10	115.150
19871	C10H14	o-cymene	527-84-4	1.153E+10	91.110	21169	C10H22	2,3,6-trimethylheptane	4032-93-3	1.522E+10	116.150
19872	C10H14	p-cymene	99-87-6	1.153E+10	91.110	21170	C10H22	2,4,4-trimethylheptane	4032-92-2	1.522E+10	117.150
19878	C10H14	o-diethylbenzene	135-01-3	1.154E+10	91.120	21171	C10H22	2,4,5-trimethylheptane	20278-84-6	1.522E+10	118.150
19879	C10H14	m-diethylbenzene	141-93-5	1.154E+10	91.120	21172	C10H22	2,4,6-trimethylheptane	2613-61-8	1.522E+10	119.150
19880	C10H14	p-diethylbenzene	105-05-5	1.154E+10	91.120	21173	C10H22	2,5,5-trimethylheptane	1189-99-7	1.522E+10	120.150
19881	C10H14	3-ethyl-o-xylene	933-98-2	1.134E+10	89.640	21174	C10H22	3,3,4-trimethylheptane	20278-87-9	1.522E+10	121.150
19882	C10H14	4-ethyl-o-xylene	934-80-5	1.161E+10	92.040	21175	C10H22	3,3,5-trimethylheptane	7154-80-5	1.522E+10	122.150
19883	C10H14	2-ethyl-m-xylene	2870-04-4	1.161E+10	92.040	21176	C10H22	3,4,4-trimethylheptane	20278-88-0	1.522E+10	123.150
19884	C10H14	4-ethyl-m-xylene	874-41-9	1.161E+10	92.040	21177	C10H22	3,4,5-trimethylheptane	20278-89-1	1.522E+10	124.150
19885	C10H14	5-ethyl-m-xylene	934-74-7	1.161E+10	92.040	21178	C10H22	3-isopropyl-2-methylhexane	62016-13-1	1.523E+10	109.160
19886	C10H14	2-ethyl-p-xylene	1758-88-9	1.161E+10	92.040	21179	C10H22	3,3-diethylhexane	17302-02-2	1.523E+10	109.160
19887	C10H14	1,2,3,4-tetramethylbenzene	488-23-3	1.448E+10	103.080	21180	C10H22	3,4-diethylhexane	19398-77-7	1.523E+10	109.160
19888	C10H14	1,2,3,5-tetramethylbenzene	527-53-7	1.168E+10	92.960	21181	C10H22	3-ethyl-2,2-dimethylhexane	20291-91-2	1.522E+10	124.150
19889	C10H14	1,2,4,5-tetramethylbenzene	95-93-2	1.132E+10	89.760	21182	C10H22	4-ethyl-2,2-dimethylhexane	52896-99-8	1.522E+10	124.150
19992	C10H14O	4-tert-butylphenol	98-54-4	1.336E+10	96.280	21183	C10H22	3-ethyl-2,3-dimethylhexane	52897-00-4	1.522E+10	124.150
20089	C10H14O2	p-tert-butylcatechol	98-29-3	1.290E+10	98.800	21184	C10H22	4-ethyl-2,3-dimethylhexane	52897-01-5	1.522E+10	124.150
20195	C10H15N	N,N-dietyhlaniline	91-66-7	1.247E+10	97.980	21185	C10H22	3-ethyl-2,4-dimethylhexane	7220-26-0	1.522E+10	124.150
20196	C10H15N	2,6-diethylaniline	579-66-8	1.260E+10	99.100	21186	C10H22	4-ethyl-2,4-dimethylhexane	52897-03-7	1.522E+10	124.150
20315	C10H16	camphene	79-92-5	1.019E+10	88.450	21187	C10H22	3-ethyl-2,5-dimethylhexane	52897-04-8	1.522E+10	124.150
20316	C10H16	D-limonene	5989-27-5	1.302E+10	95.240	21188	C10H22	4-ethyl-3,3-dimethylhexane	52897-05-9	1.522E+10	124.150
20319	C10H16	alpha-phellandrene	99-83-2	1.213E+10	94.080	21189	C10H22	3-ethyl-3,4-dimethylhexane	52897-06-0	1.522E+10	124.150
20320	C10H16	beta-phellandrene	555-10-2	1.214E+10	94.110	21190	C10H22	2,2,3,3-tetramethylhexane	13475-81-5	1.521E+10	125.140
20321	C10H16	alpha-pinene	80-56-8	1.189E+10	91.840	21191	C10H22	2,2,3,4-tetramethylhexane	52897-08-2	1.521E+10	126.140
20323	C10H16	beta-pinene	127-91-3	1.190E+10	91.870	21192	C10H22	2,2,3,5-tetramethylhexane	52897-09-3	1.521E+10	127.140
20325	C10H16	alpha-terpinene	99-86-5	1.301E+10	95.210	21193	C10H22	2,2,4,4-tetramethylhexane	51750-65-3	1.521E+10	128.140
20326	C10H16	gamma-terpinene	99-85-4	1.301E+10	95.210	21194	C10H22	2,2,4,5-tetramethylhexane	16747-42-5	1.521E+10	129.140
20327	C10H16	terpinolene	586-62-9	1.293E+10	95.320	21195	C10H22	2,2,5,5-tetramethylhexane	1071-81-4	1.521E+10	130.140
20423	C10H16O	camphor	76-22-2	1.258E+10	96.860	21196	C10H22	2,3,3,4-tetramethylhexane	52897-10-6	1.521E+10	131.140
20593	C10H18	1-decyne	764-93-2	1.439E+10	105.300	21197	C10H22	2,3,3,5-tetramethylhexane	52897-11-7	1.521E+10	132.140
20601	C10H18	cis-decahydronaphthalene	493-01-6	1.137E+10	94.260	21198	C10H22	2,3,4,4-tetramethylhexane	52897-12-8	1.521E+10	133.140
20602	C10H18	trans-decahydronaphthalene	493-02-7	1.137E+10	94.260	21199	C10H22	2,3,4,5-tetramethylhexane	52897-15-1	1.521E+10	134.140
20820	C10H18O4	sebacic acid	111-20-6	1.692E+10	120.880	21200	C10H22	3,3,4,4-tetramethylhexane	5171-84-6	1.521E+10	135.140
20922	C10H20	pentylcyclopentane	3741-00-2	1.348E+10	101.080	21201	C10H22	2,4-dimethyl-3-isopropylpentane	13475-79-1	1.522E+10	124.150
20923	C10H20	butylcyclohexane	1678-93-9	1.292E+10	101.150	21202	C10H22	3,3-diethyl-2-methylpentane	52897-16-2	1.522E+10	124.150
20943	C10H20	1-decene	872-05-9	1.451E+10	105.690	21203	C10H22	3-ethyl-2,2,3-trimethylpentane	52897-17-3	1.521E+10	135.140
20947.1	C10H20	cis-2-decene	20348-51-0	1.450E+10	105.560	21204	C10H22	3-ethyl-2,2,4-trimethylpentane	52897-18-4	1.521E+10	135.140
20947.2	C10H20	trans-2-decene	20063-97-2	1.450E+10	105.560	21205	C10H22	3-ethyl-2,3,4-trimethylpentane	52897-19-5	1.521E+10	135.140
20947.3	C10H20	8-methyl-1-nonene	26741-24-2	1.450E+10	105.680	21206	C10H22	2,2,3,3,4-pentamethylpentane	16747-44-7	1.520E+10	136.130
20947.4	C10H20	1,1-diethylcyclohexane	78-01-3	1.312E+10	101.140	21207	C10H22	2,2,3,4,4-pentamethylpentane	16747-45-8	1.520E+10	137.130
20947.5	C10H20	1,2,3,4-tetramethylcyclohexane	3726-45-2	1.289E+10	101.120	21224	C10H22O	1-decanol	112-30-1	1.573E+10	113.780
20992	C10H20O	decanal	112-31-2	1.529E+10	110.650	21225	C10H22O	isodecanol	25339-17-7	1.572E+10	113.770
21040	C10H20O2	decanoic acid	334-48-5	1.598E+10	115.250	21335	C10H22O	di-pentyl ether	693-65-2	1.565E+10	112.890
21044	C10H20O2	2-ethylhexyl acetate	103-09-3	1.588E+10	114.140	21380	C10H22O5	tetraethylene glycol dimethyl ether	143-24-8	1.804E+10	127.680
21052	C10H20O2	isopentyl isovalerate	659-70-1	1.587E+10	114.130	21385	C10H22S	decyl mercaptan	143-10-2	1.658E+10	120.550
21133	C10H22	decane	124-18-5	1.504E+10	109.180	21387	C10H22S	dipentyl sulfide	872-10-6	1.634E+10	119.980
21134	C10H22	2-methylnonane	871-83-0	1.503E+10	109.170	21388	C10H22S	methyl nonyl sulfide	59973-07-8	1.634E+10	119.980

Table 15 Van Der Waals Area and Volume - Organic Compounds

Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)						Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)					
ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol	ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol
21389	C10H22S	ethyl octyl sulfide	3698-94-0	1.634E+10	119.980	25285	C12H26O	dihexyl ether	112-58-3	1.834E+10	133.340
21390	C10H22S	propyl heptyl sulfide	24768-46-5	1.634E+10	119.980	25294	C12H26O3	diethylene glycol dibutyl ether	112-73-2	1.954E+10	140.740
21391	C10H22S	butyl hexyl sulfide	16967-04-7	1.634E+10	119.980	25310	C12H26S	1-dodecanethiol	112-55-0	1.928E+10	141.010
21394	C10H22S2	dipentyl disulfide	112-51-6	1.764E+10	131.880	25312	C12H26S	dihexyl sulfide	6294-31-1	1.904E+10	140.440
21400	C10H23N	decylamine	2016-57-1	1.600E+10	116.000	25313	C12H26S	methyl undecyl sulfide	7289-44-3	1.904E+10	140.440
21601	C11H10	1-methylnaphthalene	90-12-0	9.840E+09	85.110	25314	C12H26S	ethyl decyl sulfide	19313-61-2	1.904E+10	140.440
21602	C11H10	2-methylnaphthalene	91-57-6	9.840E+09	85.110	25315	C12H26S	propyl nonyl sulfide	62103-66-6	1.904E+10	140.440
21791.1	C11H12	p-isopropylenylstyrene	16262-48-9	1.213E+10	94.350	25316	C12H26S	butyl octyl sulfide	16900-07-5	1.904E+10	140.440
22113	C11H14O2	butyl benzoate	136-60-7	1.370E+10	105.400	25318	C12H26S2	dihexyl disulfide	10496-15-8	2.034E+10	152.340
22304	C11H16	pentylbenzene	538-68-1	1.285E+10	100.430	25340	C12H27N	dodecylamine	124-22-1	1.870E+10	137.000
22399	C11H16O	p-tert-amylphenol	80-46-6	1.783E+10	131.670	25346	C12H27N	tributylamine	102-82-9	1.874E+10	137.410
22672	C11H20	1-undecyne	2243-98-3	1.678E+10	120.730	25575	C13H10	fluorene	86-73-7	1.019E+10	93.670
22701	C11H20O2	2-ethylhexyl acrylate	103-11-7	1.670E+10	120.880	25623	C13H10O	benzophenone	119-61-9	1.362E+10	106.420
22791	C11H22	hexylcyclopentane	4457-00-5	1.483E+10	111.310	25738	C13H12	diphenylmethane	101-81-5	1.042E+10	93.410
22792	C11H22	pentylcyclohexane	4292-92-6	1.427E+10	111.380	25903	C13H14	1-propylnaphthalene	2765-18-6	1.258E+10	105.580
22795	C11H22	1-undecene	821-95-4	1.586E+10	115.920	25904	C13H14	2-propylnaphthalene	2027-19-2	1.258E+10	105.580
22822	C11H22O	undecanal	112-44-7	1.664E+10	120.880	25915	C13H14	2-methyl-3-ethylnaphthalene	31032-94-7	1.335E+10	109.020
22890	C11H24	undecane	1120-21-4	1.639E+10	119.410	25918	C13H14	2-methyl-6-ethylnaphthalene	7372-86-3	1.335E+10	109.020
23055	C11H24O	1-undecanol	112-42-5	1.708E+10	124.010	25919	C13H14	2-methyl-7-ethylnaphthalene	17059-55-1	1.335E+10	109.020
23081.1	C11H24O4	tripropylene glycol monoethyl ether	75899-69-3	1.990E+10	138.700	26283	C13H20	heptylbenzene	1078-71-3	1.555E+10	120.890
23084	C11H24S	1-undecanethiol	5332-52-5	1.790E+10	130.780	26402	C13H24	1-tridecyne	26186-02-7	1.844E+10	135.990
23086	C11H24S	methyl decyl sulfide	22438-39-7	1.769E+10	130.210	26465	C13H26	octylcyclopentane	1795-20-6	1.753E+10	131.770
23087	C11H24S	ethyl nonyl sulfide	59973-08-9	1.769E+10	130.210	26466	C13H26	heptylcyclohexane	5617-41-4	1.697E+10	131.840
23088	C11H24S	propyl octyl sulfide	3698-93-9	1.769E+10	130.210	26469	C13H26	1-tridecene	2437-56-1	1.856E+10	136.380
23089	C11H24S	butyl heptyl sulfide	40813-84-1	1.769E+10	130.210	26486	C13H26O	1-tridecanal	10486-19-8	1.934E+10	141.340
23335	C12H8O	dibenzofuran	132-64-9	9.380E+09	86.640	26502	C13H26O2	butyl nonanoate	50623-57-9	1.994E+10	144.840
23394	C12H9N	dibenzopyrrole	86-74-8	1.207E+10	95.880	26505	C13H26O2	methyl dodecanoate	111-82-0	1.994E+10	144.840
23437.1	C12H9N3O4	4,4'-dinitrodiphenylamine	1821-27-8	1.529E+10	128.320	26526	C13H28	tridecane	629-50-5	1.909E+10	139.850
23444	C12H10	acenaphthene	83-32-9	9.900E+09	90.980	26535	C13H28O	1-tridecanol	112-70-9	1.978E+10	144.470
23445	C12H10	phenylbenzene (biphenyl)	92-52-4	1.066E+10	91.680	26549	C13H28S	1-tridecanethiol	19484-26-5	2.039E+10	154.680
23519	C12H10O	diphenyl ether	101-84-8	1.126E+10	95.380	26551	C13H28S	methyl dodecyl sulfide	---	2.039E+10	150.670
23607	C12H11N	p-aminodiphenyl	92-67-1	1.164E+10	99.700	26552	C13H28S	ethyl undecyl sulfide	66577-30-8	2.039E+10	150.670
23609	C12H11N	diphenylamine	122-39-4	1.301E+10	102.800	26553	C13H28S	propyl decyl sulfide	66577-31-9	2.039E+10	150.670
23657	C12H11N3	1,3-diphenyltriazene	136-35-6	1.205E+10	108.420	26554	C13H28S	butyl nonyl sulfide	66577-32-0	2.039E+10	150.670
23675	C12H12	1,2-dimethylnaphthalene	573-98-8	1.126E+10	96.260	26654	C14H8O2	anthraquinone	84-65-1	1.204E+10	106.840
23676	C12H12	1,3-dimethylnaphthalene	575-41-7	1.126E+10	96.260	26728	C14H10	anthracene	120-12-7	1.084E+10	99.560
23677	C12H12	1,4-dimethylnaphthalene	571-58-4	1.126E+10	96.260	26729	C14H10	diphenylacetylene	501-65-5	1.238E+10	105.640
23678	C12H12	1,5-dimethylnaphthalene	571-61-9	1.126E+10	96.260	26730	C14H10	phenanthrene	85-01-8	1.084E+10	99.560
23679	C12H12	1,6-dimethylnaphthalene	575-43-9	1.126E+10	96.260	26866	C14H12	cis-stilbene	645-49-8	1.276E+10	108.620
23680	C12H12	1,7-dimethylnaphthalene	575-37-1	1.126E+10	96.260	26867	C14H12	trans-stilbene	103-30-0	1.276E+10	108.620
23682	C12H12	2,3-dimethylnaphthalene	581-40-8	1.126E+10	96.260	26942	C14H12O2	benzyl benzoate	120-51-4	1.397E+10	115.510
23683	C12H12	2,6-dimethylnaphthalene	581-42-0	1.126E+10	96.260	26987.1	C14H12O4	dimethyl-2,6-naphthalenedicarboxylate	840-65-3	1.570E+10	126.670
23684	C12H12	2,7-dimethylnaphthalene	582-16-1	1.126E+10	96.260	27052	C14H14	1,1-diphenylethane	612-00-0	1.311E+10	110.500
23685	C12H12	1-ethylnaphthalene	1127-76-0	1.123E+10	95.350	27053	C14H14	1,2-diphenylethane	103-29-7	1.312E+10	110.540
23686	C12H12	2-ethylnaphthalene	939-27-5	1.123E+10	95.350	27138	C14H14O	dibenzyl ether	103-50-4	1.396E+10	115.840
23718	C12H12N2	p-aminodiphenylamine	101-54-2	1.428E+10	109.880	27267	C14H16	1-butylnaphthalene	1634-09-9	1.393E+10	115.810
23719	C12H12N2	hydrazobenzene	122-66-7	1.400E+10	110.680	27268	C14H16	2-butylnaphthalene	1134-62-9	1.393E+10	115.810
23887	C12H14	1,2,3-trimethylindene	4773-83-5	1.257E+10	99.530	27289.1	C14H16	2,6-diethylnaphthalene	59919-41-4	1.426E+10	116.720
24002	C12H14O4	diethyl phthalate	84-66-2	1.576E+10	119.920	27506.1	C14H18O8	di-1-glyceryl terephthalate	66032-51-76	2.070E+10	168.000
24022.1	C12H14O6	terephthalic acid diethylene glycol ester	959-26-2	1.737E+10	130.720	27566.1	C14H20	diamantane	2292-79-7	9.810E+09	109.920
24111	C12H16	cyclohexylbenzene	827-52-1	1.410E+10	101.840	27644	C14H22	octylbenzene	2189-60-8	1.690E+10	131.120
24139.1	C12H16	4-isobutylstyrene	63444-56-4	1.158E+10	108.080	27645	C14H22	1,2,3,4-tetraethylbenzene	642-32-0	1.988E+10	144.000
24357	C12H18	hexylbenzene	1077-16-3	1.408E+10	109.860	27646	C14H22	1,2,3,5-tetraethylbenzene	38842-05-6	1.988E+10	144.000
24361	C12H18	m-diisopropylbenzene	99-62-7	1.404E+10	101.000	27647	C14H22	1,2,4,5-tetraethylbenzene	635-81-4	1.988E+10	144.000
24362	C12H18	p-diisopropylbenzene	100-18-5	1.404E+10	101.000	27679	C14H22O	p-tert-octylphenol	140-66-9	1.801E+10	125.520
24364	C12H18	1,2,3-triethylbenzene	42205-08-3	1.483E+10	104.460	27847	C14H28	nonylcyclopentane	2882-98-6	1.888E+10	142.000
24365	C12H18	1,2,4-triethylbenzene	877-44-1	1.483E+10	104.460	27848	C14H28	octylcyclohexane	1795-15-9	1.832E+10	142.070
24366	C12H18	1,3,5-triethylbenzene	102-25-0	1.483E+10	104.460	27850	C14H28	1-tetradecene	1120-36-1	1.991E+10	146.610
24378	C12H18	hexamethylbenzene	87-85-4	1.714E+10	114.780	27873	C14H28O2	tetradecanoic acid	544-63-8	2.138E+10	155.950
24378.1	C12H18	p-tert-butyl ethylbenzene	7364-19-4	1.443E+10	111.560	27912	C14H30	tetradecane	629-59-4	2.044E+10	150.100
24378.2	C12H18	1,5,9-cyclododecatriene	706-31-0	1.410E+10	112.200	27922	C14H30O	1-tetradecanol	112-72-1	2.113E+10	154.700
24378.3	C12H18	1,2,3-triethylebenzene	42205-08-3	1.431E+10	112.500	27946	C14H30S	1-tetradecanethiol	2079-95-0	2.174E+10	164.910
24477.1	C12H18O2	m-diisopropylbenzene hydroperoxide	26762-93-6	1.571E+10	119.850	27948	C14H30S	diheptyl sulfide	629-65-2	2.174E+10	160.900
24477.2	C12H18O2	p-diisopropylbenzene hydroperoxide	98-49-7	1.571E+10	119.850	27949	C14H30S	methyl tridecyl sulfide	62155-09-3	2.174E+10	160.900
24594	C12H20O4	dibutyl maleate	105-76-0	1.890E+10	136.060	27950	C14H30S	ethyl dodecyl sulfide	2851-83-4	2.174E+10	160.900
24652	C12H22	bicyclohexyl	92-51-3	1.464E+10	115.860	27951	C14H30S	propyl undecyl sulfide	66826-84-4	2.174E+10	160.900
24653	C12H22	1-dodecyne	765-03-7	1.709E+10	125.760	27952	C14H30S	butyl decyl sulfide	19313-57-6	2.174E+10	160.900
24782.1	C12H22S	dicyclohexyl sulfide	7133-46-2	1.578E+10	126.900	27953	C14H30S2	diheptyl disulfide	10496-16-9	2.304E+10	172.800
24804	C12H23N	dicyclohexylamine	101-83-7	1.642E+10	119.400	27956	C14H31N	tetradecylamine	2016-42-4	2.140E+10	157.200
24818	C12H24	heptylcyclopentane	5617-42-5	1.618E+10	121.540	28029	C15H10N2O2	diphenylmethane-4,4'-diisocyanate	101-68-8	1.790E+10	130.700
24819	C12H24	hexylcyclohexane	4292-75-5	1.562E+10	121.610	28135.1	C15H12	1-phenylindene	1961-96-2	1.178E+10	109.620
24823	C12H24	1-dodecene	112-41-4	1.721E+10	126.150	28429	C15H16O	p-cumylphenol	599-64-4	1.542E+10	126.300
24823.1	C12H24	cis-2-dodecene	7206-26-0	1.720E+10	126.120	28436	C15H16O2	bisphenol a	80-05-7	1.824E+10	134.550
24823.2	C12H24	trans-2-dodecene	7206-13-5	1.720E+10	126.120	28495	C15H18	2-pentylnaphthalene	93-22-1	1.528E+10	124.040
24852	C12H24O	dodecanal	112-54-9	1.799E+10	131.110	28497	C15H18	1-pentylnaphthalene	86-89-5	1.528E+10	124.040
24855.1	C12H24O	isobutyl heptyl ketone	123-18-2	1.700E+10	128.000	28725	C15H24	nonylbenzene	1081-77-2	1.822E+10	141.350
24867	C12H24O2	dodecanoic acid	143-07-7	1.868E+10	135.710	28756	C15H24O	2,6-di-tert-butyl-p-cresol	128-37-0	1.910E+10	145.000
24885.1	C12H24O3	2,2,4-trimethyl-1,3-pentanediol monoisobutyr*	77-68-9	1.858E+10	134.820	28757	C15H24O	nonylphenol	25154-52-3	1.890E+10	146.100
24914	C12H26	dodecane	112-40-3	1.774E+10	129.640	28820	C15H28	1-pentadecyne	765-13-9	2.114E+10	156.450
25277	C12H26O	1-dodecanol	112-53-8	1.843E+10	134.240	28855	C15H30	decylcyclopentane	1795-21-7	2.023E+10	152.230

Table 15 Van Der Waals Area and Volume - Organic Compounds

Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)						Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)					
ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol	ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol
28856	C15H30	nonylcyclohexane	2883-02-5	1.967E+10	152.300	31075	C18H36	dodecylcyclohexane	1795-17-1	2.372E+10	182.990
28859	C15H30	1-pentadecene	13360-61-7	2.126E+10	156.840	31097	C18H36O2	octadecanoic acid	57-11-4	2.678E+10	196.870
28862.1	C15H30	trans-2-pentadecene	74392-36-2	2.080E+10	157.800	31131	C18H38	octadecane	593-45-3	2.584E+10	191.020
28879	C15H30O2	pentadecanoic acid	1002-84-2	2.273E+10	166.180	31140	C18H38O	1-octadecanol	112-92-5	2.653E+10	195.620
28904	C15H32	pentadecane	629-62-9	2.179E+10	160.330	31143	C18H38O	dinonyl ether	2456-27-1	2.644E+10	194.720
28912	C15H32O	1-pentadecanol	629-76-5	2.248E+10	164.930	31149	C18H38S	1-octadecanethiol	2885-00-9	2.714E+10	205.830
28921	C15H32S	1-pentadecanethiol	25276-70-4	2.309E+10	175.140	31152	C18H38S	dinonyl sulfide	929-98-6	2.714E+10	201.820
28923	C15H32S	methyl tetradecyl sulfide	7289-45-4	2.309E+10	171.130	31153	C18H38S	methyl heptadecyl sulfide	---	2.714E+10	201.820
28924	C15H32S	ethyl tridecyl sulfide	66271-81-6	2.309E+10	171.130	31154	C18H38S	ethyl hexadecyl sulfide	66292-31-7	2.714E+10	201.820
28925	C15H32S	propyl dodecyl sulfide	66271-82-7	2.309E+10	171.130	31155	C18H38S	propyl pentadecyl sulfide	66292-32-8	2.714E+10	201.820
28926	C15H32S	butyl undecyl sulfide	66271-83-8	2.309E+10	171.130	31156	C18H38S	butyl tetradecyl sulfide	66292-33-9	2.714E+10	201.820
28984	C16H10	fluoranthene	206-44-0	1.126E+10	109.040	31157	C18H38S2	dinonyl disulfide	4485-77-2	2.844E+10	213.720
28985	C16H10	pyrene	129-00-0	1.126E+10	109.040	31568	C19H26	1-nonylnaphthalene	26438-26-6	2.060E+10	166.150
29024	C16H12	1-phenylnaphthalene	605-02-7	1.296E+10	116.500	31646	C19H32	tridecylbenzene	123-02-4	2.362E+10	182.270
29290.1	C16H16O2	trans-3,5-dimethoxystilbene	21956-56-9	1.680E+10	138.000	31670	C19H36	1-nonadecyne	26186-01-6	2.654E+10	197.370
29359.1	C16H18	4-ethyl-bibenzyl	7439-15-8	1.610E+10	133.520	31675	C19H36O2	methyl oleate	112-62-9	2.750E+10	202.700
29440	C16H20	1-hexylnaphthalene	2876-53-1	1.663E+10	136.270	31695	C19H38	tetradecylcyclopentane	1795-22-8	2.563E+10	193.150
29518	C16H22O4	dibutyl phthalate	84-74-2	2.116E+10	160.840	31696	C19H38	tridecylcyclohexane	6006-33-3	2.507E+10	193.220
29595	C16H26	decylbenzene	104-72-3	1.950E+10	150.800	31698	C19H38	1-nonadecene	18435-45-5	2.666E+10	197.760
29596	C16H26	pentaethylbenzene	605-01-6	2.335E+10	167.900	31708	C19H38O2	nonadecanoic acid	646-30-0	2.813E+10	207.100
29640	C16H30	1-hexadecyne	629-74-3	2.249E+10	166.680	31735	C19H40	nonadecane	629-92-5	2.719E+10	201.250
29704	C16H32	undecylcyclopentane	6785-23-5	2.158E+10	162.460	31742	C19H40O	1-nonadecanol	1454-84-8	2.788E+10	205.850
29705	C16H32	decylcyclohexane	1795-16-0	2.102E+10	162.530	31750	C19H40S	1-nonadecanethiol	62155-07-1	2.849E+10	216.060
29707	C16H32	1-hexadecene	629-73-2	2.261E+10	167.070	31752	C19H40S	methyl octadecyl sulfide	40289-98-3	2.849E+10	212.050
29721	C16H32O2	hexadecanoic acid	57-10-3	2.408E+10	176.410	31753	C19H40S	ethyl heptadecyl sulfide	66359-40-8	2.849E+10	212.050
29754	C16H34	hexadecane	544-76-3	2.314E+10	170.560	31754	C19H40S	propyl hexadecyl sulfide	66359-41-9	2.849E+10	212.050
29766	C16H34O	1-hexadecanol	36653-82-4	2.383E+10	175.160	31755	C19H40S	butyl pentadecyl sulfide	66359-42-0	2.849E+10	212.050
29771	C16H34O	dioctyl ether	629-82-3	2.374E+10	174.260	31976	C20H16	triphenylethylene	58-72-0	1.732E+10	148.550
29789	C16H34S	1-hexadecanethiol	2917-26-2	2.444E+10	185.370	32302	C20H28	1-decylnaphthalene	26438-27-7	2.210E+10	176.400
29791	C16H34S	dioctyl sulfide	2690-08-6	2.444E+10	181.360	32346	C20H30O2	abietic acid	514-10-3	2.393E+10	185.700
29792	C16H34S	methyl pentadecyl sulfide	62155-10-6	2.444E+10	181.360	32358.1	C20H30O2	isopimaric acid	5835-26-7	2.434E+10	188.900
29793	C16H34S	ethyl tetradecyl sulfide	66271-54-3	2.444E+10	181.360	32367	C20H31N	dehydroabietylamine	1446-61-3	2.204E+10	183.740
29794	C16H34S	propyl tridecyl sulfide	66271-55-4	2.444E+10	181.360	32391.1	C20H32O2	isoagatholal	17990-11-3	2.252E+10	195.900
29795	C16H34S	butyl dodecyl sulfide	16900-08-6	2.444E+10	181.360	32399	C20H34	1-phenyltetradecane	1459-10-5	2.567E+10	195.060
29797	C16H34S2	dioctyl disulfide	822-27-5	2.574E+10	193.260	32407.1	C20H34O2	agathadiol	1857-24-5	2.350E+10	197.600
30264	C17H28	undecylbenzene	6742-54-7	2.092E+10	161.740	32436	C20H38	1-eicosyne	765-27-5	2.801E+10	207.990
30284	C17H32	1-heptadecyne	26186-00-5	2.396E+10	177.300	32450.1	C20H38O2	cetyl methacrylate	2495-27-4	2.916E+10	212.940
30310	C17H34	dodecylcyclopentane	5634-30-0	2.293E+10	172.690	32473	C20H40	pentadecylcyclopentane	4669-01-6	2.698E+10	203.380
30311	C17H34	undecylcyclohexane	54105-66-7	2.237E+10	172.760	32474	C20H40	tetradecylcyclohexane	1795-18-2	2.642E+10	203.450
30313	C17H34	1-heptadecene	6765-39-5	2.423E+10	179.060	32476	C20H40	1-eicosene	3452-07-1	2.828E+10	209.750
30346	C17H36	heptadecane	629-78-7	2.449E+10	180.790	32476.1	C20H40	trans-2-eicosene	42448-85-1	2.730E+10	208.000
30352	C17H36O	1-heptadecanol	1454-85-9	2.518E+10	185.390	32515	C20H42	eicosane	112-95-8	2.854E+10	211.480
30362	C17H36S	1-heptadecanethiol	53193-22-9	2.579E+10	195.600	32522	C20H42O	1-eicosanol	629-96-9	2.923E+10	216.080
30364	C17H36S	methyl hexadecyl sulfide	27563-68-4	2.579E+10	191.590	32537	C20H42S	1-eicosanethiol	13373-97-2	2.984E+10	226.290
30365	C17H36S	ethyl pentadecyl sulfide	64919-20-6	2.579E+10	191.590	32539	C20H42S	didecyl sulfide	693-83-4	2.984E+10	222.280
30366	C17H36S	propyl tetradecyl sulfide	66577-61-5	2.579E+10	191.590	32540	C20H42S	methyl nonadecyl sulfide	62155-12-8	2.984E+10	222.280
30367	C17H36S	butyl tridecyl sulfide	66577-62-6	2.579E+10	191.590	32541	C20H42S	ethyl octadecyl sulfide	41947-84-6	2.984E+10	222.280
30406	C18H12	chrysene	218-01-9	1.326E+10	125.160	32542	C20H42S	propyl heptadecyl sulfide	66455-35-4	2.984E+10	222.280
30456.1	C18H13N3O4	4,4'-dinitrotriphenylamine	1100-1-3	1.913E+10	167.890	32543	C20H42S	butyl hexadecyl sulfide	18437-89-3	2.984E+10	222.280
30457	C18H14	m-terphenyl	92-06-8	1.508E+10	133.400	32544	C20H42S2	didecyl disulfide	10496-18-1	3.114E+10	234.180
30458	C18H14	o-terphenyl	84-15-1	1.508E+10	133.400	32787	C21H21O4P	tri-o-cresyl phosphate	78-30-8	2.666E+10	196.770
30459	C18H14	p-terphenyl	92-94-4	1.508E+10	133.400	32998	C21H36	pentadecylbenzene	2131-18-2	2.702E+10	205.290
30566	C18H15O4P	triphenyl phosphate	115-86-6	2.223E+10	163.320	33036	C21H42	hexadecylcyclopentane	6812-39-1	2.833E+10	213.610
30567	C18H15P	triphenylphosphine	603-35-0	1.779E+10	147.960	33037	C21H42	pentadecylcyclohexane	6006-95-7	2.777E+10	213.680
30588	C18H16N2	N,N'-diphenyl-p-phenylenediamine	74-31-7	1.729E+10	151.160	33401	C22H38	1-phenylhexadecane	1459-09-2	2.837E+10	215.520
30779	C18H22	2,3-dimethyl-2,3-diphenylbutane	1889-67-4	1.914E+10	153.020	33455	C22H44	hexadecylcyclohexane	6812-38-0	2.912E+10	223.910
30806	C18H22O2	dicumyl peroxide	80-43-3	2.028E+10	160.420	33466	C22H44O2	butyl stearate	123-95-5	3.209E+10	236.910
30947	C18H30	dodecylbenzene	123-01-3	2.218E+10	171.240	33924	C24H38O4	diisooctyl phthalate	27554-26-3	3.212E+10	244.260
30948	C18H30	hexaethylbenzene	604-88-6	2.676E+10	191.800	33925	C24H38O4	dioctyl phthalate	117-84-0	3.212E+10	244.260
30991	C18H32O2	linoleic acid	60-33-3	2.358E+10	189.830	33931.1	C24H38O4	heptyl nonyl phthalate	19295-81-9	3.150E+10	248.000
31014	C18H34	1-octadecyne	629-89-0	2.519E+10	187.140	33960	C24H42O	dinonylphenol	1323-65-5	3.111E+10	239.100
31030	C18H34O2	oleic acid	112-80-1	2.624E+10	193.350	34221	C26H20	tetraphenylethylene	632-51-9	2.206E+10	190.180
31041	C18H34O4	dibutyl sebacate	109-43-3	2.754E+10	200.960	34319.1	C26H42O4	heptyl undecyl phthalate	65185-88-8	3.420E+10	267.000
31042	C18H34O4	dihexyl adipate	110-33-8	2.750E+10	201.000	34691	C28H46O4	diisodecyl phthalate	26761-40-0	3.736E+10	283.600
31071	C18H36	1-octadecene	112-88-9	2.531E+10	187.530	34922.1	C30H48O6	tri-n-heptyl trimellitate	1528-48-9	4.116E+10	311.150
31074	C18H36	tridecylcyclopentane	6006-34-4	2.428E+10	182.920	35553.1	C39H72O5	glycerol dioleate	2465-32-9	5.549E+10	413.340

* Use ID or CAS No for complete name (See Chapther 1 of this book).

Chapter 16

VAN DER WAALS AREA AND VOLUME – INORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 16. The tabulation is arranged by alphabetical order (Ag, Al, Ar, ..., Zr) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for van der Waals area and volume are given in the adjacent columns.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-4). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of Daubert and Danner (2) and Yaws (3-4) were used extensively. Van der Waals area and volume involve the surface area and volume of an atom and maybe ascertained from bond distances, contact distances and shapes of atoms. Methods of calculation are described by Bondi (1).

Example

In an engineering analysis, van der Waals area and volume are needed for silicon tetrachloride (SiCl4). Determine van der Waals area and volume for silicon tetrachloride.

Inspection of the tabulation yields:

area = 7.830E+09 cm^2/mol

volume = 60.820 cm^3/mol

References

1. Bondi, A., PHYSICAL PROPERTIES OF MOLECULAR CRYSTALS, LIQUIDS AND GLASSES, John Wiley and Sons, Inc., New York, NY (1968).
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3. Yaws, C. L., CHEMICAL PROPERTIES HANDBOOK, McGraw-Hill, New York, NY (1999).
4. Yaws, C. L., YAWS HANDBOOK OF THERMODYNAMIC AND PHYSICAL PROPERTIES OF CHEMICAL COMPOUNDS, electronic edition, www.knovel.com, Knovel, Norwich, NY (2003-present).

Table 16 Van Der Waals Area and Volume - Inorganic Compounds

Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)						Van Der Waals Area and Volume (Area - cm^2/mol, Volume - cm^3/mol)					
ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol	ID	FORMULA	NAME	CAS No	cm^2/mol	cm^3/mol
200	Ar	argon	7440-37-1	2.670E+09	16.800	2674	NO	nitric oxide	10102-43-9	2.465E+09	13.900
202	As	arsenic	7440-38-3	2.590E+09	11.970	2676	NO2	nitrogen dioxide	10102-44-0	2.827E+09	15.980
234	AsH3	arsine	7784-42-1	3.848E+09	24.290	2678	N2	nitrogen	7727-37-9	2.720E+09	15.800
361	BCl3	boron trichloride	10294-34-5	6.024E+09	47.180	2684	N2F4	tetrafluorohydrazine	10036-47-2	5.060E+09	32.660
363	BF3	boron trifluoride	7637-07-2	3.768E+09	26.510	2685	N2H4	hydrazine	302-01-2	3.480E+09	21.080
370	BH3O3	boric acid	10043-35-3	4.840E+09	33.300	2747	N2O	nitrous oxide	10024-97-2	3.126E+09	18.900
633	Br2	bromine	7726-95-6	4.180E+09	28.800	2748	N2O3	nitrogen trioxide	10544-73-7	4.407E+09	26.378
639	C	graphite	7782-42-5	2.590E+09	16.000	2749	N2O4	nitrogen tetraoxide	10544-72-6	4.960E+08	30.080
641	CCl2O	carbonyl chloride	75-44-5	5.200E+09	34.900	2750	N2O5	nitrogen pentoxide	10102-03-1	5.545E+09	33.870
642	CF2O	carbonyl fluoride	353-50-4	3.800E+09	23.140	3091	Ne	neon	7440-01-9	1.940E+09	10.330
644	CH4N2O	urea	57-13-6	4.640E+09	32.340	3198	O2	oxygen	7782-44-7	2.350E+09	13.000
645	CH4N2S	thiourea	62-56-6	5.390E+09	36.890	3234	P	phosphorus (white)	7723-14-0	2.010E+09	10.440
647	CNCl	cyanogen chloride	506-77-4	3.990E+09	26.320	3235	P	phosphorus (red)	7723-14-0	2.730E+09	17.300
651	CN4O8	tetranitromethane	509-14-8	1.020E+10	70.530	3252	PC3H9O4	phosphate, trimethyl	512-56-1	9.460E+09	66.810
652	CO	carbon monoxide	630-08-0	2.780E+09	16.200	3280	PC6H15O4	phosphate, triethyl	78-40-0	1.350E+10	97.500
653	COS	carbonyl sulfide	463-58-1	4.053E+09	25.900	3282	PC6H18N3O	phosphoramide, hexamethyl	680-31-9	1.351E+10	97.400
655	CO2	carbon dioxide	124-38-9	3.230E+09	19.700	3381	PCl3	phosphorus (iii) chloride	7719-12-2	6.865E+09	47.160
656	CS2	carbon disulfide	75-15-0	4.754E+09	31.200	3382	PCl5	phosphorus pentachloride	10026-13-8	9.690E+09	68.540
899	Cl2	chlorine	7782-50-5	3.810E+09	24.100	3389	PH3	phosphine	7803-51-2	3.230E+09	19.700
1302	D2	deuterium	7782-39-0	1.379E+09	6.210	3396	POCl3	phosphorus oxychloride	10025-87-3	7.519E+09	52.100
1303	D2O	deuterium oxide	7789-20-0	2.260E+09	12.370	3991	S	sulfur	7704-34-9	2.590E+09	15.970
1404	FHO3S	fluorosulfonic acid	7789-21-1	5.210E+09	34.070	3994	SCl2	sulfur dichloride	10545-99-0	4.900E+09	34.040
1409	F2	fluorine	7782-41-4	2.500E+09	14.200	3996	SCl2O	thionyl chloride	7719-09-7	5.540E+09	37.740
1691	HBr	hydrogen bromide	10035-10-6	2.993E+09	17.890	4001	SF6	sulfur hexafluoride	2551-62-4	8.200E+09	46.800
1694	HCN	hydrogen cyanide	74-90-8	3.030E+09	18.130	4005	SOCl2	thionyl chloride	7719-09-7	5.540E+09	37.740
1695	HCl	hydrogen chloride	7647-01-0	2.750E+09	16.020	4007	SO2	sulfur dioxide	7446-09-5	4.030E+09	25.730
1696	HClO3S	chlorosulfonic acid	7790-94-5	5.880E+09	40.580	4008	SO2Cl2	sulfuryl chloride	7791-25-5	7.500E+09	54.340
1698	HF	hydrogen fluoride	7664-39-3	1.830E+09	9.090	4010	SO3	sulfur trioxide	7446-11-9	4.931E+09	32.540
1699	HI	hydrogen iodide	10034-85-2	3.982E+09	25.370	4140	Si	silicon	7440-21-3	3.027E+09	20.185
1702	HNO3	nitric acid	7697-37-2	3.910E+09	24.860	4149	SiCH3Cl3	silane, methyltrichloro	75-79-6	8.090E+09	61.680
1709	H2	hydrogen	1333-74-0	1.379E+09	6.210	4150	SiCH4Cl2	silane, methyldichloro	75-54-7	7.080E+09	52.800
1712	H2O	water	7732-18-5	2.260E+09	12.370	4152	SiC2H5Cl3	silane, ethyltrichloro	115-21-9	9.127E+09	71.480
1713	H2O2	hydrogen peroxide	7722-84-1	2.920E+09	16.080	4153	SiC2H6Cl2	silane, dimethyldichloro	75-78-5	8.350E+09	62.550
1714	H2S	hydrogen sulfide	7783-06-4	3.103E+09	18.720	4157	SiC3H10	silane, trimethyl	933-07-7	7.590E+09	54.530
1716	H2SO4	sulfuric acid	7664-93-9	6.420E+09	43.800	4187	SiC7H8Cl2	silane, methylphenyldichloro	149-74-6	1.004E+10	92.520
1722	H3NO	hydroxylamine	7803-49-8	3.200E+09	18.580	4196	SiC8H20	silane, tetraethyl	631-36-7	1.663E+10	114.310
1723	H3PO2	hypophosphorous acid	6303-21-5	5.817E+09	39.240	4238	SiClC3H9	chlorotrimethylsilane	75-77-4	8.600E+09	63.410
1724	H3PO3	phosphorous acid	13598-36-2	6.571E+09	44.940	4244	SiCl4	silicon tetrachloride	10026-04-7	7.830E+09	60.820
1725	H3PO4	phosphoric acid	7664-38-2	5.760E+09	38.790	4245	SiF4	silicon tetrafluoride	7783-61-1	4.371E+09	29.970
1727	H3SNO3	sulfamic acid	5329-14-6	5.800E+09	38.880	4247	SiHCl3	silane, trichloro	10025-78-2	6.820E+09	51.940
1739	He	helium-4	7440-59-7	1.480E+09	6.920	4251	SiH2Cl2	silane, dichloro	4109-96-0	5.805E+09	43.060
1873	I2	iodine	7553-56-2	4.730E+09	39.400	4261	SiH4	silane	7803-62-5	3.780E+09	25.300
2607	NClO	nitrosyl chloride	2696-92-6	3.880E+09	24.620	4265	SiO2	silicon dioxide (alpha quartz)	14808-60-7	5.030E+09	33.580
2608	NCl3	nitrogen trichloride	10025-85-1	5.690E+09	41.050	4274	Si2C6H18O	disiloxane, hexamethyl	107-46-0	1.417E+10	105.700
2613	NF3	nitrogen trifluoride	7783-54-2	4.308E+09	23.070	4275	Si2C6H19N	disilazane, hexamethyl	999-97-3	1.475E+10	110.730
2619	NH3	ammonia	7664-41-7	2.450E+09	13.800	4289	Si2H6	disilane	1590-87-0	5.931E+09	43.640

* Use ID or CAS No for complete name (See Chapther 1 of this book).

Chapter 17

RADIUS OF GYRATION – ORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 17. The tabulation is arranged by carbon number (C, C2, C3, ...) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for radius of gyration are given in the adjacent column.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-5). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of Daubert and Danner (1) and Yaws (4-5) were used extensively. The radius of gyration is a helpful indication of the size of a compound. It is ascertained from the moment of inertia and molecular weight. Applications and methods of calculation are described by Wikipedia (3).

Example

In an engineering analysis, the radius of gyration is needed for carbon tetrachloride (CCl4). Determine the radius of gyration for carbon tetrachloride.

Inspection of the tabulation yields:

radius of gyration = 3.482 Angstrom

References

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Table 17 Radius of Gyration - Organic Compounds

Radius of Gyration					Radius of Gyration				
ID	FORMULA	NAME	CAS No	Angstrom	ID	FORMULA	NAME	CAS No	Angstrom
13	CBrClF2	bromochlorodifluoromethane	353-59-3	3.105	708	C2H3ClO	chloroacetaldehyde	107-20-0	2.668
16	CBrCl3	bromotrichloromethane	75-62-7	3.577	710	C2H3ClO2	chloroacetic acid	79-11-8	3.157
17	CBrF3	bromotrifluoromethane	75-63-8	2.810	711	C2H3ClO2	methyl chloroformate	79-22-1	2.962
23	CBr2F2	dibromodifluoromethane	75-61-6	3.243	720	C2H3Cl3	1,1,1-trichloroethane	71-55-6	3.373
34	CClF3	chlorotrifluoromethane	75-72-9	2.894	721	C2H3Cl3	1,1,2-trichloroethane	79-00-5	3.717
39	CClN	cyanogen chloride	506-77-4	1.250	728	C2H3F	vinyl fluoride	75-02-5	1.934
42	CCl2F2	dichlorodifluoromethane	75-71-8	3.052	735	C2H3F3	1,1,1-trifluoroethane	420-46-2	2.767
44	CCl2O	phosgene	75-44-5	2.877	753	C2H3N	acetonitrile	75-05-8	1.841
47	CCl3F	trichlorofluoromethane	75-69-4	3.289	755	C2H3NO	methyl isocyanate	624-83-9	2.236
50	CCl4	carbon tetrachloride	56-23-5	3.482	787	C2H4	ethylene	74-85-1	1.548
68	CF2O	carbonyl fluoride	353-50-4	2.269	798	C2H4Br2	1,1-dibromoethane	557-91-5	3.099
74	CF4	carbon tetrafluoride	75-73-0	2.668	799	C2H4Br2	1,2-dibromoethane	106-93-4	2.833
96	CHBr3	bromoform	75-25-2	3.730	812	C2H4Cl2	1,1-dichloroethane	75-34-3	3.095
97	CHClF2	chlorodifluoromethane	75-45-6	2.689	813	C2H4Cl2	1,2-dichloroethane	107-06-2	2.827
101	CHCl2F	dichlorofluoromethane	75-43-4	3.015	816	C2H4Cl2O	bis(chloromethyl) ether	542-88-1	3.373
104	CHCl3	chloroform	67-66-3	3.249	834	C2H4F2	1,1-difluoroethane	75-37-6	2.514
113	CHF3	fluoroform	75-46-7	2.454	835	C2H4F2	1,2-difluoroethane	624-72-6	2.508
122	CHN	hydrogen cyanide	74-90-8	0.654	884	C2H4O	acetaldehyde	75-07-0	2.083
140	CH2BrCl	bromochloromethane	74-97-5	2.247	885	C2H4O	ethylene oxide	75-21-8	1.937
144	CH2Br2	dibromomethane	74-95-3	2.327	889	C2H4O2	acetic acid	64-19-7	2.610
149	CH2Cl2	dichloromethane	75-09-2	2.322	890	C2H4O2	methyl formate	107-31-3	2.387
158	CH2F2	difluoromethane	75-10-5	1.950	910	C2H5Br	bromoethane	74-96-4	1.987
161	CH2I2	diiodomethane	75-11-6	2.438	914	C2H5Cl	ethyl chloride	75-00-3	2.267
175	CH2O	formaldehyde	50-00-0	1.215	917	C2H5ClO	2-chloroethanol	107-07-3	2.779
176	CH2O2	formic acid	64-18-6	1.847	939	C2H5F	ethyl fluoride	353-36-6	2.832
191	CH3Br	methyl bromide	74-83-9	1.173	948	C2H5I	ethyl iodide	75-03-6	1.799
196	CH3Cl	methyl chloride	74-87-3	1.265	954	C2H5N	ethyleneimine	151-56-4	1.990
214	CH3F	methyl fluoride	593-53-3	1.410	956	C2H5NO	acetamide	60-35-5	2.621
222	CH3I	methyl iodide	74-88-4	1.035	957	C2H5NO	N-methylformamide	123-39-7	2.428
232	CH3NO	formamide	75-12-7	1.894	958	C2H5NO2	nitroethane	79-24-3	2.795
235	CH3NO2	nitromethane	75-52-5	2.354	985	C2H6	ethane	74-84-0	1.826
251	CH4	methane	74-82-8	1.118	1065	C2H6O	ethyl alcohol	64-17-5	2.259
254	CH4Cl2Si	methyl dichlorosilane	75-54-7	3.256	1066	C2H6O	dimethyl ether	115-10-6	2.154
272	CH4O	methyl alcohol	67-56-1	1.552	1067	C2H6OS	dimethyl sulfoxide	67-68-5	2.840
275	CH4O3S	methanesulfonic acid	75-75-2	2.817	1072	C2H6O2	ethylene glycol	107-21-1	2.564
278	CH4S	methyl mercaptan	74-93-1	1.606	1083	C2H6O4S	dimethyl sulfate	77-78-1	3.314
286	CH5N	methylamine	74-89-5	1.722	1092	C2H6S	ethyl mercaptan	75-08-1	2.363
363	CN4O8	tetranitromethane	509-14-8	4.147	1093	C2H6S	dimethyl sulfide	75-18-3	2.374
372	CO	carbon monoxide	630-08-0	0.558	1094	C2H6S2	dimethyl disulfide	624-92-0	2.942
373	COS	carbonyl sulfide	463-58-1	1.270	1115	C2H7N	ethylamine	75-04-7	2.336
375	CO2	carbon dioxide	124-38-9	1.040	1116	C2H7N	dimethylamine	124-40-3	2.271
382	CS2	carbon disulfide	75-15-0	1.569	1117	C2H7NO	monoethanolamine	141-43-5	1.826
404	C2BrF3	bromotrifluoroethylene	598-73-2	3.366	1159	C2H8N2	ethylenediamine	107-15-3	2.761
413	C2Br2F4	1,2-dibromotetrafluoroethane	124-73-2	3.779	1168	C2H8Si	dimethyl silane	1111-74-6	1.881
423	C2ClF3	chlorotrifluoroethylene	79-38-9	3.293	1210	C2N2	cyanogen	460-19-5	2.190
427	C2ClF5	chloropentafluoroethane	76-15-3	3.587	1284	C3F6	hexafluoropropylene	116-15-4	3.796
441	C2Cl2F4	1,2-dichloro-1,1,2,2-tetrafluoroethane	76-14-2	3.602	1287	C3F6O	hexafluoroacetone	684-16-2	3.933
449	C2Cl3F3	1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	3.791	1299	C3F8	octafluoropropane	76-19-7	3.736
455	C2Cl4	tetrachloroethylene	127-18-4	4.059	1377	C3H2N2	malononitrile	109-77-3	3.058
456	C2Cl4F2	1,1,2,2-tetrachloro-1,2-difluoroethane	76-12-0	3.628	1402	C3H3Cl	propargyl chloride	624-65-7	2.730
459	C2Cl4O	trichloroacetyl chloride	76-02-8	4.037	1462	C3H3N	acrylonitrile	107-13-1	2.464
463	C2Cl6	hexachloroethane	67-72-1	4.143	1463	C3H3NO	oxazole	288-42-6	2.467
488	C2F4	tetrafluoroethylene	116-14-3	3.232	1492	C3H4	methylacetylene	74-99-7	1.908
494	C2F6	hexafluoroethane	76-16-4	3.419	1493	C3H4	allene	463-49-0	1.911
511	C2HBrClF3	halothane	151-67-7	3.735	1533	C3H4Cl2	2,3-dichloropropene	78-88-6	3.470
525	C2HClF2	2-chloro-1,1-difluoroethylene	359-10-4	2.994	1621	C3H4O	acrolein	107-02-8	2.443
539	C2HCl3	trichloroethylene	79-01-6	3.742	1622	C3H4O	propargyl alcohol	107-19-7	2.543
543	C2HCl3O	dichloroacetyl chloride	79-36-7	3.988	1626	C3H4O2	acrylic acid	79-10-7	2.978
544	C2HCl3O	trichloroacetaldehyde	75-87-6	3.649	1627	C3H4O2	beta-propiolactone	57-57-8	2.481
551	C2HCl5	pentachloroethane	76-01-7	4.172	1628	C3H4O2	vinyl formate	692-45-5	2.680
556	C2HF3O2	trifluoroacetic acid	76-05-1	3.294	1633	C3H4O3	ethylene carbonate	96-49-1	2.869
558	C2HF5	pentafluoroethane	354-33-6	3.282	1634	C3H4O3	pyruvic acid	127-17-3	3.235
571	C2H2	acetylene	74-86-2	0.744	1670	C3H5Cl	2-chloro-1-propene	557-98-2	2.786
592	C2H2Br4	1,1,2,2-tetrabromoethane	79-27-6	4.540	1671	C3H5Cl	3-chloro-1-propene	107-05-1	2.668
615	C2H2Cl2	1,1-dichloroethylene	75-35-4	3.011	1676	C3H5ClO	alpha-epichlorohydrin	106-89-8	3.043
616	C2H2Cl2	cis-1,2-dichloroethylene	156-59-2	2.991	1688	C3H5ClO2	methyl chloroacetate	96-34-4	3.539
617	C2H2Cl2	trans-1,2-dichloroethylene	156-60-5	2.634	1689	C3H5ClO2	ethyl chloroformate	541-41-3	3.595
625	C2H2Cl2O	chloroacetyl chloride	79-04-9	3.394	1707	C3H5Cl3	1,2,3-trichloropropane	96-18-4	4.263
626	C2H2Cl2O	dichloroacetaldehyde	79-02-7	3.419	1752	C3H5N	propionitrile	107-12-0	2.652
627	C2H2Cl2O2	dichloroacetic acid	79-43-6	3.780	1755	C3H5NO	acrylamide	79-06-1	2.950
630	C2H2Cl3F	1,1,1-trichloro-2-fluoroethane	2366-36-1	3.476	1756	C3H5NO	hydracrylonitrile	109-78-4	3.098
636	C2H2Cl4	1,1,2,2-tetrachloroethane	79-34-5	4.044	1757	C3H5NO	lactonitrile	78-97-7	3.078
642	C2H2F2	1,1-difluoroethylene	75-38-7	2.528	1796	C3H5N3O9	nitroglycerine	55-63-0	4.650
650	C2H2F4	1,1,1,2-tetrafluoroethane	811-97-2	2.944	1809	C3H6	cyclopropane	75-19-4	2.120
681	C2H2O	ketene	463-51-4	1.605	1810	C3H6	propylene	115-07-1	2.254
684	C2H2O4	oxalic acid	144-62-7	3.220	1844	C3H6Cl2	1,1-dichloropropane	78-99-9	3.495
688	C2H3Br	vinyl bromide	593-60-2	1.763	1845	C3H6Cl2	1,2-dichloropropane	78-87-5	3.496
701	C2H3Cl	vinyl chloride	75-01-4	2.049	1846	C3H6Cl2	1,3-dichloropropane	142-28-9	3.501
702	C2H3ClF2	1-chloro-1,1-difluoroethane	75-68-3	2.896	1920	C3H6O	allyl alcohol	107-18-6	2.577
707	C2H3ClO	acetyl chloride	75-36-5	2.712	1921	C3H6O	methyl vinyl ether	107-25-5	2.570

Table 17 Radius of Gyration - Organic Compounds

Radius of Gyration					Radius of Gyration				
ID	FORMULA	NAME	CAS No	Angstrom	ID	FORMULA	NAME	CAS No	Angstrom
1922	C3H6O	propionaldehyde	123-38-6	2.643	2966	C4H6O2	cis-2-butenoic acid	503-64-0	3.342
1923	C3H6O	acetone	67-64-1	2.746	2967	C4H6O2	trans-2-butenoic acid	107-93-7	3.493
1924	C3H6O	1,2-propylene oxide	75-56-9	2.660	2969	C4H6O2	methacrylic acid	79-41-4	3.412
1925	C3H6O	1,3-propylene oxide	503-30-0	2.234	2970	C4H6O2	methyl acrylate	96-33-3	3.280
1930	C3H6O2	propanoic acid	79-09-4	3.107	2971	C4H6O2	vinyl acetate	108-05-4	2.969
1931	C3H6O2	ethyl formate	109-94-4	2.963	2990	C4H6O3	acetic anhydride	108-24-7	3.579
1932	C3H6O2	methyl acetate	79-20-9	2.996	3006	C4H6O4	succinic acid	110-15-6	4.159
1942	C3H6O2S	3-mercaptopropionic acid	107-96-0	3.705	3023	C4H6O5	diglycolic acid	110-99-6	4.475
1948	C3H6O3	lactic acid	50-21-5	3.298	3024	C4H6O5	malic acid	6915-15-7	4.209
1949	C3H6O3	methoxyacetic acid	625-45-6	3.293	3033	C4H6O6	tartaric acid	87-69-4	4.289
1950	C3H6O3	trioxane	110-88-3	2.823	3238	C4H7N	butyronitrile	109-74-0	3.088
1978	C3H7Br	1-bromopropane	106-94-5	2.629	3239	C4H7N	isobutyronitrile	78-82-0	3.211
1979	C3H7Br	2-bromopropane	75-26-3	2.615	3246	C4H7NO	acetone cyanohydrin	75-86-5	3.344
1986	C3H7Cl	1-chloropropane	540-54-5	2.774	3247	C4H7NO	2-methacrylamide	79-39-0	3.380
1987	C3H7Cl	2-chloropropane	75-29-6	2.905	3248	C4H7NO	3-methoxypropionitrile	110-67-8	3.387
2025	C3H7I	1-iodopropane	107-08-4	2.311	3249	C4H7NO	2-pyrrolidone	616-45-5	3.074
2026	C3H7I	2-iodopropane	75-30-9	2.427	3319	C4H8	cyclobutane	287-23-0	2.450
2030	C3H7N	allylamine	107-11-9	2.704	3320	C4H8	1-butene	106-98-9	2.762
2031	C3H7N	propyleneimine	75-55-8	2.543	3322	C4H8	cis-2-butene	590-18-1	2.833
2036	C3H7NO	N,N-dimethylformamide	68-12-2	3.027	3323	C4H8	trans-2-butene	624-64-6	2.734
2037	C3H7NO	N-methylacetamide	79-16-3	3.051	3324	C4H8	isobutene	115-11-7	2.875
2045	C3H7NO2	1-nitropropane	108-03-2	3.359	3363	C4H8Cl2	1,4-dichlorobutane	110-56-5	3.760
2046	C3H7NO2	2-nitropropane	79-46-9	3.273	3474	C4H8O	1,2-epoxybutane	106-88-7	2.960
2094	C3H8	propane	74-98-6	2.431	3476	C4H8O	ethyl vinyl ether	109-92-2	2.940
2129	C3H8O	propyl alcohol	71-23-8	2.825	3478	C4H8O	butyraldehyde	123-72-8	3.185
2130	C3H8O	isopropyl alcohol	67-63-0	2.807	3479	C4H8O	isobutyraldehyde	78-84-2	3.176
2131	C3H8O	methyl ethyl ether	540-67-0	2.594	3480	C4H8O	methyl ethyl ketone	78-93-3	3.135
2138	C3H8O2	2-methoxyethanol	109-86-4	2.985	3481	C4H8O	tetrahydrofuran	109-99-9	2.694
2139	C3H8O2	methylal	109-87-5	2.891	3504	C4H8O2	butyric acid	107-92-6	3.610
2140	C3H8O2	1,2-propanediol (propylene glycol)	57-55-6	3.154	3505	C4H8O2	isobutyric acid	79-31-2	3.444
2141	C3H8O2	1,3-propanediol	504-63-2	3.169	3506	C4H8O2	propyl formate	110-74-7	3.364
2148	C3H8O3	glycerol	56-81-5	3.520	3508	C4H8O2	ethyl acetate	141-78-6	3.468
2158	C3H8S	propyl mercaptan	107-03-9	2.883	3509	C4H8O2	methyl propanoate	554-12-1	3.490
2159	C3H8S	isopropyl mercaptan	75-33-2	2.993	3510	C4H8O2	1,4-dioxane	123-91-1	3.017
2200	C3H9N	propylamine	107-10-8	2.806	3511	C4H8O2	cis-2-butene-1,4-diol	6117-80-2	3.516
2201	C3H9N	isopropylamine	75-31-0	2.802	3512	C4H8O2	trans-2-butene-1,4-diol	821-11-4	3.530
2203	C3H9N	trimethylamine	75-50-3	2.766	3535.1	C4H8O2	4-hydroxybutraldehyde	25714-71-0	3.606
2204	C3H9NO	1-amino-2-propanol	78-96-6	3.108	3535.2	C4H8O2	3-hydroxy-2-methyl propionaldehyde	38433-80-6	3.489
2205	C3H9NO	3-amino-1-propanol	156-87-6	3.126	3536	C4H8O2S	sulfolane	126-33-0	3.309
2206	C3H9NO	methylethanolamine	109-83-1	3.035	3581	C4H8S	tetrahydrothiophene	110-01-0	2.898
2241	C3H9O4P	trimethyl phosphate	512-56-1	3.640	3598	C4H9Br	1-bromobutane	109-65-9	3.132
2255	C3H10N2	1,2-propanediamine	78-90-0	3.170	3599	C4H9Br	2-bromobutane	78-76-2	3.123
2317	C4Cl4S	tetrachlorothiophene	6012-97-1	5.091	3610	C4H9Cl	1-chlorobutane	109-69-3	3.338
2318	C4Cl6	hexachloro-1,3-butadiene	87-68-3	5.299	3611	C4H9Cl	1-chloro-2-methylpropane	513-36-0	3.324
2334	C4F8	octafluoro-2-butene	360-89-4	2.940	3613	C4H9Cl	2-chloro-2-methylpropane	507-20-0	3.152
2336	C4F8	octafluorocyclobutane	115-25-3	3.889	3675	C4H9N	pyrrolidine	123-75-1	2.700
2338.1	C4F8O	pentafluoroethyl trifluorovinyl ether	10493-43-3	4.574	3681	C4H9NO	N,N-dimethylacetamide	127-19-5	3.368
2344	C4F10	decafluorobutane	355-25-9	4.368	3682	C4H9NO	morpholine	110-91-8	3.042
2420.1	C4H2N2	maleonitrile	928-53-0	3.469	3783	C4H10	butane	106-97-8	2.886
2430	C4H2O3	maleic anhydride	108-31-6	3.312	3784	C4H10	isobutane	75-28-5	2.948
2510	C4H4	vinylacetylene	689-97-4	2.552	3830	C4H10N2	piperazine	110-85-0	3.035
2562	C4H4N2	succinonitrile	110-61-2	3.361	3865	C4H10O	butanol	71-36-3	3.251
2592	C4H4O	furan	110-00-9	2.559	3866	C4H10O	isobutanol	78-83-1	3.332
2598	C4H4O2	diketene	674-82-8	2.998	3867	C4H10O	sec-butanol	78-92-2	3.203
2603	C4H4O3	succinic anhydride	108-30-5	3.281	3868	C4H10O	tert-butanol	75-65-0	3.067
2605	C4H4O4	fumaric acid	110-17-8	4.139	3869	C4H10O	diethyl ether	60-29-7	3.177
2606	C4H4O4	maleic acid	110-16-7	4.221	3871	C4H10O	methyl isopropyl ether	598-53-8	3.125
2613	C4H4S	thiophene	110-02-1	2.781	3881	C4H10O2	t-butyl hydroperoxide	75-91-2	3.295
2634	C4H5Cl	chloroprene	126-99-8	3.274	3882	C4H10O2	1,2-dimethoxyethane	110-71-4	3.328
2695	C4H5N	trans-crotonitrile	627-26-9	2.893	3883	C4H10O2	2-ethoxyethanol	110-80-5	3.392
2696	C4H5N	cis-crotonitrile	1190-76-7	2.924	3885	C4H10O2	1,3-butanediol	107-88-0	3.455
2697	C4H5N	methacrylonitrile	126-98-7	3.172	3886	C4H10O2	1,4-butanediol	110-63-4	3.582
2698	C4H5N	vinylacetonitrile	109-75-1	2.979	3887	C4H10O2	DL-2,3-butanediol	6982-25-8	3.371
2701	C4H5N	pyrrole	109-97-7	2.567	3893.1	C4H10O2	n-butylhydroperoxide	4813-50-7	3.519
2713	C4H5NO2	methyl cyanoacetate	105-34-0	3.733	3918	C4H10O3	diethylene glycol	111-46-6	3.739
2754	C4H6	dimethylacetylene	503-17-3	2.519	3937	C4H10O4S	diethyl sulfate	64-67-5	4.239
2755	C4H6	ethylacetylene	107-00-6	2.770	3942	C4H10S	butyl mercaptan	109-79-5	3.400
2756	C4H6	1,2-butadiene	590-19-2	2.724	3943	C4H10S	isobutyl mercaptan	513-44-0	3.455
2757	C4H6	butadiene (1,3 butadiene)	106-99-0	2.602	3944	C4H10S	sec-butyl mercaptan	513-53-1	3.362
2806	C4H6Cl2	1,3-dichloro-trans-2-butene	7415-31-8	4.074	3945	C4H10S	tert-butyl mercaptan	75-66-1	3.185
2807	C4H6Cl2	1,4-dichloro-cis-2-butene	1476-11-5	3.820	3947	C4H10S	diethyl sulfide	352-93-2	3.212
2808	C4H6Cl2	1,4-dichloro-trans-2-butene	110-57-6	3.832	3977	C4H11N	butylamine	109-73-9	3.289
2809	C4H6Cl2	3,4-dichloro-1-butene	760-23-6	3.934	3978	C4H11N	isobutylamine	78-81-9	3.230
2939.1	C4H6O	cis-crotonaldehyde	15798-64-8	3.084	3979	C4H11N	sec-butylamine	13952-84-6	3.201
2940	C4H6O	trans-crotonaldehyde	123-73-9	3.087	3980	C4H11N	tert-butylamine	75-64-9	3.048
2941	C4H6O	methacrolein	78-85-3	3.121	3984	C4H11N	diethylamine	109-89-7	3.172
2942	C4H6O	2,5-dihydrofuran	1708-29-8	2.580	3988	C4H11NO	dimethylethanolamine	108-01-0	3.463
2944	C4H6O	divinyl ether	109-93-3	2.951	4006	C4H11NO2	diethanolamine	111-42-2	3.907
2963	C4H6O2	2-butyne-1,4-diol	110-65-6	3.715	4007	C4H11NO2	2-aminoethoxyethanol	929-06-6	3.737
2965	C4H6O2	gamma-butyrolactone	96-48-0	2.642	4080	C4H12N2O	N-aminoethyl ethanolamine	111-41-1	3.821

Table 17 Radius of Gyration - Organic Compounds

Radius of Gyration					Radius of Gyration				
ID	FORMULA	NAME	CAS No	Angstrom	ID	FORMULA	NAME	CAS No	Angstrom
4118	C4H13N3	diethylene triamine	111-40-0	3.865	5840	C5H12O	2,2-dimethyl-1-propanol	75-84-3	3.399
4169	C5Cl6	hexachlorocyclopentadiene	77-47-4	5.310	5842	C5H12O	methyl isobutyl ether	625-44-5	3.608
4327	C5H4O2	furfural	98-01-1	3.350	5843	C5H12O	methyl sec-butyl ether	6795-87-5	3.463
4391	C5H5N	pyridine	110-86-1	2.938	5844	C5H12O	methyl tert-butyl ether	1634-04-4	3.179
4447	C5H6	cyclopentadiene	542-92-7	2.752	5845	C5H12O	ethyl propyl ether	628-32-0	3.470
4448	C5H6	2-methyl-1-butene-3-yne	78-80-8	3.224	5857	C5H12O2	ethylene glycol monopropyl ether	2807-30-9	3.822
4449	C5H6	1-pentene-3-yne	646-05-9	3.086	5858	C5H12O2	neopentyl glycol	126-30-7	3.660
4450	C5H6	1-pentene-4-yne	871-28-3	3.025	5863	C5H12O2	1,5-pentanediol	111-29-5	4.030
4490	C5H6N2	glutaronitrile	544-13-8	3.972	5899	C5H12O3	2-(2-methoxyethoxy)ethanol	111-77-3	4.098
4548	C5H6O2	furfuryl alcohol	98-00-0	3.422	5912	C5H12O4	pentaerythritol	115-77-5	4.159
4567	C5H6O3	glutaric anhydride	108-55-4	3.651	5921	C5H12S	pentyl mercaptan	110-66-7	3.797
4576	C5H6O4	citraconic acid	498-23-7	3.744	5947	C5H13N	pentylamine	110-58-7	3.641
4577	C5H6O4	itaconic acid	97-65-4	4.185	5986	C5H13NO2	methyl diethanolamine	105-59-9	4.366
4658	C5H7N	N-methylpyrrole	96-54-8	3.082	6067	C6Cl6	hexachlorobenzene	118-74-1	5.701
4677	C5H7NO2	ethyl cyanoacetate	105-56-6	4.180	6080	C6F6	hexafluorobenzene	392-56-3	4.706
4737	C5H8	cyclopentene	142-29-0	2.728	6281	C6H3ClN2O4	1-chloro-2,4-dinitrobenzene	97-00-7	5.199
4738	C5H8	isoprene	78-79-5	3.213	6305	C6H3Cl3	1,2,4-trichlorobenzene	120-82-1	4.832
4739	C5H8	3-methyl-1,2-butadiene	598-25-4	3.021	6367	C6H3N3O6	1,3,5-trinitrobenzene	99-35-4	5.769
4740	C5H8	1,2-pentadiene	591-95-7	3.262	6411	C6H4Br2	m-dibromobenzene	108-36-1	4.691
4741	C5H8	cis-1,3-pentadiene	1574-41-0	3.212	6443	C6H4ClNO2	m-chloronitrobenzene	121-73-3	4.676
4742	C5H8	trans-1,3-pentadiene	2004-70-8	3.087	6444	C6H4ClNO2	o-chloronitrobenzene	88-73-3	4.367
4743	C5H8	1,4-pentadiene	591-93-5	3.049	6445	C6H4ClNO2	p-chloronitrobenzene	100-00-5	4.494
4744	C5H8	2,3-pentadiene	591-96-8	3.301	6469	C6H4Cl2	o-dichlorobenzene	95-50-1	4.186
4745	C5H8	1-pentyne	627-19-0	3.115	6470	C6H4Cl2	m-dichlorobenzene	541-73-1	4.389
4747	C5H8	3-methyl-1-butyne	598-23-2	3.327	6471	C6H4Cl2	p-dichlorobenzene	106-46-7	4.149
4845	C5H8N4O12	pentaerythritol tetranitrate	78-11-5	6.929	6580	C6H4N2O4	m-dinitrobenzene	99-65-0	4.873
4848	C5H8O	cyclopentanone	120-92-3	3.165	6581	C6H4N2O4	o-dinitrobenzene	528-29-0	4.485
4849	C5H8O	methyl isopropenyl ketone	814-78-8	3.480	6582	C6H4N2O4	p-dinitrobenzene	100-25-4	4.769
4882	C5H8O2	acetylacetone	123-54-6	4.017	6656	C6H5Br	bromobenzene	108-86-1	3.466
4883	C5H8O2	allyl acetate	591-87-7	3.730	6692	C6H5Cl	chlorobenzene	108-90-7	3.603
4885	C5H8O2	vinyl propionate	105-38-4	3.867	6720	C6H5ClO	m-chlorophenol	108-43-0	4.043
4888	C5H8O2	ethyl acrylate	140-88-5	3.784	6721	C6H5ClO	o-chlorophenol	95-57-8	3.837
4889	C5H8O2	methyl methacrylate	80-62-6	3.620	6722	C6H5ClO	p-chlorophenol	106-48-9	3.913
4927	C5H8O3	2-hydroxyethyl acrylate	818-61-1	4.188	6740	C6H5Cl2N	3,4-dichloroaniline	95-76-1	4.528
4928	C5H8O3	levulinic acid	123-76-2	3.675	6769	C6H5F	fluorobenzene	462-06-6	3.345
4929	C5H8O3	methyl acetoacetate	105-45-3	3.934	6795	C6H5I	iodobenzene	591-50-4	3.359
4945	C5H8O4	glutaric acid	110-94-1	4.591	6819	C6H5NO2	nitrobenzene	98-95-3	3.944
5183	C5H9N	valeronitrile	110-59-8	3.631	6876	C6H6	benzene	71-43-2	3.004
5197	C5H9NO	butyl isocyanate	111-36-4	3.851	6923	C6H6ClN	m-chloroaniline	108-42-9	4.092
5198	C5H9NO	N-methyl-2-pyrrolidone	872-50-4	3.482	6924	C6H6ClN	o-chloroaniline	95-51-2	3.934
5245	C5H9NO4	L-glutamic acid	56-86-0	4.711	6925	C6H6ClN	p-chloroaniline	106-47-8	3.929
5269.1	C5H9NS	N-methylthiopyrrolidone	10441-57-3	3.656	6979	C6H6N2	cis-dicyano-1-butene	2141-58-4	4.548
5285	C5H10	cyclopentane	287-92-3	2.850	6980	C6H6N2	trans-dicyano-1-butene	2141-59-5	4.061
5286	C5H10	1-pentene	109-67-1	3.231	6981	C6H6N2	trans-1,4-dicyano-2-butene	1119-85-3	4.155
5288	C5H10	cis-2-pentene	627-20-3	3.330	6996	C6H6N2O2	m-nitroaniline	99-09-2	4.350
5289	C5H10	trans-2-pentene	646-04-8	3.280	6997	C6H6N2O2	o-nitroaniline	88-74-4	4.198
5290	C5H10	2-methyl-1-butene	563-46-2	3.287	6998	C6H6N2O2	p-nitroaniline	100-01-6	4.263
5291	C5H10	3-methyl-1-butene	563-45-1	3.272	7057	C6H6O	phenol	108-95-2	3.415
5292	C5H10	2-methyl-2-butene	513-35-9	3.281	7070	C6H6O2	pyrocatechol	120-80-9	3.672
5334	C5H10Cl2	1,5-dichloropentane	628-76-2	4.423	7071	C6H6O2	resorcinol	108-46-3	3.795
5445	C5H10O	pentanal	110-62-3	3.516	7072	C6H6O2	p-hydroquinone	123-31-9	3.708
5450	C5H10O	methyl propyl ketone	107-87-9	3.618	7085	C6H6O3	1,2,3-benzenetriol	87-66-1	3.960
5451	C5H10O	diethyl ketone	96-22-0	3.583	7121	C6H6S	phenyl mercaptan	108-98-5	3.608
5452	C5H10O	methyl isopropyl ketone	563-80-4	3.465	7172	C6H7N	aniline	62-53-3	3.436
5492	C5H10O2	pentanoic acid	109-52-4	3.965	7173	C6H7N	2-methylpyridine	109-06-8	3.365
5493	C5H10O2	2-methylbutyric acid	116-53-0	3.762	7174	C6H7N	3-methylpyridine	108-99-6	3.401
5494	C5H10O2	3-methylbutanoic acid	503-74-2	3.762	7175	C6H7N	4-methylpyridine	108-89-4	3.409
5497	C5H10O2	butyl formate	592-84-7	3.947	7267	C6H8	1,3-cyclohexadiene	592-57-4	2.835
5498	C5H10O2	isobutyl formate	542-55-2	4.294	7268	C6H8	methylcyclopentadiene	26519-91-5	3.192
5501	C5H10O2	propyl acetate	109-60-4	3.969	7316	C6H8N2	adiponitrile	111-69-3	3.979
5502	C5H10O2	isopropyl acetate	108-21-4	3.679	7317	C6H8N2	methylglutaronitrile	4553-62-2	4.448
5503	C5H10O2	ethyl propanoate	105-37-3	3.934	7318	C6H8N2	m-phenylenediamine	108-45-2	3.836
5504	C5H10O2	methyl butanoate	623-42-7	3.972	7319	C6H8N2	o-phenylenediamine	95-54-5	3.740
5506	C5H10O2	tetrahydrofurfuryl alcohol	97-99-4	3.481	7320	C6H8N2	p-phenylenediamine	106-50-3	3.733
5537	C5H10O2S	3-methyl sulfolane	872-93-5	3.499	7321	C6H8N2	phenylhydrazine	100-63-0	3.776
5543	C5H10O3	diethyl carbonate	105-58-8	3.986	7343	C6H8N2O	bis(cyanoethyl) ether	1656-48-0	4.715
5544	C5H10O3	ethyl lactate	97-64-3	3.622	7446	C6H8O4	dimethyl maleate	624-48-6	4.952
5620	C5H11Cl	1-chloropentane	543-59-9	3.995	7459	C6H8O6	ascorbic acid	50-81-7	4.891
5669	C5H11N	N-methylpyrrolidine	120-94-5	3.104	7464	C6H8O7	citric acid	77-92-9	4.705
5670	C5H11N	piperidine	110-89-4	3.122	7622	C6H10	cyclohexene	110-83-8	3.157
5675	C5H11NO	tert-butylformamide	2425-74-3	3.507	7629	C6H10	1,5-hexadiene	592-42-7	3.464
5772	C5H12	pentane	109-66-0	3.337	7632	C6H10	cis-2,trans-4-hexadiene	5194-50-3	3.765
5773	C5H12	isopentane	78-78-4	3.324	7634	C6H10	trans-2,trans-4-hexadiene	5194-51-4	3.525
5774	C5H12	neopentane	463-82-1	3.161	7647	C6H10	2,3-dimethyl-1,3-butadiene	513-81-5	3.570
5831	C5H12O	1-pentanol	71-41-0	3.679	7648	C6H10	1-hexyne	693-02-7	3.691
5832	C5H12O	2-pentanol	6032-29-7	3.619	7649	C6H10	2-hexyne	764-35-2	3.718
5833	C5H12O	3-pentanol	584-02-1	3.503	7650	C6H10	3-hexyne	928-49-4	3.966
5834	C5H12O	2-methyl-1-butanol	137-32-6	3.612	7760	C6H10O	cyclohexanone	108-94-1	3.511
5837	C5H12O	3-methyl-1-butanol	123-51-3	3.684	7761	C6H10O	mesityl oxide	141-79-7	3.913
5839	C5H12O	3-methyl-2-butanol	598-75-4	3.480	7813	C6H10O2	epsilon-caprolactone	502-44-3	3.462

Table 17 Radius of Gyration - Organic Compounds

Radius of Gyration					Radius of Gyration				
ID	FORMULA	NAME	CAS No	Angstrom	ID	FORMULA	NAME	CAS No	Angstrom
7814	C6H10O2	ethyl methacrylate	97-63-2	4.197	9078	C6H14O3	trimethylolpropane	77-99-6	4.161
7815	C6H10O2	propyl acrylate	925-60-0	4.336	9092	C6H14O4	triethylene glycol	112-27-6	4.710
7848.1	C6H10O2	isopropyl acrylate	689-12-3	4.030	9100	C6H14O6	sorbitol	50-70-4	5.008
7881	C6H10O3	ethylacetoacetate	141-97-9	4.405	9107	C6H14S	hexyl mercaptan	111-31-9	4.252
7882	C6H10O3	propionic anhydride	123-62-6	4.295	9173	C6H15N	hexylamine	111-26-2	4.073
7917	C6H10O4	adipic acid	124-04-9	4.976	9202	C6H15N	di-propylamine	142-84-7	3.976
7918	C6H10O4	diethyl oxalate	95-92-1	4.668	9203	C6H15N	diisopropylamine	108-18-9	3.806
7919	C6H10O4	ethylene glycol diacetate	111-55-7	4.867	9212	C6H15N	triethylamine	121-44-8	3.730
7920	C6H10O4	ethylidene diacetate	542-10-9	4.481	9213	C6H15NO	6-aminohexanol	4048-33-3	4.348
7953.1	C6H10O5	dilactic acid	19201-34-4	4.779	9230	C6H15NO2	diisopropanolamine	110-97-4	4.694
8088	C6H11N	hexanenitrile	628-73-9	3.971	9239	C6H15NO3	triethanolamine	102-71-6	5.219
8101	C6H11NO	epsilon-caprolactam	105-60-2	3.761	9247	C6H15N3	N-aminoethyl piperazine	140-31-8	4.225
8102	C6H11NO	cyclohexanone oxime	100-64-1	3.286	9268	C6H15O4P	triethyl phosphate	78-40-0	4.949
8214	C6H12	methylcyclopentane	96-37-7	3.299	9292	C6H16N2	hexamethylenediamine	124-09-4	4.483
8215	C6H12	cyclohexane	110-82-7	3.242	9356	C6H18N3OP	hexamethyl phosphoramide	680-31-9	4.515
8216	C6H12	1-hexene	592-41-6	3.660	9359	C6H18N4	triethylene tetramine	112-24-3	4.861
8218	C6H12	cis-2-hexene	7688-21-3	3.760	9508	C7H3ClF3NO2	4-chloro-3-nitrobenzotrifluoride	121-17-5	5.466
8219	C6H12	trans-2-hexene	4050-45-7	3.616	9519	C7H3Cl2F3	2,4-dichlorobenzotrifluoride	320-60-5	5.233
8221	C6H12	cis-3-hexene	7642-09-3	3.649	9527	C7H3Cl2NO	3,4-dichlorophenyl isocyanate	102-36-3	5.290
8222	C6H12	trans-3-hexene	13269-52-8	3.649	9684	C7H4ClF3	p-chlorobenzotrifluoride	98-56-6	4.799
8223	C6H12	2-methyl-1-pentene	763-29-1	3.704	9736	C7H4Cl2O	m-chlorobenzoyl chloride	618-46-2	5.002
8224	C6H12	3-methyl-1-pentene	760-20-3	3.557	9799	C7H4F3NO2	3-nitrobenzotrifluoride	98-46-4	5.078
8225	C6H12	4-methyl-1-pentene	691-37-2	3.679	9927	C7H5ClO	benzoyl chloride	98-88-4	4.267
8227	C6H12	4-methyl-cis-2-pentene	691-38-3	3.621	9932	C7H5ClO2	o-chlorobenzoic acid	118-91-2	4.537
8228	C6H12	4-methyl-trans-2-pentene	674-76-0	3.766	9967	C7H5Cl3	benzotrichloride	98-07-7	4.579
8229	C6H12	2-methyl-2-pentene	625-27-4	3.738	10003	C7H5F3	benzotrifluoride	98-08-8	4.161
8230	C6H12	3-methyl-cis-2-pentene	922-62-3	3.589	10045	C7H5N	benzonitrile	100-47-0	3.800
8233	C6H12	2,3-dimethyl-1-butene	563-78-0	3.628	10049	C7H5NO	phenyl isocyanate	103-71-9	4.073
8234	C6H12	2,3-dimethyl-2-butene	563-79-1	3.577	10118	C7H5N3O6	2,4,6-trinitrotoluene	118-96-7	5.766
8235	C6H12	3,3-dimethyl-1-butene	558-37-2	3.341	10252	C7H6Cl2	benzyl dichloride	98-87-3	4.580
8236	C6H12	2-ethyl-1-butene	760-21-4	3.625	10253	C7H6Cl2	2,4-dichlorotoluene	95-73-8	4.668
8293.1	C6H12Cl3O3P	bis-2-chloroethyl-2-chloroethyl phosphonate	6294-34-4	6.594	10363	C7H6N2O4	2,4-dinitrotoluene	121-14-2	5.070
8315	C6H12N2	triethylenediamine	280-57-9	3.234	10364	C7H6N2O4	2,5-dinitrotoluene	619-15-8	4.997
8394	C6H12O	butyl vinyl ether	111-34-2	3.806	10365	C7H6N2O4	2,6-dinitrotoluene	606-20-2	4.887
8400	C6H12O	cyclohexanol	108-93-0	3.601	10366	C7H6N2O4	3,4-dinitrotoluene	610-39-9	4.859
8401	C6H12O	hexanal	66-25-1	3.924	10367	C7H6N2O4	3,5-dinitrotoluene	618-85-9	5.314
8409	C6H12O	2-hexanone	591-78-6	4.093	10404	C7H6O	benzaldehyde	100-52-7	3.751
8410	C6H12O	3-hexanone	589-38-8	4.009	10408	C7H6O2	benzoic acid	65-85-0	4.059
8411	C6H12O	3-methyl-2-pentanone	565-61-7	3.828	10409	C7H6O2	p-hydroxybenzaldehyde	123-08-0	4.040
8413	C6H12O	ethyl isopropyl ketone	565-69-5	3.892	10410	C7H6O2	salicylaldehyde	90-02-8	4.184
8460	C6H12O2	hexanoic acid	142-62-1	4.404	10420	C7H6O3	salicylic acid	69-72-7	4.251
8461	C6H12O2	2-ethyl butyric acid	88-09-5	4.126	10462	C7H7Br	p-bromotoluene	106-38-7	3.891
8468	C6H12O2	pentyl formate	638-49-3	4.159	10492	C7H7Cl	benzyl chloride	100-44-7	4.027
8476	C6H12O2	butyl acetate	123-86-4	4.261	10493	C7H7Cl	o-chlorotoluene	95-49-8	3.981
8477	C6H12O2	isobutyl acetate	110-19-0	4.276	10494	C7H7Cl	p-chlorotoluene	106-43-4	3.972
8478	C6H12O2	sec-butyl acetate	105-46-4	4.055	10611	C7H7NO	formanilide	103-70-8	4.113
8479	C6H12O2	tert-butyl acetate	540-88-5	3.845	10626	C7H7NO2	m-nitrotoluene	99-08-1	4.468
8480	C6H12O2	propyl propanoate	106-36-5	4.311	10627	C7H7NO2	o-nitrotoluene	88-72-2	4.309
8482	C6H12O2	ethyl butanoate	105-54-4	4.298	10628	C7H7NO2	p-nitrotoluene	99-99-0	4.371
8483	C6H12O2	ethyl isobutanoate	97-62-1	4.211	10660	C7H7NO3	o-nitroanisole	91-23-6	4.502
8484	C6H12O2	cyclohexyl peroxide	766-07-4	3.861	10725	C7H8	toluene	108-88-3	3.472
8485	C6H12O2	diacetone alcohol	123-42-2	3.905	10850	C7H8O	anisole	100-66-3	3.719
8531	C6H12O3	2-ethoxyethyl acetate	111-15-9	4.664	10851	C7H8O	benzyl alcohol	100-51-6	3.813
8532	C6H12O3	hydroxycaproic acid	1191-25-9	4.727	10852	C7H8O	m-cresol	108-39-4	3.870
8533	C6H12O3	paraldehyde	123-63-7	4.166	10853	C7H8O	o-cresol	95-48-7	3.787
8742	C6H13N	cyclohexylamine	108-91-8	3.539	10854	C7H8O	p-cresol	106-44-5	3.762
8745	C6H13N	hexamethyleneimine	111-49-9	3.491	10866	C7H8O2	guaiacol	90-05-1	4.020
8877	C6H14	hexane	110-54-3	3.769	10867	C7H8O2	p-methoxyphenol	150-76-5	4.040
8878	C6H14	2,2-dimethylbutane	75-83-2	3.476	10953	C7H9N	benzylamine	100-46-9	3.837
8879	C6H14	2,3-dimethylbutane	79-29-8	3.636	10954	C7H9N	N-methylaniline	100-61-8	3.782
8880	C6H14	2-methylpentane	107-83-5	3.784	10955	C7H9N	m-toluidine	108-44-1	3.876
8881	C6H14	3-methylpentane	96-14-0	3.695	10956	C7H9N	o-toluidine	95-53-4	3.774
8944	C6H14N2O2	lysine	56-87-1	5.191	10957	C7H9N	p-toluidine	106-49-0	3.783
8970	C6H14O	1-hexanol	111-27-3	4.144	10961	C7H9N	2,6-dimethylpyridine	108-48-5	3.861
8971	C6H14O	2-hexanol	626-93-7	3.787	11047	C7H10	2-norbornene	498-66-8	2.957
8973	C6H14O	2-methyl-1-pentanol	105-30-6	3.967	11079	C7H10N2	m-toluenediamine	95-80-7	4.165
8976	C6H14O	4-methyl-2-pentanol	108-11-2	3.843	11275	C7H11NO	cyclohexyl isocyanate	3173-53-3	4.229
8981	C6H14O	2-ethyl-1-butanol	97-95-0	3.906	11450	C7H12O2	butyl acrylate	141-32-2	4.765
8993	C6H14O	dipropyl ether	111-43-3	3.914	11450.1	C7H12O2	sec-butyl acrylate	8/5/2998	4.344
8995	C6H14O	diisopropyl ether	108-20-3	3.906	11451	C7H12O2	isobutyl acrylate	106-63-8	4.585
9002	C6H14O	methyl tert-pentyl ether	994-05-8	3.465	11452	C7H12O2	propyl methacrylate	2210-28-8	4.631
9004	C6H14O	ethyl butyl ether	628-81-9	3.932	11530	C7H12O4	diethyl malonate	105-53-3	4.710
9020	C6H14O2	acetal	105-57-7	4.329	11696	C7H14	ethylcyclopentane	1640-89-7	3.734
9021	C6H14O2	2-butoxyethanol	111-76-2	4.192	11697	C7H14	1,1-dimethylcyclopentane	1638-26-2	3.430
9022	C6H14O2	hexylene glycol	107-41-5	3.918	11699	C7H14	cis-1,2-dimethylcyclopentane	1192-18-3	3.617
9027	C6H14O2	1,6-hexanediol	629-11-8	4.428	11700	C7H14	trans-1,2-dimethylcyclopentane	822-50-4	3.607
9069	C6H14O2S	dipropyl sulfone	598-03-8	4.706	11702	C7H14	cis-1,3-dimethylcyclopentane	2532-58-3	3.633
9075	C6H14O3	diethylene glycol dimethyl ether	111-96-6	4.413	11703	C7H14	trans-1,3-dimethylcyclopentane	1759-58-6	3.644
9076	C6H14O3	dipropylene glycol	25265-71-8	4.621	11704	C7H14	methylcyclohexane	108-87-2	3.643
9077	C6H14O3	2-(2-ethoxyethoxy)ethanol	111-90-0	4.433	11705	C7H14	cycloheptane	291-64-5	3.555

Table 17 Radius of Gyration - Organic Compounds

Radius of Gyration					Radius of Gyration				
ID	FORMULA	NAME	CAS No	Angstrom	ID	FORMULA	NAME	CAS No	Angstrom
11706	C7H14	1-heptene	592-76-7	4.083	13926	C8H10O	3,5-xylenol	108-68-9	4.318
11708	C7H14	cis-2-heptene	6443-92-1	4.138	13985.1	C8H10O2	ethylbenzene hydroperoxide	3071-32-7	4.488
11709	C7H14	trans-2-heptene	14686-13-6	4.138	14082	C8H11N	N,N-dimethylaniline	121-69-7	4.076
11712	C7H14	cis-3-heptene	7642-10-6	4.024	14083	C8H11N	o-ethylaniline	578-54-1	4.157
11713	C7H14	trans-3-heptene	14686-14-7	4.031	14096	C8H11N	2,4,6-trimethylpyridine	108-75-8	4.306
11714	C7H14	2-methyl-1-hexene	6094-02-6	4.199	14124	C8H11NO	p-phenetidine	156-43-4	4.414
11715	C7H14	3-methyl-1-hexene	3404-61-3	4.201	14228	C8H12	1,5-cyclooctadiene	111-78-4	3.732
11716	C7H14	4-methyl-1-hexene	3769-23-1	3.972	14230.1	C8H12	methylnorbornene	694-92-8	3.548
11729	C7H14	2-ethyl-1-pentene	3404-71-5	4.181	14231	C8H12	vinylcyclohexene	100-40-3	3.869
11730	C7H14	3-ethyl-1-pentene	4038-04-4	3.950	14379	C8H12O4	1,4-cyclohexanedicarboxylic acid	619-82-9	4.901
11744	C7H14	2,3,3-trimethyl-1-butene	594-56-9	3.584	14380	C8H12O4	diethyl maleate	141-05-9	5.242
11827	C7H14O	1-heptanal	111-71-7	4.314	14413.1	C8H12S	3-ethyl-2,5-dimethylthiophene	55735-23-4	4.301
11828.1	C7H14O	2-methylhexanal	925-54-2	4.584	14599	C8H14O2	butyl methacrylate	97-88-1	5.125
11829	C7H14O	2-heptanone	110-43-0	4.498	14654.1	C8H14O2	2-oxolan-2-yloxolane	106538-38-9	4.321
11834	C7H14O	5-methyl-2-hexanone	110-12-3	4.329	14659	C8H14O3	butyric anhydride	106-31-0	4.936
11843	C7H14O	2,4-dimethyl-3-pentanone	565-80-0	3.904	14688	C8H14O4	diethyl succinate	123-25-1	5.150
11844	C7H14O	1-methylcyclohexanol	590-67-0	3.670	14861	C8H16	propylcyclopentane	2040-96-2	4.135
11845	C7H14O	cis-2-methylcyclohexanol	7443-70-1	3.821	14863	C8H16	1-methyl-1-ethylcyclopentane	16747-50-5	3.773
11846	C7H14O	trans-2-methylcyclohexanol	7443-52-9	3.824	14877	C8H16	ethylcyclohexane	1678-91-7	3.932
11847	C7H14O	cis-3-methylcyclohexanol	5454-79-5	3.931	14878	C8H16	1,1-dimethylcyclohexane	590-66-9	3.668
11848	C7H14O	trans-3-methylcyclohexanol	7443-55-2	3.937	14880	C8H16	cis-1,2-dimethylcyclohexane	2207-01-4	3.759
11849	C7H14O	cis-4-methylcyclohexanol	7731-28-4	3.869	14881	C8H16	trans-1,2-dimethylcyclohexane	6876-23-9	3.883
11850	C7H14O	trans-4-methylcyclohexanol	7731-29-5	3.854	14883	C8H16	cis-1,3-dimethylcyclohexane	638-04-0	3.972
11884	C7H14O2	heptanoic acid	111-14-8	4.842	14884	C8H16	trans-1,3-dimethylcyclohexane	2207-03-6	3.982
11892	C7H14O2	pentyl acetate	628-63-7	4.772	14886	C8H16	cis-1,4-dimethylcyclohexane	624-29-3	3.905
11895	C7H14O2	isopentyl acetate	123-92-2	4.656	14887	C8H16	trans-1,4-dimethylcyclohexane	2207-04-7	3.907
11901	C7H14O2	butyl propanoate	590-01-2	4.822	14890	C8H16	1-octene	111-66-0	4.457
11905	C7H14O2	propyl butanoate	105-66-8	4.832	14893	C8H16	trans-2-octene	13389-42-9	4.375
11909	C7H14O2	ethyl isovalerate	108-64-5	4.481	14895	C8H16	trans-3-octene	14919-01-8	4.415
11927.1	C7H14O2	allyl-tert-butylperoxide	39972-78-6	4.347	14898	C8H16	trans-4-octene	14850-23-8	4.419
11927.2	C7H14O2	neoheptanoic acid	1185-39-3	4.309	14929	C8H16	2-ethyl-1-hexene	1632-16-2	4.579
11931	C7H14O3	ethyl-3-ethoxypropionate	763-69-9	5.086	14979	C8H16	2,4,4-trimethyl-1-pentene	107-39-1	3.994
11934.1	C7H14O3	propylene glycol ethyl ether acetate	54839-24-6	4.665	14986	C8H16	2,4,4-trimethyl-2-pentene	107-40-4	4.136
11982	C7H15Br	1-bromoheptane	629-04-9	4.485	15062	C8H16O	2-ethylhexanal	123-05-7	4.862
12024	C7H15N	N-methylcyclohexylamine	100-60-7	3.888	15063	C8H16O	1-octanal	124-13-0	4.681
12112	C7H16	heptane	142-82-5	4.173	15066	C8H16O	2-octanone	111-13-7	4.892
12113	C7H16	2-methylhexane	591-76-4	4.167	15156	C8H16O2	octanoic acid	124-07-2	5.211
12114	C7H16	3-methylhexane	589-34-4	4.078	15160	C8H16O2	hexyl acetate	142-92-7	5.160
12115	C7H16	3-ethylpentane	617-78-7	3.943	15175	C8H16O2	butyl butanoate	109-21-7	5.887
12116	C7H16	2,2-dimethylpentane	590-35-2	3.922	15177	C8H16O2	isobutyl isobutyrate	97-85-8	4.768
12117	C7H16	2,3-dimethylpentane	565-59-3	3.917	15232	C8H16O4	diethylene glycol ethyl ether acetate	112-15-2	5.692
12118	C7H16	2,4-dimethylpentane	108-08-7	3.931	15354	C8H18	octane	111-65-9	4.546
12119	C7H16	3,3-dimethylpentane	562-49-2	3.768	15355	C8H18	2-methylheptane	592-27-8	4.570
12120	C7H16	2,2,3-trimethylbutane	464-06-2	3.960	15356	C8H18	3-methylheptane	589-81-1	4.490
12164	C7H16O	1-heptanol	111-70-6	4.380	15357	C8H18	4-methylheptane	589-53-7	4.520
12165	C7H16O	2-heptanol	543-49-7	4.483	15358	C8H18	3-methyl-3-ethylpentane	1067-08-9	3.928
12171	C7H16O	5-methyl-1-hexanol	627-98-5	4.563	15359	C8H18	3-ethylhexane	619-99-8	4.571
12212.1	C7H16O	isopropyl isobutyl ether	78448-33-6	4.333	15361	C8H18	2,2-dimethylhexane	590-73-8	4.392
12275.1	C7H16O2	propylene glycol 2-tert-butyl ether	94023-15-1	4.444	15362	C8H18	2,3-dimethylhexane	584-94-1	4.363
12275.2	C7H16O2	diethylene glycol monopropyl ether	6881-94-3	4.821	15363	C8H18	2,4-dimethylhexane	589-43-5	4.267
12300	C7H16S	heptyl mercaptan	1639-09-4	4.642	15364	C8H18	2,5-dimethylhexane	592-13-2	4.452
12315	C7H17N	heptylamine	111-68-2	4.423	15365	C8H18	3,3-dimethylhexane	563-16-6	3.717
12520	C8H4Cl2O2	isophthaloyl chloride	99-63-8	5.520	15366	C8H18	3,4-dimethylhexane	583-48-2	4.230
12594	C8H4O3	phthalic anhydride	85-44-9	4.383	15367	C8H18	2,2,3-trimethylpentane	564-02-3	3.913
12934	C8H6O4	isophthalic acid	121-91-5	5.080	15368	C8H18	2,2,4-trimethylpentane	540-84-1	4.091
12935	C8H6O4	phthalic acid	88-99-3	4.763	15369	C8H18	2,3,3-trimethylpentane	560-21-4	3.960
12936	C8H6O4	terephthalic acid	100-21-0	4.969	15370	C8H18	2,3,4-trimethylpentane	565-75-3	4.061
12947	C8H6S	benzothiophene	95-15-8	3.984	15430	C8H18O	1-octanol	111-87-5	4.787
13107	C8H7N	indole	120-72-9	3.781	15431	C8H18O	2-octanol	123-96-6	4.898
13237	C8H8	styrene	100-42-5	3.810	15454	C8H18O	2-ethyl-1-hexanol	104-76-7	4.809
13391	C8H8O	acetophenone	98-86-2	4.090	15527	C8H18O	dibutyl ether	142-96-1	4.797
13392	C8H8O	p-tolualdehyde	104-87-0	4.133	15528	C8H18O	di-sec-butyl ether	6863-58-7	4.373
13412	C8H8O2	methyl benzoate	93-58-3	4.362	15529	C8H18O	di-tert-butyl ether	6163-66-2	4.014
13413	C8H8O2	o-toluic acid	118-90-1	4.387	15556	C8H18O2	di-t-butyl peroxide	110-05-4	4.534
13414	C8H8O2	p-toluic acid	99-94-5	4.350	15571	C8H18O2S	dibutyl sulfone	598-04-9	5.482
13445	C8H8O3	methyl salicylate	119-36-8	4.468	15578	C8H18O3	diethylene glycol diethyl ether	112-36-7	5.511
13446	C8H8O3	vanillin	121-33-5	4.704	15579	C8H18O3	diethylene glycol monobutyl ether	112-34-5	5.106
13671	C8H9NO	acetanilide	103-84-4	4.345	15587.1	C8H18O3	dipropylene glycol monoethyl ether	30025-38-8	5.121
13789	C8H10	ethylbenzene	100-41-4	3.897	15591	C8H18O4	triethylene glycol dimethyl ether	112-49-2	5.414
13790	C8H10	o-xylene	95-47-6	3.836	15598	C8H18O5	tetraethylene glycol	112-60-7	5.602
13791	C8H10	m-xylene	108-38-3	3.937	15602	C8H18S	octyl mercaptan	111-88-6	5.014
13792	C8H10	p-xylene	106-42-3	3.831	15604	C8H18S	tert-octyl mercaptan	141-59-3	4.264
13912	C8H10O	phenetole	103-73-1	4.174	15631	C8H19N	octylamine	111-86-4	4.790
13913	C8H10O	2-phenylethanol	60-12-8	4.279	15637	C8H19N	dibutylamine	111-92-2	4.723
13920	C8H10O	p-ethylphenol	123-07-9	4.130	15638	C8H19N	diisobutylamine	110-96-3	4.735
13921	C8H10O	2,3-xylenol	526-75-0	4.069	15747	C8H23N5	tetraethylenepentamine	112-57-2	6.374
13922	C8H10O	2,4-xylenol	105-67-9	4.143	15803	C9H4O5	trimellitic anhydride	552-30-7	5.362
13923	C8H10O	2,5-xylenol	95-87-4	4.128	15903	C9H6N2O2	toluene diisocyanate	584-84-9	5.894
13924	C8H10O	2,6-xylenol	576-26-1	4.068	16010	C9H7N	isoquinoline	119-65-3	4.013
13925	C8H10O	3,4-xylenol	95-65-8	4.156	16011	C9H7N	quinoline	91-22-5	4.008

Table 17 Radius of Gyration - Organic Compounds

Radius of Gyration					Radius of Gyration				
ID	FORMULA	NAME	CAS No	Angstrom	ID	FORMULA	NAME	CAS No	Angstrom
16018	C9H7NO	8-hydroxyquinoline	148-24-3	4.312	19870	C10H14	m-cymene	535-77-3	4.636
16090	C9H8	indene	95-13-6	3.839	19871	C10H14	o-cymene	527-84-4	4.439
16185	C9H8O	2-methylbenzofuran	4265-25-2	1.114	19872	C10H14	p-cymene	99-87-6	4.557
16246.1	C9H8S	2-methyl benzothiophene	1195-14-8	4.207	19878	C10H14	o-diethylbenzene	135-01-3	4.398
16508	C9H10	indane	496-11-7	3.850	19879	C10H14	m-diethylbenzene	141-93-5	4.742
16512	C9H10	alpha-methylstyrene	98-83-9	4.147	19880	C10H14	p-diethylbenzene	105-05-5	4.580
16513	C9H10	m-methylstyrene	100-80-1	4.265	19881	C10H14	3-ethyl-o-xylene	933-98-2	4.517
16514	C9H10	o-methylstyrene	611-15-4	4.029	19882	C10H14	4-ethyl-o-xylene	934-80-5	4.552
16515	C9H10	p-methylstyrene	622-97-9	4.109	19883	C10H14	2-ethyl-m-xylene	2870-04-4	4.415
16676	C9H10O2	ethyl benzoate	93-89-0	4.765	19884	C10H14	4-ethyl-m-xylene	874-41-9	4.543
16680	C9H10O2	benzyl acetate	140-11-4	4.716	19885	C10H14	5-ethyl-m-xylene	934-74-7	4.721
16707.1	C9H10O2	phenyl ethyl formate	7775-38-4	4.799	19886	C10H14	2-ethyl-p-xylene	1758-88-9	4.579
16711	C9H10O3	ethyl vanillin	121-32-4	5.180	19888	C10H14	1,2,3,5-tetramethylbenzene	527-53-7	4.516
16905	C9H11NO	p-dimethylaminobenzaldehyde	100-10-7	4.667	19889	C10H14	1,2,4,5-tetramethylbenzene	95-93-2	4.502
17004	C9H12	cumene	98-82-8	4.322	19992	C10H14O	4-tert-butylphenol	98-54-4	4.614
17005	C9H12	m-ethyltoluene	620-14-4	4.265	20089	C10H14O2	p-tert-butylcatechol	98-29-3	4.941
17006	C9H12	o-ethyltoluene	611-14-3	4.084	20195	C10H15N	N,N-diethylaniline	91-66-7	4.639
17007	C9H12	p-ethyltoluene	622-96-8	4.189	20196	C10H15N	2,6-diethylaniline	579-66-8	4.730
17008	C9H12	1,2,3-trimethylbenzene	526-73-8	4.127	20315	C10H16	camphene	79-92-5	3.778
17009	C9H12	1,2,4-trimethylbenzene	95-63-6	4.199	20316	C10H16	D-limonene	5989-27-5	4.508
17011	C9H12	mesitylene	108-67-8	4.375	20319	C10H16	alpha-phellandrene	99-83-2	4.458
17012	C9H12	propylbenzene	103-65-1	4.344	20320	C10H16	beta-phellandrene	555-10-2	4.441
17077	C9H12O	benzyl ethyl ether	539-30-0	4.581	20321	C10H16	alpha-pinene	80-56-8	3.418
17090	C9H12O	2-phenyl-2-propanol	617-94-7	4.285	20323	C10H16	beta-pinene	127-91-3	3.617
17138	C9H12O2	cumene hydroperoxide	80-15-9	4.532	20325	C10H16	alpha-terpinene	99-86-5	4.620
17395.1	C9H14	ethylnorbene	15403-89-1	3.981	20326	C10H16	gamma-terpinene	99-85-4	4.615
17395.2	C9H14	1-methyl-4-vinylcyclohexene	17699-86-4	4.266	20327	C10H16	terpinolene	586-62-9	4.567
17395.3	C9H14	propenyl cyclohexene	13511-13-2	4.338	20423	C10H16O	camphor	76-22-2	4.097
17436	C9H14O	isophorone	78-59-1	4.276	20601	C10H18	cis-decahydronaphthalene	493-01-6	4.206
17513	C9H14O6	glyceryl triacetate	102-76-1	6.778	20602	C10H18	trans-decahydronaphthalene	493-02-7	4.314
17518.1	C9H14O7	trilatic acid	78024-33-6	5.912	20820	C10H18O4	sebacic acid	111-20-6	6.586
17755	C9H16O4	azelaic acid	123-99-9	6.283	20923	C10H20	butylcyclohexane	1678-93-9	4.831
17916	C9H18	propylcyclohexane	1678-92-8	4.367	20943	C10H20	1-decene	872-05-9	5.227
17917	C9H18	isopropylcyclohexane	696-29-7	4.237	20947.1	C10H20	cis-2-decene	20348-51-0	5.338
17942	C9H18	1-nonene	124-11-8	4.873	20947.2	C10H20	trans-2-decene	20063-97-2	5.398
17948.1	C9H18	7-methyl-1-octene	13151-06-9	4.899	20947.3	C10H20	8-methyl-1-nonene	26741-24-2	5.273
17997	C9H18O	1-nonanal	124-19-6	5.038	20947.4	C10H20	1,1-diethylcyclohexane	78-01-3	4.483
17998	C9H18O	diisobutyl ketone	108-83-8	4.614	20947.5	C10H20	1,2,3,4-tetramethylcyclohexane	3726-45-2	4.518
18052	C9H18O2	nonanoic acid	112-05-0	5.732	20992	C10H20O	decanal	112-31-2	5.378
18058	C9H18O2	octyl formate	112-32-3	5.279	21040	C10H20O2	decanoic acid	334-48-5	5.932
18071	C9H18O2	butyl valerate	591-68-4	5.615	21044	C10H20O2	2-ethylhexyl acetate	103-09-3	5.895
18099.1	C9H18O3	triacetone alcohol	3682-91-5	5.093	21052	C10H20O2	isopentyl isovalerate	659-70-1	5.586
18176	C9H20	nonane	111-84-2	4.985	21133	C10H22	decane	124-18-5	5.184
18177	C9H20	2-methyloctane	3221-61-2	4.973	21134	C10H22	2-methylnonane	871-83-0	5.429
18178	C9H20	3-methyloctane	2216-33-3	5.020	21135	C10H22	3-methylnonane	5911-04-6	5.286
18179	C9H20	4-methyloctane	2216-34-4	4.772	21136	C10H22	4-methylnonane	17301-94-9	5.448
18180	C9H20	3-ethylheptane	15869-80-4	4.953	21137	C10H22	5-methylnonane	15869-85-9	5.318
18182	C9H20	2,2-dimethylheptane	1071-26-7	4.845	21140	C10H22	2,2-dimethyloctane	15869-87-1	5.223
18186	C9H20	2,6-dimethylheptane	1072-05-5	4.540	21224	C10H22O	1-decanol	112-30-1	5.499
18196	C9H20	2,2,5-trimethylhexane	3522-94-9	4.658	21225	C10H22O	isodecanol	25339-17-7	5.684
18202	C9H20	3,3-diethylpentane	1067-20-5	4.314	21335	C10H22O	di-pentyl ether	693-65-2	5.374
18203	C9H20	2,2-dimethyl-3-ethylpentane	16747-32-3	4.396	21380	C10H22O5	tetraethylene glycol dimethyl ether	143-24-8	6.277
18205	C9H20	2,4-dimethyl-3-ethylpentane	1068-87-7	4.371	21385	C10H22S	decyl mercaptan	143-10-2	5.712
18206	C9H20	2,2,3,3-tetramethylpentane	7154-79-2	4.100	21400	C10H23N	decylamine	2016-57-1	5.477
18207	C9H20	2,2,3,4-tetramethylpentane	1186-53-4	4.160	21601	C11H10	1-methylnaphthalene	90-12-0	4.435
18208	C9H20	2,2,4,4-tetramethylpentane	1070-87-7	4.860	21602	C11H10	2-methylnaphthalene	91-57-6	4.426
18236	C9H20O	1-nonanol	143-08-8	5.108	21791.1	C11H12	p-isopropylenylstyrene	16262-48-9	4.743
18237	C9H20O	2-nonanol	628-99-9	5.302	22113	C11H14O2	butyl benzoate	136-60-7	5.505
18288	C9H20O	2,6-dimethyl-4-heptanol	108-82-7	4.915	22304	C11H16	pentylbenzene	538-68-1	5.168
18365	C9H20S	nonyl mercaptan	1455-21-6	5.344	22399	C11H16O	p-tert-amylphenol	80-46-6	4.810
18388	C9H21N	nonylamine	112-20-9	5.143	22701	C11H20O2	2-ethylhexyl acrylate	103-11-7	6.265
18393	C9H21N	tripropylamine	102-69-2	5.270	22795	C11H22	1-undecene	821-95-4	5.429
18598	C10H6O8	pyromellitic acid	89-05-4	5.983	22822	C11H22O	undecanal	112-44-7	5.711
18601	C10H7Br	1-bromonaphthalene	90-11-9	4.661	22890	C11H24	undecane	1120-21-4	5.496
18606	C10H7Cl	1-chloronaphthalene	90-13-1	4.627	23055	C11H24O	1-undecanol	112-42-5	5.808
18669	C10H8	naphthalene	91-20-3	4.045	23081.1	C11H24O4	tripropylene glycol monoethyl ether	75899-69-3	6.213
18849	C10H9N	2-methylquinoline	91-63-4	4.378	23084	C11H24S	1-undecanethiol	5332-52-5	6.069
18958	C10H10	m-divinylbenzene	108-57-6	4.419	23335	C12H8O	dibenzofuran	132-64-9	4.710
18963	C10H10	1-methylindene	767-59-9	4.230	23394	C12H9N	dibenzopyrrole	86-74-8	4.692
18964	C10H10	2-methylindene	2177-47-1	4.223	23437.1	C12H9N3O4	4,4'-dinitrodiphenylamine	1821-27-8	7.048
19195	C10H10O4	dimethyl phthalate	131-11-3	5.166	23444	C12H10	acenaphthene	83-32-9	4.468
19196	C10H10O4	dimethyl terephthalate	120-61-6	5.394	23445	C12H10	phenylbenzene (biphenyl)	92-52-4	4.834
19358	C10H12	1,3-dicyclopentadiene	77-73-6	3.981	23519	C12H10O	diphenyl ether	101-84-8	4.986
19359	C10H12	1,2,3,4-tetrahydronaphthalene	119-64-2	4.162	23607	C12H11N	p-aminodiphenyl	92-67-1	5.027
19484	C10H12O	anethole	104-46-1	4.717	23609	C12H11N	diphenylamine	122-39-4	5.082
19675	C10H12O4	diallyl maleate	999-21-3	6.266	23656	C12H11N3	p-aminoazobenzene	60-09-3	5.663
19865	C10H14	butylbenzene	104-51-8	4.849	23657	C12H11N3	1,3-diphenyltriazene	136-35-6	6.005
19866	C10H14	isobutylbenzene	538-93-2	4.555	23683	C12H12	2,6-dimethylnaphthalene	581-42-0	4.729
19867	C10H14	sec-butylbenzene	135-98-8	4.564	23684	C12H12	2,7-dimethylnaphthalene	582-16-1	4.804
19868	C10H14	tert-butylbenzene	98-06-6	4.318	23685	C12H12	1-ethylnaphthalene	1127-76-0	4.754

Table 17 Radius of Gyration - Organic Compounds

Radius of Gyration					Radius of Gyration				
ID	FORMULA	NAME	CAS No	Angstrom	ID	FORMULA	NAME	CAS No	Angstrom
23718	C12H12N2	p-aminodiphenylamine	101-54-2	5.327	28757	C15H24O	nonylphenol	25154-52-3	7.058
23719	C12H12N2	hydrazobenzene	122-66-7	5.544	28859	C15H30	1-pentadecene	13360-61-7	6.637
23887	C12H14	1,2,3-trimethylindene	4773-83-5	4.780	28862.1	C15H30	trans-2-pentadecene	74392-36-2	7.026
24002	C12H14O4	diethyl phthalate	84-66-2	5.832	28879	C15H30O2	pentadecanoic acid	1002-84-2	7.567
24022.1	C12H14O6	terephthalic acid diethylene glycol ester	959-26-2	7.220	28904	C15H32	pentadecane	629-62-9	6.729
24111	C12H16	cyclohexylbenzene	827-52-1	4.892	28984	C16H10	fluoranthene	206-44-0	5.357
24139.1	C12H16	4-isobutylstyrene	63444-56-4	5.096	28985	C16H10	pyrene	129-00-0	5.152
24357	C12H18	hexylbenzene	1077-16-3	5.642	29024	C16H12	1-phenylnaphthalene	605-02-7	5.641
24361	C12H18	m-diisopropylbenzene	99-62-7	5.281	29290.1	C16H16O2	trans-3,5-dimethoxystilbene	21956-56-9	5.292
24362	C12H18	p-diisopropylbenzene	100-18-5	5.178	29359.1	C16H18	4-ethyl-bibenzyl	7439-15-8	5.905
24378.1	C12H18	p-tert-butyl ethylbenzene	7364-19-4	5.044	29440	C16H20	1-hexylnaphthalene	2876-53-1	6.518
24378.2	C12H18	1,5,9-cyclododecatriene	706-31-0	5.049	29518	C16H22O4	dibutyl phthalate	84-74-2	7.475
24378.3	C12H18	1,2,3-triethylebenzene	42205-08-3	5.006	29595	C16H26	decylbenzene	104-72-3	7.108
24477.1	C12H18O2	m-diisopropylbenzene hydroperoxide	26762-93-6	5.485	29705	C16H32	decylcyclohexane	1795-16-0	7.225
24477.2	C12H18O2	p-diisopropylbenzene hydroperoxide	98-49-7	5.383	29707	C16H32	1-hexadecene	629-73-2	6.985
24594	C12H20O4	dibutyl maleate	105-76-0	6.463	29721	C16H32O2	hexadecanoic acid	57-10-3	7.725
24652	C12H22	bicyclohexyl	92-51-3	4.917	29754	C16H34	hexadecane	544-76-3	7.063
24782.1	C12H22S	dicyclohexyl sulfide	7133-46-2	5.412	29766	C16H34O	1-hexadecanol	36653-82-4	7.307
24804	C12H23N	dicyclohexylamine	101-83-7	5.317	29771	C16H34O	dioctyl ether	629-82-3	7.360
24823	C12H24	1-dodecene	112-41-4	5.747	30264	C17H28	undecylbenzene	6742-54-7	7.474
24823.1	C12H24	cis-2-dodecene	7206-26-0	6.076	30284	C17H32	1-heptadecyne	26186-00-5	7.325
24823.2	C12H24	trans-2-dodecene	7206-13-5	5.446	30346	C17H36	heptadecane	629-78-7	7.355
24852	C12H24O	dodecanal	112-54-9	6.052	30352	C17H36O	1-heptadecanol	1454-85-9	7.590
24855.1	C12H24O	isobutyl heptyl ketone	123-18-2	5.830	30406	C18H12	chrysene	218-01-9	5.740
24867	C12H24O2	dodecanoic acid	143-07-7	6.601	30456.1	C18H13N3O4	4,4'-dinitrotriphenylamine	1100-1-3	7.653
24885.1	C12H24O3	2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	77-68-9	4.558	30457	C18H14	m-terphenyl	92-06-8	6.506
24914	C12H26	dodecane	112-40-3	5.914	30458	C18H14	o-terphenyl	84-15-1	5.899
25277	C12H26O	1-dodecanol	112-53-8	6.119	30459	C18H14	p-terphenyl	92-94-4	6.371
25285	C12H26O	dihexyl ether	112-58-3	5.693	30566	C18H15O4P	triphenyl phosphate	115-86-6	7.103
25294	C12H26O3	diethylene glycol dibutyl ether	112-73-2	6.449	30567	C18H15P	triphenylphosphine	603-35-0	5.601
25310	C12H26S	1-dodecanethiol	112-55-0	6.374	30588	C18H16N2	N,N'-diphenyl-p-phenylenediamine	74-31-7	6.755
25340	C12H27N	dodecylamine	124-22-1	6.073	30779	C18H22	2,3-dimethyl-2,3-diphenylbutane	1889-67-4	5.361
25346	C12H27N	tributylamine	102-82-9	6.690	30806	C18H22O2	dicumyl peroxide	80-43-3	6.536
25575	C13H10	fluorene	86-73-7	4.806	30947	C18H30	dodecylbenzene	123-01-3	7.796
25623	C13H10O	benzophenone	119-61-9	5.302	30991	C18H32O2	linoleic acid	60-33-3	10.520
25738	C13H12	diphenylmethane	101-81-5	5.141	31030	C18H34O2	oleic acid	112-80-1	10.430
26283	C13H20	heptylbenzene	1078-71-3	6.040	31041	C18H34O4	dibutyl sebacate	109-43-3	10.290
26469	C13H26	1-tridecene	2437-56-1	6.073	31042	C18H34O4	dihexyl adipate	110-33-8	9.488
26486	C13H26O	1-tridecanal	10486-19-8	6.345	31071	C18H36	1-octadecene	112-88-9	7.589
26502	C13H26O2	butyl nonanoate	50623-57-9	7.273	31097	C18H36O2	octadecanoic acid	57-11-4	8.560
26505	C13H26O2	methyl dodecanoate	111-82-0	6.857	31131	C18H38	octadecane	593-45-3	7.655
26526	C13H28	tridecane	629-50-5	6.198	31140	C18H38O	1-octadecanol	112-92-5	7.930
26535	C13H28O	1-tridecanol	112-70-9	6.417	31143	C18H38O	dinonyl ether	2456-27-1	7.266
26654	C14H8O2	anthraquinone	84-65-1	5.332	31568	C19H26	1-nonylnaphthalene	26438-26-6	7.732
26728	C14H10	anthracene	120-12-7	4.980	31646	C19H32	tridecylbenzene	123-02-4	8.189
26729	C14H10	diphenylacetylene	501-65-5	5.832	31675	C19H36O2	methyl oleate	112-62-9	10.450
26730	C14H10	phenanthrene	85-01-8	4.961	31698	C19H38	1-nonadecene	18435-45-5	7.850
26866	C14H12	cis-stilbene	645-49-8	4.744	31708	C19H38O2	nonadecanoic acid	646-30-0	8.686
26867	C14H12	trans-stilbene	103-30-0	5.627	31735	C19H40	nonadecane	629-92-5	7.983
26942	C14H12O2	benzyl benzoate	120-51-4	6.184	31976	C20H16	triphenylethylene	58-72-0	6.512
26987.1	C14H12O4	dimethyl-2,6-naphthalenedicarboxylate	840-65-3	6.232	32302	C20H28	1-decylnaphthalene	26438-27-7	8.139
27052	C14H14	1,1-diphenylethane	612-00-0	5.437	32346	C20H30O2	abietic acid	514-10-3	6.822
27053	C14H14	1,2-diphenylethane	103-29-7	5.610	32358.1	C20H30O2	isopimaric acid	5835-26-7	6.805
27138	C14H14O	dibenzyl ether	103-50-4	6.078	32367	C20H31N	dehydroabietylamine	1446-61-3	6.103
27267	C14H16	1-butylnaphthalene	1634-09-9	5.680	32391.1	C20H32O2	isoagatholal	17990-11-3	7.029
27289.1	C14H16	2,6-diethylnaphthalene	59919-41-4	5.442	32407.1	C20H34O2	agathadiol	1857-24-5	6.850
27506.1	C14H18O8	di-1-glyceryl terephthalate	66032-51-76	7.730	32436	C20H38	1-eicosyne	765-27-5	8.106
27566.1	C14H20	diamantane	2292-79-7	4.255	32450.1	C20H38O2	cetyl methacrylate	2495-27-4	9.336
27644	C14H22	octylbenzene	2189-60-8	6.498	32476.1	C20H40	trans-2-eicosene	42448-85-1	8.853
27679	C14H22O	p-tert-octylphenol	140-66-9	5.601	32515	C20H42	eicosane	112-95-8	8.364
27850	C14H28	1-tetradecene	1120-36-1	6.398	32522	C20H42O	1-eicosanol	629-96-9	8.414
27873	C14H28O2	tetradecanoic acid	544-63-8	7.265	32787	C21H21O4P	tri-o-cresyl phosphate	78-30-8	6.760
27912	C14H30	tetradecane	629-59-4	6.427	33466	C22H44O2	butyl stearate	123-95-5	9.746
27922	C14H30O	1-tetradecanol	112-72-1	6.730	33924	C24H38O4	diisooctyl phthalate	27554-26-3	10.910
27956	C14H31N	tetradecylamine	2016-42-4	6.704	33925	C24H38O4	dioctyl phthalate	117-84-0	11.000
28029	C15H10N2O2	diphenylmethane-4,4'-diisocyanate	101-68-8	7.119	33931.1	C24H38O4	heptyl nonyl phthalate	19295-81-9	11.510
28135.1	C15H12	1-phenylindene	1961-96-2	5.429	33960	C24H42O	dinonylphenol	1323-65-5	11.660
28429	C15H16O	p-cumylphenol	599-64-4	5.562	34221	C26H20	tetraphenylethylene	632-51-9	7.145
28436	C15H16O2	bisphenol a	80-05-7	6.815	34319.1	C26H42O4	heptyl undecyl phthalate	65185-88-8	12.480
28725	C15H24	nonylbenzene	1081-77-2	6.763	34691	C28H46O4	diisodecyl phthalate	26761-40-0	9.114
28756	C15H24O	2,6-di-tert-butyl-p-cresol	128-37-0	5.598	34922.1	C30H48O6	tri-n-heptyl trimellitate	1528-48-9	14.000

* Use ID or CAS No for complete name (See Chapther 1 of this book).

Chapter 18

RADIUS OF GYRATION – INORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 18. The tabulation is arranged by alphabetical order (Ag, Al, Ar, ..., Zr) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for radius of gyration are given in the adjacent column.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-5). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of Daubert and Danner (1) and Yaws (4-5) were used extensively. The radius of gyration is a helpful indication of the size of a compound. It is ascertained from the moment of inertia and molecular weight. Methods of calculation are described by Wikipedia (3).

Example

In an engineering analysis, the radius of gyration is needed for silicon tetrachloride (SiCl4). Determine the radius of gyration for silicon tetrachloride.

Inspection of the tabulation yields:

radius of gyration = 3.770 Angstrom

References

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2. Landolt, H. and R. Bornstein, ZAHLENWERTE UND FUNKIONEN ANS PHYSIK, CHEMEI, ASTRONOMIE UND TECHNIK, Springer-Verlag, Heidelberg, Germany (1971-2005).
3. web site, Wikipedia, the free encyclopedia, en.wikipedia.org (2007)
4. Yaws, C. L., CHEMICAL PROPERTIES HANDBOOK, McGraw-Hill, New York, NY (1999).
5. Yaws, C. L., YAWS HANDBOOK OF THERMODYNAMIC AND PHYSICAL PROPERTIES OF CHEMICAL COMPOUNDS, electronic edition, www.knovel.com, Knovel, Norwich, NY (2003-present).

Table 18 Radius of Gyration - Inorganic Compounds

Radius of Gyration					Radius of Gyration				
NO	FORMULA	NAME	CAS No	Angstrom	ID	FORMULA	NAME	CAS No	Angstrom
1	Ac	actinium	7440-34-8	0.000	1716	H2SO4	sulfuric acid	7664-93-9	2.537
2	Ag	silver	7440-22-4	0.000	1719	H2Se	hydrogen selenide	7783-07-5	0.455
3	Al	aluminum	7429-90-5	0.000	1722	H3NO	hydroxylamine	7803-49-8	1.339
4	AlCl3	aluminum chloride	7446-70-0	3.660	1723	H3PO2	hypophosphorous acid	6303-21-5	1.979
5	Am	americium	7440-35-9	0.000	1724	H3PO3	phosphorous acid	13598-36-2	2.607
6	Ar	argon	7440-37-1	0.000	1725	H3PO4	phosphoric acid	7664-38-2	2.817
7	As	arsenic	7440-38-3	0.000	1727	H3SNO3	sulfamic acid	5329-14-6	5.692
8	AsH3	arsine	7784-42-1	6.088	1738	He	helium-3	14762-55-1	0.000
9	As2O3	arsenic trioxide	1327-53-3	4.020	1739	He	helium-4	7440-59-7	0.000
10	At	astatine	7440-68-8	0.000	1740	Hf	hafnium	7440-58-6	0.000
11	Au	gold	7440-57-5	0.000	1771	Hg	mercury	7439-97-6	0.000
12	B	boron	7440-42-8	0.000	1841	Ho	holmium	7440-60-0	0.000
13	BBr3	boron tribromide	10294-33-4	3.672	1861	Hs	hassium	54037-57-9	0.000
14	BCl3	boron trichloride	10294-34-5	3.683	1873	I2	iodine	7553-56-2	0.921
15	BF3	boron trifluoride	7637-07-2	3.255	1877	In	indium	7440-74-6	0.000
16	BH3O3	boric acid	10043-35-3	3.948	1917	Ir	iridium	7439-88-5	0.000
17	Ba	barium	7440-39-3	0.000	1960	K	potassium	7440-09-7	0.000
18	Be	beryllium	7440-41-7	0.000	2009	KCl	potassium chloride	7447-40-7	1.326
19	Bh	bohrium	54037-14-8	0.000	2035	KI	potassium iodide	7681-11-0	1.292
20	Bi	bismuth	7440-69-9	0.000	2047	KOH	potassium hydroxide	1310-58-3	1.047
21	Bk	berkelium (a form)	7440-40-6	0.000	2162	Kr	krypton	7439-90-9	0.000
22	Br2	bromine	7726-95-6	0.969	2168	La	lanthanum	7439-91-0	0.000
23	C	graphite	7782-42-5	0.000	2203	Li	lithium	7439-93-2	0.000
24	CCl2O	carbonyl chloride	75-44-5	2.877	2315	Lr	lawrencium	22537-19-5	0.000
25	CF2O	carbonyl fluoride	353-50-4	2.269	2316	Lu	lutetium	7439-94-3	0.000
26	CH4N2O	urea	57-13-6	2.600	2334	Md	mendelevium	7440-11-1	0.000
27	CH4N2S	thiourea	62-56-6	2.833	2335	Mg	magnesium	7439-95-4	0.000
28	CNCl	cyanogen chloride	506-77-4	1.250	2464	Mn	manganese	7439-96-5	0.000
29	CN4O8	tetranitromethane	509-14-8	4.147	2548	Mo	molybdenum	7439-98-7	0.000
30	CO	carbon monoxide	630-08-0	0.558	2604	Mt	meitnerium	54038-01-6	0.000
31	COS	carbonyl sulfide	463-58-1	1.270	2607	NClO	nitrosyl chloride	2696-92-6	1.801
32	CO2	carbon dioxide	124-38-9	1.040	2608	NCl3	nitrogen trichloride	10025-85-1	3.323
33	CS2	carbon disulfide	75-15-0	1.569	2613	NF3	nitrogen trifluoride	7783-54-2	2.385
34	C2N2	cyanogen	460-19-5	1.423	2619	NH3	ammonia	7664-41-7	0.853
35	Ca	calcium	7440-70-2	0.000	2674	NO	nitric oxide	10102-43-9	0.549
36	CaCl2	calcium chloride	10043-52-4	1.999	2676	NO2	nitrogen dioxide	10102-44-0	1.431
37	CaF2	calcium fluoride	7789-75-5	2.295	2678	N2	nitrogen	7727-37-9	0.547
38	CaO	calcium oxide	1305-78-8	0.822	2684	N2F4	tetrafluorohydrazine	10036-47-2	2.879
39	Cd	cadmium	7440-43-9	0.000	2685	N2H4	hydrazine	302-01-2	1.564
40	Ce	cerium	7440-45-1	0.000	2747	N2O	nitrous oxide	10024-97-2	0.954
41	Cf	californium	7440-71-3	0.000	2748	N2O3	nitrogen trioxide	10544-73-7	2.346
42	ClF3	chlorine trifluoride	7790-91-2	2.307	2749	N2O4	nitrogen tetraoxide	10544-72-6	2.918
43	ClO2	chlorine dioxide	10049-04-4	2.803	2781	Na	sodium	7440-23-5	0.000
44	Cl2	chlorine	7782-50-5	0.670	2855	NaCl	sodium chloride	7647-14-5	1.153
45	Cm	curium	7440-51-9	0.000	2864	NaF	sodium fluoride	7681-49-4	9.584
46	Co	cobalt	7440-48-4	0.000	2897	NaOH	sodium hydroxide	1310-73-2	1.285
47	Cr	chromium	7440-47-3	0.000	2974	Na2SO4	sodium sulfate	7757-82-6	3.381
48	Cs	cesium	7440-46-2	0.000	3019	Nb	niobium	7440-03-1	0.000
49	Cu	copper	7440-50-8	0.000	3057	Nd	neodymium	7440-00-8	0.000
50	D2	deuterium	7782-39-0	0.000	3091	Ne	neon	7440-01-9	0.000
51	D2O	deuterium oxide	7789-20-0	0.805	3092	Ni	nickel	7440-02-0	0.000
52	Db	dubnium	53850-35-4	0.000	3181	No	nobelium	10028-14-5	0.000
53	Dy	dysprosium	7429-91-6	0.000	3182	Np	neptunium	7439-99-8	0.000
54	Er	erbium	7440-52-0	0.000	3198	O2	oxygen	7782-44-7	0.680
55	Es	einsteinium	7429-92-7	0.000	3199	O3	ozone	10028-15-6	1.606
56	Eu	europium	7440-53-1	0.000	3200	Os	osmium	7440-04-2	0.000
57	FHO3S	fluorosulfonic acid	7789-21-1	2.587	3234	P	phosphorus (white)	7723-14-0	0.000
58	F2	fluorine	7782-41-4	0.908	3235	P	phosphorus (red)	7723-14-0	0.000
59	Fe	iron	7439-89-6	0.000	3236	P	phosphorus (black)	7723-14-0	0.000
60	FeCl2	ferrous chloride	7758-94-3	1.623	3252	PC3H9O4	phosphate, trimethyl	512-56-1	3.640
61	FeCl3	ferric chloride	7705-08-0	3.496	3280	PC6H15O4	phosphate, triethyl	78-40-0	4.949
62	Fm	fermium	7440-72-4	0.000	3282	PC6H18N3O	phosphoramide, hexamethyl	680-31-9	4.515
63	Fr	francium	7440-73-5	0.000	3381	PCl3	phosphorus (iii) chloride	7719-12-2	3.436
64	Ga	gallium	7440-55-3	0.000	3389	PH3	phosphine	7803-51-2	0.854
65	GaC3H9	gallium, trimethyl	1445-79-0	2.592	3396	POCl3	phosphorus oxychloride	10025-87-3	3.398
66	GaCl3	gallium trichloride	13450-90-3	3.479	3398	PSCl3	phosphorus thiochloride	3982-91-0	3.634
67	Gd	gadolinium	7440-54-2	0.000	3449	P2O5	phosphorus pentoxide	1314-56-3	4.446
68	Ge	germanium	7440-56-4	0.000	3451	P2S5	phosphorus (v) sulfide	1314-80-3	5.471
69	HBr	hydrogen bromide	10035-10-6	0.157	3469	Pa	protactinium	7440-13-3	0.000
70	HCN	hydrogen cyanide	74-90-8	0.654	3483	Pb	lead	7439-92-1	0.000
71	HCl	hydrogen chloride	7647-01-0	0.209	3571	Pd	palladium	7440-05-3	0.000
72	HF	hydrogen fluoride	7664-39-3	0.201	3637	Pm	promethium	7440-12-2	0.000
73	HI	hydrogen iodide	10034-85-2	0.142	3641	Po	polonium	7440-08-6	0.000
74	HNO2	nitrous acid	7782-77-6	1.704	3650	Pr	praseodymium	7440-10-0	0.000
75	HNO3	nitric acid	7697-37-2	2.249	3691	Pt	platinum	7440-06-4	0.000
76	HOCl	hypochlorous acid	7790-92-3	1.082	3756	Pu	plutonium	7440-07-5	0.000
77	H2	hydrogen	1333-74-0	0.371	3773	Ra	radium	7440-14-4	0.000
78	H2O	water	7732-18-5	0.615	3781	Rb	rubidium	7440-17-7	0.000
79	H2O2	hydrogen peroxide	7722-84-1	1.242	3828	Re	rhenium	7440-15-5	0.000
80	H2S	hydrogen sulfide	7783-06-4	0.638	3878	Rf	rutherfordium	53850-36-5	0.000

Table 18 Radius of Gyration - Inorganic Compounds

Radius of Gyration					Radius of Gyration				
NO	FORMULA	NAME	CAS No	Angstrom	ID	FORMULA	NAME	CAS No	Angstrom
161	Rg	roentgenium	54386-24-2	0.000	4261	SiH4	silane	7803-62-5	1.074
162	Rh	rhodium	7440-16-6	0.000	4265	SiO2	silicon dioxide (alpha quartz)	14808-60-7	1.131
163	Rn	radon	10043-92-2	0.000	4274	Si2C6H18O	disiloxane, hexamethyl	107-46-0	4.622
164	Ru	ruthenium	7440-18-8	0.000	4289	Si2H6	disilane	1590-87-0	2.256
165	S	sulfur	7704-34-9	0.000	4303	Sm	samarium	7440-19-9	0.000
166	SCl2	sulfur dichloride	10545-99-0	2.578	4332	Sn	tin (white)	7440-31-5	0.000
167	SCl2O	thionyl chloride	7719-09-7	3.473	4333	Sn	tin (gray)	7440-31-5	0.000
168	SOCl2	thionyl chloride	7719-09-7	3.473	4461	Sr	strontium	7440-24-6	0.000
169	SO2	sulfur dioxide	7446-09-5	1.660	4515	T2	tritium	10028-17-8	0.000
170	SO2Cl2	sulfuryl chloride	7791-25-5	3.064	4517	Ta	tantalum	7440-25-7	0.000
171	SO3	sulfur trioxide	7446-11-9	2.189	4550	Tb	terbium	7440-27-9	0.000
172	Sb	antimony	7440-36-0	0.000	4570	Tc	technetium	7440-26-8	0.000
173	SbCl3	antimony trichloride	10025-91-9	3.031	4583	Te	tellurium	13494-80-9	0.000
174	Sc	scandium	7440-20-2	0.000	4609	Th	thorium	7440-29-1	0.000
175	Se	selenium (gray)	7782-49-2	0.000	4639	Ti	titanium	7440-32-6	0.000
176	Se	selenium (a form)	7782-49-2	0.000	4689	TiO2	titanium (iv) oxide	13463-67-7	1.792
177	Se	selenium (vitreous)	7782-49-2	0.000	4703	Tl	thallium	7440-28-0	0.000
178	Sg	seaborgium	54038-81-2	0.000	4747	Tm	thulium	7440-30-4	0.000
179	Si	silicon	7440-21-3	0.000	4766	U	uranium	7440-61-1	0.000
180	SiCH4Cl2	silane, methyldichloro	75-54-7	3.256	4836	V	vanadium	7440-62-2	0.000
181	SiC2H5Cl3	silane, ethyltrichloro	115-21-9	4.014	4860	VCl4	vanadium tetrachloride	7632-51-1	3.564
182	SiC2H6Cl2	silane, dimethyldichloro	75-78-5	3.535	4880	VOCl3	vanadium oxytrichloride	7727-18-6	3.499
183	SiC3H10	silane, trimethyl	933-07-7	3.011	4899	W	tungsten	7440-33-7	0.000
184	SiC7H8Cl2	silane, methylphenyldichloro	149-74-6	4.827	4945	Xe	xenon	7440-63-3	0.000
185	SiClC3H9	chlorotrimethylsilane	75-77-4	3.438	4960	Y	yttrium	7440-65-5	0.000
186	SiCl4	silicon tetrachloride	10026-04-7	3.770	4995	Yb	ytterbium	7440-64-4	0.000
187	SiF4	silicon tetrafluoride	7783-61-1	2.693	5021	Zn	zinc	7440-66-6	0.000
188	SiHCl3	silane, trichloro	10025-78-2	3.439	5113	Zr	zirconium	7440-67-7	0.000
189	SiH2Cl2	silane, dichloro	4109-96-0	2.709					

* Use ID or CAS No for complete name (See Chapther 1 of this book).

Chapter 19

DIPOLE MOMENT – ORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 19. The tabulation is arranged by carbon number (C, C2, C3, ...) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. The state of compound and value of dipole moment are given in the adjacent columns. The last column provides the code for the tabulation.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-17). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (2), Daubert and Danner (3), Landolt and Bornstein (6), and Yaws (16-17) were used extensively for the tabulation. Estimates were primarily based on the method of Abraham and Smith (4). The dipole moment which involves the first moment of the electric charge density of the compound is used in property correlations for polar compounds.

Example

In an engineering analysis, the dipole moment is needed for chloroform (CHCl3). Determine the dipole moment for chloroform.

Inspection of the tabulation yields:

dipole moment = 1.010 Debye

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Table 19 Dipole Moment - Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
15	CBrCl2F	bromodichlorofluoromethane	353-58-2	gas	0.845	2	592	C2H2Br4	1,1,2,2-tetrabromoethane	79-27-6	in hexane	1.301	1
16	CBrCl3	bromotrichloromethane	75-62-7	in benzene	0.590	1	606	C2H2ClF3	2-chloro-1,1,1-trifluoroethane	75-88-7	gas	1.649	1
17	CBrF3	bromotrifluoromethane	75-63-8	gas	0.651	2	615	C2H2Cl2	1,1-dichloroethylene	75-35-4	gas	1.340	1
23	CBr2F2	dibromodifluoromethane	75-61-6	gas	0.660	1	616	C2H2Cl2	cis-1,2-dichloroethylene	156-59-2	gas	1.901	1
34	CClF3	chlorotrifluoromethane	75-72-9	gas	0.510	1	617	C2H2Cl2	trans-1,2-dichloroethylene	156-60-5	in benzene	0.000	1
39	CClN	cyanogen chloride	506-77-4	gas	2.820	1	625	C2H2Cl2O	chloroacetyl chloride	79-04-9	gas	2.218	1
42	CCl2F2	dichlorodifluoromethane	75-71-8	gas	0.510	1	626	C2H2Cl2O	dichloroacetaldehyde	79-02-7	in benzene	2.359	1
44	CCl2O	phosgene	75-44-5	gas	1.170	1	630	C2H2Cl3F	1,1,1-trichloro-2-fluoroethane	2366-36-1	gas	1.874	2
47	CCl3F	trichlorofluoromethane	75-69-4	gas	0.450	1	635	C2H2Cl4	1,1,1,2-tetrachloroethane	630-20-6	gas	1.289	1
50	CCl4	carbon tetrachloride	56-23-5	gas	0.000	1	636	C2H2Cl4	1,1,2,2-tetrachloroethane	79-34-5	gas	1.289	1
68	CF2O	carbonyl fluoride	353-50-4	gas	0.950	1	642	C2H2F2	1,1-difluoroethylene	75-38-7	gas	1.379	1
74	CF4	carbon tetrafluoride	75-73-0	gas	0.000	1	643	C2H2F2	cis-1,2-difluoroethene	1630-77-9	gas	2.420	1
92	CHBrF2	bromodifluoromethane	1511-62-2	gas	1.499	1	644	C2H2F2	trans-1,2-difluoroethene	1630-78-0	in benzene	0.550	1
96	CHBr3	bromoform	75-25-2	gas	0.990	1	650	C2H2F4	1,1,1,2-tetrafluoroethane	811-97-2	gas	2.058	1
97	CHClF2	chlorodifluoromethane	75-45-6	gas	1.458	1	651	C2H2F4	1,1,2,2-tetrafluoroethane	359-35-3	gas	0.992	1
101	CHCl2F	dichlorofluoromethane	75-43-4	gas	1.289	1	652	C2H2F4O	tetrafluorodimethyl ether	1691-17-4	gas	1.739	1
104	CHCl3	chloroform	67-66-3	gas	1.010	1	681	C2H2O	ketene	463-51-4	gas	1.420	1
113	CHF3	fluoroform	75-46-7	gas	1.649	1	684	C2H2O4	oxalic acid	144-62-7	in dioxane	2.630	1
117	CHI3	iodoform	75-47-8	in benzene	0.900	1	688	C2H3Br	vinyl bromide	593-60-2	gas	1.421	1
122	CHN	hydrogen cyanide	74-90-8	gas	2.980	1	701	C2H3Cl	vinyl chloride	75-01-4	gas	1.451	1
140	CH2BrCl	bromochloromethane	74-97-5	in benzene	1.661	1	702	C2H3ClF2	1-chloro-1,1-difluoroethane	75-68-3	gas	2.141	1
144	CH2Br2	dibromomethane	74-95-3	gas	1.430	1	707	C2H3ClO	acetyl chloride	75-36-5	gas	2.719	1
145	CH2ClF	chlorofluoromethane	593-70-4	gas	1.820	1	708	C2H3ClO	chloroacetaldehyde	107-20-0	in benzene	1.991	1
147	CH2ClNO	carbamic chloride	463-72-9	gas	4.017	2	710	C2H3ClO2	chloroacetic acid	79-11-8	in benzene	2.310	1
149	CH2Cl2	dichloromethane	75-09-2	gas	1.601	1	711	C2H3ClO2	methyl chloroformate	79-22-1	in benzene	2.221	1
158	CH2F2	difluoromethane	75-10-5	gas	1.979	1	714	C2H3Cl2F	1,1-dichloro-1-fluoroethane	1717-00-6	gas	2.014	1
161	CH2I2	diiodomethane	75-11-6	in benzene	1.220	1	720	C2H3Cl3	1,1,1-trichloroethane	71-55-6	gas	1.781	1
175	CH2O	formaldehyde	50-00-0	gas	2.330	1	721	C2H3Cl3	1,1,2-trichloroethane	79-00-5	gas	1.250	1
176	CH2O2	formic acid	64-18-6	gas	1.415	1	725	C2H3Cl3Si	trichlorovinylsilane	75-94-5	in benzene	2.039	1
191	CH3Br	methyl bromide	74-83-9	gas	1.811	1	728	C2H3F	vinyl fluoride	75-02-5	gas	1.430	1
196	CH3Cl	methyl chloride	74-87-3	gas	1.871	1	735	C2H3F3	1,1,1-trifluoroethane	420-46-2	gas	2.320	1
201	CH3ClO2S	methanesulfonyl chloride	124-63-0	gas	3.148	1	736	C2H3F3	1,1,2-trifluoroethane	430-66-0	gas	1.679	1
210	CH3Cl3Si	methyl trichlorosilane	75-79-6	gas	1.910	1	753	C2H3N	acetonitrile	75-05-8	gas	3.920	1
214	CH3F	methyl fluoride	593-53-3	gas	1.851	1	755	C2H3NO	methyl isocyanate	624-83-9	gas	2.800	1
222	CH3I	methyl iodide	74-88-4	gas	1.619	1	787	C2H4	ethylene	74-85-1	gas	0.000	1
232	CH3NO	formamide	75-12-7	gas	3.730	1	798	C2H4Br2	1,1-dibromoethane	557-91-5	in benzene	2.141	1
235	CH3NO2	nitromethane	75-52-5	gas	3.460	2	799	C2H4Br2	1,2-dibromoethane	106-93-4	gas	1.010	1
238	CH3NO3	methyl nitrate	598-58-3	in benzene	2.880	1	812	C2H4Cl2	1,1-dichloroethane	75-34-3	gas	2.060	1
251	CH4	methane	74-82-8	gas	0.000	1	813	C2H4Cl2	1,2-dichloroethane	107-06-2	gas	1.439	1
254	CH4Cl2Si	methyl dichlorosilane	75-54-7	in benzene	1.910	1	816	C2H4Cl2O	bis(chloromethyl) ether	542-88-1	gas	0.989	1
260	CH4N2O	urea	57-13-6	in dioxane	4.557	1	834	C2H4F2	1,1-difluoroethane	75-37-6	gas	2.262	1
265	CH4N2S	ammonium thiocyanate	1762-95-4	in benzene	5.066	1	835	C2H4F2	1,2-difluoroethane	624-72-6	gas	2.671	1
272	CH4O	methyl alcohol	67-56-1	gas	1.700	1	845	C2H4I2	1,2-diiodoethane	624-73-7	in benzene	1.300	1
278	CH4S	methyl mercaptan	74-93-1	gas	1.520	1	851	C2H4N2	aminoacetonitrile	540-61-4	gas	2.641	1
284	CH5ClSi	methyl chlorosilane	993-00-0	in cyclohexane	1.931	1	865	C2H4N2O6	ethylene glycol dinitrate	628-96-6	in benzene	3.568	1
286	CH5N	methylamine	74-89-5	gas	1.310	1	870	C2H4N4	cyanoguanidine	461-58-5	in dioxane	8.214	1
322	CH6Si	methyl silane	992-94-9	gas	0.735	1	884	C2H4O	acetaldehyde	75-07-0	gas	2.689	1
363	CN4O8	tetranitromethane	509-14-8	gas	0.000	1	885	C2H4O	ethylene oxide	75-21-8	gas	1.889	1
372	CO	carbon monoxide	630-08-0	gas	0.112	1	889	C2H4O2	acetic acid	64-19-7	gas	1.739	1
373	COS	carbonyl sulfide	463-58-1	gas	0.711	1	890	C2H4O2	methyl formate	107-31-3	gas	1.770	1
375	CO2	carbon dioxide	124-38-9	gas	0.000	1	892	C2H4O2S	thioglycolic acid	68-11-1	in dioxane	2.281	1
382	CS2	carbon disulfide	75-15-0	gas	0.000	1	893	C2H4O3	glycolic acid	79-14-1	gas	2.156	1
404	C2BrF3	bromotrifluoroethylene	598-73-2	gas	0.760	1	894	C2H4O3	peroxyacetic acid	79-21-0	gas	2.383	1
413	C2Br2F4	1,2-dibromotetrafluoroethane	124-73-2	gas	0.030	2	901	C2H4S	ethylene sulfide	420-12-2	in benzene	1.769	1
423	C2ClF3	chlorotrifluoroethylene	79-38-9	gas	0.399	1	910	C2H5Br	bromoethane	74-96-4	gas	2.030	1
427	C2ClF5	chloropentafluoroethane	76-15-3	gas	0.519	1	914	C2H5Cl	ethyl chloride	75-00-3	gas	2.051	1
441	C2Cl2F4	1,2-dichloro-1,1,2,2-tetrafluoroethane	76-14-2	gas	0.669	1	917	C2H5ClO	2-chloroethanol	107-07-3	gas	1.780	1
442	C2Cl2F4	1,1-dichloro-1,2,2,2-tetrafluoroethane	374-07-2	gas	0.555	2	918	C2H5ClO	chloromethyl methyl ether	107-30-2	gas	1.760	1
450	C2Cl3F3	1,1,1-trichloro-2,2,2-trifluoroethane	354-58-5	gas	0.740	1	920	C2H5ClO2S	ethanesulfonyl chloride	594-44-5	gas	3.897	1
455	C2Cl4	tetrachloroethylene	127-18-4	in benzene	0.000	1	937	C2H5Cl3Si	trichloroethylsilane	115-21-9	gas	2.030	2
456	C2Cl4F2	1,1,2,2-tetrachloro-1,2-difluoroethane	76-12-0	gas	1.259	2	939	C2H5F	ethyl fluoride	353-36-6	gas	1.940	1
457	C2Cl4F2	1,1,1,2-tetrachloro-2,2-difluoroethane	76-11-9	gas	1.391	2	948	C2H5I	ethyl iodide	75-03-6	gas	1.910	1
459	C2Cl4O	trichloroacetyl chloride	76-02-8	in benzene	1.199	1	954	C2H5N	ethyleneimine	151-56-4	gas	1.900	1
462	C2Cl5F	pentachlorofluoroethane	354-56-3	gas	0.513	2	955	C2H5NO	acetaldoxime	107-29-9	gas	0.827	1
463	C2Cl6	hexachloroethane	67-72-1	gas	0.000	1	956	C2H5NO	acetamide	60-35-5	gas	3.747	1
494	C2F6	hexafluoroethane	76-16-4	gas	0.000	1	957	C2H5NO	N-methylformamide	123-39-7	gas	3.830	1
511	C2HBrClF3	halothane	151-67-7	gas	2.066	2	958	C2H5NO2	nitroethane	79-24-3	gas	3.657	1
525	C2HClF2	2-chloro-1,1-difluoroethylene	359-10-4	gas	1.289	2	960	C2H5NO2	glycine	56-40-6	in water	12.801	1
529	C2HClF4	2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0	gas	1.469	1	964	C2H5NO3	ethyl nitrate	625-58-1	in benzene	2.930	1
534	C2HCl2F3	1,1-dichloro-1,2,2-trifluoroethane	812-04-4	gas	1.394	2	985	C2H6	ethane	74-84-0	gas	0.000	1
535	C2HCl2F3	1,2-dichloro-1,1,2-trifluoroethane	354-23-4	gas	1.302	1	986	C2H6AlCl	dimethylaluminum chloride	1184-58-3	gas	1.631	1
536	C2HCl2F3	2,2-dichloro-1,1,1-trifluoroethane	306-83-2	gas	1.356	1	1017	C2H6Cl2Si	dichlorodimethylsilane	75-78-5	in benzene	1.889	1
539	C2HCl3	trichloroethylene	79-01-6	liquid	0.770	1	1065	C2H6O	ethyl alcohol	64-17-5	gas	1.691	1
543	C2HCl3O	dichloroacetyl chloride	79-36-7	in CCl4	1.580	1	1066	C2H6O	dimethyl ether	115-10-6	gas	1.301	1
544	C2HCl3O	trichloroacetaldehyde	75-87-6	gas	1.961	1	1067	C2H6OS	dimethyl sulfoxide	67-68-5	gas	3.957	1
547	C2HCl3O2	trichloroacetic acid	76-03-9	in benzene	1.109	1	1072	C2H6O2	ethylene glycol	107-21-1	gas	2.410	1
551	C2HCl5	pentachloroethane	76-01-7	gas	0.920	1	1083	C2H6O4S	dimethyl sulfate	77-78-1	in benzene	4.167	1
556	C2HF3O2	trifluoroacetic acid	76-05-1	gas	2.280	1	1084	C2H6O4S	ethyl sulfate	540-82-9	gas	4.257	2
558	C2HF5	pentafluoroethane	354-33-6	gas	1.541	1	1092	C2H6S	ethyl mercaptan	75-08-1	gas	1.580	1
571	C2H2	acetylene	74-86-2	gas	0.000	1	1093	C2H6S	dimethyl sulfide	75-18-3	gas	1.499	1

Table 19 Dipole Moment - Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
1094	C2H6S2	dimethyl disulfide	624-92-0	gas	1.985	1	2046	C3H7NO2	2-nitropropane	79-46-9	gas	3.717	1
1095	C2H6S2	1,2-ethanedithiol	540-63-6	in benzene	1.721	1	2061	C3H7NO3	propyl nitrate	627-13-4	in benzene	3.010	1
1112	C2H7ClSi	chlorodimethylsilane	1066-35-9	gas	1.280	1	2094	C3H8	propane	74-98-6	gas	0.000	1
1115	C2H7N	ethylamine	75-04-7	gas	1.220	1	2129	C3H8O	propyl alcohol	71-23-8	gas	1.679	1
1116	C2H7N	dimethylamine	124-40-3	gas	1.031	1	2130	C3H8O	isopropyl alcohol	67-63-0	gas	1.660	1
1117	C2H7NO	monoethanolamine	141-43-5	in dioxane	0.776	1	2131	C3H8O	methyl ethyl ether	540-67-0	gas	1.229	1
1159	C2H8N2	ethylenediamine	107-15-3	in benzene	1.901	1	2138	C3H8O2	2-methoxyethanol	109-86-4	in benzene	2.129	1
1168	C2H8Si	dimethyl silane	1111-74-6	gas	0.749	1	2139	C3H8O2	methylal	109-87-5	gas	0.740	1
1210	C2N2	cyanogen	460-19-5	gas	0.000	1	2140	C3H8O2	1,2-propanediol (propylene glycol)	57-55-6	liquid	3.630	1
1254	C3Cl2F6	1,2-dichlorohexafluoropropane	661-97-2	gas	0.690	2	2141	C3H8O2	1,3-propanediol	504-63-2	in dioxane	2.521	1
1287	C3F6O	hexafluoroacetone	684-16-2	gas	0.648	1	2148	C3H8O3	glycerol	56-81-5	in dioxane	2.680	1
1291	C3F6O	trifluoromethyl trifluorovinyl ether	1187-93-5	gas	0.402	1	2158	C3H8S	propyl mercaptan	107-03-9	in benzene	1.541	1
1299	C3F8	octafluoropropane	76-19-7	gas	0.000	1	2159	C3H8S	isopropyl mercaptan	75-33-2	in benzene	1.550	1
1333	C3HF7	heptafluoropropane	431-89-0	gas	1.940	2	2160	C3H8S	methyl ethyl sulfide	624-89-5	gas	1.559	1
1369	C3H2F6	1,1,1,2,3,3-hexafluoropropane	431-63-0	gas	0.201	2	2165	C3H9Al	trimethyl aluminum	75-24-1	gas	1.430	1
1377	C3H2N2	malononitrile	109-77-3	gas	3.717	1	2190	C3H9ClSi	trimethylchlorosilane	75-77-4	gas	2.081	1
1402	C3H3Cl	propargyl chloride	624-65-7	gas	1.679	1	2200	C3H9N	propylamine	107-10-8	gas	1.169	1
1441	C3H3F3	3,3,3-trifluoropropene	677-21-4	gas	2.449	1	2201	C3H9N	isopropylamine	75-31-0	in benzene	1.451	1
1449	C3H3F5	1,1,1,2,2-pentafluoropropane	1814-88-6	gas	2.341	2	2203	C3H9N	trimethylamine	75-50-3	gas	0.612	1
1454	C3H3F5O	perfluoroethyl methyl ether	---	gas	1.631	1	2205	C3H9NO	3-amino-1-propanol	156-87-6	ns	2.690	1
1462	C3H3N	acrylonitrile	107-13-1	gas	3.870	1	2206	C3H9NO	methylethanolamine	109-83-1	in benzene	2.159	1
1463	C3H3NO	oxazole	288-42-6	gas	1.499	1	2241	C3H9O4P	trimethyl phosphate	512-56-1	in benzene	3.088	1
1464	C3H3NO	isoxazole	288-14-2	gas	2.899	1	2258	C3H10N2	1,3-propanediamine	109-76-2	in benzene	1.841	1
1492	C3H4	methylacetylene	74-99-7	gas	0.782	1	2266	C3H10O3Si	trimethoxysilane	2487-90-3	gas	1.304	2
1493	C3H4	allene	463-49-0	gas	0.000	1	2268	C3H10Si	trimethyl silane	993-07-7	gas	0.525	1
1533	C3H4Cl2	2,3-dichloropropene	78-88-6	gas	1.739	1	2302	C4Cl2F6	1,2-dichloro-1,2,3,3,4,4-hexafluorocyclobuta*	356-18-3	gas	1.589	1
1594	C3H4N2	1H-pyrazole	288-13-1	gas	2.215	1	2317	C4Cl4S	tetrachlorothiophene	6012-97-1	in benzene	0.929	1
1621	C3H4O	acrolein	107-02-8	gas	3.120	1	2318	C4Cl6	hexachloro-1,3-butadiene	87-68-3	in benzene	0.200	1
1622	C3H4O	propargyl alcohol	107-19-7	in benzene	1.780	1	2336	C4F8	octafluorocyclobutane	115-25-3	gas	0.000	1
1626	C3H4O2	acrylic acid	79-10-7	gas	1.460	1	2338.1	C4F8O	pentafluoroethyl trifluorovinyl ether	10493-43-3	gas	0.462	2
1627	C3H4O2	beta-propiolactone	57-57-8	gas	4.167	1	2344	C4F10	decafluorobutane	355-25-9	gas	0.000	2
1628	C3H4O2	vinyl formate	692-45-5	in benzene	1.660	1	2420	C4H2N2	trans-2-butenedinitrile	764-42-1	gas	0.000	1
1633	C3H4O3	ethylene carbonate	96-49-1	gas	4.497	1	2420.1	C4H2N2	maleonitrile	928-53-0	gas	5.996	2
1634	C3H4O3	pyruvic acid	127-17-3	gas	2.299	1	2430	C4H2O3	maleic anhydride	108-31-6	in dioxane	3.927	1
1636	C3H4O4	malonic acid	141-82-2	in dioxane	2.569	1	2510	C4H4	vinylacetylene	689-97-4	gas	0.400	1
1645	C3H5Br	3-bromo-1-propene	106-95-6	in benzene	1.810	1	2562	C4H4N2	succinonitrile	110-61-2	in benzene	3.927	1
1670	C3H5Cl	2-chloro-1-propene	557-98-2	gas	1.661	1	2563	C4H4N2	pyrazine	290-37-9	gas	0.240	1
1671	C3H5Cl	3-chloro-1-propene	107-05-1	gas	1.940	1	2564	C4H4N2	pyridazine	289-80-5	gas	4.137	1
1676	C3H5ClO	alpha-epichlorohydrin	106-89-8	in CCl4	1.799	1	2565	C4H4N2	pyrimidine	289-95-2	gas	2.335	1
1689	C3H5ClO2	ethyl chloroformate	541-41-3	gas	2.548	1	2592	C4H4O	furan	110-00-9	gas	0.660	1
1737	C3H5I	3-iodo-1-propene	556-56-9	in benzene	1.620	1	2598	C4H4O2	diketene	674-82-8	gas	3.538	1
1752	C3H5N	propionitrile	107-12-0	gas	4.020	1	2603	C4H4O3	succinic anhydride	108-30-5	in benzene	3.830	1
1796	C3H5N3O9	nitroglycerine	55-63-0	in benzene	3.148	1	2605	C4H4O4	fumaric acid	110-17-8	in dioxane	2.450	1
1809	C3H6	cyclopropane	75-19-4	gas	0.000	1	2606	C4H4O4	maleic acid	110-16-7	in dioxane	3.178	1
1810	C3H6	propylene	115-07-1	gas	0.366	1	2613	C4H4S	thiophene	110-02-1	gas	0.540	1
1825	C3H6Br2	1,2-dibromopropane	78-75-1	gas	1.240	1	2634	C4H5Cl	chloroprene	126-99-8	gas	1.430	1
1844	C3H6Cl2	1,1-dichloropropane	78-99-9	in benzene	2.081	1	2695	C4H5N	trans-crotonitrile	627-26-9	gas	4.527	1
1845	C3H6Cl2	1,2-dichloropropane	78-87-5	gas	1.460	1	2696	C4H5N	cis-crotonitrile	1190-76-7	gas	4.077	1
1846	C3H6Cl2	1,3-dichloropropane	142-28-9	gas	2.081	1	2697	C4H5N	methacrylonitrile	126-98-7	gas	3.687	1
1847	C3H6Cl2	2,2-dichloropropane	594-20-7	gas	2.090	1	2698	C4H5N	vinylacetonitrile	109-75-1	in benzene	3.418	1
1850	C3H6Cl2O	2,3-dichloro-1-propanol	616-23-9	gas	1.559	2	2701	C4H5N	pyrrole	109-97-7	gas	1.840	1
1853	C3H6Cl2O	1,3-dichloro-2-propanol	96-23-1	in benzene	2.111	1	2709	C4H5NO	2-hydroxy-3-butenenitrile	5809-59-6	gas	2.860	2
1856	C3H6Cl2Si	dichlorovinylmethylsilane	124-70-9	in benzene	2.290	1	2713	C4H5NO2	methyl cyanoacetate	105-34-0	in benzene	3.747	1
1920	C3H6O	allyl alcohol	107-18-6	gas	1.600	1	2716	C4H5NO2	succinimide	123-56-8	gas	2.392	2
1922	C3H6O	propionaldehyde	123-38-6	gas	2.521	1	2733	C4H5N3	1,1'-imidodiacetonitrile	628-87-5	in dioxane	3.508	1
1923	C3H6O	acetone	67-64-1	gas	2.880	1	2755	C4H6	ethylacetylene	107-00-6	gas	0.809	1
1924	C3H6O	1,2-propylene oxide	75-56-9	gas	2.009	1	2756	C4H6	1,2-butadiene	590-19-2	gas	0.402	1
1925	C3H6O	1,3-propylene oxide	503-30-0	gas	1.930	1	2757	C4H6	butadiene (1,3 butadiene)	106-99-0	gas	0.000	1
1930	C3H6O2	propanoic acid	79-09-4	gas	1.751	1	2807	C4H6Cl2	1,4-dichloro-cis-2-butene	1476-11-5	gas	0.000	2
1931	C3H6O2	ethyl formate	109-94-4	gas	1.930	1	2808	C4H6Cl2	1,4-dichloro-trans-2-butene	110-57-6	gas	0.000	2
1932	C3H6O2	methyl acetate	79-20-9	gas	1.679	1	2809	C4H6Cl2	3,4-dichloro-1-butene	760-23-6	gas	4.047	1
1934	C3H6O2	1-hydroxy-2-propanone	116-09-6	gas	4.287	2	2939.1	C4H6O	cis-crotonaldehyde	15798-64-8	gas	4.047	2
1937	C3H6O2	(±)-glycidol	556-52-5	gas	1.439	1	2940	C4H6O	trans-crotonaldehyde	123-73-9	gas	3.657	1
1942	C3H6O2S	3-mercaptopropionic acid	107-96-0	in dioxane	2.251	1	2941	C4H6O	methacrolein	78-85-3	gas	2.680	1
1948	C3H6O3	lactic acid	50-21-5	gas	1.139	2	2942	C4H6O	2,5-dihydrofuran	1708-29-8	in benzene	1.541	1
1949	C3H6O3	methoxyacetic acid	625-45-6	gas	2.560	1	2943	C4H6O	2,3-dihydrofuran	1191-99-7	gas	1.319	1
1950	C3H6O3	trioxane	110-88-3	gas	2.081	1	2944	C4H6O	divinyl ether	109-93-3	in benzene	1.070	1
1953	C3H6O3	dimethyl carbonate	616-38-6	gas	0.899	1	2963	C4H6O2	2-butyne-1,4-diol	110-65-6	in benzene	2.629	1
1967	C3H6S	thiacyclobutane	287-27-4	gas	1.850	1	2965	C4H6O2	gamma-butyrolactone	96-48-0	gas	3.820	1
1978	C3H7Br	1-bromopropane	106-94-5	gas	2.180	1	2967	C4H6O2	trans-2-butenoic acid	107-93-7	in benzene	2.129	1
1979	C3H7Br	2-bromopropane	75-26-3	gas	2.210	1	2969	C4H6O2	methacrylic acid	79-41-4	in benzene	1.649	1
1986	C3H7Cl	1-chloropropane	540-54-5	gas	2.051	1	2971	C4H6O2	vinyl acetate	108-05-4	in benzene	1.790	1
1987	C3H7Cl	2-chloropropane	75-29-6	gas	2.170	1	2990	C4H6O3	acetic anhydride	108-24-7	gas	2.788	1
2002	C3H7ClO2	3-chloro-1,2-propanediol	96-24-2	gas	3.747	1	2995	C4H6O3	propylene carbonate	108-32-7	in benzene	4.550	1
2025	C3H7I	1-iodopropane	107-08-4	gas	2.040	1	3006	C4H6O4	succinic acid	110-15-6	gas	2.200	1
2026	C3H7I	2-iodopropane	75-30-9	in benzene	1.950	1	3007	C4H6O4	(acetyloxy)acetic acid	13831-30-6	gas	3.148	2
2030	C3H7N	allylamine	107-11-9	in benzene	1.310	1	3023	C4H6O5	diglycolic acid	110-99-6	gas	1.070	2
2036	C3H7NO	N,N-dimethylformamide	68-12-2	gas	3.807	1	3024	C4H6O5	malic acid	6915-15-7	gas	3.118	1
2037	C3H7NO	N-methylacetamide	79-16-3	gas	3.717	1	3033	C4H6O6	tartaric acid	87-69-4	in dioxane	3.240	1
2045	C3H7NO2	1-nitropropane	108-03-2	gas	3.660	1	3142	C4H7ClO2	ethyl chloroacetate	105-39-5	in benzene	2.641	1

Table 19 Dipole Moment - Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
3238	C4H7N	butyronitrile	109-74-0	gas	4.070	1	3945	C4H10S	tert-butyl mercaptan	75-66-1	in benzene	1.589	1
3239	C4H7N	isobutyronitrile	78-82-0	gas	4.290	1	3947	C4H10S	diethyl sulfide	352-93-2	gas	1.541	1
3246	C4H7NO	acetone cyanohydrin	75-86-5	in benzene	0.318	1	3948	C4H10S	methyl propyl sulfide	3877-15-4	gas	1.520	2
3249	C4H7NO	2-pyrrolidone	616-45-5	in benzene	0.309	1	3950	C4H10S2	diethyl disulfide	110-81-6	in benzene	1.961	1
3319	C4H8	cyclobutane	287-23-0	gas	0.000	2	3977	C4H11N	butylamine	109-73-9	in benzene	1.391	1
3320	C4H8	1-butene	106-98-9	gas	0.340	1	3978	C4H11N	isobutylamine	78-81-9	in benzene	1.270	1
3322	C4H8	cis-2-butene	590-18-1	gas	0.300	1	3979	C4H11N	sec-butylamine	13952-84-6	in benzene	1.280	1
3323	C4H8	trans-2-butene	624-64-6	gas	0.000	2	3980	C4H11N	tert-butylamine	75-64-9	in benzene	1.290	1
3324	C4H8	isobutene	115-11-7	gas	0.500	1	3984	C4H11N	diethylamine	109-89-7	gas	0.920	1
3361	C4H8Cl2	1,2-dichlorobutane	616-21-7	gas	2.911	2	3988	C4H11NO	dimethylethanolamine	108-01-0	in benzene	2.209	1
3363	C4H8Cl2	1,4-dichlorobutane	110-56-5	gas	2.221	1	4004	C4H11NO	2-amino-1-methoxypropane	37143-54-7	gas	1.382	2
3370	C4H8Cl2	2,3-dichlorobutane, dl and meso	7581-97-7	gas	0.000	2	4006	C4H11NO2	diethanolamine	111-42-2	in dioxane	0.851	1
3375	C4H8Cl2O	bis(2-chloroethyl) ether	111-44-4	in benzene	2.581	1	4096	C4H12O2Si	dimethoxydimethylsilane	1112-39-6	in benzene	1.310	1
3474	C4H8O	1,2-epoxybutane	106-88-7	in benzene	2.009	1	4110	C4H12Si	tetramethylsilane	75-76-3	liquid	0.000	1
3476	C4H8O	ethyl vinyl ether	109-92-2	gas	0.980	1	4169	C5Cl6	hexachlorocyclopentadiene	77-47-4	in benzene	1.049	1
3478	C4H8O	butyraldehyde	123-72-8	gas	2.719	1	4327	C5H4O2	furfural	98-01-1	in benzene	0.360	1
3479	C4H8O	isobutyraldehyde	78-84-2	gas	2.698	2	4340	C5H4O3	3-methyl-2,5-furandione	616-02-4	in benzene	4.047	1
3480	C4H8O	methyl ethyl ketone	78-93-3	benzene/dioxane	2.760	1	4391	C5H5N	pyridine	110-86-1	gas	2.191	1
3481	C4H8O	tetrahydrofuran	109-99-9	gas	1.630	1	4447	C5H6	cyclopentadiene	542-92-7	gas	0.419	1
3490	C4H8O	2,2-dimethyloxirane	558-30-5	gas	2.248	2	4448	C5H6	2-methyl-1-butene-3-yne	78-80-8	in benzene	0.549	1
3499	C4H8OS	s-ethyl thioacetate	625-60-5	gas	4.617	2	4449	C5H6	1-pentene-3-yne	646-05-9	gas	0.660	1
3500	C4H8OS	3-(methylthio)propanal	3268-49-3	gas	2.968	1	4490	C5H6N2	glutaronitrile	544-13-8	in benzene	3.897	1
3504	C4H8O2	butyric acid	107-92-6	in benzene	1.649	1	4548	C5H6O2	furfuryl alcohol	98-00-0	in benzene	1.919	1
3505	C4H8O2	isobutyric acid	79-31-2	in benzene	1.091	1	4577	C5H6O4	itaconic acid	97-65-4	in dioxane	2.251	1
3506	C4H8O2	propyl formate	110-74-7	in benzene	1.910	1	4587	C5H6S	2-methylthiophene	554-14-3	gas	0.675	1
3508	C4H8O2	ethyl acetate	141-78-6	gas	1.781	1	4588	C5H6S	3-methylthiophene	616-44-4	gas	0.956	1
3509	C4H8O2	methyl propanoate	554-12-1	in benzene	1.703	1	4658	C5H7N	N-methylpyrrole	96-54-8	gas	2.099	1
3510	C4H8O2	1,4-dioxane	123-91-1	gas	0.000	2	4677	C5H7NO2	ethyl cyanoacetate	105-56-6	gas	2.170	1
3511	C4H8O2	cis-2-butene-1,4-diol	6117-80-2	in benzene	2.500	1	4737	C5H8	cyclopentene	142-29-0	gas	0.200	1
3512	C4H8O2	trans-2-butene-1,4-diol	821-11-4	in benzene	2.470	1	4738	C5H8	isoprene	78-79-5	gas	0.250	1
3514	C4H8O2	1,3-dioxane	505-22-6	in benzene	2.060	1	4742	C5H8	trans-1,3-pentadiene	2004-70-8	gas	0.680	1
3517	C4H8O2	3-hydroxybutanal	107-89-1	gas	2.782	2	4743	C5H8	1,4-pentadiene	591-93-5	in benzene	0.380	1
3535.1	C4H8O2	4-hydroxybutraldehyde	25714-71-0	gas	3.028	2	4745	C5H8	1-pentyne	627-19-0	gas	0.809	1
3535.2	C4H8O2	3-hydroxy-2-methyl propionaldehyde	38433-80-6	gas	4.077	2	4746	C5H8	2-pentyne	627-21-4	gas	0.116	2
3536	C4H8O2S	sulfolane	126-33-0	in benzene	0.468	1	4845	C5H8N4O12	pentaerythritol tetranitrate	78-11-5	in dioxane	2.479	1
3552	C4H8O3	2-hydroxy-2-methylpropanoic acid	594-61-6	gas	2.431	2	4848	C5H8O	cyclopentanone	120-92-3	gas	3.238	1
3564	C4H8O3	methyl lactate	547-64-8	gas	1.799	2	4849	C5H8O	methyl isopropenyl ketone	814-78-8	in benzene	2.740	1
3581	C4H8S	tetrahydrothiophene	110-01-0	in benzene	1.901	1	4882	C5H8O2	acetylacetone	123-54-6	gas	2.810	1
3598	C4H9Br	1-bromobutane	109-65-9	gas	2.080	1	4889	C5H8O2	methyl methacrylate	80-62-6	in benzene	1.970	1
3599	C4H9Br	2-bromobutane	78-76-2	gas	2.230	1	4904	C5H8O2	4-methyl-gamma-butyrolactone	108-29-2	in benzene	4.300	1
3610	C4H9Cl	1-chlorobutane	109-69-3	gas	2.051	1	4909	C5H8O2	pentanedial	111-30-8	gas	3.328	2
3611	C4H9Cl	1-chloro-2-methylpropane	513-36-0	gas	2.000	1	4928	C5H8O3	levulinic acid	123-76-2	gas	3.148	2
3612	C4H9Cl	2-chlorobutane	78-86-4	gas	2.039	1	4945	C5H8O4	glutaric acid	110-94-1	in dioxane	2.640	1
3613	C4H9Cl	2-chloro-2-methylpropane	507-20-0	gas	2.129	1	5197	C5H9NO	butyl isocyanate	111-36-4	liquid	2.524	1
3666	C4H9I	1-iodobutane	542-69-8	gas	2.120	1	5198	C5H9NO	N-methyl-2-pyrrolidone	872-50-4	in benzene	4.077	1
3669	C4H9I	2-iodo-2-methylpropane	558-17-8	in benzene	2.150	1	5219	C5H9NO2	4-morpholinecarboxaldehyde	4394-85-8	in benzene	2.950	1
3675	C4H9N	pyrrolidine	123-75-1	in benzene	1.580	1	5245	C5H9NO4	L-glutamic acid	56-86-0	gas	1.211	2
3681	C4H9NO	N,N-dimethylacetamide	127-19-5	gas	3.810	1	5285	C5H10	cyclopentane	287-92-3	liquid	0.000	1
3682	C4H9NO	morpholine	110-91-8	in benzene	1.541	1	5286	C5H10	1-pentene	109-67-1	liquid	0.340	1
3697	C4H9NO2	1-nitrobutane	627-05-4	in benzene	3.388	1	5290	C5H10	2-methyl-1-butene	563-46-2	gas	0.510	1
3783	C4H10	butane	106-97-8	gas	0.000	2	5291	C5H10	3-methyl-1-butene	563-45-1	gas	0.321	1
3784	C4H10	isobutane	75-28-5	gas	0.132	1	5292	C5H10	2-methyl-2-butene	513-35-9	in benzene	0.339	1
3830	C4H10N2	piperazine	110-85-0	in benzene	1.470	1	5334	C5H10Cl2	1,5-dichloropentane	628-76-2	in benzene	2.359	1
3865	C4H10O	butanol	71-36-3	gas	1.661	1	5445	C5H10O	pentanal	110-62-3	in benzene	2.569	1
3866	C4H10O	isobutanol	78-83-1	gas	1.640	1	5450	C5H10O	methyl propyl ketone	107-87-9	in benzene	2.770	1
3867	C4H10O	sec-butanol	78-92-2	in benzene	1.661	1	5451	C5H10O	diethyl ketone	96-22-0	in CCl4	2.821	1
3868	C4H10O	tert-butanol	75-65-0	in benzene	1.670	1	5452	C5H10O	methyl isopropyl ketone	563-80-4	in benzene	2.761	1
3869	C4H10O	diethyl ether	60-29-7	gas	1.151	1	5492	C5H10O2	pentanoic acid	109-52-4	in dioxane	1.610	1
3870	C4H10O	methyl propyl ether	557-17-5	in benzene	1.241	1	5494	C5H10O2	3-methylbutanoic acid	503-74-2	in benzene	0.630	1
3871	C4H10O	methyl isopropyl ether	598-53-8	gas	1.247	1	5495	C5H10O2	2,2-dimethylpropanoic acid	75-98-9	in benzene	1.700	1
3881	C4H10O2	t-butyl hydroperoxide	75-91-2	in benzene	1.810	1	5497	C5H10O2	butyl formate	592-84-7	in benzene	2.030	1
3882	C4H10O2	1,2-dimethoxyethane	110-71-4	in benzene	1.710	1	5498	C5H10O2	isobutyl formate	542-55-2	in benzene	1.890	1
3883	C4H10O2	2-ethoxyethanol	110-80-5	in benzene	2.081	1	5499	C5H10O2	sec-butyl formate	589-40-2	gas	1.940	2
3884	C4H10O2	1,2-butanediol	584-03-2	in dioxane	2.179	1	5500	C5H10O2	tert-butyl formate	762-75-4	in benzene	2.099	1
3885	C4H10O2	1,3-butanediol	107-88-0	in dioxane	2.521	1	5501	C5H10O2	propyl acetate	109-60-4	in benzene	1.790	1
3886	C4H10O2	1,4-butanediol	110-63-4	liquid	3.930	1	5502	C5H10O2	isopropyl acetate	108-21-4	gas	1.751	1
3887	C4H10O2	DL-2,3-butanediol	6982-25-8	in benzene	2.099	1	5503	C5H10O2	ethyl propanoate	105-37-3	in benzene	1.752	1
3888	C4H10O2	meso-2,3-butanediol	5341-95-7	in benzene	2.099	1	5504	C5H10O2	methyl butanoate	623-42-7	in benzene	1.721	1
3893.1	C4H10O2	n-butylhydroperoxide	4813-50-7	gas	0.275	2	5505	C5H10O2	methyl isobutanoate	547-63-7	gas	1.799	1
3894	C4H10O2	2-methoxy-1-propanol	1589-47-5	gas	1.859	2	5506	C5H10O2	tetrahydrofurfuryl alcohol	97-99-4	in benzene	2.200	1
3895	C4H10O2	propylene glycol monomethyl ether	107-98-2	in benzene	2.401	1	5537	C5H10O2S	3-methyl sulfolane	872-93-5	gas	4.797	1
3905	C4H10O2	2-methyl-1,3-propanediol	2163-42-0	gas	0.312	2	5543	C5H10O3	diethyl carbonate	105-58-8	gas	1.100	1
3918	C4H10O3	diethylene glycol	111-46-6	in benzene	2.521	1	5544	C5H10O3	ethyl lactate	97-64-3	in benzene	2.400	1
3919	C4H10O3	1,2,3-butanetriol	4435-50-1	gas	3.418	2	5603	C5H11Br	1-bromopentane	110-53-2	liquid	1.990	1
3920	C4H10O3	1,2,4-butanetriol	3068-00-6	gas	3.747	2	5620	C5H11Cl	1-chloropentane	543-59-9	gas	2.159	1
3928	C4H10O3S	diethyl sulfite	623-81-4	in benzene	0.300	1	5624	C5H11Cl	1-chloro-3-methylbutane	107-84-6	in benzene	1.940	1
3937	C4H10O4S	diethyl sulfate	64-67-5	in benzene	4.407	1	5625	C5H11Cl	2-chloro-2-methylbutane	594-36-5	in benzene	2.160	1
3942	C4H10S	butyl mercaptan	109-79-5	in benzene	1.529	1	5669	C5H11N	N-methylpyrrolidine	120-94-5	in benzene	0.830	1
3943	C4H10S	isobutyl mercaptan	513-44-0	in benzene	1.529	1	5670	C5H11N	piperidine	110-89-4	in benzene	1.190	1
3944	C4H10S	sec-butyl mercaptan	513-53-1	in benzene	1.601	1	5671	C5H11N	cyclopentylamine	1003-03-8	gas	0.797	2

Table 19 Dipole Moment - Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
5675	C5H11NO	tert-butylformamide	2425-74-3	in dioxane	3.927	1	7174	C6H7N	3-methylpyridine	108-99-6	in benzene	2.401	1
5772	C5H12	pentane	109-66-0	gas	0.000	1	7175	C6H7N	4-methylpyridine	108-89-4	in benzene	2.581	1
5773	C5H12	isopentane	78-78-4	gas	0.130	1	7267	C6H8	1,3-cyclohexadiene	592-57-4	gas	0.441	1
5774	C5H12	neopentane	463-82-1	gas	0.000	1	7269	C6H8	1,4-cyclohexadiene	628-41-1	in heptane	0.130	1
5831	C5H12O	1-pentanol	71-41-0	in CCl4	1.700	1	7316	C6H8N2	adiponitrile	111-69-3	gas	3.747	1
5832	C5H12O	2-pentanol	6032-29-7	in benzene	1.616	1	7318	C6H8N2	m-phenylenediamine	108-45-2	gas	1.811	1
5833	C5H12O	3-pentanol	584-02-1	gas	1.640	1	7319	C6H8N2	o-phenylenediamine	95-54-5	gas	1.529	1
5834	C5H12O	2-methyl-1-butanol	137-32-6	gas	1.880	1	7320	C6H8N2	p-phenylenediamine	106-50-3	gas	1.529	1
5837	C5H12O	3-methyl-1-butanol	123-51-3	in benzene	1.799	1	7321	C6H8N2	phenylhydrazine	100-63-0	in benzene	1.670	1
5838	C5H12O	tert-pentyl-alcohol	75-85-4	in benzene	1.700	1	7446	C6H8O4	dimethyl maleate	624-48-6	in CCl4	2.479	1
5839	C5H12O	3-methyl-2-butanol	598-75-4	gas	1.817	1	7459	C6H8O6	ascorbic acid	50-81-7	in dioxane	3.957	1
5841	C5H12O	methyl butyl ether	628-28-4	in benzene	1.250	1	7464	C6H8O7	citric acid	77-92-9	gas	3.478	2
5844	C5H12O	methyl tert-butyl ether	1634-04-4	in benzene	1.361	1	7619	C6H10	1-methylcyclopentene	693-89-0	gas	0.000	2
5845	C5H12O	ethyl propyl ether	628-32-0	in benzene	1.160	1	7620	C6H10	3-methylcyclopentene	1120-62-3	gas	0.000	2
5846	C5H12O	ethyl isopropyl ether	625-54-7	in benzene	1.250	1	7621	C6H10	4-methylcyclopentene	1759-81-5	gas	0.306	2
5857	C5H12O2	ethylene glycol monopropyl ether	2807-30-9	in benzene	2.159	1	7622	C6H10	cyclohexene	110-83-8	gas	0.330	1
5858	C5H12O2	neopentyl glycol	126-30-7	in benzene	2.698	1	7626	C6H10	1,4-hexadiene	592-45-0	gas	0.000	2
5863	C5H12O2	1,5-pentanediol	111-29-5	in dioxane	2.371	1	7632	C6H10	cis-2,trans-4-hexadiene	5194-50-3	in benzene	0.309	1
5865	C5H12O2	2,4-pentanediol	625-69-4	in dioxane	2.629	1	7634	C6H10	trans-2,trans-4-hexadiene	5194-51-4	in benzene	0.309	1
5877	C5H12O2	diethoxymethane	462-95-3	gas	1.220	1	7644	C6H10	3-methyl-1,4-pentadiene	1115-08-8	gas	0.279	2
5899	C5H12O3	2-(2-methoxyethoxy)ethanol	111-77-3	in benzene	2.749	1	7647	C6H10	2,3-dimethyl-1,3-butadiene	513-81-5	gas	0.510	1
5912	C5H12O4	pentaerythritol	115-77-5	gas	2.009	1	7648	C6H10	1-hexyne	693-02-7	gas	0.830	1
5921	C5H12S	pentyl mercaptan	110-66-7	in benzene	1.511	1	7760	C6H10O	cyclohexanone	108-94-1	gas	3.088	1
5930	C5H12S	methyl butyl sulfide	628-29-5	gas	1.490	2	7761	C6H10O	mesityl oxide	141-79-7	in benzene	3.200	1
5935	C5H12S	3,3-dimethyl-2-thiabutane	6163-64-0	in benzene	1.559	1	7788	C6H10O	2-methyl-2-pentenal	623-36-9	gas	3.627	2
5947	C5H13N	pentylamine	110-58-7	in benzene	1.550	1	7813	C6H10O2	epsilon-caprolactone	502-44-3	gas	4.450	1
5951	C5H13N	1,1-dimethylpropylamine	594-39-8	gas	1.409	2	7814	C6H10O2	ethyl methacrylate	97-63-2	in benzene	2.150	1
5986	C5H13NO2	methyl diethanolamine	105-59-9	gas	2.860	1	7816	C6H10O2	allyl glycidyl ether	106-92-3	gas	1.862	2
6067	C6Cl6	hexachlorobenzene	118-74-1	in benzene	0.540	1	7848.1	C6H10O2	isopropyl acrylate	689-12-3	gas	2.281	2
6080	C6F6	hexafluorobenzene	392-56-3	in benzene	0.330	1	7849	C6H10O2	3,4-dihydro-2-methoxy-2H-pyran	4454-05-1	in benzene	1.979	1
6281	C6H3ClN2O4	1-chloro-2,4-dinitrobenzene	97-00-7	in benzene	3.238	1	7881	C6H10O3	ethylacetoacetate	141-97-9	gas	2.960	1
6296	C6H3Cl2NO2	1,2-dichloro-4-nitrobenzene	99-54-7	in benzene	2.171	1	7882	C6H10O3	propionic anhydride	123-62-6	in benzene	3.298	1
6305	C6H3Cl3	1,2,4-trichlorobenzene	120-82-1	in benzene	1.260	1	7888	C6H10O3	ethylene glycol monomethacrylate	868-77-9	in benzene	2.350	1
6306	C6H3Cl3	1,2,3-trichlorobenzene	87-61-6	in benzene	2.440	1	7917	C6H10O4	adipic acid	124-04-9	in dioxane	2.320	1
6307	C6H3Cl3	1,3,5-trichlorobenzene	108-70-3	in benzene	0.309	1	7918	C6H10O4	diethyl oxalate	95-92-1	in benzene	2.491	1
6367	C6H3N3O6	1,3,5-trinitrobenzene	99-35-4	in benzene	0.411	1	7919	C6H10O4	ethylene glycol diacetate	111-55-7	in benzene	2.340	1
6411	C6H4Br2	m-dibromobenzene	108-36-1	in benzene	1.469	1	7924	C6H10O4	dimethyl succinate	106-65-0	in benzene	2.159	1
6443	C6H4ClNO2	m-chloronitrobenzene	121-73-3	gas	3.730	1	7953.1	C6H10O5	dilactic acid	19201-34-4	gas	2.290	2
6444	C6H4ClNO2	o-chloronitrobenzene	88-73-3	gas	4.640	1	8096	C6H11N	N-allyl-2-propen-1-amine	124-02-7	in benzene	1.199	1
6445	C6H4ClNO2	p-chloronitrobenzene	100-00-5	gas	2.830	1	8101	C6H11NO	epsilon-caprolactam	105-60-2	in benzene	0.387	1
6469	C6H4Cl2	o-dichlorobenzene	95-50-1	gas	2.500	1	8102	C6H11NO	cyclohexanone oxime	100-64-1	in benzene	0.830	1
6470	C6H4Cl2	m-dichlorobenzene	541-73-1	gas	1.721	1	8214	C6H12	methylcyclopentane	96-37-7	liquid	0.000	1
6471	C6H4Cl2	p-dichlorobenzene	106-46-7	gas	0.000	2	8215	C6H12	cyclohexane	110-82-7	gas	0.609	1
6524	C6H4F2	m-difluorobenzene	372-18-9	gas	1.580	1	8216	C6H12	1-hexene	592-41-6	liquid	0.339	1
6525	C6H4F2	o-difluorobenzene	367-11-3	in benzene	2.400	1	8219	C6H12	trans-2-hexene	4050-45-7	gas	0.000	2
6567	C6H4N2	3-pyridinecarbonitrile	100-54-9	in benzene	0.345	1	8221	C6H12	cis-3-hexene	7642-09-3	in benzene	0.339	1
6580	C6H4N2O4	m-dinitrobenzene	99-65-0	in benzene	3.837	1	8222	C6H12	trans-3-hexene	13269-52-8	gas	0.000	1
6581	C6H4N2O4	o-dinitrobenzene	528-29-0	in benzene	6.296	1	8232	C6H12	3-methyl-trans-2-pentene	616-12-6	gas	0.000	2
6582	C6H4N2O4	p-dinitrobenzene	100-25-4	gas	0.000	1	8233	C6H12	2,3-dimethyl-1-butene	563-78-0	gas	0.000	2
6616	C6H4O2	p-benzoquinone	106-51-4	gas	0.000	1	8234	C6H12	2,3-dimethyl-2-butene	563-79-1	gas	0.000	2
6656	C6H5Br	bromobenzene	108-86-1	gas	1.700	1	8235	C6H12	3,3-dimethyl-1-butene	558-37-2	in benzene	0.000	1
6692	C6H5Cl	chlorobenzene	108-90-7	gas	1.691	1	8236	C6H12	2-ethyl-1-butene	760-21-4	gas	0.000	2
6720	C6H5ClO	m-chlorophenol	108-43-0	in benzene	2.171	1	8319	C6H12N2	6-aminohexanenitrile	2432-74-8	gas	3.358	2
6721	C6H5ClO	o-chlorophenol	95-57-8	in benzene	1.331	1	8385	C6H12N4	methenamine	100-97-0	in benzene	0.860	1
6722	C6H5ClO	p-chlorophenol	106-48-9	gas	2.111	1	8394	C6H12O	butyl vinyl ether	111-34-2	in benzene	1.250	1
6734	C6H5ClO3S	4-chlorobenzenesulfonic acid	98-66-8	gas	5.246	2	8400	C6H12O	cyclohexanol	108-93-0	in CCl4	1.859	1
6764	C6H5Cl3Si	trichlorophenylsilane	98-13-5	in benzene	2.410	1	8401	C6H12O	hexanal	66-25-1	gas	2.578	2
6769	C6H5F	fluorobenzene	462-06-6	gas	1.600	1	8409	C6H12O	2-hexanone	591-78-6	in benzene	2.680	1
6795	C6H5I	iodobenzene	591-50-4	gas	1.700	1	8410	C6H12O	3-hexanone	589-38-8	gas	2.869	2
6819	C6H5NO2	nitrobenzene	98-95-3	gas	0.423	1	8411	C6H12O	3-methyl-2-pentanone	565-61-7	gas	2.773	2
6822	C6H5NO2	3-pyridinecarboxylic acid	59-67-6	in benzene	2.530	1	8412	C6H12O	4-methyl-2-pentanone	108-10-1	in benzene	2.689	1
6876	C6H6	benzene	71-43-2	gas	0.000	1	8413	C6H12O	ethyl isopropyl ketone	565-69-5	gas	3.118	2
6923	C6H6ClN	m-chloroaniline	108-42-9	in benzene	2.940	1	8414	C6H12O	3,3-dimethyl-2-butanone	75-97-8	in benzene	2.749	1
6924	C6H6ClN	o-chloroaniline	95-51-2	in benzene	1.770	1	8460	C6H12O2	hexanoic acid	142-62-1	in dioxane	1.571	1
6925	C6H6ClN	p-chloroaniline	106-47-8	in benzene	2.989	1	8463	C6H12O2	2,2-dimethylbutanoic acid	595-37-9	gas	1.871	2
6979	C6H6N2	cis-dicyano-1-butene	2141-58-4	gas	6.386	2	8468	C6H12O2	pentyl formate	638-49-3	gas	1.901	1
6980	C6H6N2	trans-dicyano-1-butene	2141-59-5	gas	0.977	2	8476	C6H12O2	butyl acetate	123-86-4	liquid	1.841	1
6996	C6H6N2O2	m-nitroaniline	99-09-2	in benzene	4.900	1	8477	C6H12O2	isobutyl acetate	110-19-0	in benzene	1.871	1
6997	C6H6N2O2	o-nitroaniline	88-74-4	in benzene	4.060	1	8478	C6H12O2	sec-butyl acetate	105-46-4	in benzene	1.859	1
6998	C6H6N2O2	p-nitroaniline	100-01-6	in benzene	6.290	1	8479	C6H12O2	tert-butyl acetate	540-88-5	in benzene	1.919	1
7039	C6H6N4	nitrilotrisacetonitrile	7327-60-8	gas	2.671	2	8480	C6H12O2	propyl propanoate	106-36-5	in benzene	1.790	1
7057	C6H6O	phenol	108-95-2	gas	1.450	1	8482	C6H12O2	ethyl butanoate	105-54-4	in benzene	1.811	1
7070	C6H6O2	pyrocatechol	120-80-9	in benzene	2.599	1	8483	C6H12O2	ethyl isobutanoate	97-62-1	in benzene	2.070	1
7071	C6H6O2	resorcinol	108-46-3	in benzene	2.090	1	8485	C6H12O2	diacetone alcohol	123-42-2	in benzene	3.238	1
7072	C6H6O2	p-hydroquinone	123-31-9	in benzene	1.781	1	8531	C6H12O3	2-ethoxyethyl acetate	111-15-9	in benzene	2.250	1
7085	C6H6O3	1,2,3-benzenetriol	87-66-1	in benzene	3.178	1	8532	C6H12O3	hydroxycaproic acid	1191-25-9	gas	2.689	2
7102	C6H6O3S	benzenesulfonic acid	98-11-3	in benzene	3.807	1	8533	C6H12O3	paraldehyde	123-63-7	gas	1.430	1
7121	C6H6S	phenyl mercaptan	108-98-5	in benzene	1.229	1	8556	C6H12O3	DL-a-hydroxycaproic acid	6064-63-7	gas	2.521	2
7172	C6H7N	aniline	62-53-3	gas	1.529	1	8564	C6H12O3	propylene glycol monomethyl ether acetate	108-65-6	gas	1.799	1
7173	C6H7N	2-methylpyridine	109-06-8	in benzene	2.039	1	8609	C6H12O6	glucose	50-99-7	gas	2.749	2

Table 19 Dipole Moment - Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
8637	C6H12S	cyclohexanethiol	1569-69-3	liquid	1.640	1	10626	C7H7NO2	m-nitrotoluene	99-08-1	in benzene	4.227	1
8724	C6H13I	1-iodohexane	638-45-9	in CCl4	1.841	1	10627	C7H7NO2	o-nitrotoluene	88-72-2	in benzene	3.750	1
8742	C6H13N	cyclohexylamine	108-91-8	in hexane	1.310	1	10628	C7H7NO2	p-nitrotoluene	99-99-0	in benzene	4.437	1
8758	C6H13N	N-ethyl-2-methylallylamine	18328-90-0	gas	0.731	2	10660	C7H7NO3	o-nitroanisole	91-23-6	gas	4.830	1
8877	C6H14	hexane	110-54-3	gas	0.000	2	10725	C7H8	toluene	108-88-3	gas	0.360	1
8878	C6H14	2,2-dimethylbutane	75-83-2	gas	0.000	2	10766	C7H8Cl2Si	dichloromethylphenylsilane	149-74-6	gas	2.401	1
8879	C6H14	2,3-dimethylbutane	79-29-8	gas	0.000	2	10850	C7H8O	anisole	100-66-3	gas	1.361	1
8880	C6H14	2-methylpentane	107-83-5	gas	0.000	2	10851	C7H8O	benzyl alcohol	100-51-6	gas	1.709	1
8881	C6H14	3-methylpentane	96-14-0	gas	0.000	2	10852	C7H8O	m-cresol	108-39-4	gas	1.589	1
8935	C6H14N2O	1-piperazineethanol	103-76-4	gas	1.280	2	10853	C7H8O	o-cresol	95-48-7	gas	1.451	1
8944	C6H14N2O2	lysine	56-87-1	gas	1.979	2	10854	C7H8O	p-cresol	106-44-5	gas	1.559	1
8970	C6H14O	1-hexanol	111-27-3	in benzene	1.649	1	10866	C7H8O2	guaiacol	90-05-1	in benzene	2.458	1
8971	C6H14O	2-hexanol	626-93-7	gas	1.541	2	10867	C7H8O2	p-methoxyphenol	150-76-5	in benzene	1.919	1
8973	C6H14O	2-methyl-1-pentanol	105-30-6	gas	1.481	2	10914	C7H8O3S	2-methylbenzenesulfonic acid	88-20-0	gas	4.137	2
8974	C6H14O	3-methyl-1-pentanol	589-35-5	gas	1.487	2	10915	C7H8O3S	p-toluenesulfonic acid	104-15-4	gas	4.707	2
8976	C6H14O	4-methyl-2-pentanol	108-11-2	gas	1.700	1	10922	C7H8S	benzenemethanethiol	100-53-8	in benzene	1.439	1
8980	C6H14O	3-methyl-3-pentanol	77-74-7	gas	1.748	2	10953	C7H9N	benzylamine	100-46-9	in benzene	1.379	1
8993	C6H14O	dipropyl ether	111-43-3	gas	1.211	1	10954	C7H9N	N-methylaniline	100-61-8	in benzene	1.691	1
8995	C6H14O	diisopropyl ether	108-20-3	gas	1.130	1	10955	C7H9N	m-toluidine	108-44-1	in benzene	——	1
8996	C6H14O	methyl pentyl ether	628-80-8	gas	1.241	1	10956	C7H9N	o-toluidine	95-53-4	in benzene	1.601	1
9004	C6H14O	ethyl butyl ether	628-81-9	in benzene	1.220	1	10957	C7H9N	p-toluidine	106-49-0	in benzene	1.310	1
9020	C6H14O2	acetal	105-57-7	gas	1.079	1	10961	C7H9N	2,6-dimethylpyridine	108-48-5	in benzene	1.679	1
9021	C6H14O2	2-butoxyethanol	111-76-2	in benzene	2.081	1	11047	C7H10	2-norbornene	498-66-8	in heptane	0.399	1
9022	C6H14O2	hexylene glycol	107-41-5	in dioxane	2.860	1	11079	C7H10N2	m-toluenediamine	95-80-7	gas	1.799	2
9027	C6H14O2	1,6-hexanediol	629-11-8	in dioxane	2.500	1	11080	C7H10N2	2-methyl-1,3-benzenediamine	823-40-5	gas	1.907	2
9057	C6H14O2	1-(1-methylethoxy)-2-propanol	3944-36-3	gas	2.111	2	11138	C7H10O	3-cyclohexene-1-carboxaldehyde	100-50-5	gas	2.404	2
9059	C6H14O2	1-propoxy-2-propanol	1569-01-3	gas	1.970	2	11340	C7H12	1-heptyne	628-71-7	gas	0.848	1
9060	C6H14O2	ethylene glycol diethyl ether	629-14-1	in benzene	1.649	1	11356	C7H12	cycloheptene	628-92-2	gas	0.450	1
9069	C6H14O2S	dipropyl sulfone	598-03-8	in benzene	4.467	1	11450	C7H12O2	butyl acrylate	141-32-2	in benzene	1.931	1
9075	C6H14O3	diethylene glycol dimethyl ether	111-96-6	in benzene	1.970	1	11450.1	C7H12O2	sec-butyl acrylate	8/5/2998	gas	1.718	2
9077	C6H14O3	2-(2-ethoxyethoxy)ethanol	111-90-0	in benzene	2.779	1	11452	C7H12O2	propyl methacrylate	2210-28-8	in benzene	2.120	1
9092	C6H14O4	triethylene glycol	112-27-6	liquid	5.580	1	11456	C7H12O2	cyclohexyl formate	4351-54-6	gas	4.047	2
9107	C6H14S	hexyl mercaptan	111-31-9	in benzene	1.529	1	11458	C7H12O2	cyclopentaneacetic acid	1123-00-8	gas	1.841	2
9112	C6H14S	dipropyl sulfide	111-47-7	in benzene	1.601	1	11493	C7H12O2	vinyl pivalate	3377-92-2	gas	1.844	2
9123	C6H14S	3,3-dimethyl-2-thiapentane	13286-92-5	gas	1.490	2	11515	C7H12O3	1,2-propanediol 1-methacrylate	923-26-2	gas	2.320	1
9126	C6H14S	2,2-dimethyl-3-thiapentane	14290-92-7	in octane	1.640	1	11530	C7H12O4	diethyl malonate	105-53-3	in benzene	2.540	1
9130	C6H14S2	dipropyl disulfide	629-19-6	in benzene	1.979	1	11537	C7H12O4	heptanedioic acid	111-16-0	in dioxane	2.389	1
9135	C6H15Al	triethyl aluminum	97-93-8	in benzene	0.600	1	11696	C7H14	ethylcyclopentane	1640-89-7	gas	0.000	2
9173	C6H15N	hexylamine	111-26-2	in benzene	1.589	1	11697	C7H14	1,1-dimethylcyclopentane	1638-26-2	gas	0.000	2
9202	C6H15N	di-propylamine	142-84-7	in benzene	1.070	1	11699	C7H14	cis-1,2-dimethylcyclopentane	1192-18-3	gas	0.000	2
9208	C6H15N	dimethylbutylamine	927-62-8	gas	0.815	2	11700	C7H14	trans-1,2-dimethylcyclopentane	822-50-4	gas	0.000	2
9212	C6H15N	triethylamine	121-44-8	gas	0.660	1	11702	C7H14	cis-1,3-dimethylcyclopentane	2532-58-3	gas	0.000	2
9217	C6H15NO	2-diethylaminoethanol	100-37-8	in benzene	2.431	1	11703	C7H14	trans-1,3-dimethylcyclopentane	1759-58-6	gas	0.000	2
9239	C6H15NO3	triethanolamine	102-71-6	in dioxane	1.079	1	11704	C7H14	methylcyclohexane	108-87-2	gas	0.000	2
9268	C6H15O4P	triethyl phosphate	78-40-0	in benzene	3.088	1	11705	C7H14	cycloheptane	291-64-5	gas	0.000	2
9292	C6H16N2	hexamethylenediamine	124-09-4	in benzene	1.910	1	11706	C7H14	1-heptene	592-76-7	liquid	0.339	1
9295	C6H16N2	N,N,N',N'-tetramethyl-1,2-ethanediamine	110-18-9	gas	0.000	2	11717	C7H14	5-methyl-1-hexene	3524-73-0	gas	0.000	2
9356	C6H18N3OP	hexamethyl phosphoramide	680-31-9	in benzene	5.540	1	11729	C7H14	2-ethyl-1-pentene	3404-71-5	gas	0.000	2
9362	C6H18OSi2	hexamethyldisiloxane	107-46-0	gas	0.660	1	11730	C7H14	3-ethyl-1-pentene	4038-04-4	gas	0.000	2
9366	C6H18O3Si3	hexamethylcyclotrisiloxane	541-05-9	in benzene	0.000	1	11744	C7H14	2,3,3-trimethyl-1-butene	594-56-9	gas	0.000	2
9378	C6H19NSi2	hexamethyldisilazane	999-97-3	in benzene	0.420	1	11827	C7H14O	1-heptanal	111-71-7	in benzene	2.578	1
9684	C7H4ClF3	p-chlorobenzotrifluoride	98-56-6	gas	1.580	1	11829	C7H14O	2-heptanone	110-43-0	in benzene	2.611	1
9927	C7H5ClO	benzoyl chloride	98-88-4	in benzene	3.328	1	11830	C7H14O	3-heptanone	106-35-4	in benzene	2.809	1
9932	C7H5ClO2	o-chlorobenzoic acid	118-91-2	in dioxane	2.450	1	11831	C7H14O	4-heptanone	123-19-3	in benzene	2.500	1
9967	C7H5Cl3	benzotrichloride	98-07-7	in benzene	2.040	1	11843	C7H14O	2,4-dimethyl-3-pentanone	565-80-0	in benzene	2.731	1
10003	C7H5F3	benzotrifluoride	98-08-8	gas	2.860	1	11844	C7H14O	1-methylcyclohexanol	590-67-0	in dioxane	1.649	1
10045	C7H5N	benzonitrile	100-47-0	gas	4.167	1	11845	C7H14O	cis-2-methylcyclohexanol	7443-70-1	in benzene	1.646	1
10049	C7H5NO	phenyl isocyanate	103-71-9	in CCl4	2.419	1	11846	C7H14O	trans-2-methylcyclohexanol	7443-52-9	in benzene	1.709	1
10097	C7H5NS2	2(3H)-benzothiazolethione	149-30-4	in benzene	4.017	1	11847	C7H14O	cis-3-methylcyclohexanol	5454-79-5	in benzene	1.772	1
10118	C7H5N3O6	2,4,6-trinitrotoluene	118-96-7	in benzene	1.160	1	11848	C7H14O	trans-3-methylcyclohexanol	7443-55-2	in benzene	1.637	1
10127	C7H5N5O8	N-methyl-N,2,4,6-tetranitroaniline	479-45-8	gas	2.359	2	11849	C7H14O	cis-4-methylcyclohexanol	7731-28-4	in benzene	1.730	1
10252	C7H6Cl2	benzyl dichloride	98-87-3	in benzene	2.030	1	11850	C7H14O	trans-4-methylcyclohexanol	7731-29-5	in benzene	1.730	1
10253	C7H6Cl2	2,4-dichlorotoluene	95-73-8	in benzene	1.950	1	11884	C7H14O2	heptanoic acid	111-14-8	gas	1.679	2
10363	C7H6N2O4	2,4-dinitrotoluene	121-14-2	in benzene	4.317	1	11891	C7H14O2	hexyl formate	629-33-4	gas	1.874	2
10364	C7H6N2O4	2,5-dinitrotoluene	619-15-8	in benzene	0.579	1	11892	C7H14O2	pentyl acetate	628-63-7	gas	1.721	1
10365	C7H6N2O4	2,6-dinitrotoluene	606-20-2	in benzene	2.809	1	11895	C7H14O2	isopentyl acetate	123-92-2	in benzene	1.799	1
10366	C7H6N2O4	3,4-dinitrotoluene	610-39-9	in benzene	6.386	1	11901	C7H14O2	butyl propanoate	590-01-2	in benzene	1.800	1
10367	C7H6N2O4	3,5-dinitrotoluene	618-85-9	in benzene	4.317	1	11905	C7H14O2	propyl butanoate	105-66-8	liquid	1.750	1
10404	C7H6O	benzaldehyde	100-52-7	gas	3.208	1	11908	C7H14O2	propyl isobutanoate	644-49-5	gas	1.889	1
10408	C7H6O2	benzoic acid	65-85-0	in benzene	1.001	1	11909	C7H14O2	ethyl isovalerate	108-64-5	in benzene	1.970	1
10409	C7H6O2	p-hydroxybenzaldehyde	123-08-0	in benzene	3.957	1	11925	C7H14O2	2-methylhexanoic acid	4536-23-6	gas	1.892	2
10410	C7H6O2	salicylaldehyde	90-02-8	in benzene	3.088	1	11927.1	C7H14O2	allyl-tert-butylperoxide	39972-78-6	gas	0.510	2
10420	C7H6O3	salicylic acid	69-72-7	in dioxane	2.650	1	11927.2	C7H14O2	neoheptanoic acid	1185-39-3	gas	1.901	2
10462	C7H7Br	p-bromotoluene	106-38-7	liquid	1.900	1	11931	C7H14O3	ethyl-3-ethoxypropionate	763-69-9	gas	0.857	2
10492	C7H7Cl	benzyl chloride	100-44-7	in benzene	1.890	1	11934.1	C7H14O3	propylene glycol ethyl ether acetate	54839-24-6	gas	2.911	2
10493	C7H7Cl	o-chlorotoluene	95-49-8	gas	1.559	1	11982	C7H15Br	1-bromoheptane	629-04-9	gas	2.159	1
10494	C7H7Cl	p-chlorotoluene	106-43-4	gas	2.209	1	12112	C7H16	heptane	142-82-5	gas	0.000	2
10555	C7H7F	p-fluorotoluene	352-32-9	in benzene	1.680	2	12113	C7H16	2-methylhexane	591-76-4	liquid	0.000	1
10611	C7H7NO	formanilide	103-70-8	in CCl4	3.370	1	12114	C7H16	3-methylhexane	589-34-4	liquid	0.000	1
10614	C7H7NO	benzamide	55-21-0	in benzene	3.777	1	12115	C7H16	3-ethylpentane	617-78-7	liquid	0.000	1

Table 19 Dipole Moment - Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
12116	C7H16	2,2-dimethylpentane	590-35-2	liquid	0.000	1	14605	C8H14O2	cyclohexyl acetate	622-45-7	in benzene	1.919	1
12117	C7H16	2,3-dimethylpentane	565-59-3	liquid	0.000	1	14654.1	C8H14O2	2-oxolan-2-yloxolane	106538-38-9	gas	2.188	2
12118	C7H16	2,4-dimethylpentane	108-08-7	liquid	0.000	1	14688	C8H14O4	diethyl succinate	123-25-1	in benzene	2.159	1
12119	C7H16	3,3-dimethylpentane	562-49-2	liquid	0.000	1	14698	C8H14O4	octanedioic acid	505-48-6	in dioxane	2.359	1
12120	C7H16	2,2,3-trimethylbutane	464-06-2	liquid	0.000	1	14706	C8H14O4	2,6-dimethyl-1,3-dioxan-4-ol acetate, cis an*	828-00-2	gas	3.328	2
12121	C7H16	3-methylhexane, (S)-	6131-24-4	gas	0.000	2	14861	C8H16	propylcyclopentane	2040-96-2	gas	0.000	2
12164	C7H16O	1-heptanol	111-70-6	in benzene	1.739	1	14862	C8H16	isopropylcyclopentane	3875-51-2	gas	0.000	1
12165	C7H16O	2-heptanol	543-49-7	in benzene	1.730	1	14863	C8H16	1-methyl-1-ethylcyclopentane	16747-50-5	gas	0.000	1
12168	C7H16O	2-methyl-1-hexanol	624-22-6	gas	1.478	1	14877	C8H16	ethylcyclohexane	1678-91-7	gas	0.000	2
12212.1	C7H16O	isopropyl isobutyl ether	78448-33-6	gas	1.280	2	14878	C8H16	1,1-dimethylcyclohexane	590-66-9	gas	0.000	2
12213	C7H16O	2-ethoxy-2-methylbutane	919-94-8	gas	1.541	2	14881	C8H16	trans-1,2-dimethylcyclohexane	6876-23-9	gas	0.000	2
12217	C7H16O	1-(1-methylethoxy)butane	1860-27-1	gas	1.271	2	14883	C8H16	cis-1,3-dimethylcyclohexane	638-04-0	gas	0.000	2
12272	C7H16O2	1-tert-butoxy-2-propanol	57018-52-7	gas	2.188	2	14884	C8H16	trans-1,3-dimethylcyclohexane	2207-03-6	gas	0.000	2
12275.1	C7H16O2	propylene glycol 2-tert-butyl ether	94023-15-1	gas	1.970	2	14886	C8H16	cis-1,4-dimethylcyclohexane	624-29-3	gas	0.000	2
12275.2	C7H16O2	diethylene glycol monopropyl ether	6881-94-3	gas	1.490	2	14887	C8H16	trans-1,4-dimethylcyclohexane	2207-04-7	gas	0.000	2
12282	C7H16O3	dipropylene glycol monomethyl ether	34590-94-8	gas	2.470	2	14888	C8H16	cyclooctane	292-64-8	gas	0.000	1
12295	C7H16O4	triethylene glycol monomethyl ether	112-35-6	gas	0.000	2	14890	C8H16	1-octene	111-66-0	liquid	0.339	1
12300	C7H16S	heptyl mercaptan	1639-09-4	liquid	1.550	1	14892	C8H16	cis-2-octene	7642-04-8	gas	0.309	1
12315	C7H17N	heptylamine	111-68-2	in benzene	1.600	1	14894	C8H16	cis-3-octene	14850-22-7	gas	0.290	1
12520	C8H4Cl2O2	isophthaloyl chloride	99-63-8	in benzene	5.156	1	14895	C8H16	trans-3-octene	14919-01-8	liquid	0.000	1
12594	C8H4O3	phthalic anhydride	85-44-9	in benzene	5.290	1	14897	C8H16	cis-4-octene	7642-15-1	liquid	2.599	1
12713	C8H6	ethynylbenzene	536-74-3	gas	0.657	1	14898	C8H16	trans-4-octene	14850-23-8	liquid	0.000	1
12918	C8H6O2	1,4-benzenedicarboxaldehyde	623-27-8	in benzene	2.350	1	14899	C8H16	2-methyl-1-heptene	15870-10-7	gas	0.000	2
12928	C8H6O3	2-formylbenzoic acid	119-67-5	gas	4.407	1	14903	C8H16	6-methyl-1-heptene	5026-76-6	gas	0.000	2
12932	C8H6O3	4-formylbenzoic acid	619-66-9	gas	3.298	1	14929	C8H16	2-ethyl-1-hexene	1632-16-2	gas	0.000	2
12934	C8H6O4	isophthalic acid	121-91-5	in dioxane	2.269	1	14932	C8H16	2,3-dimethyl-1-hexene	16746-86-4	gas	0.000	2
12935	C8H6O4	phthalic acid	88-99-3	in dioxane	2.599	1	14979	C8H16	2,4,4-trimethyl-1-pentene	107-39-1	gas	0.000	2
12947	C8H6S	benzothiophene	95-15-8	in benzene	0.630	1	14986	C8H16	2,4,4-trimethyl-2-pentene	107-40-4	gas	0.000	2
13107	C8H7N	indole	120-72-9	in benzene	2.081	1	15062	C8H16O	2-ethylhexanal	123-05-7	in benzene	2.660	1
13108	C8H7N	benzeneacetonitrile	140-29-4	in benzene	3.508	1	15063	C8H16O	1-octanal	124-13-0	in heptane	2.320	1
13237	C8H8	styrene	100-42-5	liquid	0.130	1	15066	C8H16O	2-octanone	111-13-7	in benzene	2.461	1
13391	C8H8O	acetophenone	98-86-2	gas	3.028	1	15156	C8H16O2	octanoic acid	124-07-2	in dioxane	1.700	1
13392	C8H8O	p-tolualdehyde	104-87-0	in dioxane	3.300	1	15157	C8H16O2	2-ethylhexanoic acid	149-57-5	in CCl4	0.809	1
13394	C8H8O	2-methylbenzaldehyde	529-20-4	in benzene	2.839	1	15159	C8H16O2	heptyl formate	112-23-2	gas	1.871	2
13395	C8H8O	3-methylbenzaldehyde	620-23-5	in benzene	2.929	1	15160	C8H16O2	hexyl acetate	142-92-7	gas	1.799	1
13401	C8H8O	phthalan	496-14-0	gas	1.787	2	15175	C8H16O2	butyl butanoate	109-21-7	in benzene	2.051	1
13405	C8H8O	4-vinylphenol	2628-17-3	gas	1.340	2	15183	C8H16O2	1,4-cyclohexanedimethanol	105-08-8	gas	2.239	2
13412	C8H8O2	methyl benzoate	93-58-3	in benzene	2.530	1	15220	C8H16O3	2-butoxyethyl acetate	112-07-2	gas	3.148	2
13413	C8H8O2	o-toluic acid	118-90-1	in benzene	1.700	1	15354	C8H18	octane	111-65-9	gas	0.000	2
13416	C8H8O2	benzyl formate	104-57-4	in benzene	1.841	1	15355	C8H18	2-methylheptane	592-27-8	gas	0.000	2
13427	C8H8O2	1-(2-hydroxyphenyl)ethanone	118-93-4	in benzene	3.238	1	15356	C8H18	3-methylheptane	589-81-1	gas	0.000	2
13429	C8H8O2	1-(4-hydroxyphenyl)ethanone	99-93-4	inb	3.777	1	15357	C8H18	4-methylheptane	589-53-7	gas	0.000	2
13445	C8H8O3	methyl salicylate	119-36-8	in benzene	2.470	1	15358	C8H18	3-methyl-3-ethylpentane	1067-08-9	gas	0.000	2
13446	C8H8O3	vanillin	121-33-5	in benzene	2.869	1	15359	C8H18	3-ethylhexane	619-99-8	gas	0.000	2
13671	C8H9NO	acetanilide	103-84-4	in benzene	4.047	1	15360	C8H18	3-ethyl-2-methylpentane	609-26-7	gas	0.000	2
13705	C8H9NO2	N-(4-hydroxyphenyl)acetamide	103-90-2	in dioxane	3.957	1	15361	C8H18	2,2-dimethylhexane	590-73-8	gas	0.000	2
13789	C8H10	ethylbenzene	100-41-4	gas	0.600	1	15362	C8H18	2,3-dimethylhexane	584-94-1	gas	0.000	2
13790	C8H10	o-xylene	95-47-6	gas	0.630	1	15363	C8H18	2,4-dimethylhexane	589-43-5	gas	0.000	2
13791	C8H10	m-xylene	108-38-3	liquid	0.300	1	15364	C8H18	2,5-dimethylhexane	592-13-2	gas	0.000	2
13792	C8H10	p-xylene	106-42-3	gas	0.000	2	15365	C8H18	3,3-dimethylhexane	563-16-6	gas	0.000	2
13912	C8H10O	phenetole	103-73-1	gas	1.409	1	15366	C8H18	3,4-dimethylhexane	583-48-2	gas	0.000	2
13913	C8H10O	2-phenylethanol	60-12-8	in benzene	1.649	1	15367	C8H18	2,2,3-trimethylpentane	564-02-3	gas	0.000	2
13914	C8H10O	2-methylbenzenemethanol	89-95-2	gas	1.472	2	15368	C8H18	2,2,4-trimethylpentane	540-84-1	liquid	0.000	1
13915	C8H10O	3-methylbenzenemethanol	587-03-1	gas	1.532	2	15369	C8H18	2,3,3-trimethylpentane	560-21-4	gas	0.000	2
13916	C8H10O	4-methylbenzenemethanol	589-18-4	gas	1.820	1	15370	C8H18	2,3,4-trimethylpentane	565-75-3	gas	0.000	2
13917	C8H10O	1-phenylethanol	98-85-1	in benzene	1.511	1	15371	C8H18	2,2,3,3-tetramethylbutane	594-82-1	gas	0.000	2
13918	C8H10O	o-ethylphenol	90-00-6	in benzene	1.571	1	15372	C8H18	octane, mixture	---	gas	0.000	2
13919	C8H10O	m-ethylphenol	620-17-7	in benzene	1.691	1	15430	C8H18O	1-octanol	111-87-5	in benzene	1.649	1
13920	C8H10O	p-ethylphenol	123-07-9	in benzene	1.781	1	15431	C8H18O	2-octanol	123-96-6	in benzene	1.649	1
13921	C8H10O	2,3-xylenol	526-75-0	in benzene	1.250	1	15454	C8H18O	2-ethyl-1-hexanol	104-76-7	in benzene	1.760	1
13922	C8H10O	2,4-xylenol	105-67-9	in benzene	1.391	1	15527	C8H18O	dibutyl ether	142-96-1	gas	1.169	1
13923	C8H10O	2,5-xylenol	95-87-4	in benzene	1.430	1	15533	C8H18O	ethyl hexyl ether	5756-43-4	gas	1.211	2
13924	C8H10O	2,6-xylenol	576-26-1	in benzene	1.409	1	15539	C8H18O	isobutyl ether	628-55-7	gas	1.250	2
13925	C8H10O	3,4-xylenol	95-65-8	gas	1.769	1	15554	C8H18O2	2,2,4-trimethyl-1,3-pentanediol	144-19-4	gas	2.770	2
13926	C8H10O	3,5-xylenol	108-68-9	in benzene	1.760	1	15556	C8H18O2	di-t-butyl peroxide	110-05-4	in benzene	0.920	1
14082	C8H11N	N,N-dimethylaniline	121-69-7	gas	1.679	1	15558	C8H18O2	ethylene glycol monohexyl ether	112-25-4	gas	2.260	1
14083	C8H11N	o-ethylaniline	578-54-1	gas	1.055	2	15571	C8H18O2S	dibutyl sulfone	598-04-9	in benzene	4.467	1
14095	C8H11N	N-ethylaniline	103-69-5	in benzene	1.700	1	15579	C8H18O3	diethylene glycol monobutyl ether	112-34-5	in benzene	2.350	1
14096	C8H11N	2,4,6-trimethylpyridine	108-75-8	in benzene	2.039	1	15587.1	C8H18O3	dipropylene glycol monoethyl ether	30025-38-8	gas	1.178	2
14230.1	C8H12	methylnorbornene	694-92-8	gas	1.508	2	15591	C8H18O4	triethylene glycol dimethyl ether	112-49-2	in benzene	2.239	1
14306	C8H12N2O2	hexamethylene diisocyanate	822-06-0	gas	3.238	2	15592	C8H18O4	triethylene glycol monoethyl ether	112-50-5	gas	0.295	2
14380	C8H12O4	diethyl maleate	141-05-9	in benzene	2.560	1	15595	C8H18O4S	dibutyl sulfate	625-22-9	gas	4.137	2
14413.1	C8H12S	3-ethyl-2,5-dimethylthiophene	55735-23-4	gas	0.222	2	15598	C8H18O5	tetraethylene glycol	112-60-7	in dioxane	3.238	1
14484	C8H14	1-octyne	629-05-0	in benzene	0.959	1	15602	C8H18S	octyl mercaptan	111-88-6	in benzene	1.610	1
14496	C8H14	2,5-dimethyl-1,5-hexadiene	627-58-7	gas	0.000	2	15604	C8H18S	tert-octyl mercaptan	141-59-3	gas	1.670	2
14497	C8H14	2,5-dimethyl-2,4-hexadiene	764-13-6	gas	0.000	2	15606	C8H18S	dibutyl sulfide	544-40-1	in benzene	1.570	2
14505	C8H14	cyclooctene	931-88-4	in heptane	0.821	1	15614	C8H18S2	dibutyl disulfide	629-45-8	in benzene	1.990	2
14588	C8H14O	2-ethyl-2-hexenal	645-62-5	gas	1.478	2	15631	C8H19N	octylamine	111-86-4	in benzene	1.421	1
14599	C8H14O2	butyl methacrylate	97-88-1	in benzene	2.150	1	15637	C8H19N	dibutylamine	111-92-2	in benzene	0.980	1
14601	C8H14O2	isobutyl methacrylate	97-86-9	gas	3.088	2	15730	C8H20Si	tetraethylsilane	631-36-7	in benzene	0.390	1

Table 19 Dipole Moment - Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
15755	C8H24O2Si3	octamethyltrisiloxane	107-51-7	in octane	1.079	1	18206	C9H20	2,2,3,3-tetramethylpentane	7154-79-2	gas	0.000	2
15756	C8H24O4Si4	octamethylcyclotetrasiloxane	556-67-2	in benzene	0.660	1	18207	C9H20	2,2,3,4-tetramethylpentane	1186-53-4	gas	0.000	2
15903	C9H6N2O2	toluene diisocyanate	584-84-9	in benzene	2.521	1	18208	C9H20	2,2,4,4-tetramethylpentane	1070-87-7	gas	0.000	2
15946	C9H6O6	1,2,4-benzenetricarboxylic acid	528-44-9	in dioxane	3.268	1	18209	C9H20	2,3,3,4-tetramethylpentane	16747-38-9	gas	0.000	1
16010	C9H7N	isoquinoline	119-65-3	in benzene	2.488	1	18236	C9H20O	1-nonanol	143-08-8	in benzene	1.610	1
16011	C9H7N	quinoline	91-22-5	gas	2.290	1	18237	C9H20O	2-nonanol	628-99-9	gas	1.550	2
16018	C9H7NO	8-hydroxyquinoline	148-24-3	in benzene	2.680	1	18355	C9H20O3	di(propylene glycol) propyl ether, isomers	29911-27-1	gas	1.679	2
16090	C9H8	indene	95-13-6	in benzene	0.670	1	18360	C9H20O4	tripropylene glycol	24800-44-0	gas	0.411	2
16185	C9H8O	2-methylbenzofuran	4265-25-2	gas	1.622	2	18371	C9H20S	tert-nonyl mercaptan, isomers	25360-10-5	gas	1.649	1
16204	C9H8O2	trans-cinnamic acid	140-10-3	gas	1.310	2	18388	C9H21N	nonylamine	112-20-9	gas	0.899	2
16233	C9H8O4	2-(acetyloxy)benzoic acid	50-78-2	in dioxane	2.090	1	18393	C9H21N	tripropylamine	102-69-2	in benzene	0.740	1
16246.1	C9H8S	2-methyl benzothiophene	1195-14-8	gas	1.124	2	18601	C10H7Br	1-bromonaphthalene	90-11-9	liquid	1.290	1
16508	C9H10	indane	496-11-7	in benzene	0.540	1	18606	C10H7Cl	1-chloronaphthalene	90-13-1	liquid	1.330	1
16509	C9H10	cis-1-propenylbenzene	766-90-5	in benzene	0.720	1	18669	C10H8	naphthalene	91-20-3	gas	0.000	2
16510	C9H10	trans-1-propenylbenzene	873-66-5	in benzene	0.720	1	18670	C10H8	azulene	275-51-4	in benzene	1.080	2
16512	C9H10	alpha-methylstyrene	98-83-9	in benzene	0.737	1	18849	C10H9N	2-methylquinoline	91-63-4	in benzene	1.940	1
16513	C9H10	m-methylstyrene	100-80-1	in benzene	0.360	1	18963	C10H10	1-methylindene	767-59-9	gas	0.000	2
16514	C9H10	o-methylstyrene	611-15-4	in benzene	0.480	1	18964	C10H10	2-methylindene	2177-47-1	gas	0.000	2
16619	C9H10O	alpha-methylbenzeneacetaldehyde	93-53-8	in benzene	2.809	1	19195	C10H10O4	dimethyl phthalate	131-11-3	in benzene	2.779	1
16676	C9H10O2	ethyl benzoate	93-89-0	gas	2.000	1	19196	C10H10O4	dimethyl terephthalate	120-61-6	in benzene	2.189	1
16680	C9H10O2	benzyl acetate	140-11-4	in benzene	1.799	1	19201	C10H10O4	dimethyl isophthalate	1459-93-4	in benzene	2.230	1
16686	C9H10O2	phenyl glycidyl ether	122-60-1	gas	2.042	2	19313	C10H11NO2	acetoacetanilide	102-01-2	gas	3.897	1
16707.1	C9H10O2	phenyl ethyl formate	7775-38-4	gas	3.957	2	19359	C10H12	1,2,3,4-tetrahydronaphthalene	119-64-2	in benzene	0.219	1
16711	C9H10O3	ethyl vanillin	121-32-4	gas	4.197	2	19387	C10H12	(1-methylenepropyl)benzene	2039-93-2	gas	0.000	2
16732	C9H10O3	4-methoxybenzeneacetic acid	104-01-8	gas	1.340	2	19484	C10H12O	anethole	104-46-1	in benzene	1.499	1
16905	C9H11NO	p-dimethylaminobenzaldehyde	100-10-7	in benzene	5.576	1	19553	C10H12O2	propyl benzoate	2315-68-6	in toluene	1.829	1
16940	C9H11NO2	L-phenylalanine	63-91-2	gas	1.790	2	19865	C10H14	butylbenzene	104-51-8	in benzene	0.369	1
17004	C9H12	cumene	98-82-8	liquid	0.390	1	19866	C10H14	isobutylbenzene	538-93-2	liquid	0.312	1
17005	C9H12	m-ethyltoluene	620-14-4	liquid	0.330	1	19867	C10H14	sec-butylbenzene	135-98-8	in benzene	0.390	1
17006	C9H12	o-ethyltoluene	611-14-3	liquid	0.561	1	19868	C10H14	tert-butylbenzene	98-06-6	gas	0.699	1
17007	C9H12	p-ethyltoluene	622-96-8	in benzene	0.000	1	19870	C10H14	m-cymene	535-77-3	gas	0.360	2
17008	C9H12	1,2,3-trimethylbenzene	526-73-8	liquid	0.561	1	19871	C10H14	o-cymene	527-84-4	gas	0.600	2
17009	C9H12	1,2,4-trimethylbenzene	95-63-6	liquid	0.300	1	19872	C10H14	p-cymene	99-87-6	liquid	0.000	1
17011	C9H12	mesitylene	108-67-8	liquid	0.000	1	19873	C10H14	1-methyl-2-propylbenzene	1074-17-5	gas	0.129	2
17012	C9H12	propylbenzene	103-65-1	in benzene	0.369	1	19874	C10H14	1-methyl-3-propylbenzene	1074-43-7	gas	0.122	2
17013	C9H12	ethylidene norbornene	16219-75-3	gas	0.205	2	19875	C10H14	1-methyl-4-propylbenzene	1074-55-1	gas	0.000	2
17018	C9H12	5-vinyl-2-norbornene, endo and exo	3048-64-4	gas	0.112	1	19878	C10H14	o-diethylbenzene	135-01-3	liquid	0.590	1
17091	C9H12O	benzenepropanol	122-97-4	in benzene	1.640	1	19879	C10H14	m-diethylbenzene	141-93-5	liquid	0.360	1
17096	C9H12O	alpha-ethylbenzenemethanol	93-54-9	gas	1.589	2	19880	C10H14	p-diethylbenzene	105-05-5	liquid	0.000	1
17099	C9H12O	2-phenyl-1-propanol	1123-85-9	gas	1.391	2	19885	C10H14	5-ethyl-m-xylene	934-74-7	gas	0.201	2
17100	C9H12O	1-phenyl-2-propanol	698-87-3	gas	1.571	2	19887	C10H14	1,2,3,4-tetramethylbenzene	488-23-3	gas	0.000	2
17138	C9H12O2	cumene hydroperoxide	80-15-9	in benzene	1.785	1	19889	C10H14	1,2,4,5-tetramethylbenzene	95-93-2	in CCl4	0.000	1
17395.1	C9H14	ethylnorbene	15403-89-1	gas	0.384	2	19992	C10H14O	4-tert-butylphenol	98-54-4	in benzene	1.619	1
17395.2	C9H14	1-methyl-4-vinylcyclohexene	17699-86-4	gas	0.000	2	20042	C10H14O	1-methyl-3-(1-methylethoxy)benzene	19177-04-9	gas	0.165	2
17395.3	C9H14	propenyl cyclohexene	13511-13-2	gas	0.000	2	20089	C10H14O2	p-tert-butylcatechol	98-29-3	in dioxane	2.830	1
17436	C9H14O	isophorone	78-59-1	in dioxane	3.990	2	20174	C10H14O5	2-(methacryloyloxy)ethyl acetoacetate	21282-97-3	gas	0.059	2
17513	C9H14O6	glyceryl triacetate	102-76-1	in benzene	2.580	1	20195	C10H15N	N,N-dietyhlaniline	91-66-7	in benzene	1.811	1
17518.1	C9H14O7	trilatic acid	78024-33-6	gas	3.897	2	20196	C10H15N	2,6-diethylaniline	579-66-8	gas	1.286	2
17546	C9H15N	N,N-diallyl-2-propen-1-amine	102-70-5	gas	0.654	2	20316	C10H16	D-limonene	5989-27-5	in benzene	1.570	1
17593	C9H16	1-nonyne	3452-09-3	gas	0.115	2	20321	C10H16	alpha-pinene	80-56-8	in benzene	0.360	1
17755	C9H16O4	azelaic acid	123-99-9	in dioxane	2.350	1	20323	C10H16	beta-pinene	127-91-3	gas	0.390	2
17859	C9H18	butylcyclopentane	2040-95-1	gas	0.000	1	20325	C10H16	alpha-terpinene	99-86-5	gas	0.000	2
17916	C9H18	propylcyclohexane	1678-92-8	gas	0.000	2	20326	C10H16	gamma-terpinene	99-85-4	gas	0.195	2
17917	C9H18	isopropylcyclohexane	696-29-7	gas	0.000	1	20327	C10H16	terpinolene	586-62-9	gas	0.000	2
17939	C9H18	cis,trans-1,3,5-trimethylcyclohexane	1795-26-2	gas	0.000	2	20353	C10H16	tricyclo[3.3.1.13,7]decane	281-23-2	in benzene	0.000	1
17942	C9H18	1-nonene	124-11-8	gas	0.360	2	20412	C10H16N2O8	ethylenediaminetetraacetic acid	60-00-4	gas	0.690	2
17946	C9H18	2-methyl-1-octene	4588-18-5	gas	0.000	2	20423	C10H16O	camphor	76-22-2	in benzene	3.100	1
17948.1	C9H18	7-methyl-1-octene	13151-06-9	gas	0.000	2	20526	C10H16O4	dimethyl cyclohexane-1,4-dicarboxylate; (cis*	94-60-0	in benzene	2.090	1
17997	C9H18O	1-nonanal	124-19-6	gas	0.000	2	20593	C10H18	1-decyne	764-93-2	gas	0.119	2
17998	C9H18O	diisobutyl ketone	108-83-8	in CCl4	2.659	1	20601	C10H18	cis-decahydronaphthalene	493-01-6	gas	0.000	1
17999	C9H18O	2-nonanone	821-55-6	in benzene	2.740	1	20602	C10H18	trans-decahydronaphthalene	493-02-7	gas	0.000	1
18010	C9H18O	5-nonanone	502-56-7	in benzene	2.740	1	20744	C10H18O	a-terpineol	98-55-5	gas	1.472	2
18052	C9H18O2	nonanoic acid	112-05-0	gas	1.679	2	20820	C10H18O4	sebacic acid	111-20-6	in dioxane	2.400	1
18057	C9H18O2	2-methyloctanoic acid	3004-93-1	gas	0.714	1	20923	C10H20	butylcyclohexane	1678-93-9	gas	0.000	2
18059	C9H18O2	heptyl acetate	112-06-1	gas	1.820	2	20943	C10H20	1-decene	872-05-9	in benzene	0.420	1
18071	C9H18O2	butyl valerate	591-68-4	gas	2.069	2	20947	C10H20	2-methyl-1-nonene	2980-71-4	gas	0.000	2
18099.1	C9H18O3	triacetone alcohol	3682-91-5	gas	3.298	2	20947.1	C10H20	cis-2-decene	20348-51-0	gas	0.300	2
18176	C9H20	nonane	111-84-2	gas	0.000	2	20947.2	C10H20	trans-2-decene	20063-97-2	gas	0.000	2
18177	C9H20	2-methyloctane	3221-61-2	gas	0.000	2	20947.3	C10H20	8-methyl-1-nonene	26741-24-2	gas	0.000	2
18178	C9H20	3-methyloctane	2216-33-3	gas	0.000	2	20947.4	C10H20	1,1-diethylcyclohexane	78-01-3	gas	0.000	2
18179	C9H20	4-methyloctane	2216-34-4	gas	0.000	2	20947.5	C10H20	1,2,3,4-tetramethylcyclohexane	3726-45-2	gas	0.000	2
18180	C9H20	3-ethylheptane	15869-80-4	gas	0.000	2	20992	C10H20O	decanal	112-31-2	gas	2.578	2
18181	C9H20	4-ethylheptane	2216-32-2	gas	0.000	2	21028	C10H20O	(1R,2S,5R)-(-)-menthol	2216-51-5	gas	1.751	1
18182	C9H20	2,2-dimethylheptane	1071-26-7	gas	0.000	2	21040	C10H20O2	decanoic acid	334-48-5	in dioxane	1.679	1
18186	C9H20	2,6-dimethylheptane	1072-05-5	gas	0.000	2	21043	C10H20O2	nonyl formate	5451-92-3	gas	1.880	2
18196	C9H20	2,2,5-trimethylhexane	3522-94-9	gas	0.000	2	21044	C10H20O2	2-ethylhexyl acetate	103-09-3	gas	1.883	2
18200	C9H20	2,4,4-trimethylhexane	16747-30-1	gas	0.000	1	21045	C10H20O2	octyl acetate	112-14-1	in benzene	1.841	1
18202	C9H20	3,3-diethylpentane	1067-20-5	in benzene	0.000	1	21052	C10H20O2	isopentyl isovalerate	659-70-1	gas	2.179	2
18203	C9H20	2,2-dimethyl-3-ethylpentane	16747-32-3	gas	0.000	2	21083	C10H20O4	diethylene glycol monobutyl ether acetate	124-17-4	gas	2.141	2
18205	C9H20	2,4-dimethyl-3-ethylpentane	1068-87-7	gas	0.000	2	21133	C10H22	decane	124-18-5	gas	0.000	2

Table 19 Dipole Moment - Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
21134	C10H22	2-methylnonane	871-83-0	gas	0.000	2	24140	C12H16	methylcyclopentadiene dimer	26472-00-4	gas	0.248	2
21135	C10H22	3-methylnonane	5911-04-6	gas	0.000	2	24357	C12H18	hexylbenzene	1077-16-3	gas	0.000	2
21136	C10H22	4-methylnonane	17301-94-9	gas	0.000	2	24365	C12H18	1,2,4-triethylbenzene	877-44-1	gas	0.000	2
21137	C10H22	5-methylnonane	15869-85-9	gas	0.000	2	24366	C12H18	1,3,5-triethylbenzene	102-25-0	in benzene	0.100	1
21140	C10H22	2,2-dimethyloctane	15869-87-1	gas	0.000	2	24378	C12H18	hexamethylbenzene	87-85-4	in benzene	0.070	1
21141	C10H22	2,3-dimethyloctane	7146-60-3	gas	0.000	2	24378.1	C12H18	p-tert-butyl ethylbenzene	7364-19-4	gas	0.100	2
21142	C10H22	2,4-dimethyloctane	4032-94-4	gas	0.000	2	24378.2	C12H18	1,5,9-cyclododecatriene	706-31-0	gas	0.000	2
21143	C10H22	2,5-dimethyloctane	15869-89-3	gas	0.000	2	24378.3	C12H18	1,2,3-triethylebenzene	42205-08-3	gas	0.115	2
21144	C10H22	2,6-dimethyloctane	2051-30-1	gas	0.000	2	24412	C12H18N2O2	isophorone diisocyanate	4098-71-9	gas	1.235	2
21145	C10H22	2,7-dimethyloctane	1072-16-8	gas	0.000	2	24477.1	C12H18O2	m-diisopropylbenzene hydroperoxide	26762-93-6	gas	0.579	2
21175	C10H22	3,3,5-trimethylheptane	7154-80-5	gas	0.000	2	24532	C12H20	1,3-dimethyladamantane	702-79-4	gas	0.000	2
21190	C10H22	2,2,3,3-tetramethylhexane	13475-81-5	gas	0.000	2	24559	C12H20O	[1,1'-bicyclohexyl]-2-one	90-42-6	in benzene	2.920	1
21195	C10H22	2,2,5,5-tetramethylhexane	1071-81-4	gas	0.000	2	24774	C12H22O11	sucrose	57-50-1	in pyridine	2.800	1
21224	C10H22O	1-decanol	112-30-1	in benzene	1.619	1	24782.1	C12H22S	dicyclohexyl sulfide	7133-46-2	gas	1.598	2
21335	C10H22O	di-pentyl ether	693-65-2	in CCl4	1.199	1	24804	C12H23N	dicyclohexylamine	101-83-7	in heptane	1.061	1
21349	C10H22O2	1,10-decanediol	112-47-0	gas	2.144	2	24823	C12H24	1-dodecene	112-41-4	in benzene	0.519	1
21359	C10H22O2	2-(2-ethylhexyloxy)ethanol	1559-35-9	gas	0.321	2	24823.1	C12H24	cis-2-dodecene	7206-26-0	gas	0.000	2
21369	C10H22O3	di(ethylene glycol) hexyl ether	112-59-4	gas	1.529	2	24823.2	C12H24	trans-2-dodecene	7206-13-5	gas	0.000	2
21370	C10H22O3	di(propylene glycol) tert-butyl ether, isome*	132739-31-2	gas	3.088	2	24852	C12H24O	dodecanal	112-54-9	gas	2.578	2
21376	C10H22O4	2-[2-(2-butoxyethoxy)ethoxy]ethanol	143-22-6	gas	0.229	2	24855.1	C12H24O	isobutyl heptyl ketone	123-18-2	gas	2.470	2
21378	C10H22O4	(2-(2-methoxy methyl ethoxy)methyl ethoxy)pr*	25498-49-1	gas	3.568	2	24867	C12H24O2	dodecanoic acid	143-07-7	in dioxane	1.640	1
21380	C10H22O5	tetraethylene glycol dimethyl ether	143-24-8	in benzene	2.470	1	24869	C12H24O2	decyl acetate	112-17-4	gas	1.841	2
21385	C10H22S	decyl mercaptan	143-10-2	gas	1.649	2	24885.1	C12H24O3	2,2,4-trimethyl-1,3-pentanediol monoisobutyr*	77-68-9	gas	2.953	2
21389	C10H22S	ethyl octyl sulfide	3698-94-0	gas	1.382	2	24914	C12H26	dodecane	112-40-3	gas	0.000	2
21400	C10H23N	decylamine	2016-57-1	in benzene	1.409	1	24915	C12H26	3-methylundecane	1002-43-3	gas	0.000	2
21405	C10H23N	dipentylamine	2050-92-2	gas	1.199	1	25277	C12H26O	1-dodecanol	112-53-8	in benzene	1.691	1
21420	C10H24N2	N,N'-di-tert-butylethylenediamine	4062-60-6	gas	0.986	2	25310	C12H26S	1-dodecanethiol	112-55-0	gas	1.670	2
21457	C10H28N6	pentaethylenehexamine	4067-16-7	gas	1.421	2	25317	C12H26S	tert-dodecylmercaptan	25103-58-6	gas	1.471	2
21461	C10H30O3Si4	decamethyltetrasiloxane	141-62-8	liquid	1.220	1	25327	C12H27BO3	tributyl borate	688-74-4	in benzene	0.779	1
21463	C10H30O5Si5	decamethylcyclopentasiloxane	541-02-6	gas	1.349	1	25340	C12H27N	dodecylamine	124-22-1	gas	0.881	2
21601	C11H10	1-methylnaphthalene	90-12-0	in benzene	0.510	1	25346	C12H27N	tributylamine	102-82-9	in benzene	0.780	1
21602	C11H10	2-methylnaphthalene	91-57-6	in benzene	0.420	1	25420	C12H36O4Si5	dodecamethylpentasiloxane	141-63-9	liquid	0.950	1
21791.1	C11H12	p-isopropylenylstyrene	16262-48-9	gas	0.000	2	25421	C12H36O4Si5	tetrakis(trimethylsilyloxy)silane	3555-47-3	gas	1.559	1
22113	C11H14O2	butyl benzoate	136-60-7	in toluene	1.811	1	25537	C13H9N	acridine	260-94-6	in benzene	2.150	1
22304	C11H16	pentylbenzene	538-68-1	gas	0.000	2	25575	C13H10	fluorene	86-73-7	in benzene	0.249	1
22327	C11H16	1-ethyl-2-isopropylbenzene	18970-44-0	gas	0.119	2	25623	C13H10O	benzophenone	119-61-9	in benzene	2.980	1
22354	C11H16	pentamethylbenzene	700-12-9	in benzene	0.069	1	25738	C13H12	diphenylmethane	101-81-5	in benzene	0.770	1
22399	C11H16O	p-tert-amylphenol	80-46-6	gas	1.382	2	25903	C13H14	1-propylnaphthalene	2765-18-6	gas	0.000	2
22701	C11H20O2	2-ethylhexyl acrylate	103-11-7	gas	2.839	2	26217	C13H18O2	ibuprofen	15687-27-1	gas	2.779	2
22795	C11H22	1-undecene	821-95-4	in benzene	0.531	1	26469	C13H26	1-tridecene	2437-56-1	gas	0.000	2
22822	C11H22O	undecanal	112-44-7	gas	2.578	2	26486	C13H26O	1-tridecanal	10486-19-8	gas	2.578	2
22835	C11H22O2	undecanoic acid	112-37-8	gas	1.700	1	26492	C13H26O2	tridecanoic acid	638-53-9	gas	1.649	2
22836	C11H22O2	decyl formate	5451-52-5	gas	1.880	2	26502	C13H26O2	butyl nonanoate	50623-57-9	gas	2.179	2
22837	C11H22O2	nonyl acetate	143-13-5	gas	1.841	2	26505	C13H26O2	methyl dodecanoate	111-82-0	in dioxane	1.700	1
22848	C11H22O2	methyl decanoate	110-42-9	gas	2.081	1	26526	C13H28	tridecane	629-50-5	gas	0.000	2
22890	C11H24	undecane	1120-21-4	gas	0.000	2	26535	C13H28O	1-tridecanol	112-70-9	gas	1.649	2
23055	C11H24O	1-undecanol	112-42-5	in benzene	1.670	1	26654	C14H8O2	anthraquinone	84-65-1	gas	0.000	2
23081.1	C11H24O4	tripropylene glycol monoethyl ether	75899-69-3	gas	1.586	2	26728	C14H10	anthracene	120-12-7	gas	0.000	1
23084	C11H24S	1-undecanethiol	5332-52-5	gas	1.670	2	26729	C14H10	diphenylacetylene	501-65-5	in benzene	0.300	1
23223	C12H6N2O2	1,5-diisocyanatonaphthalene	3173-72-6	gas	0.000	2	26730	C14H10	phenanthrene	85-01-8	in benzene	0.000	1
23261	C12H8	acenaphthylene	208-96-8	in hexane	0.300	1	26788	C14H10O4	benzoyl peroxide	94-36-0	in benzene	1.601	1
23335	C12H8O	dibenzofuran	132-64-9	in benzene	0.881	1	26866	C14H12	cis-stilbene	645-49-8	gas	0.000	1
23344	C12H8O4	2,6-naphthalenedicarboxylic acid	1141-38-4	gas	0.287	2	26867	C14H12	trans-stilbene	103-30-0	gas	0.000	1
23348	C12H8S	dibenzothiophene	132-65-0	in benzene	0.791	1	26942	C14H12O2	benzyl benzoate	120-51-4	in benzene	2.440	1
23394	C12H9N	dibenzopyrrole	86-74-8	in benzene	2.110	1	26987.1	C14H12O4	dimethyl-2,6-naphthalenedicarboxylate	840-65-3	gas	2.932	2
23437.1	C12H9N3O4	4,4'-dinitrodiphenylamine	1821-27-8	in dioxane	5.126	1	27052	C14H14	1,1-diphenylethane	612-00-0	gas	0.000	2
23444	C12H10	acenaphthene	83-32-9	in benzene	0.255	1	27053	C14H14	1,2-diphenylethane	103-29-7	gas	0.455	1
23445	C12H10	phenylbenzene (biphenyl)	92-52-4	gas	0.000	2	27138	C14H14O	dibenzyl ether	103-50-4	in benzene	1.390	1
23472	C12H10Cl2Si	dichlorodiphenylsilane	80-10-4	in benzene	2.581	1	27267	C14H16	1-butylnaphthalene	1634-09-9	gas	0.690	1
23500	C12H10N2O2	4-nitro-N-phenylaniline	836-30-6	in benzene	5.996	1	27268	C14H16	2-butylnaphthalene	1134-62-9	not specified	0.750	2
23502	C12H10N2O2	2-nitro-N-phenylaniline	119-75-5	in benzene	4.130	1	27289.1	C14H16	2,6-diethylnaphthalene	59919-41-4	gas	0.145	2
23519	C12H10O	diphenyl ether	101-84-8	in benzene	1.160	1	27497	C14H18O4	dipropyl phthalate	131-16-8	in benzene	2.839	1
23607	C12H11N	p-aminodiphenyl	92-67-1	in benzene	1.760	1	27506.1	C14H18O8	di-1-glyceryl terephthalate	66032-51-76	gas	3.478	2
23609	C12H11N	diphenylamine	122-39-4	in benzene	1.079	1	27566.1	C14H20	diamantane	2292-79-7	gas	0.399	2
23656	C12H11N3	p-aminoazobenzene	60-09-3	in benzene	2.479	1	27646	C14H22	1,2,3,5-tetraethylbenzene	38842-05-6	gas	0.196	2
23675	C12H12	1,2-dimethylnaphthalene	573-98-8	gas	0.680	2	27648	C14H22	1,4-di-tert-butylbenzene	1012-72-2	in benzene	0.579	1
23676	C12H12	1,3-dimethylnaphthalene	575-41-7	gas	0.360	2	27679	C14H22O	p-tert-octylphenol	140-66-9	gas	1.223	2
23678	C12H12	1,5-dimethylnaphthalene	571-61-9	gas	0.070	2	27850	C14H28	1-tetradecene	1120-36-1	liquid	0.381	1
23679	C12H12	1,6-dimethylnaphthalene	575-43-9	gas	0.320	2	27873	C14H28O2	tetradecanoic acid	544-63-8	gas	1.679	2
23680	C12H12	1,7-dimethylnaphthalene	575-37-1	gas	0.540	2	27912	C14H30	tetradecane	629-59-4	gas	0.000	2
23682	C12H12	2,3-dimethylnaphthalene	581-40-8	gas	0.690	2	27922	C14H30O	1-tetradecanol	112-72-1	in benzene	1.550	1
23683	C12H12	2,6-dimethylnaphthalene	581-42-0	gas	0.140	1	27956	C14H31N	tetradecylamine	2016-42-4	gas	0.881	2
23684	C12H12	2,7-dimethylnaphthalene	582-16-1	gas	0.411	1	27973	C14H42O5Si6	tetradecamethylhexasiloxane	107-52-8	liquid	1.580	1
23686	C12H12	2-ethylnaphthalene	939-27-5	gas	0.000	2	28135.1	C15H12	1-phenylindene	1961-96-2	gas	0.000	2
23718	C12H12N2	p-aminodiphenylamine	101-54-2	in benzene	2.069	1	28429	C15H16O	p-cumylphenol	599-64-4	gas	4.437	2
23719	C12H12N2	hydrazobenzene	122-66-7	in benzene	1.850	1	28497	C15H18	1-pentylnaphthalene	86-89-5	gas	0.000	2
23720	C12H12N2	p-benzidine	92-87-5	in benzene	1.541	1	28756	C15H24O	2,6-di-tert-butyl-p-cresol	128-37-0	gas	1.319	2
24002	C12H14O4	diethyl phthalate	84-66-2	in benzene	2.731	1	28757	C15H24O	nonylphenol	25154-52-3	gas	1.238	2
24139	C12H16	4-tert-butylstyrene	1746-23-2	gas	0.000	2	28862.1	C15H30	trans-2-pentadecene	74392-36-2	gas	0.000	2
24139.1	C12H16	4-isobutylstyrene	63444-56-4	gas	0.468	2	28879	C15H30O2	pentadecanoic acid	1002-84-2	in dioxane	1.721	1

Table 19 Dipole Moment - Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
28904	C15H32	pentadecane	629-62-9	gas	0.000	2	33674	C23H40	heptadecylbenzene	14752-75-1	gas	0.000	2
28912	C15H32O	1-pentadecanol	629-76-5	gas	1.649	2	33706	C23H48	tricosane	638-67-5	gas	0.000	2
28936	C15H33N	tripentylamine	621-77-2	in benzene	1.031	1	33925	C24H38O4	dioctyl phthalate	117-84-0	in benzene	2.839	2
28984	C16H10	fluoranthene	206-44-0	gas	0.228	1	33926	C24H38O4	bis(2-ethylhexyl) phthalate	117-81-7	in benzene	2.839	1
28985	C16H10	pyrene	129-00-0	in benzene	0.000	1	33930	C24H38O4	bis(2-ethylhexyl) terephthalate	4654-26-6	in benzene	2.539	1
29024	C16H12	1-phenylnaphthalene	605-02-7	gas	0.000	2	33931.1	C24H38O4	heptyl nonyl phthalate	19295-81-9	gas	3.358	2
29290.1	C16H16O2	trans-3,5-dimethoxystilbene	21956-56-9	gas	1.253	2	33959	C24H42	octadecylbenzene	4445-07-2	gas	0.000	2
29359.1	C16H18	4-ethyl-bibenzyl	7439-15-8	gas	0.000	2	33960	C24H42O	dinonylphenol	1323-65-5	gas	1.490	2
29518	C16H22O4	dibutyl phthalate	84-74-2	in benzene	2.821	1	34002	C24H50	tetracosane	646-31-1	gas	0.000	2
29595	C16H26	decylbenzene	104-72-3	gas	0.000	2	34018	C24H51N	trioctylamine	1116-76-3	gas	0.800	1
29596	C16H26	pentaethylbenzene	605-01-6	gas	0.000	2	34061	C25H20	tetraphenylmethane	630-76-2	in benzene	0.000	1
29707	C16H32	1-hexadecene	629-73-2	in benzene	0.510	1	34197	C25H52	pentacosane	629-99-2	gas	0.000	2
29721	C16H32O2	hexadecanoic acid	57-10-3	in dioxane	1.739	1	34221	C26H20	tetraphenylethylene	632-51-9	gas	0.000	1
29754	C16H34	hexadecane	544-76-3	gas	0.000	2	34234	C26H22	1,1,2,2-tetraphenylethane	632-50-8	in benzene	0.000	1
29760	C16H34	2,2,4,4,6,8,8-heptamethylnonane	4390-04-9	gas	0.000	2	34316	C26H42O4	diisononyl phthalate	28553-12-0	gas	3.717	2
29766	C16H34O	1-hexadecanol	36653-82-4	in benzene	1.670	1	34317	C26H42O4	dinonyl phthalate	84-76-4	in benzene	2.920	1
29791	C16H34S	dioctyl sulfide	2690-08-6	in benzene	1.550	1	34319.1	C26H42O4	heptyl undecyl phthalate	65185-88-8	gas	3.358	2
29797	C16H34S2	dioctyl disulfide	822-27-5	in benzene	1.990	2	34364	C26H54	hexacosane	630-01-3	gas	0.000	2
29800	C16H35N	dioctylamine	1120-48-5	gas	1.166	2	34528	C27H46O	cholesterol	57-88-5	in benzene	1.721	1
29805	C16H35N	bis(2-ethylhexyl)amine	106-20-7	gas	0.914	2	34563	C27H56	heptacosane	593-49-7	gas	0.000	2
29839	C16H48O6Si7	hexadecamethylheptasiloxane	541-01-5	liquid	1.211	1	34692	C28H46O4	didecyl phthalate	84-77-5	gas	3.687	2
30325	C17H34O2	heptadecanoic acid	506-12-7	in dioxane	1.691	1	34732	C28H58	octacosane	630-02-4	gas	0.000	2
30330	C17H34O2	isopropyl tetradecanoate	110-27-0	gas	2.099	2	34808	C29H50O	stigmast-5-en-3-ol, (3beta)	83-46-5	in CCl4	1.931	1
30346	C17H36	heptadecane	629-78-7	gas	0.000	2	34827	C29H60	nonacosane	630-03-5	gas	0.000	2
30352	C17H36O	1-heptadecanol	1454-85-9	gas	1.649	2	34922.1	C30H48O6	tri-n-heptyl trimellitate	1528-48-9	gas	3.148	2
30406	C18H12	chrysene	218-01-9	in benzene	0.699	1	34932	C30H50O4	diundecyl phthalate	3648-20-2	gas	3.448	2
30407	C18H12	benz[a]anthracene	56-55-3	gas	0.000	1	34948	C30H60	1-triacontene	18435-53-5	gas	0.237	2
30409	C18H12	naphthacene	92-24-0	gas	0.000	1	34961	C30H62	triacontane	638-68-6	gas	0.000	2
30457	C18H14	m-terphenyl	92-06-8	liquid	2.000	1	34962	C30H62	2,6,10,15,19,23-hexamethyltetracosane	111-01-3	gas	0.000	2
30458	C18H14	o-terphenyl	84-15-1	gas	0.103	2	35039	C31H64	hentriacontane	630-04-6	gas	0.000	2
30459	C18H14	p-terphenyl	92-94-4	in benzene	0.600	1	35126	C32H66	dotriacontane	544-85-4	gas	0.000	2
30562	C18H15OP	triphenylphosphine oxide	791-28-6	inb	4.287	1	35191	C33H68	tritriacontane	630-05-7	gas	0.000	2
30566	C18H15O4P	triphenyl phosphate	115-86-6	in benzene	2.809	1	35277	C34H70	tetratriacontane	14167-59-0	gas	0.000	2
30567	C18H15P	triphenylphosphine	603-35-0	in benzene	1.448	1	35326	C35H72	pentatriacontane	630-07-9	gas	0.000	2
30588	C18H16N2	N,N'-diphenyl-p-phenylenediamine	74-31-7	in benzene	1.841	1	35434	C36H74	hexatriacontane	630-06-8	gas	0.000	2
30779	C18H22	2,3-dimethyl-2,3-diphenylbutane	1889-67-4	in benzene	0.000	1	35490	C37H76	heptatriacontane	7194-84-5	gas	0.000	2
30947	C18H30	dodecylbenzene	123-01-3	gas	0.000	2	35530	C38H78	octatriacontane	7194-85-6	gas	0.000	2
30948	C18H30	hexaethylbenzene	604-88-6	gas	0.000	2	35567	C39H80	nonatriacontane	7194-86-7	gas	0.000	2
30964	C18H30O2	linolenic acid	463-40-1	in benzene	1.559	1	35630	C40H82	tetracontane	4181-95-7	gas	0.000	2
30991	C18H32O2	linoleic acid	60-33-3	in benzene	1.217	1	35660	C41H84	n-hentetracontane	7194-87-8	gas	0.000	2
31030	C18H34O2	oleic acid	112-80-1	liquid	1.439	1	35708	C42H86	n-dotetracontane	7098-20-6	gas	0.000	2
31041	C18H34O4	dibutyl sebacate	109-43-3	gas	2.479	1	35735	C43H88	tritetracontane	7098-21-7	gas	0.000	2
31042	C18H34O4	dihexyl adipate	110-33-8	gas	0.465	2	35763	C44H90	n-tetratetracontane	7098-22-8	gas	0.000	2
31071	C18H36	1-octadecene	112-88-9	liquid	0.369	1	35774	C45H92	n-pentatetracontane	---	gas	0.000	2
31097	C18H36O2	octadecanoic acid	57-11-4	in dioxane	1.670	1	35788	C46H94	n-hexatetracontane	7098-24-0	gas	0.000	2
31131	C18H38	octadecane	593-45-3	gas	0.000	2	35798	C47H96	n-heptatetracontane	---	gas	0.000	2
31140	C18H38O	1-octadecanol	112-92-5	in benzene	1.661	1	35816	C48H98	n-octatetracontane	7098-26-2	gas	0.000	2
31183	C18H54O7Si8	octadecamethyloctasiloxane	556-69-4	gas	0.000	2	35823	C49H100	n-nonatetracontane	---	gas	0.000	2
31328	C19H16	triphenylmethane	519-73-3	in benzene	0.210	1	35831	C50H102	n-pentacontane	6596-40-3	gas	0.000	2
31568	C19H26	1-nonylnaphthalene	26438-26-6	gas	0.000	2	35838	C51H104	n-henpentacontane	---	gas	0.000	2
31646	C19H32	tridecylbenzene	123-02-4	gas	0.000	2	35847	C52H106	n-dopentacontane	7719-79-1	gas	0.000	2
31708	C19H38O2	nonadecanoic acid	646-30-0	gas	1.649	2	35849	C53H108	n-tripentacontane	---	gas	0.000	2
31735	C19H40	nonadecane	629-92-5	gas	0.000	2	35869	C54H110	n-tetrapentacontane	5856-66-6	gas	0.000	2
31742	C19H40O	1-nonadecanol	1454-84-8	gas	1.649	2	35880	C55H112	n-pentapentacontane	5846-40-2	gas	0.000	2
32061	C20H18	1,1',1"-(1-ethanyl-2-ylidene)trisbenzene	1520-42-9	gas	0.137	2	35891	C56H114	n-hexapentacontane	7719-82-6	gas	0.000	2
32302	C20H28	1-decylnaphthalene	26438-27-7	gas	0.000	2	35898	C57H104O6	glycerol trioleate	122-32-7	in benzene	3.148	1
32349	C20H30O2	palustric acid	1945-53-5	gas	2.266	2	35900	C57H116	n-heptapentacontane	5856-67-7	gas	0.000	2
32350	C20H30O2	pimaric acid	127-27-5	gas	1.142	2	35904	C58H118	n-octapentacontane	7667-78-9	gas	0.000	2
32358	C20H30O2	neoabietic acid	471-77-2	gas	1.670	2	35908	C59H120	n-nonapentacontane	7667-79-0	gas	0.000	2
32358.1	C20H30O2	isopimaric acid	5835-26-7	gas	5.396	2	35922	C60H122	n-hexacontane	7667-80-3	gas	0.000	2
32359	C20H30O4	dihexyl phthalate	84-75-3	in benzene	2.899	1	35925	C61H124	n-henhexacontane	7667-81-4	gas	0.000	2
32391.1	C20H32O2	isoagatholal	17990-11-3	gas	3.568	2	35932	C62H126	n-dohexacontane	7719-83-7	gas	0.000	2
32399	C20H34	1-phenyltetradecane	1459-10-5	gas	0.000	2	35940	C63H128	n-trihexacontane	7719-84-8	gas	0.000	2
32407.1	C20H34O2	agathadiol	1857-24-5	gas	1.337	2	35943	C64H130	n-tetrahexacontane	7719-87-1	gas	0.000	2
32450.1	C20H38O2	cetyl methacrylate	2495-27-4	in toluene	1.811	1	35944	C65H132	n-pentahexacontane	7719-88-2	gas	0.000	2
32476	C20H40	1-eicosene	3452-07-1	gas	0.000	2	35949	C66H134	n-hexahexacontane	7719-89-3	gas	0.000	2
32476.1	C20H40	trans-2-eicosene	42448-85-1	gas	0.205	2	35952	C67H136	n-heptahexacontane	7719-90-6	gas	0.000	2
32491	C20H40O2	eicosanoic acid	506-30-9	gas	1.670	2	35956	C68H138	n-octahexacontane	7719-91-7	gas	0.000	2
32515	C20H42	eicosane	112-95-8	gas	0.000	2	35958	C69H140	n-nonahexacontane	7719-92-8	gas	0.000	2
32522	C20H42O	1-eicosanol	629-96-9	liquid	1.829	1	35960	C70H142	n-heptacontane	7719-93-9	gas	0.000	2
32787	C21H21O4P	tri-o-cresyl phosphate	78-30-8	in benzene	2.869	1	35961	C71H144	n-henheptacontane	7667-82-5	gas	0.000	2
32953	C21H30O2	dehydroabietic acid	1740-19-8	gas	1.919	2	35968	C72H146	n-doheptacontane	7667-83-6	gas	0.000	2
32998	C21H36	pentadecylbenzene	2131-18-2	gas	0.000	2	35970	C73H148	n-triheptacontane	7667-84-7	gas	0.000	2
33029	C21H40O4	glycerol 1-monooleate	111-03-5	gas	1.316	2	35972	C74H150	n-tetraheptacontane	7667-85-8	gas	0.000	2
33059	C21H44	heneicosane	629-94-7	gas	0.000	2	35975	C75H152	n-pentaheptacontane	7667-86-9	gas	0.000	2
33384	C22H34O4	diheptyl phthalate	3648-21-3	in benzene	2.680	1	35977	C76H154	n-hexaheptacontane	7667-87-0	gas	0.000	2
33401	C22H38	1-phenylhexadecane	1459-09-2	gas	0.000	2	35979	C77H156	n-heptaheptacontane	7719-94-0	gas	0.000	2
33440	C22H42O4	di-n-octyl adipate	123-79-5	gas	0.758	2	35980	C78H158	n-octaheptacontane	7719-85-9	gas	0.000	2
33466	C22H44O2	butyl stearate	123-95-5	in benzene	1.880	1	35982	C79H160	n-nonaheptacontane	7719-86-0	gas	0.000	2
33477	C22H46	docosane	629-97-0	gas	0.000	2	35984	C80H162	n-octacontane	7667-88-1	gas	0.000	2

Table 19 Dipole Moment - Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
35985	C81H164	n-henoctacontane	7667-89-2	gas	0.000	2	36003	C91H184	n-hennonacontane	7719-97-3	gas	0.000	2
35986	C82H166	n-dooctacontane	7719-95-1	gas	0.000	2	36004	C92H186	n-dononacontane	7667-95-0	gas	0.000	2
35987	C83H168	n-trioctacontane	7667-90-5	gas	0.000	2	36005	C93H188	n-trinonacontane	7667-96-1	gas	0.000	2
35990	C84H170	n-tetraoctacontane	7667-91-6	gas	0.000	2	36006	C94H190	n-tetranonacontane	1574-32-9	gas	0.000	2
35991	C85H172	n-pentaoctacontane	7719-96-2	gas	0.000	2	36008	C95H192	n-pentanonacontane	7667-97-2	gas	0.000	2
35992	C86H174	n-hexaoctacontane	7667-92-7	gas	0.000	2	36010	C96H194	n-hexanonacontane	7763-13-5	gas	0.000	2
35993	C87H176	n-heptaoctacontane	7667-93-8	gas	0.000	2	36011	C97H196	n-heptanonacontane	7670-25-9	gas	0.000	2
35998	C88H178	n-octaoctacontane	7667-94-9	gas	0.000	2	36012	C98H198	n-octanonacontane	7670-26-0	gas	0.000	2
36000	C89H180	n-nonaoctacontane	7719-76-8	gas	0.000	2	36013	C99H200	n-nonanonacontane	7670-27-1	gas	0.000	2
36002	C90H182	n-nonacontane	7667-51-8	gas	0.000	2	36014	C100H202	n-hectane	6703-98-6	gas	0.000	2
Code: 1 - data, 2 - estimate													
* Use ID or CAS No for complete name (See Chapther 1 of this book).													

Chapter 20

DIPOLE MOMENT – INORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 20. The tabulation is arranged by alphabetical order (Ag, Al, Ar, ..., Zr) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. The state of compound and value of dipole moment are given in the adjacent columns. The last column provides the code for the tabulation.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-17). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (2), Daubert and Danner (3), Landolt and Bornstein (6), and Yaws (16-17) were used extensively for the tabulation. The dipole moment which involves the first moment of the electric charge density of the compound is used in property correlations for polar compounds.

Example

In an engineering analysis, the dipole moment is needed for carbon monoxide (CO). Determine the dipole moment for carbon monoxide .

Inspection of the tabulation yields:

dipole moment = 0.112 Debye

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Table 20 Dipole Moment - Inorganic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
16	AgBr	silver bromide	7785-23-1	gas	5.620	1	1661	GeCl4	germanium chloride	10038-98-9	gas	0.000	1
35	AgCl	silver (i) chloride	7783-90-6	gas	6.080	1	1662	GeF2	germanium (ii) fluoride	13940-63-1	gas	2.610	1
40	AgF	silver (i) fluoride	7775-41-9	gas	6.220	1	1672	GeH3Cl	germane, chloro	13637-65-5	gas	2.130	1
45	AgI	silver (i) iodide	7783-96-2	gas	4.550	1	1673	GeH3F	germane, fluoro	13537-30-9	gas	2.330	1
82	AlBr3	aluminum bromide	7727-15-3	in benzene	5.220	1	1674.1	GeH3N3	germylazide	---	gas	2.579	1
86	AlC2H6Cl	aluminum, dimethyl chloride	1184-58-3	gas	1.631	1	1678	GeO	germanium (ii) oxide	20619-16-3	gas	3.282	1
88	AlC3H9	aluminum, trimethyl	75-24-1	gas	1.430	1	1680	GeS	germanium (ii) sulfide	12025-32-0	gas	2.000	1
96	AlC6H15	aluminum, triethyl	97-93-8	in benzene	0.600	1	1682	GeSe	germanium (ii) selenide	12065-10-0	gas	1.650	1
127	AlCl3	aluminum chloride	7446-70-0	gas	2.030	1	1684	GeTe	germanium (ii) telluride	12025-39-7	gas	1.060	1
146	AlI3	aluminum iodide	7784-23-8	in benzene	2.280	1	1691	HBr	hydrogen bromide	10035-10-6	gas	0.827	1
200	Ar	argon	7440-37-1	gas	0.000	1	1694	HCN	hydrogen cyanide	74-90-8	gas	2.980	1
203	AsBr3	arsenic (iii) bromide	7784-33-0	gas	1.610	1	1694.1	HCNO	hydrogen isocyanate	75-13-8	gas	1.600	1
228	AsCl3	arsenic trichloride	7784-34-1	gas	1.590	1	1694.2	HCNS	hydrogen isothiocyanate	3129-90-6	gas	1.700	1
230	AsF3	arsenic trifluoride	7784-35-2	gas	2.590	1	1695	HCl	hydrogen chloride	7647-01-0	gas	1.079	1
234	AsH3	arsine	7784-42-1	gas	0.201	1	1698	HF	hydrogen fluoride	7664-39-3	gas	1.820	1
238	AsI3	arsenic triiodide	7784-45-4	in dioxane	1.840	1	1698.1	HFO	hypofluorous acid	14034-79-8	gas	2.230	1
245	As2O3	arsenic trioxide	1327-53-3	gas	0.130	1	1699	HI	hydrogen iodide	10034-85-2	gas	0.448	1
285	BBr3	boron tribromide	10294-33-4	liquid	0.000	1	1701	HNO2	nitrous acid (cis)	7782-77-6	gas	1.423	1
361	BCl3	boron trichloride	10294-34-5	gas	0.000	1	1702	HNO3	nitric acid	7697-37-2	gas	2.170	1
363	BF3	boron trifluoride	7637-07-2	gas	0.000	1	1703	HN3	hydrazoic acid	7782-79-8	gas	1.700	1
394	B2H6	diborane	19287-45-7	gas	0.000	1	1703.1	HO	hydroxyl	---	gas	1.655	1
401	B3N3H6	borazine	6569-51-3	gas	0.000	1	1704	HOCl	hypochlorous acid	7790-92-3	gas	1.300	1
404	B4H10	tetraborane	18283-93-7	gas	0.486	1	1704.1	HOF	hypofluorous acid	---	gas	2.230	1
405	B5H9	pentaborane	19624-22-7	gas	2.130	1	1708.1	HS	mercapto	---	gas	0.758	1
407	B6H10	hexaborane	23777-80-2	gas	2.500	1	1709	H2	hydrogen	1333-74-0	gas	0.000	1
413	B10H14	decaborane	---	in benzene	3.520	1	1712	H2O	water	7732-18-5	gas	1.850	1
491	BaO	barium oxide	1304-28-5	gas	7.594	1	1713	H2O2	hydrogen peroxide	7722-84-1	gas	1.573	1
511	BaS	barium sulfide	21109-95-5	gas	10.860	1	1714	H2S	hydrogen sulfide	7783-06-4	gas	0.968	1
622	BrCl	bromine chloride	13863-41-7	gas	0.519	1	1716	H2SO4	sulfuric acid	7664-93-9	gas	2.725	1
624	BrF	bromine fluoride	13863-59-7	gas	1.422	1	1718	H2S2	hydrogen disulfide	13465-07-1	in dioxane	1.180	1
626	BrF3	bromine trifluoride	7787-71-5	gas	1.100	1	1719	H2Se	hydrogen selenide	7783-07-5	gas	0.240	1
628	BrF5	bromine pentafluoride	7789-30-2	gas	1.510	1	1721	H2Te	hydrogen telluride	7783-09-7	solid	0.400	1
631	BrNO	nitrosyl bromide	13444-87-6	gas	1.800	1	1722	H3NO	hydroxylamine	7803-49-8	gas	0.590	1
632	BrO2	bromine dioxide	21255-83-4	gas	2.800	1	1738	He	helium-3	14762-55-1	gas	0.000	1
633	Br2	bromine	7726-95-6	gas	0.000	1	1739	He	helium-4	7440-59-7	gas	0.000	1
641	CCl2O	carbonyl chloride	75-44-5	gas	1.170	1	1771	Hg	mercury	7439-97-6	gas	0.000	1
642	CF2O	carbonyl fluoride	353-50-4	gas	0.950	1	1773	HgBr2	mercuric bromide	7789-47-1	in dioxane	1.540	1
644	CH4N2O	urea	57-13-6	in dioxane	4.557	1	1800	HgCl2	mercuric chloride	7487-94-7	in dioxane	1.440	1
645	CH4N2S	thiourea	62-56-6	in benzene	5.067	1	1813	HgI2	mercuric iodide	7774-29-0	in dioxane	1.680	1
647	CNCl	cyanogen chloride	506-77-4	gas	2.820	1	1862	IBr	iodine bromide	7789-33-5	gas	0.726	1
651	CN4O8	tetranitromethane	509-14-8	gas	0.000	1	1863	ICl	iodine chloride	7790-99-0	gas	1.240	1
652	CO	carbon monoxide	630-08-0	gas	0.112	1	1865	IF	iodine fluoride	13873-84-2	gas	1.948	1
653	COS	carbonyl sulfide	463-58-1	gas	0.711	1	1868	IF5	iodine pentafluoride	7783-66-6	gas	2.180	1
654	COSe	carbon oxyselenide	1603-84-5	gas	0.730	1	1871.1	IO	iodine oxide	---	gas	2.450	1
655	CO2	carbon dioxide	124-38-9	gas	0.000	1	1873	I2	iodine	7553-56-2	gas	0.000	1
655.1	CS	carbon monosulfide	---	gas	1.980	1	1890	InCl	indium (i) chloride	13465-10-6	gas	3.790	1
656	CS2	carbon disulfide	75-15-0	gas	0.000	1	1895	InF	indium (i) fluoride	74508-07-9	gas	3.400	1
661	C2N2	cyanogen	460-19-5	gas	0.000	1	1917	Ir	iridium	7439-88-5	---	---	1
891	ClF	chlorine monofluoride	7790-89-8	gas	0.888	1	1960	K	potassium	7440-09-7	gas	0.000	1
892	ClFO3	perchloryl fluoride	7616-94-6	gas	0.023	1	1972	KBr	potassium bromide	7758-02-3	gas	10.629	1
893	ClF3	chlorine trifluoride	7790-91-2	gas	0.600	1	2009	KCl	potassium chloride	7447-40-7	gas	10.271	1
896	ClNO2	nitryl chloride	13444-90-1	gas	0.530	1	2018	KF	potassium fluoride	7789-23-3	gas	8.585	1
896.1	ClNS	thionitrosyl chloride	---	gas	1.870	1	2035	KI	potassium iodide	7681-11-0	gas	10.800	1
897.1	ClO	chlorine oxide	---	gas	1.297	1	2047	KOH	potassium hydroxide	1310-58-3	gas	7.415	1
898	ClO2	chlorine dioxide	10049-04-4	gas	1.784	1	2162	Kr	krypton	7439-90-9	gas	0.000	1
899	Cl2	chlorine	7782-50-5	gas	0.000	1	2190.1	LaO	lanthanum monooxide	---	gas	3.207	1
905	Cl2O7	chlorine heptoxide	10294-48-1	in CCl4	0.720	1	2213	LiBr	lithium bromide	7550-35-8	gas	7.268	1
1097.1	CrO	chromium (I) oxide	---	gas	3.880	1	2253	LiCl	lithium chloride	7447-41-8	gas	7.129	1
1099	CrO2Cl2	chromium oxychloride	14977-61-8	in CCl4	0.470	1	2261	LiF	lithium fluoride	7789-24-4	gas	6.327	1
1137	CsCl	cesium chloride	7647-17-8	gas	10.387	1	2265	LiH	lithium hydride	7580-67-8	gas	5.884	1
1140	CsF	cesium fluoride	13400-13-0	gas	7.884	1	2270	LiI	lithium iodide	10377-51-2	gas	7.428	1
1144	CsI	cesium iodide	7789-17-5	gas	10.200	1	2271.1	LiK	lithium potassium	---	gas	3.450	1
1148.1	CsNa	cesium sodium	---	gas	4.750	1	2276.1	LiO	lithium monoxide	---	gas	6.840	1
1229	CuCl	cuprous chloride	7758-89-6	gas	1.820	2	2277	LiOH	lithium hydroxide	1310-65-2	gas	4.754	1
1239	CuF	copper (i) fluoride	13478-41-6	gas	5.770	1	2281.1	LiRb	lithium rubidium	---	gas	4.000	1
1260	CuO	copper (ii) oxide	1317-38-0	gas	4.500	1	2429	MgO	magnesium oxide	1309-48-4	gas	6.200	1
1303	D2O	deuterium oxide	7789-20-0	gas	1.870	1	2607	NClO	nitrosyl chloride	2696-92-6	gas	1.901	1
1404.1	FH2N	fluoroamide	---	gas	2.370	1	2608	NCl3	nitrogen trichloride	10025-85-1	in benzene	0.600	1
1406	FNO	nitrosyl fluoride	7789-25-5	gas	1.730	1	2610	ND3	heavy ammonia	---	gas	1.500	1
1407	FNO2	nitryl fluoride	10022-50-1	gas	0.466	1	2613	NF3	nitrogen trifluoride	7783-54-2	gas	0.235	1
1408.1	FNS	thionitrosyl fluoride	---	gas	1.902	1	2615.1	NH	imidogen	---	gas	1.390	1
1408.2	FN3	fluorine azide	---	gas	1.300	1	2616	NHF2	difluoramine	10405-27-3	gas	1.920	1
1408.3	FO	fluorine oxide	---	gas	0.004	1	2616.1	NHO	nitrosyl hydride	---	gas	1.620	1
1408.4	FS	fluorine sulfide	---	gas	0.794	1	2619	NH3	ammonia	7664-41-7	gas	1.472	1
1409	F2	fluorine	7782-41-4	gas	0.000	1	2625	NH4Br	ammonium bromide	12124-97-9	in dioxane	6.750	1
1412	F2O	fluorine oxide	7783-41-7	gas	0.308	1	2649	NH6PO4	ammonium dihydrogen phosphate	7722-76-1	gas	2.770	1
1413	F2O2	difluorine dioxide	7783-44-0	gas	1.440	1	2674	NO	nitric oxide	10102-43-9	gas	0.153	1
1505	FeCl3	ferric chloride	7705-08-0	in dioxane	1.280	1	2675	NOF3	trifluoramine oxide	13847-65-9	gas	0.039	1
1585	GaCl3	gallium trichloride	13450-90-3	gas	0.850	1	2676	NO2	nitrogen dioxide	10102-44-0	gas	0.315	1
1586.1	GaF	gallium (i) fluoride	---	gas	2.450	1	2676.1	NP	nitrogen phosphorous	---	gas	2.747	1

Table 20 Dipole Moment - Inorganic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
2676.2	NS	nitrogen sulfide	---	gas	1.810	1	4044	SbCl5	antimony pentachloride	7647-18-9	gas	0.000	1
2678	N2	nitrogen	7727-37-9	gas	0.000	1	4047	SbH3	stibine	7803-52-3	gas	0.120	1
2682	N2F2	cis-difluorodiazine	13812-43-6	gas	0.160	1	4049	SbI3	antimony triiodide	7790-44-5	in benzene	0.400	1
2684	N2F4	tetrafluorohydrazine	10036-47-2	gas	0.257	1	4109	SeF4	selenium tetrafluoride	13465-66-2	gas	1.780	1
2685	N2H4	hydrazine	302-01-2	gas	1.751	1	4110	SeF6	selenium hexafluoride	7783-79-1	gas	0.000	1
2747	N2O	nitrous oxide	10024-97-2	gas	0.161	1	4115	SeOCl2	selenium oxychloride	7791-23-3	in benzene	2.640	1
2748	N2O3	nitrogen trioxide	10544-73-7	gas	2.122	1	4117	SeO2	selenium dioxide	7446-08-4	gas	2.620	1
2749	N2O4	nitrogen tetraoxide	10544-72-6	gas	0.000	1	4143.1	SiBrF3	silane, bromotrifluoro	---	gas	0.830	1
2750	N2O5	nitrogen pentoxide	10102-03-1	in CCl4	1.400	1	4149	SiCH3Cl3	silane, methyltrichloro	75-79-6	gas	1.910	1
2781	Na	sodium	7440-23-5	gas	0.000	1	4150	SiCH4Cl2	silane, methyldichloro	75-54-7	in benzene	1.910	1
2800	NaBr	sodium bromide	7647-15-6	in benzene	9.118	1	4152	SiC2H5Cl3	silane, ethyltrichloro	115-21-9	gas	2.030	2
2855	NaCl	sodium chloride	7647-14-5	gas	9.001	1	4153	SiC2H6Cl2	silane, dimethyldichloro	75-78-5	in benzene	1.889	1
2864	NaF	sodium fluoride	7681-49-4	gas	8.156	1	4157	SiC3H10	silane, trimethyl	993-07-7	gas	0.525	1
2888	NaI	sodium iodide	7681-82-5	gas	4.887	1	4187	SiC7H8Cl2	silane, methylphenyldichloro	149-74-6	in benzene	2.401	1
2890.1	NaK	sodium potassium	---	gas	2.693	1	4196	SiC8H20	silane, tetraethyl	631-36-7	in benzene	0.390	1
2890.2	NaLi	sodium lithium	---	gas	0.463	1	4238	SiClC3H9	chlorotrimethylsilane	75-77-4	in benzene	2.081	1
2902.1	NaRb	sodium rubidium	---	gas	3.100	1	4240	SiClF3	silane, chlorotrifluoro	14049-36-6	gas	0.636	1
3091	Ne	neon	7440-01-9	gas	0.000	1	4243	SiCl3F	silane, trichlorofluoro	14965-52-7	gas	0.490	1
3105	NiC4O4	nickel carbonyl	13463-39-3	in CCl4	0.000	1	4244	SiCl4	silicon tetrachloride	10026-04-7	gas	0.000	1
3198	O2	oxygen	7782-44-7	gas	0.000	1	4244.1	SiF2	difluorosilylene	---	gas	1.230	1
3199	O3	ozone	10028-15-6	gas	0.540	1	4245	SiF4	silicon tetrafluoride	7783-61-1	gas	0.000	1
3222	OsO4	osmium tetroxide	20816-12-0	gas	0.000	1	4246	SiHBr3	silane, tribromo	7789-57-3	in heptane	0.790	1
3234	P	phosphorus (white)	7723-14-0	gas	0.000	1	4247	SiHCl3	silane, trichloro	10025-78-2	gas	0.860	1
3235	P	phosphorus (red)	7723-14-0	gas	0.000	1	4248	SiHF3	silane, trifluoro	13465-71-9	gas	1.270	1
3238	PBr3	phosphorus tribromide	7789-60-8	gas	0.560	1	4251	SiH2Cl2	silane, dichloro	4109-96-0	gas	1.170	1
3252	PC3H9O4	phosphate, trimethyl	512-56-1	in benzene	3.088	1	4252	SiH2F2	silane, difluoro	13824-36-7	gas	1.550	1
3280	PC6H15O4	phosphate, triethyl	78-40-0	in benzene	3.088	1	4257	SiH3Br	silane, monobromo	13465-73-1	gas	1.320	1
3381	PCl3	phosphorus (iii) chloride	7719-12-2	gas	0.779	1	4258	SiH3Cl	silane, monochloro	13465-78-6	gas	1.310	1
3382	PCl5	phosphorus pentachloride	10026-13-8	gas	0.900	1	4259	SiH3F	silane, monofluoro	13537-33-2	gas	1.298	1
3384	PF3	phosphorus (iii) fluoride	7783-55-3	gas	1.030	1	4261	SiH4	silane	7803-62-5	gas	0.000	1
3386	PF3O	phosphorus oxyfluoride	13478-20-1	gas	1.869	1	4262.1	SiF3I	silane, trifluoroiodo	---	gas	1.110	1
3389	PH3	phosphine	7803-51-2	gas	0.570	1	4264	SiO	silicon monoxide	10097-28-6	gas	3.908	1
3394	PI3	phosphorus (iii) iodide	13455-01-1	gas	0.000	1	4265	SiO2	silicon dioxide (alpha quartz)	14808-60-7	quartz	0.579	1
3394.1	PO	phosphorous monoxide	---	gas	1.880	1	4270	SiS	silicon monosulfide	12504-41-5	gas	1.730	1
3396	POCl3	phosphorus oxychloride	10025-87-3	gas	2.540	1	4274	Si2C6H18O	disiloxane, hexamethyl	107-46-0	gas	0.660	1
3398	PSCl3	phosphorus thiochloride	3982-91-0	gas	1.420	1	4275	Si2C6H19N	disilazane, hexamethyl	999-97-3	in benzene	0.420	1
3400	PSF3	phosphorus (v) sulfide trifluoride	2404-52-6	gas	0.640	1	4288.1	Si2H3F3	1,1,1,-trifluorodisilane	---	gas	2.030	1
3504	PbC8H20	tetraethyl lead	78-00-2	gas	0.300	1	4289	Si2H6	disilane	1590-87-0	gas	0.000	1
3537	PbO	lead oxide	1317-36-8	gas	4.640	1	4290	Si2H6O	disiloxane	13597-73-4	gas	0.240	1
3545	PbS	lead sulfide	1314-87-0	gas	3.590	1	4335	SnBr4	stannic bromide	7789-67-5	gas	0.000	1
3786	RbBr	rubidium bromide	7789-39-1	gas	10.900	1	4424	SnCl4	stannic chloride	7646-78-8	gas	0.000	1
3791	RbCl	rubidium chloride	7791-11-9	gas	10.510	1	4433	SnI4	stannic iodide	7790-47-8	gas	0.000	1
3795	RbF	rubidium fluoride	13446-74-7	gas	8.546	1	4434	SnO	tin (ii) oxide	21651-19-4	gas	4.320	1
3801	RbI	rubidium iodide	7790-29-6	gas	11.500	1	4438	SnS	tin (ii) sulfide	1314-95-0	gas	3.180	1
3991	S	sulfur	7704-34-9	gas	0.000	1	4498	SrO	strontium oxide	1314-11-0	gas	8.900	1
3994	SCl2	sulfur dichloride	10545-99-0	gas	0.360	1	4588	TeCl4	tellurium tetrachloride	10026-07-0	gas	0.000	1
3996	SCl2O	thionyl chloride	7719-09-7	gas	1.451	1	4590	TeF6	tellurium hexafluoride	7783-80-4	gas	0.000	1
3997	SF2	sulfur (ii) fluoride	13814-25-0	gas	1.050	1	4678	TiCl4	titanium tetrachloride	7550-45-0	liquid	0.000	1
3998	SF4	sulfur tetrafluoride	7783-60-0	gas	0.632	1	4688	TiO	titanium (ii) oxide	12137-20-1	gas	2.960	1
4001	SF6	sulfur hexafluoride	2551-62-4	gas	0.000	1	4704	TlBr	thallous bromide	7789-40-4	gas	4.490	1
4003.1	SO	sulfur monoxide	---	gas	1.550	1	4719	TlCl	thallium chloride	7791-12-0	gas	4.543	1
4004	SOBr2	thionyl bromide	507-16-4	gas	9.110	1	4725	TlF	thallium (i) fluoride	7789-27-7	gas	4.228	1
4005	SOCl2	thionyl chloride	7719-09-7	gas	1.450	1	4728	TlI	thallium iodide	7790-30-9	gas	4.610	1
4006	SOF2	thionyl fluoride	7783-42-8	gas	1.630	1	4787	UF6	uranium fluoride	7783-81-5	gas	0.000	1
4007	SO2	sulfur dioxide	7446-09-5	gas	1.631	1	4860	VCl4	vanadium tetrachloride	7632-51-1	gas	0.000	1
4008	SO2Cl2	sulfuryl chloride	7791-25-5	gas	1.811	1	4880	VOCl3	vanadium oxytrichloride	7727-18-6	in CCl4	0.300	1
4009	SO2F2	sulfuryl fluoride	2699-79-8	gas	1.120	1	4945	Xe	xenon	7440-63-3	gas	0.000	1
4010	SO3	sulfur trioxide	7446-11-9	gas	0.000	1	4984.3	YO	yttrium monoxide	---	gas	4.524	1
4013	S2Cl2	sulfur monochloride	10025-67-9	gas	1.000	1	5117	ZrBr4	zirconium bromide	13777-25-8	in dioxane	4.680	1
4017	S2F10	sulfur decafluoride	5714-22-7	gas	0.000	1	5142	ZrCl4	zirconium chloride	10026-11-6	in dioxane	5.940	1
4019	S2O	disulfur oxide	20901-21-7	gas	1.470	1	5152	ZrI4	zirconium iodide	13986-26-0	in dioxane	5.360	1
4025	SbBr3	antimony tribromide	7789-61-9	in dioxane	3.300	1	5153.1	ZrO	zirconium (ii) oxide	---	gas	2.550	1
4042	SbCl3	antimony trichloride	10025-91-9	gas	3.927	1	5154	ZrO2	zirconium (iv) oxide	1314-23-4	gas	7.800	1

Code: 1 - data, 2 - estimate

* Use ID or CAS No for complete name (See Chapther 1 of this book).

Chapter 21

SURFACE TENSION – ORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 21. For the tabulation, a modified Othmer relation was selected for correlation of surface tension as a function of temperature:

$$\text{sigma} = A\,(1 - T/B)^{n} \qquad (21)$$

where sigma = surface tension, dynes/cm
A, B, and n = regression coefficients for chemical compound
T = temperature, K

The tabulation is arranged by carbon number (C, C2, C3, ...) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for regression coefficients are given in the adjacent columns. The temperature range for use is given in the next columns (TMIN and TMAX). The equation should not be used for temperatures outside this range. The next column provides the code for the tabulation. The last two columns provide a representative temperature and value for surface tension at the representative temperature.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-36). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (1-2), Daubert and Danner (3), Jasper (7), and Yaws (17-35) were used extensively. Estimates were primarily based on the Sugden method (12); Brock and Bird correlation (12); and Sastri and Rao method (12). Experimental data and estimates were then regressed to provide the same equation for all compounds.

A comparison of calculated and data values is shown in Figure 21 for a representative compound. The graph shows favorable agreement of equation and data.

Example

In an engineering analysis, the surface tension is needed for chlorobenzene (C6H5Cl) at 343.15 K. Determine the surface tension of chlorobenzene at this temperature.

Substitution of the coefficients from the tabulation and temperature into the above equation yields:

$$\text{surface tension} = 72.700\,(1-343.15/632.35)^{1.2420}$$

surface tension = 27.51 dynes/cm

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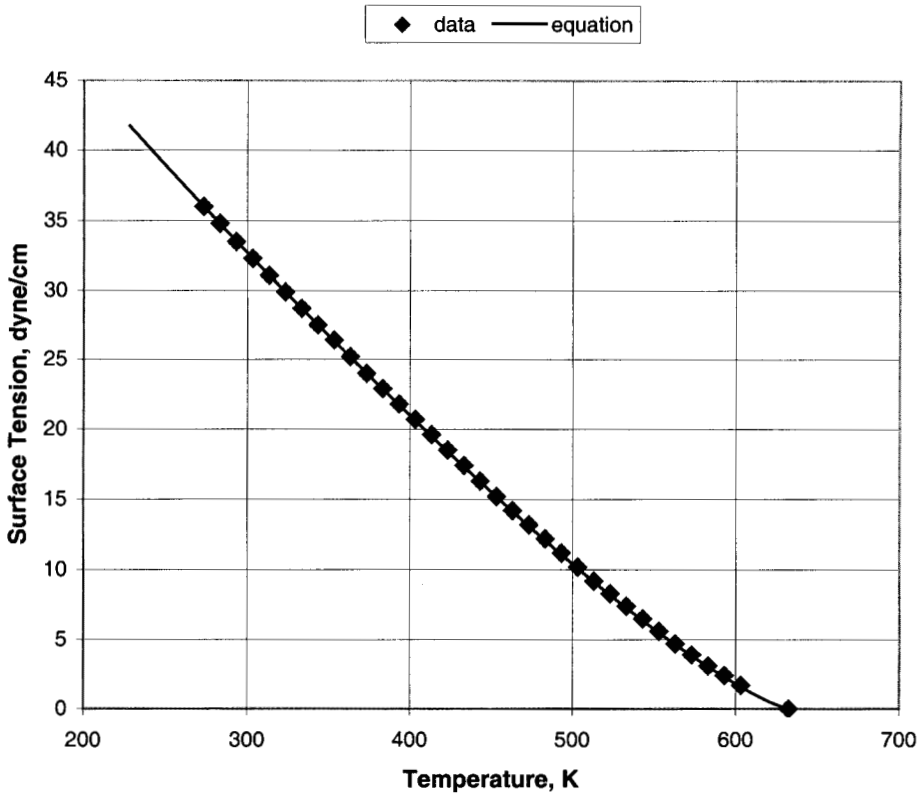


Figure 21 Surface Tension of Chlorobenzene

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
13	CBrClF2	bromochlorodifluoromethane	353-59-3	55.645	426.15	1.2222	113.65	426.15	2	298.15	12.79
16	CBrCl3	bromotrichloromethane	75-62-7	70.095	606.00	1.2222	252.15	606.00	2	298.15	30.63
17	CBrF3	bromotrifluoromethane	75-63-8	48.504	340.15	1.2222	105.15	340.15	2	298.15	3.76
23	CBr2F2	dibromodifluoromethane	75-61-6	67.661	478.00	1.2222	163.05	478.00	2	298.15	20.49
29	CBr4	carbon tetrabromide	558-13-4	151.274	724.91	1.2222	364.15	724.91	2	364.15	64.47
34	CClF3	chlorotrifluoromethane	75-72-9	46.853	301.96	1.2222	92.15	301.96	2	298.15	0.22
39	CClN	cyanogen chloride	506-77-4	81.672	449.00	1.2222	266.65	449.00	2	298.15	21.53
42	CCl2F2	dichlorodifluoromethane	75-71-8	58.000	384.95	1.2670	115.15	384.95	1,2	298.15	8.79
44	CCl2O	phosgene	75-44-5	65.193	455.00	1.1600	145.37	455.00	1,2	298.15	18.95
47	CCl3F	trichlorofluoromethane	75-69-4	62.722	471.20	1.2278	162.04	471.20	1,2	298.15	18.34
50	CCl4	carbon tetrachloride	56-23-5	66.750	556.35	1.2140	250.33	556.35	1,2	298.15	26.29
68	CF2O	carbonyl fluoride	353-50-4	76.920	287.85	1.2222	159.15	287.85	2	223.50	12.33
74	CF4	carbon tetrafluoride	75-73-0	40.981	227.50	1.2222	89.56	227.50	2	158.53	9.53
96	CHBr3	bromoform	75-25-2	86.700	696.00	1.1780	281.20	696.00	1,2	298.15	44.86
97	CHClF2	chlorodifluoromethane	75-45-6	66.600	369.30	1.2969	115.73	369.30	1,2	298.15	7.87
101	CHCl2F	dichlorofluoromethane	75-43-4	66.515	451.58	1.2222	138.15	451.58	2	298.15	17.78
104	CHCl3	chloroform	67-66-3	69.284	536.40	1.1761	209.63	536.40	1,2	298.15	26.68
113	CHF3	fluoroform	75-46-7	64.910	298.89	1.2743	117.97	298.89	2	298.15	0.03
117	CHI3	iodoform	75-47-8	81.523	794.55	1.2222	396.16	794.55	2	396.16	35.06
122	CHN	hydrogen cyanide	74-90-8	52.310	456.65	1.0198	259.91	456.65	1,2	298.15	17.78
140	CH2BrCl	bromochloromethane	74-97-5	87.305	557.00	1.2222	185.20	557.00	2	298.15	34.22
144	CH2Br2	dibromomethane	74-95-3	90.174	611.00	1.2222	220.60	611.00	1,2	298.15	39.79
145	CH2ClF	chlorofluoromethane	593-70-4	63.447	424.91	1.2222	140.16	424.91	2	298.15	14.47
149	CH2Cl2	dichloromethane	75-09-2	81.470	510.00	1.2222	178.01	510.00	1,2	298.15	27.84
158	CH2F2	difluoromethane	75-10-5	95.830	351.60	1.2222	137.00	351.60	2	298.15	9.59
161	CH2I2	diiodomethane	75-11-6	124.832	747.00	1.2222	279.25	747.00	1,2	298.15	66.98
175	CH2O	formaldehyde	50-00-0	85.007	408.00	1.2222	181.15	408.00	2	298.15	17.10
176	CH2O2	formic acid	64-18-6	91.002	580.00	1.2222	281.55	580.00	1,2	298.15	37.67
191	CH3Br	methyl bromide	74-83-9	81.411	467.00	1.2222	179.55	467.00	2	298.15	23.48
196	CH3Cl	methyl chloride	74-87-3	68.594	416.25	1.1966	175.45	416.25	1,2	298.15	15.19
210	CH3Cl3Si	methyl trichlorosilane	75-79-6	57.880	517.00	1.2640	195.35	517.00	1,2	298.15	19.53
214	CH3F	methyl fluoride	593-53-3	201.439	317.70	1.2222	131.35	317.70	2	298.15	6.67
222	CH3I	methyl iodide	74-88-4	86.540	528.00	1.2840	206.70	528.00	1,2	298.15	29.75
232	CH3NO	formamide	75-12-7	103.644	771.00	1.2222	275.70	771.00	1,2	298.15	57.02
235	CH3NO2	nitromethane	75-52-5	80.510	588.15	1.1275	244.60	588.15	1,2	298.15	36.27
251	CH4	methane	74-82-8	37.415	190.58	1.0920	90.67	190.58	1,2	140.63	8.67
254	CH4Cl2Si	methyl dichlorosilane	75-54-7	67.488	483.00	1.3756	182.55	483.00	1,2	298.15	18.01
272	CH4O	methyl alcohol	67-56-1	44.356	512.58	0.8000	175.47	512.58	1,2	298.15	22.09
275	CH4O3S	methanesulfonic acid	75-75-2	88.769	796.62	1.2222	292.81	597.47	1,2	298.15	50.05
278	CH4S	methyl mercaptan	74-93-1	81.867	469.95	1.2261	150.18	469.95	1,2	298.15	23.84
284	CH5ClSi	methyl chlorosilane	993-00-0	57.071	442.00	1.2222	139.05	442.00	2	298.15	14.47
286	CH5N	methylamine	74-89-5	84.328	430.05	1.2222	179.69	430.05	1,2	298.15	19.89
322	CH6Si	methyl silane	992-94-9	53.900	352.50	1.2222	116.34	352.50	2	298.15	5.49
337	CI4	carbon tetraiodide	507-25-5	82.210	961.09	1.2222	444.15	961.09	2	444.15	38.53
363	CN4O8	tetranitromethane	509-14-8	68.260	540.00	1.0356	287.05	540.00	1,2	298.15	29.71
372	CO	carbon monoxide	630-08-0	27.959	132.92	1.1330	68.15	132.92	1,2	100.54	5.65
373	COS	carbonyl sulfide	463-58-1	78.310	378.80	1.4660	134.35	378.80	1,2	298.15	8.11
375	CO2	carbon dioxide	124-38-9	79.970	304.19	1.2617	216.58	304.19	1,2	298.15	0.57
382	CS2	carbon disulfide	75-15-0	79.590	552.00	1.1909	161.58	552.00	1,2	298.15	31.56
413	C2Br2F4	1,2-dibromotetrafluoroethane	124-73-2	58.960	487.80	1.2557	162.65	487.80	1,2	298.15	18.00
423	C2ClF3	chlorotrifluoroethylene	79-38-9	55.437	379.15	1.2222	115.00	379.15	2	298.15	8.40
427	C2ClF5	chloropentafluoroethane	76-15-3	45.808	353.15	1.2222	173.71	353.15	2	298.15	4.72
441	C2Cl2F4	1,2-dichloro-1,1,2,2-tetrafluoroethane	76-14-2	51.800	418.85	1.2470	179.15	418.85	1,2	298.15	10.98
442	C2Cl2F4	1,1-dichloro-1,2,2,2-tetrafluoroethane	374-07-2	48.514	418.70	1.2222	216.58	418.70	2	298.15	10.59
449	C2Cl3F3	1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	55.380	487.25	1.2380	238.15	487.25	1,2	298.15	17.16
450	C2Cl3F3	1,1,1-trichloro-2,2,2-trifluoroethane	354-58-5	59.075	487.70	1.2222	287.14	487.70	2	298.15	18.61
455	C2Cl4	tetrachloroethylene	127-18-4	63.360	620.00	1.0586	250.80	620.00	1,2	298.15	31.65
456	C2Cl4F2	1,1,2,2-tetrachloro-1,2-difluoroethane	76-12-0	64.160	551.00	1.2930	299.15	551.00	1,2	299.15	23.31
457	C2Cl4F2	1,1,1,2-tetrachloro-2,2-difluoroethane	76-11-9	61.322	560.50	1.2222	313.75	560.50	2	313.75	22.50
462	C2Cl5F	pentachlorofluoroethane	354-56-3	65.058	630.10	1.2222	373.15	630.10	2	373.15	21.74
463	C2Cl6	hexachloroethane	67-72-1	59.670	698.00	1.2222	459.95	698.00	2	459.95	16.02
488	C2F4	tetrafluoroethylene	116-14-3	49.571	306.45	1.2222	142.00	306.45	2	298.15	0.60
494	C2F6	hexafluoroethane	76-16-4	41.238	292.80	1.2222	172.45	292.80	2	232.63	5.96
511	C2HBrClF3	halothane	151-67-7	51.613	521.00	1.2222	157.40	521.00	2	298.15	18.28
525	C2HClF2	2-chloro-1,1-difluoroethylene	359-10-4	58.357	400.55	1.2222	134.65	400.55	2	298.15	11.02
528	C2HClF4	1-chloro-1,1,2,2-tetrafluoroethane	354-25-6	54.236	400.00	1.2222	156.15	400.00	2	298.15	10.19
529	C2HClF4	2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0	54.282	395.85	1.2222	257.74	395.85	2	298.15	9.82
534	C2HCl2F3	1,1-dichloro-1,2,2-trifluoroethane	812-04-4	53.116	481.32	1.2222	255.51	481.32	2	298.15	16.31
535	C2HCl2F3	1,2-dichloro-1,1,2-trifluoroethane	354-23-4	56.095	458.30	1.2222	195.15	458.30	2	298.15	15.52
536	C2HCl2F3	2,2-dichloro-1,1,1-trifluoroethane	306-83-2	56.896	456.80	1.2222	166.15	456.80	2	298.15	15.62
539	C2HCl3	trichloroethylene	79-01-6	72.517	571.00	1.2537	188.40	571.00	1,2	298.15	28.73
540	C2HCl3F2	1,1,1-trichloro-2,2-difluoroethane	354-12-1	62.829	530.70	1.2222	253.28	530.70	2	298.15	22.92
541	C2HCl3F2	1,1,2-trichloro-1,2-difluoroethane	354-15-4	62.773	530.00	1.2222	253.28	530.00	2	298.15	22.85
542	C2HCl3F2	1,2,2-trichloro-1,1-difluoroethane	354-21-2	62.767	529.00	1.2222	253.28	529.00	2	298.15	22.78
544	C2HCl3O	trichloroacetaldehyde	75-87-6	61.791	565.00	1.2222	216.00	565.00	1,2	298.15	24.70
547	C2HCl3O2	trichloroacetic acid	76-03-9	70.642	668.51	1.2222	330.00	501.38	1,2	330.00	30.75
549	C2HCl4F	1,1,1,2-tetrachloro-2-fluoroethane	354-11-0	65.886	598.60	1.2222	177.80	598.60	2	298.15	28.37
550	C2HCl4F	1,1,2,2-tetrachloro-1-fluoroethane	354-14-3	65.859	598.00	1.2222	190.55	598.00	2	298.15	28.33
551	C2HCl5	pentachloroethane	76-01-7	62.059	665.00	1.2222	244.15	665.00	2	298.15	30.00
554	C2HF3	trifluoroethene	359-11-5	56.674	347.22	1.2222	94.53	347.22	2	298.15	5.19

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
556	C2HF3O2	trifluoroacetic acid	76-05-1	42.402	491.25	1.2222	257.90	491.25	1,2	298.15	13.54
558	C2HF5	pentafluoroethane	354-33-6	48.295	342.00	1.2222	170.15	342.00	2	298.15	3.92
571	C2H2	acetylene	74-86-2	56.388	308.32	1.1346	192.40	308.32	1,2	298.15	1.18
592	C2H2Br4	1,1,2,2-tetrabromoethane	79-27-6	101.693	824.00	1.6388	273.15	824.00	1,2	298.15	48.71
593	C2H2Br4	1,1,1,2-tetrabromoethane	630-16-0	143.364	800.13	1.2222	273.15	800.13	2	298.15	81.09
604	C2H2ClF3	1-chloro-1,1,2-trifluoroethane	421-04-5	64.297	428.95	1.2222	240.59	428.95	2	298.15	15.06
605	C2H2ClF3	1-chloro-1,2,2-trifluoroethane	431-07-2	68.444	428.68	1.2222	208.17	428.68	2	298.15	16.00
606	C2H2ClF3	2-chloro-1,1,1-trifluoroethane	75-88-7	58.223	432.17	1.2222	167.65	432.17	2	298.15	13.92
615	C2H2Cl2	1,1-dichloroethylene	75-35-4	70.353	482.00	1.2222	150.65	482.00	2	298.15	21.66
616	C2H2Cl2	cis-1,2-dichloroethylene	156-59-2	65.615	527.00	1.2222	193.15	527.00	2	298.15	23.67
617	C2H2Cl2	trans-1,2-dichloroethylene	156-60-5	67.172	508.00	1.2222	223.35	508.00	2	298.15	22.80
618	C2H2Cl2	dichloroethylene	25323-30-2	70.210	505.67	1.2222	192.75	505.67	2	298.15	23.64
619	C2H2Cl2	1,2-dichloroethylene, cis and trans	540-59-0	69.204	505.67	1.2222	216.15	505.67	2	298.15	23.30
620	C2H2Cl2F2	1,1-dichloro-1,2-difluoroethane	1842-05-3	61.112	488.39	1.2222	238.36	488.39	2	298.15	19.30
621	C2H2Cl2F2	1,1-dichloro-2,2-difluoroethane	471-43-2	62.250	515.98	1.2222	205.94	515.98	2	298.15	21.70
622	C2H2Cl2F2	1,2-dichloro-1,1-difluoroethane	1649-08-7	67.737	495.15	1.2222	171.35	495.15	2	298.15	21.96
623	C2H2Cl2F2	1,2-dichloro-1,2-difluoroethane	431-06-1	64.449	487.57	1.2222	171.95	487.57	2	298.15	20.29
625	C2H2Cl2O	chloroacetyl chloride	79-04-9	82.890	581.00	1.2222	251.15	581.00	2	298.15	34.39
626	C2H2Cl2O	dichloroacetaldehyde	79-02-7	78.990	555.00	1.2222	223.00	555.00	2	298.15	30.80
627	C2H2Cl2O2	dichloroacetic acid	79-43-6	63.215	686.00	1.0150	286.55	686.00	1,2	298.15	35.44
630	C2H2Cl3F	1,1,1-trichloro-2-fluoroethane	2366-36-1	62.609	565.00	1.2222	236.13	565.00	2	298.15	25.03
631	C2H2Cl3F	1,1,2-trichloro-1-fluoroethane	811-95-0	64.439	559.78	1.2222	168.45	559.78	2	298.15	25.43
632	C2H2Cl3F	1,1,2-trichloro-2-fluoroethane	359-28-4	76.724	552.93	1.2222	203.71	552.93	2	298.15	29.76
635	C2H2Cl4	1,1,1,2-tetrachloroethane	630-20-6	70.886	624.00	1.2222	202.94	624.00	2	298.15	32.04
636	C2H2Cl4	1,1,2,2-tetrachloroethane	79-34-5	76.200	645.00	1.2340	229.35	645.00	1,2	298.15	35.44
642	C2H2F2	1,1-difluoroethylene	75-38-7	51.040	302.80	1.2222	129.15	302.80	2	298.15	0.31
643	C2H2F2	cis-1,2-difluoroethene	1630-77-9	57.479	394.67	1.2222	107.90	394.67	2	298.15	10.28
644	C2H2F2	trans-1,2-difluoroethene	1630-78-0	57.479	394.67	1.2222	107.90	394.67	2	298.15	10.28
650	C2H2F4	1,1,1,2-tetrafluoroethane	811-97-2	51.420	380.00	1.2222	172.15	380.00	2	298.15	7.87
651	C2H2F4	1,1,2,2-tetrafluoroethane	359-35-3	57.816	381.00	1.2222	184.15	381.00	2	298.15	8.96
660	C2H2I4	1,1,1,2-tetraiodoethane	---	78.976	972.04	1.2222	346.46	972.04	2	346.46	46.09
661	C2H2I4	1,1,2,2-tetraiodoethane	---	78.650	963.61	1.2222	311.30	963.61	2	311.30	48.82
681	C2H2O	ketene	463-51-4	62.252	370.00	1.2222	122.00	370.00	2	298.15	8.40
684	C2H2O4	oxalic acid	144-62-7	168.984	804.00	1.2222	462.65	804.00	2	462.65	59.31
688	C2H3Br	vinyl bromide	593-60-2	80.134	473.00	1.2222	135.35	473.00	2	298.15	23.75
693	C2H3BrO2	bromoacetic acid	79-08-3	89.683	683.23	1.2222	323.15	512.42	1,2	323.15	40.99
697	C2H3Br3	1,1,1-tribromoethane	2311-14-0	89.633	698.32	1.2222	293.62	698.32	2	298.15	45.39
698	C2H3Br3	1,1,2-tribromoethane	78-74-0	88.807	709.90	1.2222	243.85	709.90	2	298.15	45.64
701	C2H3Cl	vinyl chloride	75-01-4	70.230	432.00	1.2710	119.36	432.00	1,2	298.15	15.84
702	C2H3ClF2	1-chloro-1,1-difluoroethane	75-68-3	56.208	410.20	1.2222	142.35	410.20	2	298.15	11.51
703	C2H3ClF2	1-chloro-1,2-difluoroethane	338-64-7	60.607	435.18	1.2222	191.02	435.18	2	298.15	14.76
704	C2H3ClF2	2-chloro-1,1-difluoroethane	338-65-8	62.522	477.91	1.2222	191.02	477.91	2	298.15	18.92
707	C2H3ClO	acetyl chloride	75-36-5	66.360	508.00	1.0890	160.30	508.00	1,2	298.15	25.34
710	C2H3ClO2	chloroacetic acid	79-11-8	75.194	686.00	1.0852	333.15	686.00	1,2	333.15	36.55
714	C2H3Cl2F	1,1-dichloro-1-fluoroethane	1717-00-6	60.027	477.35	1.2222	169.65	477.35	2	298.15	18.13
715	C2H3Cl2F	1,1-dichloro-2-fluoroethane	430-53-5	62.811	473.24	1.2222	188.79	473.24	2	298.15	18.63
716	C2H3Cl2F	1,2-dichloro-1-fluoroethane	430-57-9	65.573	538.33	1.2222	213.15	538.33	2	298.15	24.45
720	C2H3Cl3	1,1,1-trichloroethane	71-55-6	65.600	545.00	1.2170	242.75	545.00	1,2	298.15	25.02
721	C2H3Cl3	1,1,2-trichloroethane	79-00-5	77.200	602.00	1.2100	251.70	602.00	1,2	298.15	33.75
728	C2H3F	vinyl fluoride	75-02-5	65.995	327.80	1.2222	112.65	327.80	2	298.15	3.50
733	C2H3FO2	fluoroacetic acid	144-49-0	87.752	626.43	1.2222	308.35	469.82	1,2	308.35	38.33
735	C2H3F3	1,1,1-trifluoroethane	420-46-2	98.534	346.25	1.2222	161.85	346.25	2	298.15	8.83
736	C2H3F3	1,1,2-trifluoroethane	430-66-0	52.256	430.91	1.2222	189.15	430.91	2	298.15	12.39
743	C2H3I	vinyl iodide	593-66-8	76.333	536.99	1.2222	168.10	536.99	2	298.15	28.36
745	C2H3IO2	iodoacetic acid	64-69-7	105.454	639.21	1.2222	355.65	479.41	1,2	355.65	39.05
746	C2H3I3	1,1,1-triiodoethane	594-21-8	77.541	838.10	1.2222	366.15	838.10	2	366.15	38.43
747	C2H3I3	1,1,2-triiodoethane	---	78.232	825.88	1.2222	270.98	825.88	2	298.15	45.25
753	C2H3N	acetonitrile	75-05-8	68.249	545.50	1.0970	229.32	545.50	1,2	298.15	28.66
754	C2H3N	methyl isocyanide	593-75-9	71.450	517.86	1.2222	228.15	517.86	2	298.15	25.05
755	C2H3NO	methyl isocyanate	624-83-9	66.661	505.00	1.2222	256.15	505.00	2	298.15	22.39
787	C2H4	ethylene	74-85-1	53.179	282.36	1.2784	104.01	282.36	1,2	193.19	12.18
798	C2H4Br2	1,1-dibromoethane	557-91-5	73.987	628.00	1.2222	210.15	628.00	1,2	298.15	33.68
799	C2H4Br2	1,2-dibromoethane	106-93-4	80.970	650.15	1.2261	282.94	650.15	1,2	298.15	38.16
801	C2H4ClF	1-chloro-1-fluoroethane	1615-75-4	60.850	458.07	1.2222	158.87	458.07	2	298.15	16.81
802	C2H4ClF	1-chloro-2-fluoroethane	762-50-5	64.731	511.00	1.2222	197.15	511.00	2	298.15	22.19
812	C2H4Cl2	1,1-dichloroethane	75-34-3	69.194	523.00	1.2222	176.19	523.00	1,2	298.15	24.66
813	C2H4Cl2	1,2-dichloroethane	107-06-2	82.270	561.00	1.2222	237.49	561.00	1,2	298.15	32.57
814	C2H4Cl2	dichloroethane	1300-21-6	75.868	542.00	1.2222	206.84	542.00	2	298.15	28.58
816	C2H4Cl2O	bis(chloromethyl) ether	542-88-1	74.450	579.00	1.2222	231.65	579.00	2	298.15	30.75
834	C2H4F2	1,1-difluoroethane	75-37-6	70.182	386.60	1.2222	156.15	386.60	2	298.15	11.57
835	C2H4F2	1,2-difluoroethane	624-72-6	53.374	476.00	1.2222	176.10	476.00	2	298.15	16.02
844	C2H4I2	1,1-diiodoethane	594-02-5	89.201	723.89	1.2222	212.92	723.89	2	298.15	46.62
845	C2H4I2	1,2-diiodoethane	624-73-7	85.870	749.91	1.2222	356.16	749.91	2	356.16	39.07
884	C2H4O	acetaldehyde	75-07-0	75.555	461.00	1.2222	150.15	461.00	1,2	298.15	21.18
885	C2H4O	ethylene oxide	75-21-8	74.470	469.15	1.1410	161.45	469.15	1,2	298.15	23.54
888	C2H4OS	thioacetic-acid	507-09-5	95.220	577.34	1.2222	150.16	577.34	2	298.15	39.18
889	C2H4O2	acetic acid	64-19-7	57.050	592.71	1.0703	289.81	592.71	1,2	298.15	26.99
890	C2H4O2	methyl formate	107-31-3	80.980	487.20	1.2740	174.15	487.20	1,2	298.15	24.24
901	C2H4S	ethylene sulfide	420-12-2	84.158	555.00	1.2222	165.37	555.00	2	298.15	32.82
910	C2H5Br	bromoethane	74-96-4	64.450	503.80	1.1256	154.55	503.80	1,2	298.15	23.51

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
914	C2H5Cl	ethyl chloride	75-00-3	65.689	460.35	1.2222	136.75	460.35	2	298.15	18.36
917	C2H5ClO	2-chloroethanol	107-07-3	115.248	585.00	1.2222	205.65	585.00	2	298.15	48.23
939	C2H5F	ethyl fluoride	353-36-6	66.553	375.31	1.2222	129.95	375.31	2	298.15	9.63
948	C2H5I	ethyl iodide	75-03-6	68.420	561.00	1.1604	162.05	561.00	1,2	298.15	28.39
954	C2H5N	ethyleneimine	151-56-4	86.779	537.00	1.2222	195.20	537.00	2	298.15	32.24
956	C2H5NO	acetamide	60-35-5	84.814	761.00	1.2222	354.15	761.00	1,2	354.15	39.45
957	C2H5NO	N-methylformamide	123-39-7	86.510	721.00	1.5164	269.35	721.00	1,2	298.15	38.52
958	C2H5NO2	nitroethane	79-24-3	71.700	593.00	1.1700	183.63	593.00	1,2	298.15	31.66
961	C2H5NO2	methyl carbamate	598-55-0	94.311	639.21	1.2222	327.15	479.41	1,2	327.15	39.26
985	C2H6	ethane	74-84-0	48.827	305.42	1.2065	90.35	305.42	1,2	298.15	0.54
986	C2H6AlCl	dimethylaluminum chloride	1184-58-3	57.549	619.00	1.2222	252.15	619.00	2	298.15	25.78
1065	C2H6O	ethyl alcohol	64-17-5	43.807	516.25	0.8000	159.05	516.25	1,2	298.15	21.99
1066	C2H6O	dimethyl ether	115-10-6	61.338	400.10	1.2286	131.66	400.10	1,2	298.15	11.43
1067	C2H6OS	dimethyl sulfoxide	67-68-5	81.796	726.00	1.2222	291.67	726.00	1,2	298.15	42.86
1072	C2H6O2	ethylene glycol	107-21-1	103.372	645.00	1.2222	260.15	645.00	1,2	298.15	48.43
1078	C2H6O3S	dimethyl sulfite	616-42-2	82.720	566.79	1.2222	273.15	425.09	1,2	298.15	33.21
1079	C2H6O3S	ethanesulfonic acid	594-45-6	111.886	555.43	1.2222	256.15	416.57	1,2	298.15	43.68
1083	C2H6O4S	dimethyl sulfate	77-78-1	71.709	758.00	1.2222	241.35	758.00	1,2	298.15	38.93
1084	C2H6O4S	ethyl sulfate	540-82-9	68.130	758.00	1.2222	241.35	758.00	2	298.15	36.99
1092	C2H6S	ethyl mercaptan	75-08-1	60.000	499.15	1.0630	125.26	499.15	1,2	298.15	22.82
1093	C2H6S	dimethyl sulfide	75-18-3	67.900	503.04	1.1500	174.88	503.04	1,2	298.15	24.17
1094	C2H6S2	dimethyl disulfide	624-92-0	77.937	606.00	1.2222	188.44	606.00	1,2	298.15	34.06
1115	C2H7N	ethylamine	75-04-7	72.679	456.15	1.2222	192.15	456.15	1,2	298.15	19.89
1116	C2H7N	dimethylamine	124-40-3	56.215	437.65	1.0807	180.96	437.65	1,2	298.15	16.34
1117	C2H7NO	monoethanolamine	141-43-5	104.296	638.00	1.2222	283.65	638.00	1,2	298.15	48.30
1118	C2H7NO	1-aminoethanol	75-39-8	104.296	638.00	1.2222	370.15	638.00	1,2	370.15	36.11
1159	C2H8N2	ethylenediamine	107-15-3	96.583	593.00	1.2222	284.29	593.00	1,2	298.15	41.12
1168	C2H8Si	dimethyl silane	1111-74-6	45.337	402.00	1.2222	122.93	402.00	2	298.15	8.67
1210	C2N2	cyanogen	460-19-5	73.193	400.15	1.2010	245.25	400.15	1,2	298.15	14.18
1284	C3F6	hexafluoropropylene	116-15-4	42.321	368.00	1.2222	116.65	368.00	2	298.15	5.55
1287	C3F6O	hexafluoroacetone	684-16-2	47.605	357.14	1.2222	151.15	357.14	2	298.15	5.27
1299	C3F8	octafluoropropane	76-19-7	43.523	345.05	1.2222	125.46	345.05	2	298.15	3.80
1368	C3H2F6	1,1,1,2,2,3-hexafluoropropane	677-56-5	56.452	401.21	1.2222	190.00	401.21	2	298.15	10.72
1369	C3H2F6	1,1,1,2,3,3-hexafluoropropane	431-63-0	57.102	407.33	1.2222	190.00	407.33	2	298.15	11.42
1370	C3H2F6	1,1,1,3,3,3-hexafluoropropane	690-39-1	52.401	406.85	1.2222	179.53	406.85	2	298.15	10.44
1371	C3H2F6	1,1,2,2,3,3-hexafluoropropane	680-00-2	52.922	417.09	1.2222	190.00	417.09	2	298.15	11.42
1377	C3H2N2	malononitrile	109-77-3	85.277	715.00	1.2222	304.90	715.00	2	304.90	43.23
1402	C3H3Cl	propargyl chloride	624-65-7	67.437	541.00	1.2222	292.00	541.00	2	298.15	25.34
1419	C3H3Cl3	1,1,2-trichloro-1-propene	21400-25-9	78.243	555.43	1.2222	283.15	416.57	2	298.15	30.55
1420	C3H3Cl3	1,2,3-trichloropropene	96-19-5	75.674	589.51	1.2222	283.15	442.13	2	298.15	31.98
1421	C3H3Cl3	3,3,3-trichloro-1-propene	2233-00-3	78.682	550.46	1.2222	243.15	412.85	2	298.15	30.32
1422	C3H3Cl3	1,1,3-trichloro-1-propene	2567-14-8	76.708	574.67	1.2222	283.15	431.01	2	298.15	31.37
1433	C3H3Cl3O2	methyl trichloroacetate	598-99-2	74.293	606.27	1.2222	255.65	454.70	1,2	298.15	32.48
1449	C3H3F5	1,1,1,2,2-pentafluoropropane	1814-88-6	50.659	385.19	1.2222	190.00	385.19	2	298.15	8.23
1450	C3H3F5	1,1,1,2,3-pentafluoropropane	431-31-2	54.092	403.84	1.2222	190.00	403.84	2	298.15	10.51
1451	C3H3F5	1,1,1,3,3-pentafluoropropane	460-73-1	54.092	403.84	1.2222	190.00	403.84	2	298.15	10.51
1452	C3H3F5	1,1,2,2,3-pentafluoropropane	679-86-7	55.973	447.44	1.2222	190.00	447.44	2	298.15	14.63
1453	C3H3F5	1,1,2,3,3-pentafluoropropane	24270-66-4	55.058	441.38	1.2222	190.00	441.38	2	298.15	13.91
1462	C3H3N	acrylonitrile	107-13-1	63.900	535.00	1.0705	189.63	535.00	1,2	298.15	26.71
1492	C3H4	methylacetylene	74-99-7	57.282	402.39	1.1898	170.45	402.39	1,2	298.15	11.48
1493	C3H4	allene	463-49-0	49.510	393.15	1.1620	136.87	393.15	1,2	298.15	9.50
1514	C3H4Br4	1,1,1,2-tetrabromopropane	62127-49-5	129.829	788.99	1.2222	349.69	788.99	2	349.69	63.47
1515	C3H4Br4	1,1,1,3-tetrabromopropane	62127-50-8	132.611	797.25	1.2222	364.69	797.25	2	364.69	62.81
1516	C3H4Br4	1,1,2,2-tetrabromopropane	34570-59-7	128.576	766.37	1.2222	349.69	766.37	2	349.69	61.05
1517	C3H4Br4	1,1,2,3-tetrabromopropane	34581-76-5	135.987	798.18	1.2222	332.27	798.18	2	332.27	70.43
1518	C3H4Br4	1,1,3,3-tetrabromopropane	51525-97-4	136.824	813.01	1.2222	332.27	813.01	2	332.27	71.99
1519	C3H4Br4	1,2,2,3-tetrabromopropane	54268-02-9	131.776	782.30	1.2222	283.85	782.30	2	298.15	73.30
1533	C3H4Cl2	2,3-dichloropropene	78-88-6	62.594	577.00	1.2222	191.50	577.00	2	298.15	25.74
1534	C3H4Cl2	1,1-dichloropropene	563-58-6	60.135	577.00	1.2222	191.50	577.00	2	298.15	24.73
1535	C3H4Cl2	cis-1,2-dichloropropene	6923-20-2	62.653	577.00	1.2222	191.50	577.00	2	298.15	25.76
1536	C3H4Cl2	trans-1,2-dichloropropene	7069-38-7	60.213	577.00	1.2222	191.50	577.00	2	298.15	24.76
1537	C3H4Cl2	cis-1,3-dichloropropene	10061-01-5	64.301	577.00	1.2222	191.50	577.00	2	298.15	26.44
1538	C3H4Cl2	trans-1,3-dichloropropene	10061-02-6	65.387	577.00	1.2222	191.50	577.00	2	298.15	26.88
1539	C3H4Cl2	3,3-dichloropropene	563-57-5	61.357	577.00	1.2222	191.50	577.00	2	298.15	25.23
1540	C3H4Cl2	1,3-dichloropropene; (cis+trans)	542-75-6	64.756	577.00	1.2222	191.50	577.00	2	298.15	26.63
1541	C3H4Cl2	1,2-dichloropropene	563-54-2	59.900	577.00	1.2222	191.50	577.00	2	298.15	24.63
1542	C3H4Cl2	dichloropropylene	26952-23-8	62.410	577.00	1.2222	191.50	577.00	2	298.15	25.66
1556	C3H4Cl2O2	methyl dichloroacetate	116-54-1	79.888	590.79	1.2222	221.25	443.09	1,2	298.15	33.85
1565	C3H4Cl4	1,1,1,2-tetrachloropropane	812-03-3	70.610	646.86	1.2222	208.15	646.86	2	298.15	33.18
1566	C3H4Cl4	1,1,1,3-tetrachloropropane	1070-78-6	70.765	654.78	1.2222	237.74	654.78	2	298.15	33.67
1567	C3H4Cl4	1,1,2,2-tetrachloropropane	13116-60-4	70.340	654.51	1.2222	230.17	654.51	2	298.15	33.46
1568	C3H4Cl4	1,1,2,3-tetrachloropropane	18495-30-2	70.367	677.77	1.2222	212.75	677.77	2	298.15	34.65
1569	C3H4Cl4	1,1,3,3-tetrachloropropane	1653-17-4	70.950	661.02	1.2222	212.75	661.02	2	298.15	34.09
1570	C3H4Cl4	1,2,2,3-tetrachloropropane	13116-53-5	70.498	662.36	1.2222	245.17	662.36	2	298.15	33.94
1578	C3H4F4	1,1,1,2-tetrafluoropropane	421-48-7	53.777	414.81	1.2222	239.09	414.81	2	298.15	11.41
1579	C3H4F4	1,1,1,3-tetrafluoropropane	460-36-6	56.795	457.10	1.2222	254.09	457.10	2	298.15	15.62
1580	C3H4F4	1,1,2,2-tetrafluoropropane	40723-63-5	55.552	457.26	1.2222	239.09	457.26	2	298.15	15.29
1581	C3H4F4	1,1,2,3-tetrafluoropropane	---	58.045	449.44	1.2222	221.67	449.44	2	298.15	15.34
1582	C3H4F4	1,1,3,3-tetrafluoropropane	---	58.045	449.44	1.2222	221.67	449.44	2	298.15	15.34
1583	C3H4F4	1,2,2,3-tetrafluoropropane	813-75-2	56.635	453.25	1.2222	254.09	453.25	2	298.15	15.27

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
1585	C3H4I4	1,1,1,2-tetraiodopropane	66794-31-8	74.708	992.10	1.2222	342.73	992.10	2	342.73	44.50
1586	C3H4I4	1,1,1,3-tetraiodopropane	66794-32-9	76.206	983.52	1.2222	357.73	983.52	2	357.73	43.85
1587	C3H4I4	1,1,2,2-tetraiodopropane	66794-33-0	74.708	992.10	1.2222	342.73	992.10	2	342.73	44.50
1588	C3H4I4	1,1,2,3-tetraiodopropane	66794-21-6	78.247	978.29	1.2222	325.31	978.29	2	325.31	47.74
1589	C3H4I4	1,1,3,3-tetraiodopropane	66794-34-1	78.247	978.29	1.2222	325.31	978.29	2	325.31	47.74
1590	C3H4I4	1,2,2,3-tetraiodopropane	66794-20-5	76.206	983.52	1.2222	357.73	983.52	2	357.73	43.85
1621	C3H4O	acrolein	107-02-8	73.566	506.00	1.2222	185.45	506.00	2	298.15	24.80
1622	C3H4O	propargyl alcohol	107-19-7	74.570	580.00	1.0286	221.35	580.00	1,2	298.15	35.50
1626	C3H4O2	acrylic acid	79-10-7	59.699	615.00	1.2222	286.65	615.00	2	298.15	26.54
1627	C3H4O2	beta-propiolactone	57-57-8	106.426	686.00	1.2222	239.75	686.00	2	298.15	53.01
1628	C3H4O2	vinyl formate	692-45-5	60.583	498.00	1.2222	290.00	498.00	2	298.15	19.85
1633	C3H4O3	ethylene carbonate	96-49-1	116.980	790.00	1.2222	309.55	790.00	2	309.55	63.70
1634	C3H4O3	pyruvic acid	127-17-3	115.601	634.52	1.2222	286.75	634.52	2	298.15	53.22
1642	C3H5Br	cis-1-bromo-1-propene	590-13-6	69.206	523.23	1.2222	160.15	523.23	2	298.15	24.68
1643	C3H5Br	trans-1-bromo-1-propene	590-15-8	67.785	531.77	1.2222	196.65	531.77	2	298.15	24.81
1644	C3H5Br	2-bromo-1-propene	557-93-7	71.529	510.32	1.2222	147.15	510.32	2	298.15	24.47
1645	C3H5Br	3-bromo-1-propene	106-95-6	66.587	540.20	1.2222	153.76	540.20	2	298.15	24.96
1647	C3H5Br	1-bromo-1-propene; (cis+trans)	590-14-7	68.712	526.38	1.2222	157.25	526.38	2	298.15	24.74
1663	C3H5Br3	1,1,1-tribromopropane	62127-61-1	88.810	710.72	1.2222	304.89	710.72	2	304.89	44.77
1664	C3H5Br3	1,1,2-tribromopropane	14602-62-1	88.278	718.16	1.2222	272.47	718.16	2	298.15	45.83
1665	C3H5Br3	1,1,3-tribromopropane	23511-78-6	88.418	718.00	1.2222	287.47	718.00	2	298.15	45.89
1666	C3H5Br3	1,2,2-tribromopropane	14476-30-3	88.949	709.19	1.2222	304.89	709.19	2	304.89	44.76
1667	C3H5Br3	1,2,3-tribromopropane	96-11-7	86.340	743.76	1.2222	289.34	743.76	2	298.15	46.16
1668	C3H5Cl	cis-1-chloro-1-propene	16136-84-8	66.494	485.56	1.2222	138.35	485.56	2	298.15	20.77
1669	C3H5Cl	trans-1-chloro-1-propene	16136-85-9	65.600	492.86	1.2222	174.15	492.86	2	298.15	21.08
1670	C3H5Cl	2-chloro-1-propene	557-98-2	66.291	478.00	1.2222	135.75	478.00	2	298.15	20.07
1671	C3H5Cl	3-chloro-1-propene	107-05-1	68.144	514.15	1.2222	138.65	514.15	1,2	298.15	23.61
1672	C3H5Cl	1-chloro-1-propene	590-21-6	63.946	492.64	1.2222	135.85	492.64	2	298.15	20.53
1676	C3H5ClO	alpha-epichlorohydrin	106-89-8	81.950	610.00	1.2140	215.95	610.00	1,2	298.15	36.29
1688	C3H5ClO2	methyl chloroacetate	96-34-4	80.093	600.00	1.2222	241.03	600.00	1,2	298.15	34.59
1689	C3H5ClO2	ethyl chloroformate	541-41-3	91.076	508.15	1.2222	192.00	508.15	1,2	298.15	30.93
1703	C3H5Cl3	1,1,1-trichloropropane	7789-89-1	71.079	585.43	1.2222	215.25	585.43	2	298.15	29.78
1704	C3H5Cl3	1,1,2-trichloropropane	598-77-6	69.979	619.96	1.2222	182.83	619.96	2	298.15	31.40
1705	C3H5Cl3	1,1,3-trichloropropane	20395-25-9	69.838	635.01	1.2222	214.17	635.01	2	298.15	32.18
1706	C3H5Cl3	1,2,2-trichloropropane	3175-23-3	69.837	611.68	1.2222	215.25	611.68	2	298.15	30.86
1707	C3H5Cl3	1,2,3-trichloropropane	96-18-4	69.218	652.00	1.2222	258.45	652.00	2	298.15	32.79
1711	C3H5F	cis-1-fluoro-1-propene	19184-10-2	51.081	430.49	1.2222	150.14	430.49	2	298.15	12.08
1712	C3H5F	trans-1-fluoro-1-propene	20327-65-5	51.081	430.49	1.2222	150.14	430.49	2	298.15	12.08
1713	C3H5F	2-fluoro-1-propene	1184-60-7	49.918	396.62	1.2222	139.50	396.62	2	298.15	9.09
1714	C3H5F	3-fluoro-1-propene	818-92-8	66.552	394.72	1.2222	190.00	394.72	2	298.15	11.91
1721	C3H5F3	1,1,1-trifluoropropane	421-07-8	64.336	392.00	1.2222	124.35	392.00	2	298.15	11.21
1722	C3H5F3	1,1,2-trifluoropropane	---	59.093	404.56	1.2222	189.52	404.56	2	298.15	11.55
1723	C3H5F3	1,1,3-trifluoropropane	24270-67-5	60.749	401.66	1.2222	204.52	401.66	2	298.15	11.58
1724	C3H5F3	1,2,2-trifluoropropane	811-94-9	58.231	404.58	1.2222	221.94	404.58	2	298.15	11.39
1725	C3H5F3	1,2,3-trifluoropropane	66794-36-3	60.749	401.66	1.2222	204.52	401.66	2	298.15	11.58
1734	C3H5I	cis-1-iodo-1-propene	7796-36-3	68.997	582.79	1.2222	176.05	582.79	2	298.15	28.74
1735	C3H5I	trans-1-iodo-1-propene	7796-54-5	68.997	582.79	1.2222	176.05	582.79	2	298.15	28.74
1736	C3H5I	2-iodo-1-propene	4375-96-6	67.065	597.58	1.2222	165.41	597.58	2	298.15	28.82
1737	C3H5I	3-iodo-1-propene	556-56-9	67.358	595.81	1.2222	173.86	595.81	2	298.15	28.84
1742	C3H5I3	1,1,1-triiodopropane	---	75.942	852.51	1.2222	299.67	852.51	2	299.67	44.73
1743	C3H5I3	1,1,2-triiodopropane	---	76.123	848.18	1.2222	267.25	848.18	2	298.15	44.83
1744	C3H5I3	1,1,3-triiodopropane	---	76.541	841.02	1.2222	282.25	841.02	2	298.15	44.83
1745	C3H5I3	1,2,2-triiodopropane	---	75.942	852.51	1.2222	299.67	852.51	2	299.67	44.73
1746	C3H5I3	1,2,3-triiodopropane	---	76.541	841.02	1.2222	282.25	841.02	2	298.15	44.83
1752	C3H5N	propionitrile	107-12-0	62.590	564.40	1.1364	180.26	564.40	1,2	298.15	26.65
1753	C3H5N	ethyl isocyanide	624-79-3	69.099	535.33	1.2222	193.16	535.33	2	298.15	25.55
1755	C3H5NO	acrylamide	79-06-1	100.884	710.00	1.2222	357.65	710.00	2	357.65	42.85
1756	C3H5NO	hydracrylonitrile	109-78-4	119.396	690.00	1.2222	227.15	690.00	2	298.15	59.79
1757	C3H5NO	lactonitrile	78-97-7	116.207	643.00	1.2222	233.00	643.00	2	298.15	54.27
1796	C3H5N3O9	nitroglycerine	55-63-0	101.070	680.00	1.2222	286.15	680.00	2	298.15	49.92
1809	C3H6	cyclopropane	75-19-4	61.391	397.91	1.2222	145.73	397.91	2	298.15	11.32
1810	C3H6	propylene	115-07-1	53.658	364.76	1.2058	87.90	364.76	1,2	298.15	6.91
1824	C3H6Br2	1,1-dibromopropane	598-17-4	82.372	624.11	1.2222	227.67	624.11	2	298.15	37.24
1825	C3H6Br2	1,2-dibromopropane	78-75-1	74.990	634.11	1.2222	217.96	634.11	1,2	298.15	34.50
1826	C3H6Br2	1,3-dibromopropane	109-64-8	82.010	669.94	1.2222	238.95	669.94	1,2	298.15	39.93
1827	C3H6Br2	2,2-dibromopropane	594-16-1	84.497	607.05	1.2222	245.09	607.05	2	298.15	37.00
1844	C3H6Cl2	1,1-dichloropropane	78-99-9	75.742	560.00	1.2222	167.91	560.00	2	298.15	29.91
1845	C3H6Cl2	1,2-dichloropropane	78-87-5	71.198	572.00	1.2222	172.71	572.00	1,2	298.15	28.94
1846	C3H6Cl2	1,3-dichloropropane	142-28-9	78.099	603.00	1.2222	173.65	603.00	1,2	298.15	33.93
1847	C3H6Cl2	2,2-dichloropropane	594-20-7	76.187	539.46	1.2222	239.36	539.46	2	298.15	28.50
1848	C3H6Cl2	1,2-dichloropropane, (±)	26198-63-0	75.657	568.62	1.2222	172.62	568.62	2	298.15	30.51
1849	C3H6Cl2	dichloropropane	26638-19-7	75.692	568.62	1.2222	172.65	568.62	2	298.15	30.52
1865	C3H6F2	1,1-difluoropropane	430-61-5	60.425	430.00	1.2222	172.37	430.00	2	298.15	14.25
1866	C3H6F2	1,2-difluoropropane	62126-90-3	57.942	443.30	1.2222	171.00	443.30	2	298.15	14.80
1867	C3H6F2	1,3-difluoropropane	462-39-5	55.019	480.87	1.2222	187.37	480.87	2	298.15	16.86
1868	C3H6F2	2,2-difluoropropane	420-45-1	57.980	428.96	1.2222	168.35	428.96	2	298.15	13.58
1871	C3H6I2	1,1-diiodopropane	10250-52-9	90.849	708.27	1.2222	224.19	708.27	2	298.15	46.59
1872	C3H6I2	1,2-diiodopropane	598-29-8	82.306	780.49	1.2222	253.16	780.49	2	298.15	45.71
1873	C3H6I2	1,3-diiodopropane	627-31-6	87.366	766.97	1.2222	260.15	766.97	1,2	298.15	47.87
1874	C3H6I2	2,2-diiodopropane	630-13-7	90.953	709.92	1.2222	241.61	709.92	2	298.15	46.74

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
1920	C3H6O	allyl alcohol	107-18-6	47.710	545.05	0.8000	144.15	545.05	1,2	298.15	25.32
1921	C3H6O	methyl vinyl ether	107-25-5	63.650	437.00	1.2222	151.15	437.00	2	298.15	15.68
1922	C3H6O	propionaldehyde	123-38-6	67.012	496.00	1.2222	193.15	496.00	2	298.15	21.79
1923	C3H6O	acetone	67-64-1	62.200	508.20	1.1240	178.45	508.20	1,2	298.15	23.04
1924	C3H6O	1,2-propylene oxide	75-56-9	68.964	482.25	1.2222	161.22	482.25	2	298.15	21.26
1927	C3H6O	(S)-(-)-propylene oxide	16088-62-3	67.222	501.13	1.2222	161.25	501.13	2	298.15	22.27
1930	C3H6O2	propanoic acid	79-09-4	58.456	604.00	1.1793	252.45	604.00	1,2	298.15	26.20
1931	C3H6O2	ethyl formate	109-94-4	60.950	508.40	1.0996	193.55	508.40	1,2	298.15	23.08
1932	C3H6O2	methyl acetate	79-20-9	62.200	506.80	1.0480	175.15	506.80	1,2	298.15	24.54
1942	C3H6O2S	3-mercaptopropionic acid	107-96-0	106.098	729.00	1.2222	290.65	729.00	2	298.15	55.79
1948	C3H6O3	lactic acid	50-21-5	146.756	616.00	1.2222	291.15	616.00	2	298.15	65.37
1949	C3H6O3	methoxyacetic acid	625-45-6	106.244	691.00	1.2222	281.00	691.00	2	298.15	53.28
1950	C3H6O3	trioxane	110-88-3	89.963	604.00	1.2222	334.65	604.00	2	334.65	33.53
1967	C3H6S	thiacyclobutane	287-27-4	79.695	603.00	1.2222	199.96	603.00	2	298.15	34.62
1968	C3H6S	2-methylthiacyclopropane	1072-43-1	70.237	561.10	1.2222	182.15	561.10	2	298.15	27.81
1978	C3H7Br	1-bromopropane	106-94-5	65.670	544.00	1.2036	163.15	544.00	1,2	298.15	25.25
1979	C3H7Br	2-bromopropane	75-26-3	56.360	532.00	1.0980	184.15	532.00	1,2	298.15	22.86
1986	C3H7Cl	1-chloropropane	540-54-5	66.870	503.15	1.2750	150.35	503.15	1,2	298.15	21.28
1987	C3H7Cl	2-chloropropane	75-29-6	61.898	489.00	1.2222	155.97	489.00	1,2	298.15	19.60
2020	C3H7F	1-fluoropropane	460-13-9	55.837	422.00	1.2222	114.16	422.00	2	298.15	12.48
2021	C3H7F	2-fluoropropane	420-26-8	55.980	415.68	1.2222	139.80	415.68	2	298.15	11.95
2025	C3H7I	1-iodopropane	107-08-4	66.100	593.00	1.1850	171.85	593.00	1,2	298.15	28.88
2026	C3H7I	2-iodopropane	75-30-9	65.050	578.00	1.2320	183.15	578.00	1,2	298.15	26.62
2030	C3H7N	allylamine	107-11-9	63.900	505.00	1.0846	184.95	505.00	1,2	298.15	24.27
2031	C3H7N	propyleneimine	75-55-8	75.963	529.00	1.2222	229.00	529.00	2	298.15	27.57
2036	C3H7NO	N,N-dimethylformamide	68-12-2	67.100	647.00	1.0800	212.72	647.00	1,2	298.15	34.43
2037	C3H7NO	N-methylacetamide	79-16-3	78.700	718.00	1.5650	301.15	718.00	1,2	301.15	33.61
2038	C3H7NO	N-ethylformamide	627-45-2	113.577	647.00	1.2222	230.00	647.00	2	298.15	53.38
2040	C3H7NO	propanamide	79-05-0	76.577	690.33	1.2222	354.45	517.75	1,2	354.45	31.75
2045	C3H7NO2	1-nitropropane	108-03-2	65.160	605.00	1.1500	169.16	605.00	1,2	298.15	29.85
2046	C3H7NO2	2-nitropropane	79-46-9	69.700	594.00	1.2566	181.83	594.00	1,2	298.15	29.03
2094	C3H8	propane	74-98-6	49.185	369.82	1.2222	85.46	369.82	1,2	298.15	6.62
2129	C3H8O	propyl alcohol	71-23-8	44.611	536.71	0.8000	146.95	536.71	1,2	298.15	23.32
2130	C3H8O	isopropyl alcohol	67-63-0	42.411	508.31	0.8000	185.28	508.31	1,2	298.15	20.92
2131	C3H8O	methyl ethyl ether	540-67-0	61.709	437.80	1.2222	160.00	437.80	1,2	298.15	15.27
2138	C3H8O2	2-methoxyethanol	109-86-4	107.219	564.00	1.2222	188.05	564.00	2	298.15	42.76
2139	C3H8O2	methylal	109-87-5	61.261	480.60	1.2222	168.35	480.60	2	298.15	18.75
2140	C3H8O2	1,2-propanediol (propylene glycol)	57-55-6	100.532	626.00	1.2222	213.15	626.00	2	298.15	45.60
2141	C3H8O2	1,3-propanediol	504-63-2	95.411	658.00	1.2222	246.45	658.00	1,2	298.15	45.63
2143	C3H8O2	(R)-(-)-1,2-propanediol	4254-14-2	97.715	642.00	1.2222	380.37	642.00	2	380.37	32.62
2144	C3H8O2	(S)-(+)-1,2-propanediol	4254-15-3	97.715	642.00	1.2222	380.37	642.00	2	380.37	32.62
2148	C3H8O3	glycerol	56-81-5	145.848	723.00	1.2222	291.33	723.00	2	298.15	76.15
2156	C3H8O4S	ethyl methyl sulfate	814-40-4	65.369	775.00	1.2222	241.15	775.00	2	298.15	36.11
2158	C3H8S	propyl mercaptan	107-03-9	67.847	536.00	1.2692	159.95	536.00	1,2	298.15	24.19
2159	C3H8S	isopropyl mercaptan	75-33-2	61.750	517.00	1.2338	142.61	517.00	1,2	298.15	21.38
2160	C3H8S	methyl ethyl sulfide	624-89-5	68.276	532.80	1.2222	167.20	532.80	1,2	298.15	25.06
2200	C3H9N	propylamine	107-10-8	68.546	496.95	1.2222	190.15	496.95	1,2	298.15	22.37
2201	C3H9N	isopropylamine	75-31-0	58.875	471.85	1.2222	177.95	471.85	1,2	298.15	17.36
2202	C3H9N	methylethylamine	624-78-2	53.785	475.00	1.2222	195.00	475.00	2	298.15	16.08
2203	C3H9N	trimethylamine	75-50-3	50.824	433.25	1.1440	156.08	433.25	1,2	298.15	13.40
2204	C3H9NO	1-amino-2-propanol	78-96-6	109.706	614.00	1.2222	274.89	614.00	2	298.15	48.68
2205	C3H9NO	3-amino-1-propanol	156-87-6	94.796	649.00	1.2222	284.15	649.00	1,2	298.15	44.70
2206	C3H9NO	methylethanolamine	109-83-1	106.934	630.00	1.2222	268.65	630.00	2	298.15	48.85
2207	C3H9NO	2-amino-1-propanol, (±)	6168-72-5	102.768	631.00	1.2222	286.52	631.00	2	298.15	47.03
2210	C3H9NO	s(+)-2-amino-1-propanol	2749-11-3	102.768	631.00	1.2222	286.52	631.00	2	298.15	47.03
2211	C3H9NO	(R)-(-)-1-amino-2-propanol	2799-16-8	106.258	631.00	1.2222	297.65	631.00	2	298.15	48.62
2212	C3H9NO	(S)-(+)-1-amino-2-propanol	2799-17-9	106.258	631.00	1.2222	295.65	631.00	2	298.15	48.62
2213	C3H9NO	(R)-(-)-2-amino-1-propanol	35320-23-1	102.768	631.00	1.2222	286.52	631.00	2	298.15	47.03
2214	C3H9NO	2-aminopropanol	78-91-1	102.887	631.00	1.2222	298.15	631.00	2	298.15	47.08
2241	C3H9O4P	trimethyl phosphate	512-56-1	78.046	764.00	1.5108	227.00	764.00	1,2	298.15	36.96
2255	C3H10N2	1,2-propanediamine	78-90-0	74.561	587.00	1.2222	236.53	587.00	2	298.15	31.34
2257	C3H10N2	1,2-propanediamine, (±)	10424-38-1	74.591	587.00	1.2222	236.53	587.00	2	298.15	31.35
2258	C3H10N2	1,3-propanediamine	109-76-2	77.548	587.00	1.2222	236.53	587.00	2	298.15	32.60
2268	C3H10Si	trimethyl silane	993-07-7	45.577	432.00	1.2222	137.26	432.00	2	298.15	10.88
2317	C4Cl4S	tetrachlorothiophene	6012-97-1	72.637	753.00	1.2222	301.97	753.00	2	301.97	38.82
2318	C4Cl6	hexachloro-1,3-butadiene	87-68-3	51.402	741.00	1.2222	252.15	741.00	2	298.15	27.40
2334	C4F8	octafluoro-2-butene	360-89-4	40.243	392.00	1.2222	138.15	392.00	2	298.15	7.01
2335	C4F8	perfluoroisobutene	382-21-8	46.557	392.00	1.2222	143.15	392.00	2	298.15	8.11
2336	C4F8	octafluorocyclobutane	115-25-3	54.520	388.37	1.3170	232.96	388.37	1,2	298.15	7.97
2337	C4F8	1,1,2,3,3,4,4,4-octafluoro-1-butene	357-26-6	44.408	392.00	1.2222	140.65	392.00	2	298.15	7.74
2338.1	C4F8O	pentafluoroethyl trifluorovinyl ether	10493-43-3	46.885	401.00	1.2222	128.00	401.00	2	298.15	8.89
2344	C4F10	decafluorobutane	355-25-9	42.833	386.35	1.2222	144.95	386.35	2	298.15	7.04
2345	C4F10	perfluoroisobutane	354-92-7	36.883	386.35	1.2222	144.95	386.35	2	298.15	6.06
2374	C4H2	biacetylene	460-12-8	63.430	478.02	1.2222	237.16	478.02	2	298.15	19.21
2420.1	C4H2N2	maleonitrile	928-53-0	175.159	704.00	1.5092	304.40	704.00	2	304.40	74.52
2430	C4H2O3	maleic anhydride	108-31-6	129.551	721.00	1.2222	326.00	721.00	2	326.00	62.09
2510	C4H4	vinylacetylene	689-97-4	60.841	454.00	1.2222	200.00	454.00	2	298.15	16.47
2562	C4H4N2	succinonitrile	110-61-2	82.944	770.00	1.2222	331.30	770.00	2	331.30	41.70
2592	C4H4O	furan	110-00-9	71.194	490.15	1.2222	187.55	490.15	2	298.15	22.64
2598	C4H4O2	diketene	674-82-8	95.797	616.00	1.2222	266.65	616.00	2	298.15	42.67

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
2603	C4H4O3	succinic anhydride	108-30-5	126.809	811.00	1.2222	393.00	811.00	2	393.00	56.41
2605	C4H4O4	fumaric acid	110-17-8	136.867	771.00	1.2222	560.15	771.00	2	560.15	28.06
2606	C4H4O4	maleic acid	110-16-7	137.652	773.00	1.2222	403.45	773.00	2	403.45	55.85
2613	C4H4S	thiophene	110-02-1	82.100	579.35	1.3280	234.94	579.35	1,2	298.15	31.44
2634	C4H5Cl	chloroprene	126-99-8	60.345	525.00	1.2222	143.15	525.00	2	298.15	21.64
2665	C4H5Cl3	1,2,4-trichloro-2-butene	2431-54-1	75.442	593.06	1.2222	283.15	444.80	2	298.15	32.12
2666	C4H5Cl3	2,3,4-trichloro-1-butene	2431-50-7	75.442	593.06	1.2222	283.15	444.80	2	298.15	32.12
2667	C4H5Cl3	1,1,3-trichloro-2-methyl-1-propene	31702-33-7	74.447	609.39	1.2222	283.15	457.04	2	298.15	32.75
2668	C4H5Cl3	3,3,3-trichloro-2-methyl-1-propene	4749-27-3	76.557	576.73	1.2222	283.15	432.55	2	298.15	31.46
2673	C4H5Cl3O2	ethyl trichloroacetate	515-84-4	66.731	625.72	1.2222	278.15	469.29	1,2	298.15	30.25
2695	C4H5N	trans-crotonitrile	627-26-9	70.769	586.00	1.2222	222.00	586.00	2	298.15	29.68
2696	C4H5N	cis-crotonitrile	1190-76-7	68.912	568.00	1.2222	200.55	568.00	2	298.15	27.75
2697	C4H5N	methacrylonitrile	126-98-7	63.270	554.00	1.2222	237.35	554.00	2	298.15	24.61
2698	C4H5N	vinylacetonitrile	109-75-1	69.783	584.00	1.2222	186.15	584.00	2	298.15	29.14
2699	C4H5N	2-butenenitrile	4786-20-3	75.917	573.00	1.2222	221.65	573.00	2	298.15	30.93
2701	C4H5N	pyrrole	109-97-7	79.549	639.75	1.2222	249.74	639.75	1,2	298.15	36.95
2713	C4H5NO2	methyl cyanoacetate	105-34-0	83.360	687.00	1.2222	260.08	687.00	2	298.15	41.58
2753	C4H6	cyclobutene	822-35-5	64.895	446.33	1.2222	153.76	446.33	2	298.15	16.86
2754	C4H6	dimethylacetylene	503-17-3	63.101	488.15	1.2096	240.91	488.15	1,2	298.15	20.15
2755	C4H6	ethylacetylene	107-00-6	53.410	443.20	1.0210	147.43	443.20	1,2	298.15	17.07
2756	C4H6	1,2-butadiene	590-19-2	53.273	444.00	1.2222	136.95	444.00	2	298.15	13.66
2757	C4H6	butadiene (1,3 butadiene)	106-99-0	47.682	425.37	1.0507	164.25	425.37	1,2	298.15	13.41
2806	C4H6Cl2	1,3-dichloro-trans-2-butene	7415-31-8	62.219	618.00	1.2222	225.15	618.00	2	298.15	27.82
2807	C4H6Cl2	1,4-dichloro-cis-2-butene	1476-11-5	62.456	640.00	1.2222	225.15	640.00	2	298.15	29.02
2808	C4H6Cl2	1,4-dichloro-trans-2-butene	110-57-6	62.827	640.00	1.2222	274.15	640.00	2	298.15	29.19
2809	C4H6Cl2	3,4-dichloro-1-butene	760-23-6	58.208	640.00	1.2222	212.00	640.00	2	298.15	27.05
2810	C4H6Cl2	3-chloro-2-(chloromethyl)-1-propene	1871-57-4	60.900	640.00	1.2222	259.15	640.00	2	298.15	28.30
2811	C4H6Cl2	1,3-dichloro-1-butene	52497-07-1	59.419	640.00	1.2222	243.20	640.00	2	298.15	27.61
2812	C4H6Cl2	2,3-dichloro-1-butene	7013-11-8	57.859	640.00	1.2222	243.20	640.00	2	298.15	26.88
2813	C4H6Cl2	1,1-dichloro-2-butene	56800-09-0	59.536	640.00	1.2222	243.20	640.00	2	298.15	27.66
2814	C4H6Cl2	1,2-dichloro-2-butene	13602-13-6	60.056	640.00	1.2222	243.20	640.00	2	298.15	27.91
2815	C4H6Cl2	cis-1,3-dichloro-2-butene	10075-38-4	59.998	640.00	1.2222	243.20	640.00	2	298.15	27.88
2816	C4H6Cl2	cis-2,3-dichloro-2-butene	1587-26-4	59.478	640.00	1.2222	243.20	640.00	2	298.15	27.64
2817	C4H6Cl2	trans-2,3-dichloro-2-butene	1587-29-7	56.606	640.00	1.2222	243.20	640.00	2	298.15	26.30
2818	C4H6Cl2	1,1-dichloro-2-methyl-1-propene	6065-93-6	57.426	640.00	1.2222	230.15	640.00	2	298.15	26.68
2819	C4H6Cl2	3,3-dichloro-2-methyl-1-propene	22227-75-4	57.364	640.00	1.2222	243.20	640.00	2	298.15	26.65
2820	C4H6Cl2	1,4-dichloro-2-butene	764-41-0	62.918	640.00	1.2222	276.65	640.00	2	298.15	29.24
2821	C4H6Cl2	1,3-dichloro-2-butene, cis and trans	926-57-8	59.768	640.00	1.2222	243.20	640.00	2	298.15	27.77
2822	C4H6Cl2	dichlorobutene	11069-19-5	59.731	640.00	1.2222	243.20	640.00	2	298.15	27.75
2842	C4H6Cl2O2	ethyl dichloroacetate	535-15-9	72.803	607.97	1.2222	278.15	455.98	1,2	298.15	31.94
2856	C4H6Cl4	1,1,1,2-tetrachlorobutane	39966-95-5	64.520	690.00	1.2222	301.32	690.00	2	301.32	31.99
2857	C4H6Cl4	1,2,2,3-tetrachlorobutane	79630-70-9	69.574	690.00	1.2222	225.15	690.00	2	298.15	34.84
2858	C4H6Cl4	1,2,3,3-tetrachlorobutane	13138-51-7	69.346	690.00	1.2222	301.32	690.00	2	301.32	34.39
2859	C4H6Cl4	1,1,1,2-tetrachloro-2-methylpropane	7086-07-9	69.346	690.00	1.2222	451.65	690.00	2	451.65	18.91
2860	C4H6Cl4	1,1,2,3-tetrachloro-2-methylpropane	18963-01-4	70.369	690.00	1.2222	227.15	690.00	2	298.15	35.24
2861	C4H6Cl4	1,2,3-trichloro-2-(chloromethyl)propane	18963-00-3	72.138	690.00	1.2222	301.32	690.00	2	301.32	35.77
2862	C4H6Cl4	1,2,3,4-tetrachlorobutane	3405-32-1	69.346	690.00	1.2222	301.32	690.00	2	301.32	34.39
2939.1	C4H6O	cis-crotonaldehyde	15798-64-8	68.035	554.00	1.2458	158.38	554.00	2	298.15	25.99
2940	C4H6O	trans-crotonaldehyde	123-73-9	69.827	571.00	1.2222	196.65	571.00	2	298.15	28.32
2941	C4H6O	methacrolein	78-85-3	71.149	530.00	1.2222	192.15	530.00	2	298.15	25.90
2944	C4H6O	divinyl ether	109-93-3	63.543	463.00	1.2222	172.05	463.00	2	298.15	17.98
2946	C4H6O	3-buten-2-one	78-94-4	70.924	555.00	1.2222	200.00	555.00	2	298.15	27.66
2956	C4H6O	crotonaldehyde	4170-30-3	73.448	550.50	1.2222	198.00	550.50	2	298.15	28.31
2958	C4H6O	2-methyl-1-propen-1-one	598-26-5	71.646	555.00	1.2222	200.00	555.00	2	298.15	27.94
2959	C4H6O	methyl vinyl ketone	78-94-4	74.788	555.00	1.2222	200.00	555.00	2	298.15	29.16
2963	C4H6O2	2-butyne-1,4-diol	110-65-6	159.004	695.00	1.2222	331.00	695.00	2	331.00	72.13
2965	C4H6O2	gamma-butyrolactone	96-48-0	100.181	739.00	1.2222	229.78	739.00	2	298.15	53.28
2966	C4H6O2	cis-2-butenoic acid	503-64-0	58.184	647.00	1.2222	288.65	647.00	2	298.15	27.35
2967	C4H6O2	trans-2-butenoic acid	107-93-7	57.216	666.00	1.2222	344.55	666.00	2	344.55	23.49
2968	C4H6O2	vinylacetic acid	625-38-7	57.278	669.69	1.2222	238.15	669.69	2	298.15	27.88
2969	C4H6O2	methacrylic acid	79-41-4	57.950	643.00	1.2222	288.15	643.00	2	298.15	27.06
2970	C4H6O2	methyl acrylate	96-33-3	58.830	536.00	1.0920	196.32	536.00	1,2	298.15	24.23
2971	C4H6O2	vinyl acetate	108-05-4	61.634	524.00	1.2222	180.35	524.00	2	298.15	22.03
2972	C4H6O2	allyl formate	1838-59-1	63.008	530.00	1.2222	188.34	530.00	2	298.15	22.94
2978	C4H6O2	cyclopropanecarboxylic acid	1759-53-1	57.942	656.42	1.2222	291.65	656.42	2	298.15	27.64
2981	C4H6O2	crotonic acid	3724-65-0	58.166	656.42	1.2222	290.23	656.42	2	298.15	27.75
2990	C4H6O3	acetic anhydride	108-24-7	80.217	569.15	1.2420	200.15	569.15	1,2	298.15	31.92
3006	C4H6O4	succinic acid	110-15-6	133.845	806.00	1.2222	461.15	806.00	2	461.15	47.42
3023	C4H6O5	diglycolic acid	110-99-6	134.826	820.00	1.2222	421.15	820.00	2	421.15	55.87
3024	C4H6O5	malic acid	6915-15-7	178.431	781.00	1.2222	403.15	781.00	2	403.15	73.46
3033	C4H6O6	tartaric acid	87-69-4	220.407	828.00	1.2222	479.15	828.00	2	479.15	76.63
3047	C4H7Br	cis-1-bromo-1-butene	31849-78-2	65.108	554.15	1.2222	189.06	554.15	2	298.15	25.33
3048	C4H7Br	trans-1-bromo-1-butene	32620-08-9	63.515	567.34	1.2222	172.85	567.34	2	298.15	25.54
3049	C4H7Br	2-bromo-1-butene	23074-36-4	65.823	548.16	1.2222	139.75	548.16	2	298.15	25.22
3050	C4H7Br	3-bromo-1-butene	22037-73-6	61.423	586.28	1.2222	177.38	586.28	2	298.15	25.78
3051	C4H7Br	4-bromo-1-butene	5162-44-7	63.154	571.36	1.2222	192.38	571.36	2	298.15	25.63
3052	C4H7Br	1-bromo-cis-2-butene	39616-19-8	61.986	581.68	1.2222	189.06	581.68	2	298.15	25.75
3053	C4H7Br	1-bromo-trans-2-butene	29576-14-5	61.986	581.68	1.2222	189.06	581.68	2	298.15	25.75
3054	C4H7Br	2-bromo-cis-2-butene	3017-68-3	64.473	557.88	1.2222	161.95	557.88	2	298.15	25.33
3055	C4H7Br	2-bromo-trans-2-butene	3017-71-8	62.847	571.87	1.2222	157.75	571.87	2	298.15	25.54

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
3056	C4H7Br	1-bromo-2-methyl-1-propene	3017-69-4	63.508	565.96	1.2222	175.10	565.96	2	298.15	25.45
3057	C4H7Br	3-bromo-2-methyl-1-propene	1458-98-6	63.159	569.83	1.2222	178.42	569.83	2	298.15	25.54
3058	C4H7Br	1-bromo-2-butene	4784-77-4	63.877	568.74	1.2222	174.80	568.74	2	298.15	25.77
3059	C4H7Br	2-bromo-2-butene; (cis+trans)	13294-71-8	62.943	568.74	1.2222	174.80	568.74	2	298.15	25.39
3083	C4H7Br3	1,1,1-tribromobutane	62127-62-2	88.039	723.31	1.2222	316.16	723.31	2	316.16	43.62
3084	C4H7Br3	1,1,2-tribromobutane	3675-68-1	88.006	725.15	1.2222	283.74	725.15	2	298.15	46.07
3085	C4H7Br3	1,1,3-tribromobutane	---	88.109	723.92	1.2222	283.74	723.92	2	298.15	46.06
3086	C4H7Br3	1,1,4-tribromobutane	---	88.666	718.77	1.2222	298.74	718.77	2	298.74	45.98
3087	C4H7Br3	1,2,2-tribromobutane	3675-69-2	87.692	727.50	1.2222	316.16	727.50	2	316.16	43.68
3088	C4H7Br3	1,2,3-tribromobutane	632-05-3	87.546	730.78	1.2222	254.15	730.78	2	298.15	46.13
3089	C4H7Br3	1,2,4-tribromobutane	38300-67-3	88.769	717.58	1.2222	255.15	717.58	2	298.15	46.05
3090	C4H7Br3	1,3,3-tribromobutane	62127-46-2	91.692	684.47	1.2222	316.16	684.47	2	316.16	42.99
3091	C4H7Br3	2,3,3-tribromobutane	62127-47-3	88.030	721.95	1.2222	275.00	721.95	2	298.15	45.91
3092	C4H7Br3	1,1,1-tribromo-2-methylpropane	---	87.213	731.86	1.2222	301.16	731.86	2	301.16	45.62
3093	C4H7Br3	1,1,2-tribromo-2-methylpropane	15331-16-5	85.253	758.11	1.2222	301.16	758.11	2	301.16	45.92
3094	C4H7Br3	1,1,3-tribromo-2-methylpropane	---	88.109	723.92	1.2222	283.74	723.92	2	298.15	46.06
3095	C4H7Br3	1,2,3-tribromo-2-methylpropane	631-28-7	86.951	736.76	1.2222	316.16	736.76	2	316.16	43.82
3096	C4H7Br3	1,3-dibromo-2-(bromomethyl)propane	62127-48-4	88.145	724.93	1.2222	241.15	724.93	2	298.15	46.13
3098	C4H7Cl	cis-1-chloro-1-butene	7611-86-1	64.358	521.07	1.2222	159.18	521.07	2	298.15	22.80
3099	C4H7Cl	trans-1-chloro-1-butene	7611-87-2	63.772	528.19	1.2222	159.18	528.19	2	298.15	23.09
3100	C4H7Cl	2-chloro-1-butene	2211-70-3	64.659	515.18	1.2222	148.54	515.18	2	298.15	22.48
3101	C4H7Cl	3-chloro-1-butene	563-52-0	63.744	524.61	1.2222	147.50	524.61	2	298.15	22.83
3102	C4H7Cl	4-chloro-1-butene	927-73-1	63.481	535.14	1.2222	162.50	535.14	2	298.15	23.46
3103	C4H7Cl	1-chloro-cis-2-butene	4628-21-1	62.050	553.11	1.2222	159.18	553.11	2	298.15	24.08
3104	C4H7Cl	1-chloro-trans-2-butene	4894-61-5	61.966	554.50	1.2222	159.18	554.50	2	298.15	24.13
3105	C4H7Cl	2-chloro-cis-2-butene	2211-69-0	63.152	530.28	1.2222	155.85	530.28	2	298.15	23.01
3106	C4H7Cl	2-chloro-trans-2-butene	2211-68-9	63.668	523.73	1.2222	167.35	523.73	2	298.15	22.74
3107	C4H7Cl	1-chloro-2-methyl-1-propene	513-37-1	63.000	532.31	1.2222	145.22	532.31	2	298.15	23.09
3108	C4H7Cl	3-chloro-2-methyl-1-propene	563-47-3	62.939	536.47	1.2222	148.54	536.47	2	298.15	23.35
3110	C4H7Cl	1-chloro-2-butene	591-97-9	64.856	532.24	1.2222	208.25	532.24	2	298.15	23.77
3111	C4H7Cl	2-chloro-2-butene	4461-41-0	62.392	532.24	1.2222	160.04	532.24	2	298.15	22.86
3156	C4H7Cl3	1,1,1-trichlorobutane	13279-85-1	70.987	614.26	1.2222	226.52	614.26	2	298.15	31.52
3157	C4H7Cl3	1,1,2-trichlorobutane	---	70.808	628.34	1.2222	194.10	628.34	2	298.15	32.25
3158	C4H7Cl3	1,1,3-trichlorobutane	13279-87-3	71.547	628.34	1.2222	194.10	628.34	2	298.15	32.59
3159	C4H7Cl3	1,1,4-trichlorobutane	66250-03-1	71.465	623.15	1.2222	209.10	623.15	2	298.15	32.25
3160	C4H7Cl3	1,2,2-trichlorobutane	---	69.042	663.82	1.2222	226.52	663.82	2	298.15	33.31
3161	C4H7Cl3	1,2,3-trichlorobutane	18338-40-4	69.675	656.99	1.2222	194.10	656.99	2	298.15	33.27
3162	C4H7Cl3	1,2,4-trichlorobutane	1790-22-3	70.220	652.82	1.2222	209.10	652.82	2	298.15	33.31
3163	C4H7Cl3	1,3,3-trichlorobutane	13280-60-9	70.159	633.65	1.2222	226.52	633.65	2	298.15	32.25
3164	C4H7Cl3	2,3,3-trichlorobutane	10403-60-8	69.723	633.36	1.2222	211.52	633.36	2	298.15	32.04
3165	C4H7Cl3	1,1,1-trichloro-2-methylpropane	---	69.792	631.61	1.2222	211.52	631.61	2	298.15	31.97
3166	C4H7Cl3	1,1,2-trichloro-2-methylpropane	29559-52-2	69.635	635.65	1.2222	267.15	635.65	2	298.15	32.12
3167	C4H7Cl3	1,1,3-trichloro-2-methylpropane	62108-65-0	71.136	620.86	1.2222	267.15	620.86	2	298.15	31.97
3168	C4H7Cl3	1,2,3-trichloro-2-methylpropane	1871-58-5	69.191	659.52	1.2222	226.52	659.52	2	298.15	33.17
3169	C4H7Cl3	1,3-dichloro-2-(chloromethyl)-propane	2014-83-7	72.735	597.58	1.2222	209.10	597.58	2	298.15	31.26
3177	C4H7F	cis-1-fluoro-1-butene	66675-34-1	54.838	455.25	1.2222	161.41	455.25	2	298.15	14.94
3178	C4H7F	trans-1-fluoro-1-butene	66675-35-2	54.838	455.25	1.2222	161.41	455.25	2	298.15	14.94
3179	C4H7F	2-fluoro-1-butene	430-44-4	54.375	462.01	1.2222	150.77	462.01	2	298.15	15.32
3180	C4H7F	3-fluoro-1-butene	---	54.144	445.34	1.2222	149.73	445.34	2	298.15	13.99
3181	C4H7F	4-fluoro-1-butene	---	55.425	441.88	1.2222	164.73	441.88	2	298.15	14.05
3182	C4H7F	cis-1-fluoro-2-butene	---	54.838	455.25	1.2222	161.41	455.25	2	298.15	14.94
3183	C4H7F	trans-1-fluoro-2-butene	---	54.838	455.25	1.2222	161.41	455.25	2	298.15	14.94
3184	C4H7F	cis-2-fluoro-2-butene	66675-38-5	53.872	467.83	1.2222	147.45	467.83	2	298.15	15.60
3185	C4H7F	trans-2-fluoro-2-butene	66675-39-6	53.872	467.83	1.2222	147.45	467.83	2	298.15	15.60
3186	C4H7F	1-fluoro-2-methyl-1-propene	---	53.838	475.39	1.2222	147.45	475.39	2	298.15	16.12
3187	C4H7F	3-fluoro-2-methyl-1-propene	---	54.302	473.42	1.2222	150.77	473.42	2	298.15	16.12
3192	C4H7F3	1,1,1-trifluorobutane	460-34-4	58.041	425.80	1.2222	158.35	425.80	2	298.15	13.31
3193	C4H7F3	1,1,2-trifluorobutane	---	55.954	429.75	1.2222	200.79	429.75	2	298.15	13.17
3194	C4H7F3	1,1,3-trifluorobutane	---	55.954	429.75	1.2222	200.79	429.75	2	298.15	13.17
3195	C4H7F3	1,1,4-trifluorobutane	---	57.151	426.87	1.2222	215.79	426.87	2	298.15	13.20
3196	C4H7F3	1,2,2-trifluorobutane	---	55.225	429.82	1.2222	233.21	429.82	2	298.15	13.01
3197	C4H7F3	1,2,3-trifluorobutane	---	55.954	429.75	1.2222	200.79	429.75	2	298.15	13.17
3198	C4H7F3	1,2,4-trifluorobutane	---	57.151	426.87	1.2222	215.79	426.87	2	298.15	13.20
3199	C4H7F3	1,3,3-trifluorobutane	---	55.225	429.82	1.2222	233.21	429.82	2	298.15	13.01
3200	C4H7F3	2,3,3-trifluorobutane	---	54.024	432.90	1.2222	218.21	432.90	2	298.15	12.97
3201	C4H7F3	1,1,1-trifluoro-2-methylpropane	---	54.024	432.90	1.2222	218.21	432.90	2	298.15	12.97
3202	C4H7F3	1,1,2-trifluoro-2-methylpropane	---	54.024	432.90	1.2222	218.21	432.90	2	298.15	12.97
3203	C4H7F3	1,1,3-trifluoro-2-methylpropane	---	55.954	429.75	1.2222	200.79	429.75	2	298.15	13.17
3204	C4H7F3	1,3-difluoro-2-(fluoromethyl)-propane	---	57.151	426.87	1.2222	215.79	426.87	2	298.15	13.20
3209	C4H7I	cis-1-iodo-1-butene	54068-75-6	59.324	686.08	1.2222	187.32	686.08	2	298.15	29.55
3210	C4H7I	trans-1-iodo-1-butene	62154-92-1	64.518	623.09	1.2222	187.32	623.09	2	298.15	29.11
3211	C4H7I	2-iodo-1-butene	24308-61-0	64.356	624.36	1.2222	176.68	624.36	2	298.15	29.11
3212	C4H7I	3-iodo-1-butene	62154-74-9	64.234	625.42	1.2222	175.64	625.42	2	298.15	29.11
3213	C4H7I	4-iodo-1-butene	7766-51-0	64.922	619.52	1.2222	190.64	619.52	2	298.15	29.11
3214	C4H7I	1-iodo-cis-2-butene	53121-23-6	63.829	630.09	1.2222	187.32	630.09	2	298.15	29.16
3215	C4H7I	1-iodo-trans-2-butene	38169-04-9	63.829	630.09	1.2222	187.32	630.09	2	298.15	29.16
3216	C4H7I	2-iodo-cis-2-butene	24298-09-7	66.011	608.34	1.2222	173.36	608.34	2	298.15	28.98
3217	C4H7I	2-iodo-trans-2-butene	24298-08-6	66.011	608.34	1.2222	173.36	608.34	2	298.15	28.98
3218	C4H7I	1-iodo-2-methyl-1-propene	20687-01-8	66.011	608.34	1.2222	173.36	608.34	2	298.15	28.98
3219	C4H7I	3-iodo-2-methyl-1-propene	3756-30-7	67.731	594.11	1.2222	176.68	594.11	2	298.15	28.90

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
3224	C4H7I3	1,1,1-triiodobutane	---	74.399	867.15	1.2222	310.94	867.15	2	310.94	43.24
3225	C4H7I3	1,1,2-triiodobutane	---	74.548	863.14	1.2222	278.52	863.14	2	298.15	44.41
3226	C4H7I3	1,1,3-triiodobutane	---	74.548	863.14	1.2222	278.52	863.14	2	298.15	44.41
3227	C4H7I3	1,1,4-triiodobutane	---	74.916	856.37	1.2222	293.52	856.37	2	298.15	44.40
3228	C4H7I3	1,2,2-triiodobutane	---	74.399	867.15	1.2222	310.94	867.15	2	310.94	43.24
3229	C4H7I3	1,2,3-triiodobutane	---	74.548	863.14	1.2222	278.52	863.14	2	298.15	44.41
3230	C4H7I3	1,2,4-triiodobutane	---	74.916	856.37	1.2222	293.52	856.37	2	298.15	44.40
3231	C4H7I3	1,3,3-triiodobutane	---	74.399	867.15	1.2222	310.94	867.15	2	310.94	43.24
3232	C4H7I3	2,2,3-triiodobutane	---	74.018	874.42	1.2222	295.94	874.42	2	298.15	44.46
3233	C4H7I3	1,1,1-triiodo-2-methylpropane	---	74.018	874.42	1.2222	295.94	874.42	2	298.15	44.46
3234	C4H7I3	1,1,2-triiodo-2-methylpropane	---	74.018	874.42	1.2222	295.94	874.42	2	298.15	44.46
3235	C4H7I3	1,1,3-triiodo-2-methylpropane	---	74.548	863.14	1.2222	278.52	863.14	2	298.15	44.41
3236	C4H7I3	1,2,3-triiodo-2-methylpropane	---	74.399	867.15	1.2222	310.94	867.15	2	310.94	43.24
3237	C4H7I3	1,3-diiodo-2-(iodomethyl)-propane	---	74.916	856.37	1.2222	293.52	856.37	2	298.15	44.40
3238	C4H7N	butyronitrile	109-74-0	59.560	582.25	1.1050	161.25	582.25	1,2	298.15	26.95
3239	C4H7N	isobutyronitrile	78-82-0	66.430	565.00	1.2222	201.70	565.00	2	298.15	26.56
3240	C4H7N	propyl isocyanide	627-36-1	67.120	554.09	1.2222	204.43	554.09	2	298.15	26.11
3241	C4H7N	isopropyl isocyanide	598-45-8	65.198	541.04	1.2222	189.43	541.04	2	298.15	24.50
3246	C4H7NO	acetone cyanohydrin	75-86-5	101.651	647.00	1.2222	253.15	647.00	2	298.15	47.78
3247	C4H7NO	2-methacrylamide	79-39-0	98.848	741.00	1.2222	383.65	741.00	2	383.65	40.54
3248	C4H7NO	3-methoxypropionitrile	110-67-8	72.625	638.00	1.1470	210.12	638.00	1,2	298.15	35.26
3249	C4H7NO	2-pyrrolidone	616-45-5	111.307	792.00	1.2222	298.15	792.00	2	298.15	62.49
3318	C4H8	methylcyclopropane	594-11-6	59.254	437.13	1.2222	95.85	437.13	2	298.15	14.60
3319	C4H8	cyclobutane	287-23-0	63.189	459.93	1.2222	182.48	459.93	2	298.15	17.62
3320	C4H8	1-butene	106-98-9	56.000	419.59	1.2341	87.80	419.59	1,2	298.15	12.12
3321	C4H8	2-butene; (cis+trans)	107-01-7	56.934	425.43	1.2222	130.62	425.43	2	298.15	13.03
3322	C4H8	cis-2-butene	590-18-1	53.772	435.58	1.2222	134.26	435.58	2	298.15	13.13
3323	C4H8	trans-2-butene	624-64-6	67.640	428.63	1.4050	167.62	428.63	1,2	298.15	12.72
3324	C4H8	isobutene	115-11-7	55.440	417.90	1.2453	132.81	417.90	1,2	298.15	11.69
3333	C4H8Br2	1,1-dibromobutane	62168-25-6	79.925	646.82	1.2222	238.94	646.82	2	298.15	37.56
3334	C4H8Br2	1,2-dibromobutane	533-98-2	78.599	659.28	1.2222	207.76	659.28	2	298.15	37.66
3335	C4H8Br2	1,3-dibromobutane	107-80-2	77.319	672.32	1.2222	238.94	672.32	2	298.15	37.78
3336	C4H8Br2	1,4-dibromobutane	110-52-1	80.577	699.44	1.2222	256.62	699.44	1,2	298.15	40.86
3337	C4H8Br2	2,2-dibromobutane	50341-35-0	80.873	636.75	1.2222	256.36	636.75	2	298.15	37.37
3338	C4H8Br2	DL-2,3-dibromobutane	598-71-0	78.816	656.19	1.2222	223.94	656.19	2	298.15	37.59
3339	C4H8Br2	meso-2,3-dibromobutane	5780-13-2	79.328	651.35	1.2222	238.65	651.35	2	298.15	37.55
3340	C4H8Br2	1,1-dibromo-2-methylpropane	33693-78-6	81.093	635.76	1.2222	223.94	635.76	2	298.15	37.41
3341	C4H8Br2	1,2-dibromo-2-methylpropane	594-34-3	79.992	644.38	1.2222	283.65	644.38	2	298.15	37.44
3342	C4H8Br2	1,3-dibromo-2-methylpropane	28148-04-1	77.319	672.32	1.2222	238.94	672.32	2	298.15	37.78
3343	C4H8Br2	2,3-dibromobutane	5408-86-6	78.674	657.46	1.2222	249.15	657.46	2	298.15	37.59
3360	C4H8Cl2	1,1-dichlorobutane	541-33-3	75.869	584.34	1.2222	179.18	584.34	2	298.15	31.71
3361	C4H8Cl2	1,2-dichlorobutane	616-21-7	75.005	599.74	1.2222	179.18	599.74	2	298.15	32.37
3362	C4H8Cl2	1,3-dichlorobutane	1190-22-3	74.287	614.09	1.2222	179.18	614.09	2	298.15	32.97
3363	C4H8Cl2	1,4-dichlorobutane	110-56-5	76.101	641.00	1.2222	235.85	641.00	1,2	298.15	35.42
3364	C4H8Cl2	2,2-dichlorobutane	4279-22-5	75.130	578.17	1.2222	199.15	578.17	2	298.15	30.97
3365	C4H8Cl2	DL-2,3-dichlorobutane	2211-67-8	74.566	598.18	1.2222	193.15	598.18	2	298.15	32.08
3366	C4H8Cl2	meso-2,3-dichlorobutane	4028-56-2	74.848	592.85	1.2222	192.75	592.85	2	298.15	31.85
3367	C4H8Cl2	1,1-dichloro-2-methylpropane	598-76-5	75.821	576.09	1.2222	164.18	576.09	2	298.15	31.11
3368	C4H8Cl2	1,2-dichloro-2-methylpropane	594-37-6	74.773	584.32	1.2222	196.60	584.32	2	298.15	31.25
3369	C4H8Cl2	1,3-dichloro-2-methylpropane	616-19-3	74.180	616.35	1.2222	179.18	616.35	2	298.15	33.06
3370	C4H8Cl2	2,3-dichlorobutane, dl and meso	7581-97-7	74.280	598.51	1.2222	193.25	598.51	2	298.15	31.98
3371	C4H8Cl2	mixo-dichlorobutane	26761-81-9	74.710	598.51	1.2222	190.15	598.51	2	298.15	32.17
3389	C4H8F2	1,1-difluorobutane	2358-38-5	59.407	463.30	1.2222	183.64	463.30	2	298.15	16.84
3390	C4H8F2	1,2-difluorobutane	686-65-7	55.719	487.30	1.2222	183.64	487.30	2	298.15	17.53
3391	C4H8F2	1,3-difluorobutane	691-42-9	54.913	502.38	1.2222	183.64	502.38	2	298.15	18.28
3392	C4H8F2	1,4-difluorobutane	372-90-7	54.617	524.74	1.2222	198.64	524.74	2	298.15	19.57
3393	C4H8F2	2,2-difluorobutane	353-81-1	55.759	466.65	1.2222	155.65	466.65	2	298.15	16.05
3394	C4H8F2	2,3-difluorobutane	666-21-7	55.056	487.02	1.2222	168.64	487.02	2	298.15	17.30
3395	C4H8F2	1,1-difluoro-2-methylpropane	62126-91-4	56.570	465.72	1.2222	168.64	465.72	2	298.15	16.22
3396	C4H8F2	1,2-difluoro-2-methylpropane	62126-92-5	55.274	472.94	1.2222	201.06	472.94	2	298.15	16.37
3397	C4H8F2	1,3-difluoro-2-methylpropane	62126-93-6	54.707	506.90	1.2222	183.64	506.90	2	298.15	18.50
3401	C4H8I2	1,1-diiodobutane	66587-65-3	88.035	726.41	1.2222	235.46	726.41	2	298.15	46.15
3402	C4H8I2	1,2-diiodobutane	53161-72-1	88.034	726.41	1.2222	279.06	726.41	2	298.15	46.15
3403	C4H8I2	1,3-diiodobutane	18371-24-9	88.035	726.41	1.2222	235.46	726.41	2	298.15	46.15
3404	C4H8I2	1,4-diiodobutane	628-21-7	90.414	720.71	1.2222	279.05	720.71	1,2	298.15	47.08
3405	C4H8I2	2,2-diiodobutane	29443-50-3	87.227	735.41	1.2222	252.88	735.41	2	298.15	46.20
3406	C4H8I2	2,3-diiodobutane	66587-66-4	87.449	732.32	1.2222	220.46	732.32	2	298.15	46.16
3407	C4H8I2	1,1-diiodo-2-methylpropane	10250-55-2	87.449	732.32	1.2222	220.46	732.32	2	298.15	46.16
3408	C4H8I2	1,2-diiodo-2-methylpropane	66794-23-8	87.227	735.41	1.2222	252.88	735.41	2	298.15	46.20
3409	C4H8I2	1,3-diiodo-2-methylpropane	17616-44-3	88.035	726.41	1.2222	235.46	726.41	2	298.15	46.15
3474	C4H8O	1,2-epoxybutane	106-88-7	64.438	526.00	1.2222	143.87	526.00	2	298.15	23.18
3476	C4H8O	ethyl vinyl ether	109-92-2	60.961	475.15	1.2222	157.35	475.15	2	298.15	18.23
3477	C4H8O	3-methoxy-1-propene	627-40-7	67.191	475.15	1.2222	157.35	475.15	2	298.15	20.10
3478	C4H8O	butyraldehyde	123-72-8	69.216	525.00	1.2222	176.75	525.00	1,2	298.15	24.82
3479	C4H8O	isobutyraldehyde	78-84-2	67.516	507.00	1.2222	208.15	507.00	2	298.15	22.84
3480	C4H8O	methyl ethyl ketone	78-93-3	59.441	535.50	1.1165	186.48	535.50	1,2	298.15	23.96
3481	C4H8O	tetrahydrofuran	109-99-9	71.103	540.15	1.2222	164.65	540.15	2	298.15	26.65
3482	C4H8O	cis-crotonyl alcohol	4088-60-2	44.457	559.00	0.8000	194.65	559.00	2	298.15	24.16
3483	C4H8O	trans-2-buten-1-ol	504-61-0	44.241	559.00	0.8000	188.95	559.00	2	298.15	24.04
3484	C4H8O	2-buten-1-ol	6117-91-5	44.277	559.00	0.8000	188.95	559.00	2	298.15	24.06

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n							(sigma - dynes/cm, T - K)	
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
3485	C4H8O	3-buten-1-ol	627-27-0	43.301	559.00	0.8000	188.95	559.00	2	298.15	23.53
3486	C4H8O	3-buten-2-ol, (±)	6118-14-5	41.230	559.00	0.8000	188.95	559.00	2	298.15	22.41
3487	C4H8O	2-methyl-2-propenol	513-42-8	43.425	559.00	0.8000	188.95	559.00	2	298.15	23.60
3493	C4H8O	3-buten-2-ol	598-32-3	41.191	559.00	0.8000	183.25	559.00	2	298.15	22.39
3504	C4H8O2	butyric acid	107-92-6	56.230	628.00	1.1930	267.95	628.00	1,2	298.15	26.08
3505	C4H8O2	isobutyric acid	79-31-2	54.790	609.15	1.1904	227.15	609.15	1,2	298.15	24.61
3506	C4H8O2	propyl formate	110-74-7	59.446	538.00	1.1256	180.25	538.00	1,2	298.15	23.94
3507	C4H8O2	isopropyl formate	625-55-8	63.378	518.50	1.2222	178.04	518.50	1,2	298.15	22.27
3508	C4H8O2	ethyl acetate	141-78-6	59.870	523.30	1.1220	189.60	523.30	1,2	298.15	23.24
3509	C4H8O2	methyl propanoate	554-12-1	65.570	530.60	1.2002	185.65	530.60	1,2	298.15	24.35
3510	C4H8O2	1,4-dioxane	123-91-1	82.160	587.00	1.2899	284.95	587.00	1,2	298.15	32.92
3511	C4H8O2	cis-2-butene-1,4-diol	6117-80-2	153.064	677.88	1.2222	284.15	677.88	2	298.15	75.38
3512	C4H8O2	trans-2-butene-1,4-diol	821-11-4	152.639	681.00	1.2222	300.45	681.00	2	300.45	74.95
3513	C4H8O2	3-butene-1,2-diol	497-06-3	109.616	679.44	1.2222	288.25	679.44	2	298.15	54.10
3526	C4H8O2	2-butene-1,4-diol	110-64-5	67.242	679.44	1.2222	280.15	679.44	2	298.15	33.19
3533	C4H8O2	R,S-3-butene-1,2-diol	86161-40-2	70.951	679.44	1.2222	288.25	679.44	2	298.15	35.02
3535.1	C4H8O2	4-hydroxybutraldehyde	25714-71-0	109.380	599.00	1.2421	290.00	599.00	2	298.15	46.50
3535.2	C4H8O2	3-hydroxy-2-methyl propionaldehyde	38433-80-6	69.209	615.00	1.2581	205.00	615.00	2	298.15	30.05
3536	C4H8O2S	sulfolane	126-33-0	95.070	849.00	1.2222	300.75	849.00	2	300.75	55.71
3581	C4H8S	tetrahydrothiophene	110-01-0	73.786	631.95	1.2222	176.99	631.95	2	298.15	33.82
3583	C4H8S	2-ethylthiacyclopropane	3195-86-6	68.482	594.72	1.2222	235.73	594.72	2	298.15	29.26
3584	C4H8S	2,2-dimethylthiacyclopropane	3772-13-2	67.838	574.84	1.2222	259.63	574.84	2	298.15	27.76
3585	C4H8S	2,cis-3-dimethylthiacyclopropane	5954-71-2	62.617	537.89	1.2222	231.49	537.89	2	298.15	23.32
3586	C4H8S	2,trans-3-dimethylthiacyclopropane	5955-98-6	62.617	537.89	1.2222	231.49	537.89	2	298.15	23.32
3598	C4H9Br	1-bromobutane	109-65-9	64.350	577.00	1.2510	160.75	577.00	1,2	298.15	25.91
3599	C4H9Br	2-bromobutane	78-76-2	61.620	567.00	1.2270	161.25	567.00	1,2	298.15	24.67
3600	C4H9Br	1-bromo-2-methylpropane	78-77-3	63.035	559.14	1.2222	155.75	559.14	1,2	298.15	24.84
3601	C4H9Br	2-bromo-2-methylpropane	507-19-7	66.629	541.05	1.2222	256.95	541.05	2	298.15	25.04
3602	C4H9Br	2-bromobutane, (±)	5787-31-5	64.291	561.05	1.2222	160.50	561.05	2	298.15	25.46
3610	C4H9Cl	1-chlorobutane	109-69-3	60.040	537.00	1.1732	150.05	537.00	1,2	298.15	23.21
3611	C4H9Cl	1-chloro-2-methylpropane	513-36-0	61.682	526.21	1.2222	142.85	526.21	1,2	298.15	22.20
3612	C4H9Cl	2-chlorobutane	78-86-4	56.460	520.60	1.1348	141.85	520.60	1,2	298.15	21.51
3613	C4H9Cl	2-chloro-2-methylpropane	507-20-0	53.800	507.00	1.1850	247.75	507.00	1,2	298.15	18.81
3614	C4H9Cl	2-chlorobutane	53178-20-4	62.237	522.70	1.2222	141.85	522.70	1,2	298.15	22.16
3657	C4H9F	1-fluorobutane	2366-52-1	55.852	460.70	1.2222	139.15	460.70	2	298.15	15.63
3658	C4H9F	2-fluorobutane	359-01-3	54.046	458.55	1.2222	151.75	458.55	2	298.15	14.97
3659	C4H9F	1-fluoro-2-methylpropane	359-00-2	55.027	444.56	1.2222	151.49	444.56	2	298.15	14.16
3660	C4H9F	2-fluoro-2-methylpropane	353-61-7	53.014	446.83	1.2222	196.15	446.83	2	298.15	13.81
3666	C4H9I	1-iodobutane	542-69-8	70.370	574.36	1.2222	170.15	574.36	1,2	298.15	28.76
3667	C4H9I	2-iodobutane	513-48-4	72.912	563.37	1.2222	169.15	563.37	2	298.15	29.03
3668	C4H9I	1-iodo-2-methylpropane	513-38-2	70.518	563.95	1.2222	182.45	563.95	1,2	298.15	28.12
3669	C4H9I	2-iodo-2-methylpropane	558-17-8	68.434	587.90	1.2222	234.96	587.90	2	298.15	28.82
3670	C4H9I	2-iodobutane, (±)	52152-71-3	69.338	572.40	1.2222	168.95	572.40	1,2	298.15	28.21
3675	C4H9N	pyrrolidine	123-75-1	81.085	568.55	1.2222	215.31	568.55	2	298.15	32.69
3681	C4H9NO	N,N-dimethylacetamide	127-19-5	82.160	658.00	1.5070	253.15	658.00	1,2	298.15	33.09
3682	C4H9NO	morpholine	110-91-8	86.698	618.00	1.2222	270.05	618.00	2	298.15	38.76
3697	C4H9NO2	1-nitrobutane	627-05-4	65.864	624.00	1.2222	191.83	624.00	1,2	298.15	29.77
3698	C4H9NO2	2-nitrobutane	600-24-8	66.419	615.00	1.2222	141.16	615.00	1,2	298.15	29.53
3699	C4H9NO2	1-nitro-2-methylpropane	625-74-1	64.540	609.00	1.2222	196.30	609.00	1,2	298.15	28.37
3700	C4H9NO2	2-nitro-2-methylpropane	594-70-7	64.451	592.00	1.2222	299.38	592.00	1,2	299.38	27.24
3715	C4H9NO2	2-nitrobutane, (±)	116781-85-2	66.234	610.00	1.2222	141.15	610.00	2	298.15	29.17
3783	C4H10	butane	106-97-8	52.660	425.18	1.2330	134.86	425.18	1,2	298.15	11.87
3784	C4H10	isobutane	75-28-5	52.165	408.14	1.2723	113.54	408.14	1,2	298.15	9.84
3830	C4H10N2	piperazine	110-85-0	94.562	638.00	1.2222	379.15	638.00	2	379.15	31.40
3865	C4H10O	butanol	71-36-3	45.732	562.93	0.8000	183.85	562.93	1,2	298.15	25.01
3866	C4H10O	isobutanol	78-83-1	42.344	547.73	0.8000	165.15	547.73	1,2	298.15	22.58
3867	C4H10O	sec-butanol	78-92-2	43.229	536.01	0.8000	158.45	536.01	2	298.15	22.57
3868	C4H10O	tert-butanol	75-65-0	43.417	506.20	0.8000	298.97	506.20	2	298.97	21.25
3869	C4H10O	diethyl ether	60-29-7	57.811	466.70	1.2222	156.85	466.70	1,2	298.15	16.65
3870	C4H10O	methyl propyl ether	557-17-5	52.921	476.20	1.2222	133.97	476.20	2	298.15	15.90
3871	C4H10O	methyl isopropyl ether	598-53-8	53.752	464.50	1.2222	127.93	464.50	2	298.15	15.32
3872	C4H10O	(R)-(-)-2-butanol	14898-79-4	43.045	538.22	0.8000	159.25	538.22	2	298.15	22.56
3873	C4H10O	(S)-(+)-2-butanol	4221-99-2	43.038	538.22	0.8000	159.25	538.22	2	298.15	22.56
3874	C4H10O	(<+->)-2-butanol	15892-23-6	42.957	538.22	0.8000	187.49	538.22	2	298.15	22.52
3881	C4H10O2	t-butyl hydroperoxide	75-91-2	93.439	576.00	1.2222	277.45	576.00	2	298.15	38.33
3882	C4H10O2	1,2-dimethoxyethane	110-71-4	55.912	536.15	1.2672	215.15	536.15	1,2	298.15	19.98
3883	C4H10O2	2-ethoxyethanol	110-80-5	71.354	569.00	1.2222	176.35	569.00	1,2	298.15	28.80
3884	C4H10O2	1,2-butanediol	584-03-2	101.817	622.14	1.2222	240.98	622.14	2	298.15	45.87
3885	C4H10O2	1,3-butanediol	107-88-0	100.756	643.00	1.2222	196.15	643.00	2	298.15	47.05
3886	C4H10O2	1,4-butanediol	110-63-4	98.296	667.00	1.2222	293.05	667.00	1,2	298.15	47.65
3887	C4H10O2	DL-2,3-butanediol	6982-25-8	101.986	611.56	1.2222	292.15	611.56	2	298.15	45.05
3888	C4H10O2	meso-2,3-butanediol	5341-95-7	102.130	609.07	1.2222	225.98	609.07	2	298.15	44.90
3889	C4H10O2	2-methyl-1,2-propanediol	558-43-0	101.554	611.21	1.2222	258.40	611.21	2	298.15	44.83
3890	C4H10O2	1-methyl-1,3-propanediol	18826-95-4	100.180	652.97	1.2222	240.98	652.97	2	298.15	47.54
3891	C4H10O2	1,2-butanediol, (±)	26171-83-5	100.149	630.99	1.2222	262.76	630.99	2	298.15	45.83
3893.1	C4H10O2	n-butylhydroperoxide	4813-50-7	64.510	565.00	1.2120	213.00	565.00	2	298.15	25.99
3894	C4H10O2	2-methoxy-1-propanol	1589-47-5	72.748	569.00	1.2222	176.35	569.00	2	298.15	29.36
3895	C4H10O2	propylene glycol monomethyl ether	107-98-2	74.049	569.00	1.2222	176.35	569.00	2	298.15	29.89
3896	C4H10O2	(2S,3S)-(+)-2,3-butanediol	19132-06-0	98.227	630.99	1.2222	293.15	630.99	2	298.15	44.95
3897	C4H10O2	(2R,3R)-(-)-2,3-butanediol	24347-58-8	94.087	630.99	1.2222	372.15	630.99	2	372.15	31.66

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n							(sigma - dynes/cm, T - K)	
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
3898	C4H10O2	(S)-(+)-1,3-butanediol	24621-61-2	94.087	630.99	1.2222	262.76	630.99	2	298.15	43.05
3899	C4H10O2	2,3-butanediol	513-85-9	98.680	630.99	1.2222	295.15	630.99	2	298.15	45.16
3900	C4H10O2	(R)-(-)-1,3-butanediol	6290-03-5	94.087	630.99	1.2222	262.76	630.99	2	298.15	43.05
3901	C4H10O2	(S)-(+)-2-methoxypropanol	116422-39-0	69.588	569.00	1.2222	176.35	569.00	2	298.15	28.09
3902	C4H10O2	methoxypropanol	1320-67-8	73.930	569.00	1.2222	176.55	569.00	2	298.15	29.84
3903	C4H10O2	(S)-(+)-1-methoxy-2-propanol	26550-55-0	69.588	569.00	1.2222	176.35	569.00	2	298.15	28.09
3904	C4H10O2	(R)-(-)-1-methoxy-2-propanol	4984-22-9	69.588	569.00	1.2222	176.15	569.00	2	298.15	28.09
3905	C4H10O2	2-methyl-1,3-propanediol	2163-42-0	103.884	630.99	1.2222	182.25	630.99	2	298.15	47.54
3906	C4H10O2	3-methoxy-1-propanol	1589-49-7	69.588	569.00	1.2222	176.35	569.00	2	298.15	28.09
3918	C4H10O3	diethylene glycol	111-46-6	102.952	744.60	1.2222	262.70	744.60	2	298.15	55.10
3928	C4H10O3S	diethyl sulfite	623-81-4	65.600	612.23	1.2222	273.15	459.17	1,2	298.15	29.01
3937	C4H10O4S	diethyl sulfate	64-67-5	66.270	792.00	1.4686	248.00	792.00	1,2	298.15	33.12
3938	C4H10O4S	methyl propyl sulfate	5867-91-4	62.665	792.00	1.2222	241.15	792.00	2	298.15	35.18
3942	C4H10S	butyl mercaptan	109-79-5	64.040	569.00	1.2554	157.46	569.00	1,2	298.15	25.22
3943	C4H10S	isobutyl mercaptan	513-44-0	56.561	559.00	1.1523	128.31	559.00	1,2	298.15	23.50
3944	C4H10S	sec-butyl mercaptan	513-53-1	59.237	554.00	1.2222	133.02	554.00	2	298.15	23.04
3945	C4H10S	tert-butyl mercaptan	75-66-1	56.341	530.00	1.2222	274.26	530.00	1,2	298.15	20.51
3946	C4H10S	2-butanethiol	91840-99-2	59.392	553.00	1.2222	108.15	553.00	2	298.15	23.04
3947	C4H10S	diethyl sulfide	352-93-2	62.890	557.15	1.2223	169.20	557.15	1,2	298.15	24.66
3948	C4H10S	methyl propyl sulfide	3877-15-4	61.565	563.00	1.2222	160.19	563.00	2	298.15	24.49
3949	C4H10S	methyl isopropyl sulfide	1551-21-9	62.911	551.00	1.2222	171.65	551.00	2	298.15	24.28
3950	C4H10S2	diethyl disulfide	110-81-6	65.500	642.00	1.2225	171.63	642.00	1,2	298.15	30.53
3954	C4H10S2	methyl propyl disulfide	2179-60-4	65.145	642.00	1.2222	171.63	642.00	2	298.15	30.37
3977	C4H11N	butylamine	109-73-9	65.560	531.90	1.2222	224.05	531.90	1,2	298.15	24.00
3978	C4H11N	isobutylamine	78-81-9	52.150	513.73	1.0097	188.55	513.73	1,2	298.15	21.70
3979	C4H11N	sec-butylamine	13952-84-6	53.717	514.30	1.0775	168.65	514.30	1,2	298.15	21.11
3980	C4H11N	tert-butylamine	75-64-9	49.068	483.90	1.1155	206.19	483.90	1,2	298.15	16.86
3981	C4H11N	2-butanamine, (.+/-.)-	33966-50-6	60.495	503.50	1.2222	187.66	503.50	2	298.15	20.21
3982	C4H11N	methyl-propylamine	627-35-0	54.779	500.00	1.2222	223.35	500.00	2	298.15	18.08
3983	C4H11N	methylisopropylamine	4747-21-1	54.481	487.60	1.2222	223.35	487.60	2	298.15	17.16
3984	C4H11N	diethylamine	109-89-7	54.000	496.60	1.1010	223.35	496.60	1,2	298.15	19.67
3985	C4H11N	dimethylethylamine	598-56-1	46.337	500.00	1.2222	133.15	500.00	2	298.15	15.29
3986	C4H11N	(R)-(-)-sec-butylamine	13250-12-9	59.834	503.50	1.2222	169.25	503.50	2	298.15	19.99
3987	C4H11N	(S)-(+)-sec-butylamine	513-49-5	60.307	503.50	1.2222	169.25	503.50	2	298.15	20.15
3988	C4H11NO	dimethylethanolamine	108-01-0	127.058	571.82	1.2222	214.15	571.82	2	298.15	51.62
3989	C4H11NO	3-amino-1-butanol	2867-59-6	121.427	571.82	1.2222	281.87	571.82	2	298.15	49.34
3990	C4H11NO	3-amino-2-butanol	42551-55-3	119.674	571.82	1.2222	292.15	571.82	2	298.15	48.62
3991	C4H11NO	4-amino-1-butanol	13325-10-5	107.895	571.82	1.2222	281.87	571.82	2	298.15	43.84
3992	C4H11NO	2-amino-1-butanol, (±)-	13054-87-0	114.815	571.82	1.2222	272.15	571.82	2	298.15	46.65
3993	C4H11NO	2-amino-2-methyl-1-propanol	124-68-5	118.168	571.82	1.2222	298.65	571.82	2	298.65	47.90
3995	C4H11NO	2-(ethylamino)ethanol	110-73-6	117.085	571.82	1.2222	281.87	571.82	2	298.15	47.57
3998	C4H11NO	4-amino-2-butanol	39884-48-5	121.427	571.82	1.2222	281.87	571.82	2	298.15	49.34
3999	C4H11NO	1-amino-2-butanol	13552-21-1	117.247	571.82	1.2222	276.15	571.82	2	298.15	47.64
4000	C4H11NO	4-aminobutan-2-ol	39884-48-5	121.427	571.82	1.2222	281.87	571.82	2	298.15	49.34
4001	C4H11NO	(S)-(+)-2-amino-1-butanol	5856-62-2	116.145	571.82	1.2222	359.20	571.82	2	359.20	34.66
4002	C4H11NO	(R)-(-)-2-amino-1-butanol	5856-63-3	116.145	571.82	1.2222	271.25	571.82	2	298.15	47.19
4003	C4H11NO	2-aminobutan-1-ol	96-20-8	115.080	571.82	1.2222	271.25	571.82	2	298.15	46.76
4005	C4H11NO	1-amino-2-methyl-2-propanol	2854-16-2	122.208	571.82	1.2222	281.87	571.82	2	298.15	49.65
4006	C4H11NO2	diethanolamine	111-42-2	104.496	715.00	1.2222	301.15	715.00	2	301.15	53.56
4008	C4H11NO2	2-amino-2-methyl-1,3-propanediol	115-69-5	90.709	715.00	1.2222	383.15	715.00	2	383.15	35.50
4010	C4H11NO2	3-methylamino-1,2-propanediol	40137-22-2	86.851	715.00	1.2222	342.15	715.00	2	342.15	39.19
4070	C4H12N2	1,4-butanediamine	110-60-1	76.061	612.33	1.2222	300.65	612.33	2	300.65	33.32
4071	C4H12N2	2,3-butanediamine, (R*,R*)-(±)	20699-48-3	71.368	612.33	1.2222	251.15	612.33	2	298.15	31.57
4072	C4H12N2	N,N'-dimethyl-1,2-ethanediamine	110-70-3	70.946	612.33	1.2222	274.78	612.33	2	298.15	31.39
4073	C4H12N2	N-ethyl-1,2-ethanediamine	110-72-5	72.218	612.33	1.2222	274.78	612.33	2	298.15	31.95
4074	C4H12N2	2-methyl-1,2-propanediamine	811-93-8	71.376	612.33	1.2222	256.10	612.33	2	298.15	31.58
4077	C4H12N2	1,3-butanediamine	590-88-5	74.494	612.33	1.2222	274.78	612.33	2	298.15	32.95
4078	C4H12N2	N,N-dimethylethylenediamine	108-00-9	68.801	612.33	1.2222	291.20	612.33	2	298.15	30.44
4079	C4H12N2	3-(methylamino)propylamine	6291-84-5	73.710	612.33	1.2222	274.78	612.33	2	298.15	32.61
4110	C4H12Si	tetramethylsilane	75-76-3	46.502	450.40	1.2222	174.07	450.40	1,2	298.15	12.35
4118	C4H13N3	diethylene triamine	111-40-0	99.449	676.00	1.2222	234.15	676.00	2	298.15	48.85
4169	C5Cl6	hexachlorocyclopentadiene	77-47-4	63.968	746.00	1.2222	284.49	746.00	2	298.15	34.29
4175	C5F8	octafluorocyclopentene	559-40-0	43.538	465.23	1.2222	203.15	465.23	2	298.15	12.45
4178	C5F10	decafluorocyclopentane	376-77-2	48.993	417.13	1.2222	342.95	312.84	1,2	342.95	5.94
4181	C5F12	perfluoropentane	678-26-2	40.122	429.34	1.2222	263.15	322.00	1,2	298.15	9.42
4256	C5H4	1,3-pentadiyne	4911-55-1	77.523	465.97	1.2222	234.65	349.48	2	298.15	22.25
4327	C5H4O2	furfural	98-01-1	84.290	657.00	1.1124	236.65	657.00	1,2	298.15	43.01
4391	C5H5N	pyridine	110-86-1	81.500	619.95	1.2160	231.53	619.95	1,2	298.15	36.72
4447	C5H6	cyclopentadiene	542-92-7	67.238	507.00	1.2222	188.15	507.00	2	298.15	22.74
4448	C5H6	2-methyl-1-butene-3-yne	78-80-8	59.270	492.00	1.2222	160.15	492.00	2	298.15	18.99
4449	C5H6	1-pentene-3-yne	646-05-9	60.634	520.00	1.2222	160.15	520.00	2	298.15	21.41
4450	C5H6	1-pentene-4-yne	871-28-3	59.716	503.00	1.2222	160.15	503.00	2	298.15	19.92
4451	C5H6	cis-3-penten-1-yne	1574-40-9	59.862	505.00	1.2222	160.15	505.00	2	298.15	20.11
4452	C5H6	trans-3-penten-1-yne	2004-69-5	61.882	505.00	1.2222	160.15	505.00	2	298.15	20.79
4490	C5H6N2	glutaronitrile	544-13-8	80.125	782.00	1.2222	244.21	782.00	2	298.15	44.56
4534	C5H6O	2-methylfuran	534-22-5	69.751	527.00	1.2222	178.87	527.00	2	298.15	25.16
4535	C5H6O	3-methylfuran	930-27-8	71.452	528.60	1.2222	182.44	528.60	2	298.15	25.90
4548	C5H6O2	furfuryl alcohol	98-00-0	116.216	632.00	1.2222	258.52	632.00	2	298.15	53.27
4567	C5H6O3	glutaric anhydride	108-55-4	117.240	838.00	1.2222	328.00	838.00	2	328.00	63.90
4576	C5H6O4	citraconic acid	498-23-7	121.269	829.00	1.2222	356.15	829.00	2	356.15	61.06

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
4577	C5H6O4	itaconic acid	97-65-4	120.755	821.00	1.2222	438.75	821.00	2	438.75	47.44
4587	C5H6S	2-methylthiophene	554-14-3	70.002	610.00	1.2222	209.77	610.00	1,2	298.15	30.83
4588	C5H6S	3-methylthiophene	616-44-4	69.159	615.00	1.2222	204.18	615.00	2	298.15	30.75
4644	C5H7Cl3O2	propyl trichloroacetate	13313-91-2	62.998	653.41	1.2222	278.15	490.06	1,2	298.15	29.91
4658	C5H7N	N-methylpyrrole	96-54-8	70.700	610.00	1.2222	216.91	610.00	2	298.15	31.14
4659	C5H7N	2-methylpyrrole	636-41-9	96.464	610.00	1.2222	237.55	610.00	2	298.15	42.48
4660	C5H7N	3-methylpyrrole	616-43-3	92.450	610.00	1.2222	224.75	610.00	2	298.15	40.72
4677	C5H7NO2	ethyl cyanoacetate	105-56-6	70.900	679.00	1.1940	250.65	679.00	1,2	298.15	35.55
4736	C5H8	spiropentane	157-40-4	69.224	499.74	1.2222	166.11	499.74	2	298.15	22.82
4737	C5H8	cyclopentene	142-29-0	67.850	507.00	1.2222	138.13	507.00	1,2	298.15	22.95
4738	C5H8	isoprene	78-79-5	49.720	483.30	1.2222	127.20	483.30	2	298.15	15.39
4739	C5H8	3-methyl-1,2-butadiene	598-25-4	49.973	490.00	1.2222	159.53	490.00	2	298.15	15.89
4740	C5H8	1,2-pentadiene	591-95-7	49.018	500.00	1.2222	135.89	500.00	2	298.15	16.18
4741	C5H8	cis-1,3-pentadiene	1574-41-0	49.023	499.00	1.2222	132.35	499.00	2	298.15	16.12
4742	C5H8	trans-1,3-pentadiene	2004-70-8	48.395	500.00	1.2222	185.71	500.00	2	298.15	15.97
4743	C5H8	1,4-pentadiene	591-93-5	48.645	479.00	1.2222	124.86	479.00	2	298.15	14.79
4744	C5H8	2,3-pentadiene	591-96-8	50.306	497.00	1.2222	147.50	497.00	2	298.15	16.42
4745	C5H8	1-pentyne	627-19-0	56.670	481.20	1.1424	167.45	481.20	1,2	298.15	18.79
4746	C5H8	2-pentyne	627-21-4	57.964	521.99	1.2222	163.86	521.99	2	298.15	20.59
4747	C5H8	3-methyl-1-butyne	598-23-2	66.792	463.20	1.2222	183.45	463.20	2	298.15	18.92
4751	C5H8	1,3-pentadiene; (cis+trans)	504-60-9	49.711	492.61	1.2222	144.72	492.61	2	298.15	15.96
4770	C5H8Cl2	3-chloro-2-(chloromethyl)-1-butene	69295-21-2	60.746	660.00	1.2222	290.00	660.00	2	298.15	29.14
4771	C5H8Cl2	1,3-dichloro-2-methyl-2-butene	25148-87-2	60.243	660.00	1.2222	290.00	660.00	2	298.15	28.90
4772	C5H8Cl2	1,4-dichloro-2-methyl-2-butene	29843-58-1	60.446	660.00	1.2222	290.00	660.00	2	298.15	29.00
4773	C5H8Cl2	3,3-dichloro-2-methyl-1-butene	42101-38-2	60.446	660.00	1.2222	290.00	660.00	2	298.15	29.00
4774	C5H8Cl2	2,5-dichloro-2-pentene	20177-02-0	60.345	660.00	1.2222	290.00	660.00	2	298.15	28.95
4797	C5H8Cl4	2,2-bis(chloromethyl)-1,3-dichloropropane	3228-99-7	69.093	725.00	1.2222	370.15	725.00	2	370.15	28.85
4798	C5H8Cl4	1,1,1,5-tetrachloropentane	2467-10-9	69.093	725.00	1.2222	370.00	725.00	2	370.00	28.87
4845	C5H8N4O12	pentaerythritol tetranitrate	78-11-5	94.309	676.00	1.2222	413.65	676.00	2	413.65	29.66
4848	C5H8O	cyclopentanone	120-92-3	68.530	626.00	1.1330	221.85	626.00	1,2	298.15	32.93
4849	C5H8O	methyl isopropenyl ketone	814-78-8	63.782	566.00	1.2222	219.55	566.00	2	298.15	25.56
4861	C5H8O	trans-2-methyl-2-butenal	497-03-0	71.955	570.00	1.2222	230.00	570.00	2	298.15	29.11
4862	C5H8O	2-methyl-2-butenal	1115-11-3	71.955	570.00	1.2222	230.00	570.00	2	298.15	29.11
4863	C5H8O	3-methyl-2-butenal	107-86-8	74.396	570.00	1.2222	230.00	570.00	2	298.15	30.10
4864	C5H8O	4-pentenal	2100-17-6	69.189	570.00	1.2222	230.00	570.00	2	298.15	27.99
4871	C5H8O	trans-3-penten-2-one	3102-33-8	70.149	575.00	1.2222	230.00	575.00	2	298.15	28.71
4872	C5H8O	1-penten-3-one	1629-58-9	68.932	575.00	1.2222	230.00	575.00	2	298.15	28.21
4874	C5H8O	2-ethylacrolein	922-63-4	68.146	570.00	1.2222	230.00	570.00	2	298.15	27.57
4876	C5H8O	trans-2-pentenal	1576-87-0	72.398	570.00	1.2222	230.00	570.00	2	298.15	29.29
4877	C5H8O	3-penten-2-one	625-33-2	70.181	575.00	1.2222	230.00	575.00	2	298.15	28.72
4880	C5H8O	2-pentenal	764-39-6	72.959	570.00	1.2222	230.00	570.00	2	298.15	29.52
4882	C5H8O2	acetylacetone	123-54-6	67.380	602.00	1.1619	249.65	602.00	1,2	298.15	30.45
4883	C5H8O2	allyl acetate	591-87-7	65.105	559.00	1.2162	138.00	559.00	1,2	298.15	25.76
4884	C5H8O2	isopropenyl acetate	108-22-5	60.841	555.50	1.2222	180.25	555.50	2	298.15	23.76
4885	C5H8O2	vinyl propionate	105-38-4	61.802	546.00	1.2222	192.07	546.00	2	298.15	23.54
4886	C5H8O2	methyl cis-2-butenoate	4358-59-2	65.405	555.50	1.2222	194.73	555.50	2	298.15	25.54
4887	C5H8O2	methyl trans-2-butenoate	623-43-8	65.947	555.50	1.2222	231.15	555.50	2	298.15	25.75
4888	C5H8O2	ethyl acrylate	140-88-5	58.960	553.00	1.1250	201.95	553.00	1,2	298.15	24.66
4889	C5H8O2	methyl methacrylate	80-62-6	60.778	564.00	1.2222	224.95	564.00	2	298.15	24.24
4890	C5H8O2	2-methylenebutanoic acid	3586-58-1	56.116	676.00	1.2222	257.15	676.00	2	298.15	27.56
4891	C5H8O2	trans-2-methyl-2-butenoic acid	80-59-1	57.129	676.00	1.2222	338.15	676.00	2	338.15	24.47
4892	C5H8O2	cis-2-methyl-2-butenoic acid	565-63-9	56.388	676.00	1.2222	318.15	676.00	2	318.15	25.92
4893	C5H8O2	2-methyl-3-butenoic acid	53774-20-2	55.946	676.00	1.2222	289.45	676.00	2	298.15	27.48
4894	C5H8O2	3-methyl-2-butenoic acid	541-47-9	56.936	676.00	1.2222	343.15	676.00	2	343.15	23.95
4895	C5H8O2	3-methyl-3-butenoic acid	1617-31-8	55.946	676.00	1.2222	294.15	676.00	2	298.15	27.48
4896	C5H8O2	trans-2-pentenoic acid	13991-37-2	57.212	676.00	1.2222	283.15	676.00	2	298.15	28.10
4897	C5H8O2	cis-2-pentenoic acid	16666-42-5	56.388	676.00	1.2222	301.13	676.00	2	301.13	27.43
4898	C5H8O2	trans-3-pentenoic acid	1617-32-9	56.826	676.00	1.2222	274.65	676.00	2	298.15	27.91
4899	C5H8O2	cis-3-pentenoic acid	33698-87-2	56.826	676.00	1.2222	301.13	676.00	2	301.13	27.64
4900	C5H8O2	4-pentenoic acid	591-80-0	56.552	676.00	1.2222	250.65	676.00	2	298.15	27.78
4918	C5H8O2	methyl 3-butenoate	3724-55-8	70.121	555.50	1.2222	194.73	555.50	1,2	298.15	27.38
4927	C5H8O3	2-hydroxyethyl acrylate	818-61-1	105.083	662.00	1.2222	213.00	662.00	2	298.15	50.56
4928	C5H8O3	levulinic acid	123-76-2	83.510	723.00	1.2222	338.00	723.00	2	338.00	38.66
4929	C5H8O3	methyl acetoacetate	105-45-3	69.736	642.00	1.2222	241.25	642.00	1,2	298.15	32.51
4945	C5H8O4	glutaric acid	110-94-1	118.612	807.00	1.2222	370.65	807.00	2	370.65	55.94
4964	C5H9Br	cis-1-bromo-1-pentene	31849-75-9	62.168	584.97	1.2222	200.33	584.97	2	298.15	26.02
4965	C5H9Br	trans-1-bromo-1-pentene	31849-76-0	62.168	584.97	1.2222	200.33	584.97	2	298.15	26.02
4966	C5H9Br	2-bromo-1-pentene	31844-95-8	62.965	576.34	1.2222	189.69	576.34	2	298.15	25.85
4967	C5H9Br	3-bromo-1-pentene	53045-71-9	62.527	580.26	1.2222	188.65	580.26	2	298.15	25.90
4968	C5H9Br	4-bromo-1-pentene	31950-56-8	62.374	581.77	1.2222	188.65	581.77	2	298.15	25.92
4969	C5H9Br	5-bromo-1-pentene	1119-51-3	60.691	602.30	1.2222	203.65	602.30	2	298.15	26.33
4970	C5H9Br	1-bromo-cis-2-pentene	7348-78-9	61.057	597.03	1.2222	200.33	597.03	2	298.15	26.21
4971	C5H9Br	1-bromo-trans-2-pentene	7348-71-2	61.057	597.03	1.2222	200.33	597.03	2	298.15	26.21
4972	C5H9Br	2-bromo-cis-2-pentene	54653-29-1	62.043	584.62	1.2222	186.37	584.62	2	298.15	25.95
4973	C5H9Br	2-bromo-trans-2-pentene	54653-30-4	62.043	584.62	1.2222	186.37	584.62	2	298.15	25.95
4974	C5H9Br	3-bromo-cis-2-pentene	23068-94-2	62.343	581.59	1.2222	186.37	581.59	2	298.15	25.90
4975	C5H9Br	3-bromo-trans-2-pentene	54653-28-0	62.343	581.59	1.2222	186.37	581.59	2	298.15	25.90
4976	C5H9Br	4-bromo-cis-2-pentene	56535-63-8	61.278	592.38	1.2222	185.33	592.38	2	298.15	26.05
4977	C5H9Br	4-bromo-trans-2-pentene	23068-95-3	61.278	592.38	1.2222	185.33	592.38	2	298.15	26.05
4978	C5H9Br	5-bromo-cis-2-pentene	50273-84-2	60.797	600.04	1.2222	200.33	600.04	2	298.15	26.26

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
4979	C5H9Br	5-bromo-trans-2-pentene	7515-62-0	60.797	600.04	1.2222	200.33	600.04	2	298.15	26.26
4980	C5H9Br	cis-1-bromo-2-methyl-1-butene	36668-55-0	61.328	592.21	1.2222	186.37	592.21	2	298.15	26.07
4981	C5H9Br	trans-1-bromo-2-methyl-1-butene	54265-17-7	61.328	592.21	1.2222	186.37	592.21	2	298.15	26.07
4982	C5H9Br	3-bromo-2-methyl-1-butene	51872-48-1	63.049	573.71	1.2222	174.69	573.71	2	298.15	25.73
4983	C5H9Br	4-bromo-2-methyl-1-butene	20038-12-4	63.722	569.33	1.2222	189.69	569.33	2	298.15	25.74
4984	C5H9Br	cis-1-bromo-3-methyl-1-butene	16416-44-7	62.217	582.50	1.2222	185.33	582.50	2	298.15	25.90
4985	C5H9Br	trans-1-bromo-3-methyl-1-butene	16416-41-4	62.217	582.50	1.2222	185.33	582.50	2	298.15	25.90
4986	C5H9Br	2-bromo-3-methyl-1-butene	31844-96-9	63.370	570.77	1.2222	174.69	570.77	2	298.15	25.68
4987	C5H9Br	3-bromo-3-methyl-1-butene	865-58-7	62.609	575.70	1.2222	206.07	575.70	2	298.15	25.67
4988	C5H9Br	4-bromo-3-methyl-1-butene	31950-55-7	63.643	569.74	1.2222	188.65	569.74	2	298.15	25.73
4989	C5H9Br	1-bromo-2-methyl-cis-2-butene	57253-29-9	60.403	602.84	1.2222	186.37	602.84	2	298.15	26.23
4990	C5H9Br	1-bromo-2-methyl-trans-2-butene	57253-30-2	60.403	602.84	1.2222	186.37	602.84	2	298.15	26.23
4991	C5H9Br	1-bromo-3-methyl-2-butene	870-63-3	62.214	582.88	1.2222	186.37	582.88	2	298.15	25.92
4992	C5H9Br	2-bromo-3-methyl-2-butene	3017-70-7	60.645	598.09	1.2222	172.41	598.09	2	298.15	26.09
4993	C5H9Br	3-bromo-2-ethyl-1-propene	---	63.722	569.33	1.2222	189.69	569.33	2	298.15	25.74
4995	C5H9Br	1-bromo-1-pentene	60468-23-7	62.229	586.22	1.2222	189.57	586.22	2	298.15	26.11
4996	C5H9Br	1-bromo-2-pentene	20599-27-3	62.487	586.22	1.2222	189.57	586.22	2	298.15	26.22
4997	C5H9Br	2-bromo-2-pentene	80204-19-9	61.715	586.22	1.2222	189.57	586.22	2	298.15	25.90
4998	C5H9Br	3-bromo-2-pentene	21964-23-8	62.057	586.22	1.2222	189.57	586.22	2	298.15	26.04
4999	C5H9Br	4-bromo-2-pentene	1809-26-3	62.172	586.22	1.2222	189.57	586.22	2	298.15	26.09
5000	C5H9Br	5-bromo-2-pentene	51952-42-2	61.996	586.22	1.2222	189.57	586.22	2	298.15	26.02
5010	C5H9BrO2	propyl bromoacetate	35223-80-4	67.814	637.79	1.2222	278.15	478.34	1,2	298.15	31.39
5022	C5H9Br3	1,1,1-tribromopentane	16644-66-9	87.314	736.13	1.2222	327.43	736.13	2	327.43	42.53
5023	C5H9Cl	cis-1-chloro-1-pentene	66213-69-2	63.753	546.85	1.2222	170.45	546.85	2	298.15	24.34
5024	C5H9Cl	trans-1-chloro-1-pentene	66213-70-5	63.753	546.85	1.2222	170.45	546.85	2	298.15	24.34
5025	C5H9Cl	2-chloro-1-pentene	42131-85-1	63.492	547.93	1.2222	159.81	547.93	2	298.15	24.31
5026	C5H9Cl	3-chloro-1-pentene	24356-00-1	62.863	556.39	1.2222	158.77	556.39	2	298.15	24.60
5027	C5H9Cl	4-chloro-1-pentene	10524-08-0	62.501	562.47	1.2222	158.77	562.47	2	298.15	24.83
5028	C5H9Cl	5-chloro-1-pentene	928-50-7	62.727	566.62	1.2222	173.77	566.62	2	298.15	25.18
5029	C5H9Cl	1-chloro-cis-2-pentene	6261-19-4	61.925	577.85	1.2222	170.45	577.85	2	298.15	25.51
5030	C5H9Cl	1-chloro-trans-2-pentene	6261-25-2	61.848	579.36	1.2222	170.45	579.36	2	298.15	25.57
5031	C5H9Cl	2-chloro-cis-2-pentene	42131-98-6	62.751	556.15	1.2222	156.49	556.15	2	298.15	24.54
5032	C5H9Cl	2-chloro-trans-2-pentene	42132-00-3	62.751	556.15	1.2222	156.49	556.15	2	298.15	24.54
5033	C5H9Cl	3-chloro-cis-2-pentene	26423-60-9	62.940	553.10	1.2222	156.49	553.10	2	298.15	24.43
5034	C5H9Cl	3-chloro-trans-2-pentene	26423-61-0	62.940	553.10	1.2222	156.49	553.10	2	298.15	24.43
5035	C5H9Cl	4-chloro-cis-2-pentene	26423-63-2	62.168	564.66	1.2222	155.45	564.66	2	298.15	24.83
5036	C5H9Cl	4-chloro-trans-2-pentene	18610-33-8	62.168	564.66	1.2222	155.45	564.66	2	298.15	24.83
5037	C5H9Cl	5-chloro-cis-2-pentene	53543-44-5	62.003	576.34	1.2222	170.45	576.34	2	298.15	25.45
5038	C5H9Cl	5-chloro-trans-2-pentene	10524-07-9	62.003	576.34	1.2222	170.45	576.34	2	298.15	25.45
5039	C5H9Cl	cis-1-chloro-2-methyl-1-butene	7611-88-3	62.940	553.10	1.2222	156.49	553.10	2	298.15	24.43
5040	C5H9Cl	trans-1-chloro-2-methyl-1-butene	7611-89-4	62.940	553.10	1.2222	156.49	553.10	2	298.15	24.43
5041	C5H9Cl	3-chloro-2-methyl-1-butene	5166-35-8	62.150	561.72	1.2222	144.81	561.72	2	298.15	24.65
5042	C5H9Cl	4-chloro-2-methyl-1-butene	10523-96-3	62.208	569.17	1.2222	159.81	569.17	2	298.15	25.12
5043	C5H9Cl	cis-1-chloro-3-methyl-1-butene	66213-67-0	62.520	558.56	1.2222	155.45	558.56	2	298.15	24.60
5044	C5H9Cl	trans-1-chloro-3-methyl-1-butene	66213-68-1	62.520	558.56	1.2222	155.45	558.56	2	298.15	24.60
5045	C5H9Cl	2-chloro-3-methyl-1-butene	17773-64-7	62.491	555.90	1.2222	144.81	555.90	2	298.15	24.43
5046	C5H9Cl	3-chloro-3-methyl-1-butene	2190-48-9	62.491	546.40	1.2222	176.19	546.40	2	298.15	23.83
5047	C5H9Cl	4-chloro-3-methyl-1-butene	10524-01-3	62.957	554.87	1.2222	158.77	554.87	2	298.15	24.54
5048	C5H9Cl	1-chloro-2-methyl-cis-2-butene	23009-74-7	61.422	580.52	1.2222	156.49	580.52	2	298.15	25.45
5049	C5H9Cl	1-chloro-2-methyl-trans-2-butene	23009-73-6	61.649	575.95	1.2222	156.49	575.95	2	298.15	25.29
5050	C5H9Cl	1-chloro-3-methyl-2-butene	503-60-6	61.275	583.57	1.2222	156.49	583.57	2	298.15	25.57
5051	C5H9Cl	2-chloro-3-methyl-2-butene	17773-65-8	61.930	563.35	1.2222	142.53	563.35	2	298.15	24.66
5052	C5H9Cl	3-chloro-2-ethyl-1-propene	---	63.292	550.96	1.2222	159.81	550.96	2	298.15	24.43
5053	C5H9Cl	1-chloro-2-methyl-1-butene	23378-11-2	62.549	561.69	1.2222	159.69	561.69	2	298.15	24.80
5054	C5H9Cl	1-chloro-2-methyl-2-butene	13417-43-1	64.467	561.69	1.2222	159.69	561.69	2	298.15	25.57
5055	C5H9Cl	1-chloro-3-methyl-1-butene	23010-00-6	61.145	561.69	1.2222	159.69	561.69	2	298.15	24.25
5056	C5H9Cl	1-chloro-2-pentene	10071-60-0	64.189	561.69	1.2222	159.69	561.69	2	298.15	25.45
5057	C5H9Cl	2-chloro-2-pentene	67747-70-0	62.476	561.69	1.2222	159.69	561.69	2	298.15	24.78
5058	C5H9Cl	3-chloro-2-pentene	34238-52-3	61.741	561.69	1.2222	159.69	561.69	2	298.15	24.48
5059	C5H9Cl	4-chloro-2-pentene	1458-99-7	63.484	561.69	1.2222	159.69	561.69	2	298.15	25.18
5060	C5H9Cl	5-chloro-2-pentene	16435-50-0	64.189	561.69	1.2222	159.69	561.69	2	298.15	25.45
5093	C5H9ClO2	propyl chloroacetate	5396-24-7	67.647	616.49	1.2222	278.15	462.37	1,2	298.15	30.16
5100	C5H9Cl3	1,1,1-trichloropentane	3922-27-8	71.181	635.09	1.2222	237.79	635.09	2	298.15	32.80
5101	C5H9Cl3	1,2,3-trichloro-2-methylbutane	62521-69-1	74.089	635.09	1.2222	264.47	635.09	2	298.15	34.14
5102	C5H9Cl3	2,2,3-trichloro-3-methylbutane	98070-91-8	73.938	635.09	1.2222	264.47	635.09	2	298.15	34.07
5103	C5H9Cl3	1,3-dichloro-2-(chloromethyl)-2-methylpropane	1067-09-0	73.111	635.09	1.2222	291.15	635.09	2	298.15	33.69
5109	C5H9F	cis-1-fluoro-1-pentene	66213-83-0	56.908	479.34	1.2222	172.68	479.34	2	298.15	17.33
5110	C5H9F	trans-1-fluoro-1-pentene	66213-84-1	56.908	479.34	1.2222	172.68	479.34	2	298.15	17.33
5111	C5H9F	2-fluoro-1-pentene	66213-89-6	56.913	469.43	1.2222	162.04	469.43	2	298.15	16.60
5112	C5H9F	3-fluoro-1-pentene	66702-88-3	56.739	469.68	1.2222	161.00	469.68	2	298.15	16.57
5113	C5H9F	4-fluoro-1-pentene	66702-91-8	56.739	469.68	1.2222	161.00	469.68	2	298.15	16.57
5114	C5H9F	5-fluoro-1-pentene	407-79-4	56.043	504.50	1.2222	176.00	504.50	2	298.15	18.79
5115	C5H9F	1-fluoro-cis-2-pentene	66213-85-2	56.908	479.34	1.2222	172.68	479.34	2	298.15	17.33
5116	C5H9F	1-fluoro-trans-2-pentene	66213-86-3	56.908	479.34	1.2222	172.68	479.34	2	298.15	17.33
5117	C5H9F	2-fluoro-cis-2-pentene	66213-87-4	56.101	482.63	1.2222	158.72	482.63	2	298.15	17.32
5118	C5H9F	2-fluoro-trans-2-pentene	66213-88-5	56.101	482.63	1.2222	158.72	482.63	2	298.15	17.32
5119	C5H9F	3-fluoro-cis-2-pentene	66213-90-9	56.101	482.63	1.2222	158.72	482.63	2	298.15	17.32
5120	C5H9F	3-fluoro-trans-2-pentene	66702-87-2	56.101	482.63	1.2222	158.72	482.63	2	298.15	17.32
5121	C5H9F	4-fluoro-cis-2-pentene	66702-89-4	55.942	482.91	1.2222	157.68	482.91	2	298.15	17.29
5122	C5H9F	4-fluoro-trans-2-pentene	66702-90-7	55.942	482.91	1.2222	157.68	482.91	2	298.15	17.29

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
5123	C5H9F	5-fluoro-cis-2-pentene	66702-92-9	56.908	479.34	1.2222	172.68	479.34	2	298.15	17.33
5124	C5H9F	5-fluoro-trans-2-pentene	66702-93-0	56.908	479.34	1.2222	172.68	479.34	2	298.15	17.33
5125	C5H9F	cis-1-fluoro-2-methyl-1-butene	66213-72-7	56.101	482.63	1.2222	158.72	482.63	2	298.15	17.32
5126	C5H9F	trans-1-fluoro-2-methyl-1-butene	66213-74-9	56.101	482.63	1.2222	158.72	482.63	2	298.15	17.32
5127	C5H9F	3-fluoro-2-methyl-1-butene	53731-24-1	55.875	472.95	1.2222	147.04	472.95	2	298.15	16.55
5128	C5H9F	4-fluoro-2-methyl-1-butene	66213-81-8	56.913	469.43	1.2222	162.04	469.43	2	298.15	16.60
5129	C5H9F	cis-1-fluoro-3-methyl-1-butene	66213-73-8	55.942	482.91	1.2222	157.68	482.91	2	298.15	17.29
5130	C5H9F	trans-1-fluoro-3-methyl-1-butene	66213-75-0	55.942	482.91	1.2222	157.68	482.91	2	298.15	17.29
5131	C5H9F	2-fluoro-3-methyl-1-butene	66213-78-3	55.875	472.95	1.2222	147.04	472.95	2	298.15	16.55
5132	C5H9F	3-fluoro-3-methyl-1-butene	66213-80-7	54.724	473.89	1.2222	178.42	473.89	2	298.15	16.28
5133	C5H9F	4-fluoro-3-methyl-1-butene	66213-82-9	56.739	469.68	1.2222	161.00	469.68	2	298.15	16.57
5134	C5H9F	1-fluoro-2-methyl-cis-2-butene	66213-76-1	56.101	482.63	1.2222	158.72	482.63	2	298.15	17.32
5135	C5H9F	1-fluoro-2-methyl-trans-2-butene	66213-77-2	56.101	482.63	1.2222	158.72	482.63	2	298.15	17.32
5136	C5H9F	1-fluoro-3-methyl-2-butene	23425-81-2	56.101	482.63	1.2222	158.72	482.63	2	298.15	17.32
5137	C5H9F	2-fluoro-3-methyl-2-butene	66213-79-4	55.302	486.02	1.2222	144.76	486.02	2	298.15	17.31
5138	C5H9F	3-fluoro-2-ethyl-1-propene	---	56.913	469.43	1.2222	162.04	469.43	2	298.15	16.60
5144	C5H9F3	1,1,1-trifluoropentane	406-82-6	54.083	464.50	1.2222	244.48	464.50	2	298.15	15.42
5147	C5H9I	cis-1-iodo-1-pentene	66703-02-4	63.032	641.17	1.2222	198.59	641.17	2	298.15	29.35
5148	C5H9I	trans-1-iodo-1-pentene	66703-03-5	63.032	641.17	1.2222	198.59	641.17	2	298.15	29.35
5149	C5H9I	2-iodo-1-pentene	66688-59-3	65.560	614.94	1.2222	187.95	614.94	2	298.15	29.14
5150	C5H9I	3-iodo-1-pentene	66688-61-7	65.492	615.43	1.2222	186.91	615.43	2	298.15	29.14
5151	C5H9I	4-iodo-1-pentene	59967-14-5	65.492	615.43	1.2222	186.91	615.43	2	298.15	29.14
5152	C5H9I	5-iodo-1-pentene	7766-48-5	63.155	640.23	1.2222	201.91	640.23	2	298.15	29.36
5153	C5H9I	1-iodo-cis-2-pentene	66703-04-6	64.616	624.39	1.2222	198.59	624.39	2	298.15	29.23
5154	C5H9I	1-iodo-trans-2-pentene	66688-56-0	64.616	624.39	1.2222	198.59	624.39	2	298.15	29.23
5155	C5H9I	2-iodo-cis-2-pentene	66688-57-1	64.111	628.80	1.2222	184.63	628.80	2	298.15	29.23
5156	C5H9I	2-iodo-trans-2-pentene	66688-58-2	64.111	628.80	1.2222	184.63	628.80	2	298.15	29.23
5157	C5H9I	3-iodo-cis-2-pentene	35895-39-7	64.111	628.80	1.2222	184.63	628.80	2	298.15	29.23
5158	C5H9I	3-iodo-trans-2-pentene	66688-60-6	64.111	628.80	1.2222	184.63	628.80	2	298.15	29.23
5159	C5H9I	4-iodo-cis-2-pentene	66688-62-8	64.044	629.33	1.2222	183.59	629.33	2	298.15	29.22
5160	C5H9I	4-iodo-trans-2-pentene	66688-63-9	64.044	629.33	1.2222	183.59	629.33	2	298.15	29.22
5161	C5H9I	5-iodo-cis-2-pentene	66688-64-0	64.616	624.39	1.2222	198.59	624.39	2	298.15	29.23
5162	C5H9I	5-iodo-trans-2-pentene	56399-98-5	64.616	624.39	1.2222	198.59	624.39	2	298.15	29.23
5163	C5H9I	cis-1-iodo-2-methyl-1-butene	52812-57-4	64.111	628.80	1.2222	184.63	628.80	2	298.15	29.23
5164	C5H9I	trans-1-iodo-2-methyl-1-butene	66702-95-2	64.111	628.80	1.2222	184.63	628.80	2	298.15	29.23
5165	C5H9I	3-iodo-2-methyl-1-butene	66703-00-2	63.896	630.52	1.2222	172.95	630.52	2	298.15	29.21
5166	C5H9I	4-iodo-2-methyl-1-butene	53750-52-0	64.538	624.84	1.2222	187.95	624.84	2	298.15	29.21
5167	C5H9I	cis-1-iodo-3-methyl-1-butene	64245-25-6	64.044	629.33	1.2222	183.59	629.33	2	298.15	29.22
5168	C5H9I	trans-1-iodo-3-methyl-1-butene	66702-96-3	64.044	629.33	1.2222	183.59	629.33	2	298.15	29.22
5169	C5H9I	2-iodo-3-methyl-1-butene	32442-47-0	64.957	619.84	1.2222	172.95	619.84	2	298.15	29.14
5170	C5H9I	3-iodo-3-methyl-1-butene	59128-91-5	64.587	622.45	1.2222	204.33	622.45	2	298.15	29.11
5171	C5H9I	4-iodo-3-methyl-1-butene	66703-01-3	65.492	615.43	1.2222	186.91	615.43	2	298.15	29.14
5172	C5H9I	1-iodo-2-methyl-cis-2-butene	66702-97-4	64.111	628.80	1.2222	184.63	628.80	2	298.15	29.23
5173	C5H9I	1-iodo-2-methyl-trans-2-butene	66702-98-5	64.111	628.80	1.2222	184.63	628.80	2	298.15	29.23
5174	C5H9I	1-iodo-3-methyl-2-butene	41004-19-7	64.111	628.80	1.2222	184.63	628.80	2	298.15	29.23
5175	C5H9I	2-iodo-3-methyl-2-butene	66702-99-6	63.604	633.35	1.2222	170.67	633.35	2	298.15	29.22
5176	C5H9I	3-iodo-2-ethyl-1-propene	---	65.560	614.94	1.2222	187.95	614.94	2	298.15	29.14
5182	C5H9I3	1,1,1-triiodopentane	---	72.907	882.04	1.2222	322.21	882.04	2	322.21	41.83
5183	C5H9N	valeronitrile	110-59-8	56.210	603.00	1.0767	176.95	603.00	1,2	298.15	26.97
5184	C5H9N	2-methylbutanenitrile	18936-17-9	64.145	585.80	1.2222	195.60	585.80	2	298.15	26.89
5185	C5H9N	3-methylbutanenitrile	625-28-5	60.872	593.30	1.2222	172.35	593.30	1,2	298.15	25.93
5186	C5H9N	2,2-dimethylpropanenitrile	630-18-2	66.381	565.78	1.2222	289.15	565.78	2	298.15	26.59
5187	C5H9N	butyl isocyanide	2769-64-4	65.653	579.93	1.2222	215.70	579.93	2	298.15	27.17
5188	C5H9N	isobutyl isocyanide	590-94-3	63.694	563.17	1.2222	200.70	563.17	2	298.15	25.35
5189	C5H9N	sec-butyl isocyanide	14069-89-7	63.796	565.89	1.2222	200.70	565.89	2	298.15	25.56
5190	C5H9N	tert-butyl isocyanide	7188-38-7	60.048	544.72	1.2222	218.12	544.72	2	298.15	22.79
5195	C5H9N	(S)-(+)-2-methylbutyronitrile	25570-03-0	63.987	586.97	1.2222	208.51	586.97	2	298.15	26.89
5198	C5H9NO	N-methyl-2-pyrrolidone	872-50-4	85.233	724.00	1.2222	249.15	724.00	2	298.15	44.56
5204	C5H9NO	2-isocyanato-2-methylpropane	1609-86-5	118.914	568.00	1.2222	358.65	568.00	2	358.65	35.11
5245	C5H9NO4	L-glutamic acid	56-86-0	139.686	886.00	1.2222	497.15	886.00	2	497.15	51.05
5269.1	C5H9NS	N-methylthiopyrrolidone	10441-57-3	180.775	869.00	1.4687	276.00	869.00	2	298.15	97.52
5280	C5H10	1,1-dimethylcyclopropane	1630-94-0	58.141	464.97	1.2222	164.25	464.97	2	298.15	16.61
5281	C5H10	1,cis-2-dimethylcyclopropane	930-18-7	56.857	485.69	1.2222	132.28	485.69	2	298.15	17.77
5282	C5H10	1,trans-2-dimethylcyclopropane	2402-06-4	56.313	471.88	1.2222	123.58	471.88	2	298.15	16.60
5283	C5H10	ethylcyclopropane	1191-96-4	58.826	480.93	1.2222	123.93	480.93	2	298.15	18.03
5284	C5H10	methylcyclobutane	598-61-8	58.197	477.75	1.2222	138.60	477.75	2	298.15	17.60
5285	C5H10	cyclopentane	287-92-3	72.050	511.76	1.3730	179.31	511.76	1,2	298.15	21.71
5286	C5H10	1-pentene	109-67-1	50.757	464.78	1.1588	107.93	464.78	1,2	298.15	15.46
5287	C5H10	2-pentene; (cis+trans)	109-68-2	53.212	467.08	1.2222	130.55	467.08	2	298.15	15.35
5288	C5H10	cis-2-pentene	627-20-3	56.695	475.93	1.2354	121.75	475.93	1,2	298.15	16.80
5289	C5H10	trans-2-pentene	646-04-8	47.275	475.37	1.0724	132.89	475.37	1,2	298.15	16.41
5290	C5H10	2-methyl-1-butene	563-46-2	53.110	465.00	1.2222	135.58	465.00	2	298.15	15.18
5291	C5H10	3-methyl-1-butene	563-45-1	49.370	450.37	1.1754	104.66	450.37	1,2	298.15	13.80
5292	C5H10	2-methyl-2-butene	513-35-9	54.770	471.00	1.1636	139.39	471.00	1,2	298.15	17.06
5297	C5H10Br2	1,1-dibromopentane	13320-56-4	78.227	665.55	1.2222	250.21	665.55	2	298.15	37.84
5298	C5H10Br2	1,2-dibromopentane	3234-49-9	77.661	671.42	1.2222	250.21	671.42	2	298.15	37.89
5299	C5H10Br2	1,3-dibromopentane	42474-20-4	76.849	680.24	1.2222	250.21	680.24	2	298.15	37.97
5300	C5H10Br2	1,4-dibromopentane	626-87-9	75.588	694.92	1.2222	238.73	694.92	2	298.15	38.10
5301	C5H10Br2	1,5-dibromopentane	111-24-0	77.771	722.02	1.2222	233.15	722.02	1,2	298.15	40.56
5302	C5H10Br2	2,2-dibromopentane	54653-26-8	78.439	661.45	1.2222	267.63	661.45	2	298.15	37.71

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
5303	C5H10Br2	2,3-dibromopentane	5398-25-4	77.824	668.68	1.2222	217.15	668.68	2	298.15	37.82
5304	C5H10Br2	2,4-dibromopentane	19398-53-9	77.333	673.87	1.2222	235.21	673.87	2	298.15	37.87
5305	C5H10Br2	3,3-dibromopentane	54653-27-9	78.897	656.98	1.2222	267.63	656.98	2	298.15	37.67
5306	C5H10Br2	1,1-dibromo-2-methylbutane	62127-58-6	78.766	659.19	1.2222	235.21	659.19	2	298.15	37.74
5307	C5H10Br2	1,1-dibromo-3-methylbutane	62127-59-7	78.766	659.19	1.2222	235.21	659.19	2	298.15	37.74
5308	C5H10Br2	1,2-dibromo-2-methylbutane	10428-64-5	77.994	665.93	1.2222	202.95	665.93	2	298.15	37.75
5309	C5H10Br2	1,2-dibromo-3-methylbutane	10288-13-8	78.766	659.19	1.2222	235.21	659.19	2	298.15	37.74
5310	C5H10Br2	1,3-dibromo-2-methylbutane	49623-50-9	78.766	659.19	1.2222	235.21	659.19	2	298.15	37.74
5311	C5H10Br2	1,3-dibromo-3-methylbutane	24443-15-0	78.478	661.07	1.2222	267.63	661.07	2	298.15	37.71
5312	C5H10Br2	1,4-dibromo-2-methylbutane	69498-28-8	79.343	654.58	1.2222	250.21	654.58	2	298.15	37.74
5313	C5H10Br2	2,2-dibromo-3-methylbutane	62127-60-0	77.884	666.02	1.2222	252.63	666.02	2	298.15	37.70
5314	C5H10Br2	2,3-dibromo-2-methylbutane	594-51-4	77.655	668.37	1.2222	288.00	668.37	2	298.15	37.72
5315	C5H10Br2	1,1-dibromo-2,2-dimethylpropane	2443-91-6	78.227	665.55	1.2222	287.15	665.55	2	298.15	37.84
5316	C5H10Br2	1,3-dibromo-2,2-dimethylpropane	5434-27-5	75.986	686.65	1.2222	252.63	686.65	2	298.15	37.88
5317	C5H10Br2	1,3-dibromo-2-ethylpropane	---	78.478	661.07	1.2222	267.63	661.07	2	298.15	37.71
5330	C5H10Cl2	1,1-dichloropentane	820-55-3	75.702	610.24	1.2222	190.45	610.24	2	298.15	33.36
5331	C5H10Cl2	1,2-dichloropentane	1674-33-5	75.160	620.88	1.2222	190.45	620.88	2	298.15	33.78
5332	C5H10Cl2	1,3-dichloropentane	30122-12-4	74.599	632.70	1.2222	190.45	632.70	2	298.15	34.24
5333	C5H10Cl2	1,4-dichloropentane	626-92-6	74.138	643.04	1.2222	190.45	643.04	2	298.15	34.62
5334	C5H10Cl2	1,5-dichloropentane	628-76-2	74.186	663.00	1.2222	200.35	663.00	1,2	298.15	35.75
5335	C5H10Cl2	2,2-dichloropentane	34887-14-4	75.236	601.15	1.2222	207.87	601.15	2	298.15	32.57
5336	C5H10Cl2	2,3-dichloropentane	600-11-3	75.046	614.06	1.2222	195.85	614.06	2	298.15	33.31
5337	C5H10Cl2	2,4-dichloropentane	625-67-2	74.337	628.96	1.2222	175.45	628.96	2	298.15	33.90
5338	C5H10Cl2	3,3-dichloropentane	21571-91-5	74.847	608.66	1.2222	207.87	608.66	2	298.15	32.88
5339	C5H10Cl2	1,1-dichloro-2-methylbutane	23010-05-1	76.009	595.96	1.2222	175.45	595.96	2	298.15	32.56
5340	C5H10Cl2	1,1-dichloro-3-methylbutane	625-66-1	75.780	600.06	1.2222	175.45	600.06	2	298.15	32.73
5341	C5H10Cl2	1,2-dichloro-2-methylbutane	23010-04-0	74.099	615.95	1.2222	207.87	615.95	2	298.15	33.00
5342	C5H10Cl2	1,2-dichloro-3-methylbutane	600-10-2	74.755	620.02	1.2222	175.45	620.02	2	298.15	33.55
5343	C5H10Cl2	1,3-dichloro-2-methylbutane	23010-07-3	74.624	622.78	1.2222	175.45	622.78	2	298.15	33.66
5344	C5H10Cl2	1,3-dichloro-3-methylbutane	624-96-4	74.175	627.97	1.2222	207.87	627.97	2	298.15	33.76
5345	C5H10Cl2	1,4-dichloro-2-methylbutane	623-34-7	78.260	617.70	1.2222	190.45	617.70	2	298.15	34.97
5346	C5H10Cl2	2,2-dichloro-3-methylbutane	17773-66-9	73.240	633.42	1.2222	192.87	633.42	2	298.15	33.66
5347	C5H10Cl2	2,3-dichloro-2-methylbutane	507-45-9	71.144	633.42	1.2222	192.87	633.42	2	298.15	32.69
5348	C5H10Cl2	1,3-dichloro-2-ethylpropane	---	75.318	617.70	1.2222	190.45	617.70	2	298.15	33.66
5349	C5H10Cl2	1,1-dichloro-2,2-dimethylpropane	29559-54-4	73.240	633.42	1.2222	192.87	633.42	2	298.15	33.66
5350	C5H10Cl2	1,3-dichloro-2,2-dimethylpropane	29559-55-5	73.861	629.69	1.2222	207.87	629.69	2	298.15	33.72
5351	C5H10Cl2	dichloropentane	30586-10-8	72.674	622.42	1.2222	192.10	622.42	2	298.15	32.75
5358	C5H10F2	1,1-difluoropentane	62127-40-6	57.720	498.40	1.2222	194.91	498.40	2	298.15	18.94
5359	C5H10F2	1,2-difluoropentane	62126-94-7	55.971	513.80	1.2222	194.91	513.80	2	298.15	19.37
5360	C5H10F2	1,3-difluoropentane	62126-95-8	55.662	521.18	1.2222	194.91	521.18	2	298.15	19.72
5361	C5H10F2	1,4-difluoropentane	62126-96-9	55.331	530.03	1.2222	194.91	530.03	2	298.15	20.14
5362	C5H10F2	1,5-difluoropentane	373-17-1	55.094	554.40	1.2222	209.91	554.40	2	298.15	21.45
5363	C5H10F2	2,2-difluoropentane	371-65-3	55.446	499.35	1.2222	175.05	499.35	2	298.15	18.25
5364	C5H10F2	2,3-difluoropentane	66688-46-8	56.538	491.00	1.2222	179.91	491.00	2	298.15	18.04
5365	C5H10F2	2,4-difluoropentane	66688-47-9	56.538	491.00	1.2222	179.91	491.00	2	298.15	18.04
5366	C5H10F2	3,3-difluoropentane	358-03-2	55.401	500.25	1.2222	179.15	500.25	2	298.15	18.30
5367	C5H10F2	1,1-difluoro-2-methylbutane	66688-67-3	58.643	463.41	1.2222	179.91	463.41	2	298.15	16.63
5368	C5H10F2	1,1-difluoro-3-methylbutane	53731-22-9	58.643	463.41	1.2222	179.91	463.41	2	298.15	16.63
5369	C5H10F2	1,2-difluoro-2-methylbutane	66688-68-4	57.914	463.73	1.2222	212.33	463.73	2	298.15	16.45
5370	C5H10F2	1,2-difluoro-3-methylbutane	66688-69-5	58.643	463.41	1.2222	179.91	463.41	2	298.15	16.63
5371	C5H10F2	1,3-difluoro-2-methylbutane	66688-43-5	58.643	463.41	1.2222	179.91	463.41	2	298.15	16.63
5372	C5H10F2	1,3-difluoro-3-methylbutane	66688-44-6	57.914	463.73	1.2222	212.33	463.73	2	298.15	16.45
5373	C5H10F2	1,4-difluoro-2-methylbutane	66688-45-7	59.651	460.30	1.2222	194.91	460.30	2	298.15	16.66
5374	C5H10F2	2,2-difluoro-3-methylbutane	51891-58-8	56.896	467.07	1.2222	197.33	467.07	2	298.15	16.41
5375	C5H10F2	2,3-difluoro-2-methylbutane	53731-25-2	56.896	467.07	1.2222	197.33	467.07	2	298.15	16.41
5376	C5H10F2	1,3-difluoro-2-ethylpropane	---	59.651	460.30	1.2222	194.91	460.30	2	298.15	16.66
5377	C5H10F2	1,1-difluoro-2,2-dimethylpropane	53731-23-0	56.896	467.07	1.2222	197.33	467.07	2	298.15	16.41
5378	C5H10F2	1,3-difluoro-2,2-dimethylpropane	66688-66-2	57.914	463.73	1.2222	212.33	463.73	2	298.15	16.45
5380	C5H10I2	1,1-diiodopentane	66688-35-5	85.434	744.50	1.2222	246.73	744.50	2	298.15	45.72
5381	C5H10I2	1,2-diiodopentane	998-76-5	85.434	744.50	1.2222	246.73	744.50	2	298.15	45.72
5382	C5H10I2	1,3-diiodopentane	66688-36-6	85.434	744.50	1.2222	246.73	744.50	2	298.15	45.72
5383	C5H10I2	1,4-diiodopentane	55930-45-5	85.434	744.50	1.2222	246.73	744.50	2	298.15	45.72
5384	C5H10I2	1,5-diiodopentane	628-77-3	85.618	739.07	1.2222	282.15	739.07	1,2	298.15	45.54
5385	C5H10I2	2,2-diiodopentane	66688-37-7	84.751	752.99	1.2222	264.15	752.99	2	298.15	45.77
5386	C5H10I2	2,3-diiodopentane	66688-38-8	84.929	750.13	1.2222	231.73	750.13	2	298.15	45.72
5387	C5H10I2	2,4-diiodopentane	66719-29-7	84.929	750.13	1.2222	231.73	750.13	2	298.15	45.72
5388	C5H10I2	3,3-diiodopentane	66688-39-9	84.751	752.99	1.2222	264.15	752.99	2	298.15	45.77
5389	C5H10I2	1,1-diiodo-2-methylbutane	66688-50-4	84.929	750.13	1.2222	231.73	750.13	2	298.15	45.72
5390	C5H10I2	1,1-diiodo-3-methylbutane	66688-51-5	84.929	750.13	1.2222	231.73	750.13	2	298.15	45.72
5391	C5H10I2	1,2-diiodo-2-methylbutane	66688-52-6	84.751	752.99	1.2222	264.15	752.99	2	298.15	45.77
5392	C5H10I2	1,2-diiodo-3-methylbutane	66688-53-7	84.929	750.13	1.2222	231.73	750.13	2	298.15	45.72
5393	C5H10I2	1,3-diiodo-2-methylbutane	66688-54-8	84.929	750.13	1.2222	231.73	750.13	2	298.15	45.72
5394	C5H10I2	1,3-diiodo-3-methylbutane	66688-55-9	84.751	752.99	1.2222	264.15	752.99	2	298.15	45.77
5395	C5H10I2	1,4-diiodo-2-methylbutane	66688-32-2	85.434	744.50	1.2222	246.73	744.50	2	298.15	45.72
5396	C5H10I2	2,2-diiodo-3-methylbutane	66688-33-3	84.229	759.04	1.2222	249.15	759.04	2	298.15	45.78
5397	C5H10I2	2,3-diiodo-2-methylbutane	66688-34-4	84.229	759.04	1.2222	249.15	759.04	2	298.15	45.78
5398	C5H10I2	1,3-diiodo-2-ethylpropane	---	85.434	744.50	1.2222	246.73	744.50	2	298.15	45.72
5399	C5H10I2	1,1-diiodo-2,2-dimethylpropane	2443-89-2	84.229	759.04	1.2222	249.15	759.04	2	298.15	45.78
5400	C5H10I2	1,3-diiodo-2,2-dimethylpropane	66688-49-1	84.751	752.99	1.2222	264.15	752.99	2	298.15	45.77
5445	C5H10O	pentanal	110-62-3	66.689	554.00	1.2222	182.00	554.00	1,2	298.15	25.94

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
5446	C5H10O	2-methylbutanal	96-17-3	64.838	543.73	1.2222	172.61	543.73	2	298.15	24.54
5447	C5H10O	3-methylbutanal	590-86-3	64.773	544.62	1.2222	168.15	544.62	2	298.15	24.58
5448	C5H10O	2,2-dimethylpropanal	630-19-3	65.271	525.74	1.2222	267.15	525.74	2	298.15	23.46
5449	C5H10O	2-methylbutanal, (±)	57456-98-1	62.878	542.02	1.2222	197.48	542.02	1,2	298.15	23.69
5450	C5H10O	methyl propyl ketone	107-87-9	58.742	561.08	1.2222	196.29	561.08	1,2	298.15	23.26
5451	C5H10O	diethyl ketone	96-22-0	54.700	560.95	1.0560	234.18	560.95	1,2	298.15	24.56
5452	C5H10O	methyl isopropyl ketone	563-80-4	62.119	553.00	1.2222	181.15	553.00	2	298.15	24.10
5453	C5H10O	2-methyltetrahydrofuran	96-47-9	61.334	537.00	1.2222	136.15	537.00	2	298.15	22.79
5454	C5H10O	3-methyltetrahydrofuran	13423-15-9	68.477	639.01	1.2222	159.55	639.01	2	298.15	31.77
5455	C5H10O	allyl ethyl ether	557-31-3	62.768	505.58	1.2222	133.15	505.58	2	298.15	21.13
5456	C5H10O	isopropyl vinyl ether	926-65-8	54.995	505.58	1.2222	133.15	505.58	2	298.15	18.51
5457	C5H10O	3-methoxy-2-methyl-1-propene	22418-49-1	62.356	505.58	1.2222	133.15	505.58	2	298.15	20.99
5458	C5H10O	propyl vinyl ether	764-47-6	61.003	505.58	1.2222	133.15	505.58	2	298.15	20.53
5459	C5H10O	cyclopentanol	96-41-3	79.281	573.00	1.2222	250.00	573.00	1,2	298.15	32.30
5461	C5H10O	2-methyl-3-buten-2-ol	115-18-4	40.293	573.00	0.8000	245.15	573.00	2	298.15	22.39
5462	C5H10O	3-methyl-2-buten-1-ol	556-82-1	61.917	573.00	1.2222	250.00	573.00	2	298.15	25.23
5463	C5H10O	3-methyl-3-buten-2-ol	10473-14-0	57.844	573.00	1.2222	250.00	573.00	2	298.15	23.57
5464	C5H10O	1-penten-3-ol	616-25-1	58.009	573.00	1.2222	250.00	573.00	2	298.15	23.63
5465	C5H10O	3-penten-2-ol, (±)	42569-16-4	59.080	573.00	1.2222	250.00	573.00	2	298.15	24.07
5466	C5H10O	4-penten-1-ol	821-09-0	62.065	573.00	1.2222	250.00	573.00	2	298.15	25.29
5467	C5H10O	4-penten-2-ol	625-31-0	58.173	573.00	1.2222	250.00	573.00	2	298.15	23.70
5468	C5H10O	cis-2-penten-1-ol	1576-95-0	61.619	573.00	1.2222	250.00	573.00	2	298.15	25.10
5469	C5H10O	trans-2-penten-1-ol	1576-96-1	61.619	573.00	1.2222	250.00	573.00	2	298.15	25.10
5476	C5H10O	ethyl propenyl ether	928-55-2	64.448	505.58	1.2222	133.15	505.58	2	298.15	21.69
5477	C5H10O	2-methyl-3-buten-1-ol	4516-90-9	58.904	573.00	1.2222	250.00	573.00	2	298.15	24.00
5478	C5H10O	3-methyl-3-buten-1-ol	763-32-6	60.542	573.00	1.2222	250.00	573.00	2	298.15	24.67
5481	C5H10O	3-penten-2-ol	3899-34-1	58.823	573.00	1.2222	250.00	573.00	2	298.15	23.97
5482	C5H10O	pent-3-en-2-ol	1569-50-2	58.960	573.00	1.2222	250.00	573.00	2	298.15	24.02
5492	C5H10O2	pentanoic acid	109-52-4	56.800	651.00	1.2257	239.15	651.00	1,2	298.15	26.81
5493	C5H10O2	2-methylbutyric acid	116-53-0	56.205	643.00	1.2222	218.15	643.00	2	298.15	26.25
5494	C5H10O2	3-methylbutanoic acid	503-74-2	52.660	634.00	1.1700	243.85	634.00	1,2	298.15	25.04
5495	C5H10O2	2,2-dimethylpropanoic acid	75-98-9	56.515	632.16	1.2222	308.82	632.16	2	308.82	24.90
5496	C5H10O2	2-methylbutanoic acid	600-07-7	56.481	640.04	1.2222	252.49	640.04	2	298.15	26.25
5497	C5H10O2	butyl formate	592-84-7	57.032	559.00	1.1073	181.25	559.00	1,2	298.15	24.52
5498	C5H10O2	isobutyl formate	542-55-2	57.780	551.35	1.1720	177.35	551.35	1,2	298.15	23.21
5499	C5H10O2	sec-butyl formate	589-40-2	60.073	547.00	1.2222	189.31	547.00	2	298.15	22.94
5500	C5H10O2	tert-butyl formate	762-75-4	60.863	533.00	1.2222	206.73	533.00	2	298.15	22.35
5501	C5H10O2	propyl acetate	109-60-4	62.160	549.40	1.2240	178.15	549.40	1,2	298.15	23.86
5502	C5H10O2	isopropyl acetate	108-21-4	59.857	538.00	1.2222	199.75	538.00	1,2	298.15	22.30
5503	C5H10O2	ethyl propanoate	105-37-3	62.910	546.00	1.2334	199.25	546.00	1,2	298.15	23.75
5504	C5H10O2	methyl butanoate	623-42-7	64.084	554.50	1.2418	187.35	554.50	1,2	298.15	24.58
5505	C5H10O2	methyl isobutanoate	547-63-7	60.929	554.50	1.2222	188.45	554.50	1,2	298.15	23.73
5530	C5H10O2	(S)-(+)-2-methylbutyric acid	1730-91-2	54.318	640.04	1.2222	252.49	640.04	2	298.15	25.24
5537	C5H10O2S	3-methyl sulfolane	872-93-5	85.958	817.00	1.2222	273.65	817.00	2	298.15	49.35
5543	C5H10O3	diethyl carbonate	105-58-8	62.560	576.00	1.2150	230.15	576.00	1,2	298.15	25.80
5544	C5H10O3	ethyl lactate	97-64-3	95.847	588.00	1.2222	247.15	588.00	2	298.15	40.37
5593	C5H10S	thiacyclohexane	1613-51-0	70.249	657.12	1.2222	292.14	657.12	2	298.15	33.55
5594	C5H10S	2,2,3-trimethylthiacyclopropane	53971-47-4	61.420	569.72	1.2222	266.66	569.72	2	298.15	24.83
5595	C5H10S	2-methylthiacyclopentane	1795-09-1	66.245	637.00	1.2222	172.44	637.00	2	298.15	30.63
5596	C5H10S	3-methylthiacyclopentane	4740-00-5	66.562	646.20	1.2222	191.99	646.20	2	298.15	31.25
5597	C5H10S	cyclopentanethiol	1679-07-8	68.186	629.00	1.2222	155.39	629.00	2	298.15	31.09
5603	C5H11Br	1-bromopentane	110-53-2	68.602	564.76	1.2222	185.26	564.76	1,2	298.15	27.41
5604	C5H11Br	2-bromopentane	107-81-3	62.252	585.36	1.2222	177.65	585.36	2	298.15	26.07
5605	C5H11Br	3-bromopentane	1809-10-5	62.080	587.16	1.2222	146.95	587.16	2	298.15	26.10
5606	C5H11Br	1-bromo-2-methylbutane	10422-35-2	61.812	590.01	1.2222	190.41	590.01	2	298.15	26.15
5607	C5H11Br	1-bromo-3-methylbutane	107-82-4	61.739	589.86	1.2222	161.15	589.86	1,2	298.15	26.11
5608	C5H11Br	2-bromo-2-methylbutane	507-36-8	62.277	581.23	1.2222	207.83	581.23	2	298.15	25.85
5609	C5H11Br	2-bromo-3-methylbutane	18295-25-5	61.882	587.23	1.2222	175.41	587.23	2	298.15	26.02
5610	C5H11Br	1-bromo-2,2-dimethylpropane	630-17-1	62.587	578.18	1.2222	207.83	578.18	2	298.15	25.80
5611	C5H11Br	1-bromo-2-methylbutane, (S)	534-00-9	62.820	582.97	1.2222	181.56	582.97	2	298.15	26.18
5620	C5H11Cl	1-chloropentane	543-59-9	61.937	568.00	1.2222	174.15	568.00	1,2	298.15	24.94
5621	C5H11Cl	2-chloropentane	625-29-6	60.219	555.88	1.2222	136.15	555.88	2	298.15	23.54
5622	C5H11Cl	3-chloropentane	616-20-6	60.106	557.79	1.2222	168.15	557.79	2	298.15	23.61
5623	C5H11Cl	1-chloro-2-methylbutane	616-13-7	59.867	561.92	1.2222	160.53	561.92	2	298.15	23.75
5624	C5H11Cl	1-chloro-3-methylbutane	107-84-6	59.319	558.87	1.2222	168.76	558.87	1,2	298.15	23.36
5625	C5H11Cl	2-chloro-2-methylbutane	594-36-5	59.725	548.97	1.2222	199.66	548.97	2	298.15	22.93
5626	C5H11Cl	2-chloro-3-methylbutane	631-65-2	59.817	555.08	1.2222	145.53	555.08	2	298.15	23.33
5627	C5H11Cl	1-chloro-2,2-dimethylpropane	753-89-9	59.849	546.97	1.2222	253.15	546.97	2	298.15	22.85
5628	C5H11Cl	1-chloro-2-methylbutane, (±)	114180-21-1	60.566	556.69	1.2222	171.36	556.69	2	298.15	23.72
5629	C5H11Cl	2-chloropentane, (+)	29882-57-3	60.163	556.69	1.2222	136.15	556.69	2	298.15	23.56
5649	C5H11F	1-fluoropentane	592-50-7	61.893	496.70	1.2222	153.15	496.70	1,2	298.15	20.18
5650	C5H11F	2-fluoropentane	590-87-4	54.921	493.55	1.2222	162.76	493.55	2	298.15	17.70
5651	C5H11F	3-fluoropentane	41909-29-9	54.996	490.09	1.2222	162.76	490.09	2	298.15	17.49
5652	C5H11F	1-fluoro-2-methylbutane	10086-64-3	54.903	494.45	1.2222	162.76	494.45	2	298.15	17.75
5653	C5H11F	1-fluoro-3-methylbutane	407-06-7	54.978	490.84	1.2222	162.76	490.84	2	298.15	17.53
5654	C5H11F	2-fluoro-2-methylbutane	661-53-0	53.477	486.17	1.2222	152.15	486.17	2	298.15	16.75
5655	C5H11F	2-fluoro-3-methylbutane	62108-95-6	54.272	486.77	1.2222	147.76	486.77	2	298.15	17.04
5656	C5H11F	1-fluoro-2,2-dimethylpropane	59006-05-2	53.680	478.83	1.2222	180.18	478.83	2	298.15	16.31
5660	C5H11I	1-iodopentane	628-17-1	67.840	601.41	1.2222	187.55	601.41	1,2	298.15	29.38
5661	C5H11I	2-iodopentane	637-97-8	69.858	585.69	1.2222	188.67	585.69	2	298.15	29.28

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n							(sigma - dynes/cm, T - K)	
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
5662	C5H11I	3-iodopentane	1809-05-8	69.488	588.50	1.2222	188.67	588.50	2	298.15	29.30
5663	C5H11I	1-iodo-2-methylbutane	29394-58-9	69.306	589.91	1.2222	188.67	589.91	2	298.15	29.31
5664	C5H11I	1-iodo-3-methylbutane	541-28-6	67.040	593.01	1.2222	188.67	593.01	1,2	298.15	28.54
5665	C5H11I	2-iodo-2-methylbutane	594-38-7	71.369	573.79	1.2222	206.09	573.79	2	298.15	29.13
5666	C5H11I	2-iodo-3-methylbutane	18295-27-7	69.819	585.43	1.2222	173.67	585.43	2	298.15	29.25
5667	C5H11I	1-iodo-2,2-dimethylpropane	15501-33-4	70.357	580.92	1.2222	206.09	580.92	2	298.15	29.18
5668	C5H11I	2-iodopentane, (±)	52152-72-4	69.534	587.33	1.2222	191.01	587.33	2	298.15	29.25
5669	C5H11N	N-methylpyrrolidine	120-94-5	62.803	550.00	1.2222	183.15	550.00	2	298.15	24.18
5670	C5H11N	piperidine	110-89-4	67.163	594.05	1.2091	262.65	594.05	1,2	298.15	28.92
5673	C5H11N	2-methylpyrrolidine	765-38-8	75.733	550.00	1.2222	176.78	550.00	2	298.15	29.15
5674	C5H11N	3-methylpyrrolidine	34375-89-8	70.555	550.00	1.2222	170.40	550.00	2	298.15	27.16
5675	C5H11NO	tert-butylformamide	2425-74-3	74.022	692.00	1.2222	289.15	692.00	2	298.15	37.17
5676	C5H11NO	N,N-diethylformamide	617-84-5	60.823	692.00	1.2222	289.15	692.00	2	298.15	30.54
5696	C5H11NO2	1-nitropentane	628-05-7	62.929	641.43	1.2222	289.22	641.43	1,2	298.15	29.31
5697	C5H11NO2	2-nitropentane	4609-89-6	66.462	611.00	1.2222	274.22	611.00	2	298.15	29.33
5698	C5H11NO2	3-nitropentane	551-88-2	66.462	611.00	1.2222	274.22	611.00	2	298.15	29.33
5699	C5H11NO2	1-nitro-2-methylbutane	3457-57-6	64.712	628.00	1.2222	274.22	628.00	2	298.15	29.46
5700	C5H11NO2	1-nitro-3-methylbutane	627-67-8	64.532	630.00	1.2222	370.15	630.00	2	370.15	21.86
5701	C5H11NO2	2-nitro-2-methylbutane	595-42-6	65.897	615.00	1.2222	235.15	615.00	2	298.15	29.30
5702	C5H11NO2	2-nitro-3-methylbutane	2625-35-6	66.056	614.00	1.2222	259.22	614.00	2	298.15	29.31
5703	C5H11NO2	1-nitro-2,2-dimethylpropane	34715-98-5	66.041	614.00	1.2222	287.15	614.00	2	298.15	29.31
5708	C5H11NO2	ethyl ethylcarbamate	623-78-9	78.776	637.79	1.2222	333.15	478.34	1,2	333.15	31.93
5772	C5H12	pentane	109-66-0	52.090	469.65	1.2054	143.42	469.65	1,2	298.15	15.47
5773	C5H12	isopentane	78-78-4	50.926	460.43	1.2078	113.25	460.43	1,2	298.15	14.45
5774	C5H12	neopentane	463-82-1	55.038	433.78	1.2222	256.58	433.78	2	298.15	13.29
5831	C5H12O	1-pentanol	71-41-0	44.912	586.15	0.8000	195.56	586.15	1,2	298.15	25.44
5832	C5H12O	2-pentanol	6032-29-7	43.895	552.00	0.8000	200.00	552.00	1,2	298.15	23.58
5833	C5H12O	3-pentanol	584-02-1	44.416	547.00	0.8000	204.15	547.00	2	298.15	23.65
5834	C5H12O	2-methyl-1-butanol	137-32-6	44.696	565.00	0.8000	191.43	565.00	2	298.15	24.53
5835	C5H12O	2-methyl-1-butanol, (±)	34713-94-5	44.746	562.34	0.8000	212.34	562.34	2	298.15	24.45
5836	C5H12O	3-methyl-2-butanol, (±)	70116-68-6	42.993	562.34	0.8000	212.34	562.34	2	298.15	23.49
5837	C5H12O	3-methyl-1-butanol	123-51-3	42.397	579.45	0.8000	155.95	579.45	1,2	298.15	23.78
5838	C5H12O	tert-pentyl-alcohol	75-85-4	41.305	545.15	0.8000	264.35	545.15	1,2	298.15	21.93
5839	C5H12O	3-methyl-2-butanol	598-75-4	42.050	574.00	0.8000	176.43	574.00	2	298.15	23.40
5840	C5H12O	2,2-dimethyl-1-propanol	75-84-3	43.909	550.00	0.8000	327.15	550.00	2	327.15	21.31
5841	C5H12O	methyl butyl ether	628-28-4	58.759	502.00	1.2222	158.15	502.00	1,2	298.15	19.53
5842	C5H12O	methyl isobutyl ether	625-44-5	53.157	497.00	1.2222	152.84	497.00	2	298.15	17.35
5843	C5H12O	methyl sec-butyl ether	6795-87-5	53.060	498.00	1.2222	152.84	498.00	2	298.15	17.38
5844	C5H12O	methyl tert-butyl ether	1634-04-4	52.405	497.10	1.2222	164.55	497.10	2	298.15	17.11
5845	C5H12O	ethyl propyl ether	628-32-0	52.783	500.23	1.1111	145.65	500.23	1,2	298.15	19.28
5846	C5H12O	ethyl isopropyl ether	625-54-7	53.421	489.58	1.2222	152.84	489.58	2	298.15	16.95
5847	C5H12O	sec-butyl methyl ether	116783-23-4	53.214	497.32	1.2222	154.48	497.32	2	298.15	17.39
5848	C5H12O	sec-butyl methyl ether (d)	66610-39-7	53.561	497.32	1.2222	154.48	497.32	2	298.15	17.50
5849	C5H12O	(S)-(-)-2-methyl-1-butanol	1565-80-6	44.793	562.34	0.8000	203.25	562.34	2	298.15	24.48
5850	C5H12O	(S)-(+)-2-pentanol	26184-62-3	43.677	562.34	0.8000	223.25	562.34	2	298.15	23.87
5851	C5H12O	pentanol	30899-19-5	46.494	562.34	0.8000	194.25	562.34	1,2	298.15	25.41
5852	C5H12O	(R)-(-)-2-pentanol	31087-44-2	44.329	562.34	0.8000	212.34	562.34	2	298.15	24.22
5853	C5H12O	(S)-3-methyl-2-butanol	1517-66-4	41.235	562.34	0.8000	212.34	562.34	2	298.15	22.53
5857	C5H12O2	ethylene glycol monopropyl ether	2807-30-9	68.231	582.00	1.2222	183.15	582.00	2	298.15	28.37
5858	C5H12O2	neopentyl glycol	126-30-7	101.185	643.00	1.2222	400.00	643.00	2	400.00	30.80
5859	C5H12O2	1,2-pentanediol	5343-92-0	101.905	637.98	1.2222	252.25	637.98	2	298.15	47.19
5860	C5H12O2	1,2-pentanediol, (±)	91049-43-3	102.743	633.16	1.2222	273.25	633.16	2	298.15	47.19
5861	C5H12O2	1,3-pentanediol	3174-67-2	101.029	653.86	1.2222	252.25	653.86	2	298.15	48.01
5862	C5H12O2	1,4-pentanediol	626-95-9	97.686	657.63	1.2222	252.25	657.63	2	298.15	46.69
5863	C5H12O2	1,5-pentanediol	111-29-5	94.708	673.00	1.2222	257.15	673.00	1,2	298.15	46.32
5864	C5H12O2	2,3-pentanediol	42027-23-6	99.266	633.16	1.2222	273.25	633.16	2	298.15	45.59
5865	C5H12O2	2,4-pentanediol	625-69-4	101.174	633.16	1.2222	273.25	633.16	2	298.15	46.47
5866	C5H12O2	DL-erythro-2,3-pentanediol	61828-35-1	101.908	631.58	1.2222	237.25	631.58	2	298.15	46.68
5867	C5H12O2	DL-threo-2,3-pentanediol	61828-36-2	101.908	631.58	1.2222	237.25	631.58	2	298.15	46.68
5868	C5H12O2	DL-2,4-pentanediol	1825-14-5	101.972	630.45	1.2222	322.15	630.45	2	322.15	42.54
5869	C5H12O2	meso-2,4-pentanediol	3950-21-8	101.972	630.45	1.2222	322.15	630.45	2	322.15	42.54
5870	C5H12O2	2-methyl-1,2-butanediol	41051-72-3	102.330	617.54	1.2222	269.67	617.54	2	298.15	45.71
5871	C5H12O2	2-methyl-1,3-butanediol	684-84-4	104.657	615.15	1.2222	237.25	615.15	2	298.15	46.54
5872	C5H12O2	2-methyl-1,4-butanediol	2938-98-9	102.831	615.82	1.2222	237.25	615.82	2	298.15	45.79
5873	C5H12O2	2-methyl-2,3-butanediol	5396-58-7	102.911	600.61	1.2222	254.67	600.61	2	298.15	44.50
5874	C5H12O2	3-methyl-1,2-butanediol	50468-22-9	102.048	629.12	1.2222	237.25	629.12	2	298.15	46.54
5875	C5H12O2	3-methyl-1,3-butanediol	2568-33-4	101.374	632.01	1.2222	271.04	632.01	2	298.15	46.47
5876	C5H12O2	2-ethyl-1,3-propanediol	2612-29-5	102.080	630.78	1.2222	235.88	630.78	2	298.15	46.69
5881	C5H12O2	1-ethoxy-2-propanol	1569-02-4	70.506	582.00	1.2222	191.58	582.00	2	298.15	29.32
5882	C5H12O2	2-ethoxy-1-propanol	19089-47-5	69.435	582.00	1.2222	191.58	582.00	2	298.15	28.87
5883	C5H12O2	2-isopropoxyethanol	109-59-1	68.933	582.00	1.2222	191.58	582.00	2	298.15	28.66
5884	C5H12O2	3-methoxy-1-butanol	2517-43-3	67.612	582.00	1.2222	191.58	582.00	2	298.15	28.11
5886	C5H12O2	3-ethoxy-1-propanol	111-35-3	68.728	582.00	1.2222	200.00	582.00	2	298.15	28.58
5887	C5H12O2	1-methoxy-2-butanol	53778-73-7	70.166	582.00	1.2222	191.58	582.00	2	298.15	29.17
5888	C5H12O2	(R,R)-(-)-2,4-pentanediol	42075-32-1	96.297	633.16	1.2222	323.15	633.16	2	323.15	40.23
5889	C5H12O2	(2S,4S)-(+)-pentanediol	72345-23-4	96.297	633.16	1.2222	319.65	633.16	2	319.65	40.79
5890	C5H12O2	ethyl ether of propylene glycol	52125-53-8	66.118	582.00	1.2222	191.58	582.00	2	298.15	27.49
5899	C5H12O3	2-(2-methoxyethoxy)ethanol	111-77-3	97.575	630.00	1.2222	197.15	630.00	2	298.15	44.57
5912	C5H12O4	pentaerythritol	115-77-5	217.332	780.00	1.2222	534.15	780.00	2	534.15	53.00
5914	C5H12O4S	butyl methyl sulfate	3518-51-2	67.305	702.84	1.2222	241.15	527.13	2	298.15	34.28

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
5915	C5H12O4S	ethyl propyl sulfate	5867-94-7	67.305	702.84	1.2222	241.15	527.13	2	298.15	34.28
5921	C5H12S	pentyl mercaptan	110-66-7	57.960	598.00	1.1600	197.45	598.00	1,2	298.15	26.02
5922	C5H12S	2-pentanethiol	2084-19-7	59.284	580.00	1.2222	104.20	580.00	2	298.15	24.54
5923	C5H12S	3-pentanethiol	616-31-9	59.472	580.00	1.2222	162.35	580.00	2	298.15	24.62
5924	C5H12S	2-methyl-1-butanethiol	1878-18-8	58.688	591.00	1.2222	167.07	591.00	2	298.15	24.88
5925	C5H12S	3-methyl-1-butanethiol	541-31-1	58.809	604.00	1.2222	139.64	604.00	1,2	298.15	25.60
5926	C5H12S	2-methyl-2-butanethiol	1679-09-0	59.470	566.00	1.2222	169.38	566.00	2	298.15	23.83
5927	C5H12S	3-methyl-2-butanethiol	2084-18-6	59.082	579.00	1.2222	149.33	579.00	2	298.15	24.40
5928	C5H12S	2,2-dimethyl-1-propanethiol	1679-08-9	59.516	570.00	1.2222	206.15	570.00	2	298.15	24.08
5929	C5H12S	2-methyl-1-butanethiol, (+)	20089-07-0	59.653	583.50	1.2222	161.95	583.50	2	298.15	24.88
5930	C5H12S	methyl butyl sulfide	628-29-5	61.874	591.00	1.2222	175.33	591.00	1,2	298.15	26.23
5931	C5H12S	ethyl propyl sulfide	4110-50-3	59.745	584.00	1.2222	156.15	584.00	2	298.15	24.95
5932	C5H12S	3-methyl-2-thiapentane	10359-64-5	59.901	585.00	1.2222	165.01	585.00	1,2	298.15	25.07
5933	C5H12S	4-methyl-2-thiapentane	5008-69-5	59.328	585.00	1.2222	164.05	585.00	2	298.15	24.83
5934	C5H12S	2-methyl-3-thiapentane	5145-99-3	59.083	585.00	1.2222	150.96	585.00	2	298.15	24.73
5935	C5H12S	3,3-dimethyl-2-thiabutane	6163-64-0	56.102	585.00	1.2222	190.83	585.00	1,2	298.15	23.48
5947	C5H13N	pentylamine	110-58-7	56.256	555.00	1.0696	218.15	555.00	1,2	298.15	24.68
5948	C5H13N	1-methylbutylamine	625-30-9	60.833	534.90	1.2222	203.15	534.90	2	298.15	22.46
5949	C5H13N	2-methylbutylamine	96-15-1	60.274	542.60	1.2222	203.15	542.60	2	298.15	22.75
5950	C5H13N	3-methylbutylamine	107-85-7	62.701	544.90	1.2222	203.15	544.90	1,2	298.15	23.81
5951	C5H13N	1,1-dimethylpropylamine	594-39-8	57.739	519.30	1.2222	168.15	519.30	1,2	298.15	20.34
5952	C5H13N	1,2-dimethylpropylamine	598-74-3	60.587	527.40	1.2222	223.15	527.40	2	298.15	21.88
5953	C5H13N	2,2-dimethylpropylamine	5813-64-9	61.021	517.10	1.2222	203.15	517.10	2	298.15	21.35
5954	C5H13N	3-pentanamine	616-24-0	62.054	525.16	1.2222	203.15	525.16	2	298.15	22.26
5955	C5H13N	methyl-butylamine	110-68-9	54.725	531.80	1.2222	198.15	531.80	2	298.15	20.03
5956	C5H13N	methylisobutylamine	14610-37-8	54.847	515.20	1.2222	198.15	515.20	2	298.15	19.07
5957	C5H13N	methyl-sec-butylamine	7713-69-1	54.321	519.90	1.2222	198.15	519.90	2	298.15	19.17
5958	C5H13N	methyl-tert-butylamine	625-43-4	54.399	513.20	1.2222	198.15	513.20	2	298.15	18.79
5959	C5H13N	ethylpropylamine	20193-20-8	54.655	520.00	1.2222	198.15	520.00	2	298.15	19.30
5960	C5H13N	ethylisopropylamine	19961-27-4	54.898	513.80	1.2222	198.15	513.80	2	298.15	19.00
5961	C5H13N	methyldiethylamine	616-39-7	51.097	507.56	1.2222	170.00	507.56	2	298.15	17.32
5962	C5H13N	dimethyl-propylamine	926-63-6	47.854	528.00	1.2222	170.00	528.00	2	298.15	17.32
5963	C5H13N	dimethylisopropylamine	996-35-6	50.351	511.91	1.2222	170.00	511.91	2	298.15	17.32
5964	C5H13N	(S)-(-)-2-methylbutylamine	20626-52-2	60.332	525.16	1.2222	203.15	525.16	2	298.15	21.64
5965	C5H13N	N,N-dimethyl-2-propanamine	996-35-0	48.272	525.16	1.2222	170.00	525.16	2	298.15	17.32
5966	C5H13NO	2-amino-3-methyl-1-butanol, (±)	16369-05-4	106.587	626.41	1.2222	302.99	626.41	2	302.99	47.51
5967	C5H13NO	2-amino-3-pentanol	116836-16-9	104.437	626.41	1.2222	302.99	626.41	2	302.99	46.56
5968	C5H13NO	5-amino-1-pentanol	2508-29-4	92.973	626.41	1.2222	311.65	626.41	2	311.65	40.09
5969	C5H13NO	1-(dimethylamino)-2-propanol	108-16-7	116.240	626.41	1.2222	302.99	626.41	2	302.99	51.82
5970	C5H13NO	2-(dimethylamino)-1-propanol	15521-18-3	109.536	626.41	1.2222	302.99	626.41	2	302.99	48.83
5971	C5H13NO	3-(dimethylamino)-1-propanol	3179-63-3	106.256	626.41	1.2222	302.99	626.41	2	302.99	47.37
5973	C5H13NO	2-(isopropylamino)ethanol	109-56-8	103.957	626.41	1.2222	289.00	626.41	2	298.15	47.19
5975	C5H13NO	2-(propylamino)ethanol	16369-21-4	101.825	626.41	1.2222	302.99	626.41	2	302.99	45.39
5976	C5H13NO	(S)-(+)-2-amino-3-methyl-1-butanol	2026-48-4	106.587	626.41	1.2222	304.15	626.41	2	304.15	47.31
5977	C5H13NO	(R)-(-)-2-amino-3-methyl-1-butanol	4276-09-9	100.082	626.41	1.2222	307.15	626.41	2	307.15	43.91
5978	C5H13NO	2-amino-3-methyl-1-butanol	473-75-6	106.587	626.41	1.2222	302.99	626.41	2	302.99	47.51
5979	C5H13NO	DL-2-amino-1-pentanol	4146-04-7	98.936	626.41	1.2222	302.99	626.41	2	302.99	44.10
5980	C5H13NO	(S)-(+)-1-dimethylamino-2-propanol	53636-17-2	116.374	626.41	1.2222	302.99	626.41	2	302.99	51.88
5986	C5H13NO2	methyl diethanolamine	105-59-9	128.597	678.00	1.2222	252.15	678.00	2	298.15	63.34
5987	C5H13NO2	2-amino-2-ethyl-1,3-propanediol	115-70-8	70.530	678.00	1.2222	310.65	678.00	2	310.65	33.35
6009	C5H14N2	1,5-pentanediamine	462-94-2	74.967	637.67	1.2222	282.15	637.67	2	298.15	34.70
6010	C5H14N2	N,N,N',N'-tetramethylmethanediamine	51-80-9	62.362	637.67	1.2222	242.26	637.67	2	298.15	28.86
6011	C5H14N2	1,3-diaminopentane	589-37-7	73.329	637.67	1.2222	152.25	637.67	2	298.15	33.94
6012	C5H14N2	3-dimethylamino-1-propylamine	109-55-7	69.616	637.67	1.2222	213.25	637.67	2	298.15	32.22
6013	C5H14N2	N,N'-dimethyl-1,3-propanediamine	111-33-1	71.077	637.67	1.2222	194.43	637.67	2	298.15	32.90
6014	C5H14N2	2,2-dimethyl-1,3-propanediamine	7328-91-8	72.049	637.67	1.2222	303.15	637.67	2	303.15	32.75
6015	C5H14N2	1-dimethylamino-2-propylamine	62689-51-4	66.762	637.67	1.2222	308.33	637.67	2	308.33	29.77
6016	C5H14N2	N-isopropylethylenediamine	19522-67-9	69.940	637.67	1.2222	242.26	637.67	2	298.15	32.37
6017	C5H14N2	N-propylethylenediamine	111-39-7	71.507	637.67	1.2222	242.26	637.67	2	298.15	33.10
6018	C5H14N2	N,N,N'-trimethylethylenediamine	142-25-6	67.394	637.67	1.2222	242.26	637.67	2	298.15	31.19
6067	C6Cl6	hexachlorobenzene	118-74-1	69.961	825.00	1.2222	501.70	825.00	2	501.70	22.26
6080	C6F6	hexafluorobenzene	392-56-3	60.758	516.73	1.2222	278.25	516.73	2	298.15	21.23
6097	C6F14	perfluorohexane	355-42-0	39.440	468.25	1.2222	184.95	351.18	1,2	298.15	11.44
6098	C6F14	perfluoro-2-methylpentane	355-04-4	40.179	469.67	1.2222	200.42	352.25	1,2	298.15	11.73
6115	C6HCl5	pentachlorobenzene	608-93-5	77.707	791.17	1.2222	358.65	791.17	2	358.65	37.15
6174	C6H2Cl4	1,2,3,4-tetrachlorobenzene	634-66-2	76.746	772.88	1.2222	319.65	772.88	2	319.65	39.97
6175	C6H2Cl4	1,2,3,5-tetrachlorobenzene	634-90-2	76.356	761.15	1.2222	327.65	761.15	2	327.65	38.37
6176	C6H2Cl4	1,2,4,5-tetrachlorobenzene	95-94-3	76.307	759.69	1.2222	412.15	759.69	2	412.15	29.34
6281	C6H3ClN2O4	1-chloro-2,4-dinitrobenzene	97-00-7	78.340	813.77	1.0278	326.55	813.77	1,2	326.55	46.24
6296	C6H3Cl2NO2	1,2-dichloro-4-nitrobenzene	99-54-7	70.960	758.00	1.0240	315.65	758.00	1,2	315.65	40.88
6305	C6H3Cl3	1,2,4-trichlorobenzene	120-82-1	71.850	725.00	1.2222	290.15	725.00	2	298.15	37.60
6306	C6H3Cl3	1,2,3-trichlorobenzene	87-61-6	75.061	734.25	1.2222	325.65	734.25	2	325.65	36.67
6307	C6H3Cl3	1,3,5-trichlorobenzene	108-70-3	74.539	719.02	1.2222	336.65	719.02	2	336.65	34.45
6308	C6H3Cl3	trichlorobenzene	12002-48-1	73.775	726.09	1.2222	313.40	726.09	2	313.40	36.98
6367	C6H3N3O6	1,3,5-trinitrobenzene	99-35-4	111.477	1005.00	1.2222	398.40	1005.00	2	398.40	60.14
6411	C6H4Br2	m-dibromobenzene	108-36-1	80.373	761.00	1.2222	266.25	761.00	2	298.15	43.77
6412	C6H4Br2	o-dibromobenzene	583-53-9	80.964	761.00	1.2222	274.95	761.00	2	298.15	44.09
6413	C6H4Br2	p-dibromobenzene	106-37-6	80.416	761.00	1.2222	360.00	761.00	2	360.00	36.75
6414	C6H4Br2	dibromobenzene	26249-12-7	80.587	761.00	1.2222	300.40	761.00	2	300.40	43.63
6443	C6H4ClNO2	m-chloronitrobenzene	121-73-3	101.650	742.00	1.5110	317.65	742.00	1,2	317.65	43.69

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
6444	C6H4ClNO2	o-chloronitrobenzene	88-73-3	84.780	757.00	1.2480	306.15	757.00	1,2	306.15	44.40
6445	C6H4ClNO2	p-chloronitrobenzene	100-00-5	77.306	751.00	1.1370	356.65	751.00	1,2	356.65	37.16
6469	C6H4Cl2	o-dichlorobenzene	95-50-1	69.916	705.00	1.2222	256.15	705.00	2	298.15	35.71
6470	C6H4Cl2	m-dichlorobenzene	541-73-1	67.130	683.95	1.0940	248.39	683.95	1,2	298.15	35.88
6471	C6H4Cl2	p-dichlorobenzene	106-46-7	71.996	684.75	1.2374	326.14	684.75	1,2	326.14	32.34
6524	C6H4F2	m-difluorobenzene	372-18-9	66.884	552.94	1.2222	204.03	552.94	2	298.15	25.94
6525	C6H4F2	o-difluorobenzene	367-11-3	66.945	554.46	1.2222	239.16	554.46	2	298.15	26.07
6526	C6H4F2	p-difluorobenzene	540-36-3	69.914	556.00	1.2222	260.16	556.00	2	298.15	27.33
6580	C6H4N2O4	m-dinitrobenzene	99-65-0	97.059	805.00	1.2222	364.00	805.00	2	364.00	46.52
6581	C6H4N2O4	o-dinitrobenzene	528-29-0	98.426	831.00	1.2222	390.08	831.00	2	390.08	45.36
6582	C6H4N2O4	p-dinitrobenzene	100-25-4	97.271	803.00	1.2222	446.60	803.00	2	446.60	36.04
6656	C6H5Br	bromobenzene	108-86-1	74.122	670.15	1.2310	242.43	670.15	1,2	298.15	35.91
6692	C6H5Cl	chlorobenzene	108-90-7	72.700	632.35	1.2420	227.95	632.35	1,2	298.15	32.93
6720	C6H5ClO	m-chlorophenol	108-43-0	101.071	729.00	1.2222	306.00	729.00	2	306.00	51.96
6721	C6H5ClO	o-chlorophenol	95-57-8	78.530	675.00	1.1360	282.00	675.00	1,2	298.15	40.50
6722	C6H5ClO	p-chlorophenol	106-48-9	101.558	738.00	1.2222	316.00	738.00	2	316.00	51.29
6740	C6H5Cl2N	3,4-dichloroaniline	95-76-1	87.021	800.00	1.2222	344.65	800.00	2	344.65	43.70
6769	C6H5F	fluorobenzene	462-06-6	72.200	560.09	1.3030	230.94	560.09	1,2	298.15	26.82
6795	C6H5I	iodobenzene	591-50-4	76.400	721.15	1.2600	241.83	721.15	1,2	298.15	39.01
6819	C6H5NO2	nitrobenzene	98-95-3	79.440	719.00	1.1362	278.91	719.00	1,2	298.15	43.23
6876	C6H6	benzene	71-43-2	71.950	562.16	1.2389	278.68	562.16	1,2	298.15	28.21
6880	C6H6	1,4-hexadiyne	10420-91-4	71.516	503.89	1.2222	304.05	377.92	2	304.05	23.09
6881	C6H6	1,5-hexadiyne	628-16-0	70.785	509.99	1.2222	267.15	382.49	2	298.15	24.19
6882	C6H6	2,4-hexadiyne	2809-69-0	65.474	571.76	1.2222	340.95	428.82	2	340.95	21.61
6883	C6H6	1,3-hexadiyne	4447-21-6	70.000	517.04	1.2222	304.05	387.78	2	304.05	23.68
6923	C6H6ClN	m-chloroaniline	108-42-9	88.343	751.00	1.2222	262.75	751.00	2	298.15	47.61
6924	C6H6ClN	o-chloroaniline	95-51-2	87.000	722.00	1.2222	269.65	722.00	2	298.15	45.37
6925	C6H6ClN	p-chloroaniline	106-47-8	79.710	754.00	1.0963	343.05	754.00	1,2	343.05	40.98
6979	C6H6N2	cis-dicyano-1-butene	2141-58-4	76.284	691.00	1.2222	249.00	691.00	2	298.15	38.25
6980	C6H6N2	trans-dicyano-1-butene	2141-59-5	75.852	689.00	1.2222	260.00	689.00	2	298.15	37.94
6996	C6H6N2O2	m-nitroaniline	99-09-2	110.751	815.00	1.2222	387.15	815.00	2	387.15	50.38
6997	C6H6N2O2	o-nitroaniline	88-74-4	110.142	784.00	1.2222	344.65	784.00	2	344.65	54.27
6998	C6H6N2O2	p-nitroaniline	100-01-6	115.852	851.00	1.2222	420.65	851.00	2	420.65	50.35
7000	C6H6N2O2	N-nitroaniline	645-55-6	94.765	816.67	1.2222	320.45	816.67	2	320.45	51.55
7057	C6H6O	phenol	108-95-2	74.906	694.25	1.0767	314.06	694.25	1,2	314.06	39.17
7070	C6H6O2	pyrocatechol	120-80-9	150.823	764.00	1.2222	377.60	764.00	2	377.60	65.56
7071	C6H6O2	resorcinol	108-46-3	153.560	810.00	1.2222	382.00	810.00	2	382.00	70.42
7072	C6H6O2	p-hydroquinone	123-31-9	153.899	822.00	1.2222	444.65	822.00	2	444.65	59.42
7085	C6H6O3	1,2,3-benzenetriol	87-66-1	203.341	830.00	1.2222	407.00	830.00	2	407.00	89.21
7121	C6H6S	phenyl mercaptan	108-98-5	79.270	689.00	1.2720	258.26	689.00	1,2	298.15	38.54
7172	C6H7N	aniline	62-53-3	77.260	699.00	1.0800	267.13	699.00	1,2	298.15	42.38
7173	C6H7N	2-methylpyridine	109-06-8	74.786	621.00	1.2222	206.44	621.00	1,2	298.15	33.62
7174	C6H7N	3-methylpyridine	108-99-6	74.792	645.00	1.2222	255.01	645.00	1,2	298.15	35.04
7175	C6H7N	4-methylpyridine	108-89-4	75.483	646.15	1.2222	276.73	646.15	1,2	298.15	35.43
7178	C6H7N	methylpyridine	1333-41-1	76.584	637.38	1.2222	275.55	637.38	1,2	298.15	35.43
7267	C6H8	1,3-cyclohexadiene	592-57-4	68.387	558.00	1.2222	161.00	558.00	2	298.15	26.87
7269	C6H8	1,4-cyclohexadiene	628-41-1	71.882	558.00	1.2222	223.95	558.00	2	298.15	28.25
7273	C6H8	1-hexen-3-yne	13721-54-5	65.773	525.00	1.2222	220.00	525.00	2	298.15	23.59
7274	C6H8	1-hexen-4-yne	5009-11-0	66.227	525.00	1.2222	220.00	525.00	2	298.15	23.75
7275	C6H8	1-hexen-5-yne	14548-31-3	62.285	525.00	1.2222	220.00	525.00	2	298.15	22.33
7276	C6H8	2-hexen-4-yne	14092-20-7	66.565	525.00	1.2222	220.00	525.00	2	298.15	23.87
7277	C6H8	2-methyl-1-penten-3-yne	926-55-6	64.155	525.00	1.2222	220.00	525.00	2	298.15	23.01
7278	C6H8	3-methyl-3-penten-1-yne	1574-33-0	61.451	525.00	1.2222	220.00	525.00	2	298.15	22.04
7316	C6H8N2	adiponitrile	111-69-3	77.275	781.00	1.2222	275.64	781.00	2	298.15	42.93
7317	C6H8N2	methylglutaronitrile	4553-62-2	75.132	742.00	1.2222	228.15	742.00	2	298.15	40.09
7318	C6H8N2	m-phenylenediamine	108-45-2	109.262	824.00	1.2222	334.00	824.00	2	334.00	57.89
7319	C6H8N2	o-phenylenediamine	95-54-5	103.087	781.00	1.2222	376.95	781.00	2	376.95	46.07
7320	C6H8N2	p-phenylenediamine	106-50-3	107.293	796.00	1.2222	413.00	796.00	2	413.00	43.88
7321	C6H8N2	phenylhydrazine	100-63-0	100.623	761.00	1.2222	292.35	761.00	2	298.15	54.80
7343	C6H8N2O	bis(cyanoethyl) ether	1656-48-0	83.101	783.00	1.2222	246.85	783.00	2	298.15	46.26
7381	C6H8O	2-ethylfuran	3208-16-0	69.574	557.25	1.2222	182.44	557.25	2	298.15	27.29
7382	C6H8O	3-ethylfuran	67363-95-5	69.532	556.26	1.2222	182.44	556.26	2	298.15	27.20
7383	C6H8O	2,3-dimethylfuran	14920-89-9	68.713	559.41	1.2222	177.34	559.41	2	298.15	27.10
7384	C6H8O	2,4-dimethylfuran	3710-43-8	68.745	560.17	1.2222	177.34	560.17	2	298.15	27.16
7385	C6H8O	2,5-dimethylfuran	625-86-5	68.620	557.13	1.2222	210.35	557.13	2	298.15	26.90
7386	C6H8O	3,4-dimethylfuran	20843-07-6	67.703	535.10	1.2222	177.34	535.10	2	298.15	25.02
7446	C6H8O4	dimethyl maleate	624-48-6	75.060	675.00	1.2222	254.15	675.00	2	298.15	36.81
7459	C6H8O6	ascorbic acid	50-81-7	247.366	783.00	1.2222	465.15	783.00	2	465.15	82.18
7464	C6H8O7	citric acid	77-92-9	168.595	822.00	1.2222	426.15	822.00	2	426.15	69.02
7467	C6H8S	2-ethylthiophene	872-55-9	66.111	623.60	1.2222	241.08	623.60	1,2	298.15	29.86
7468	C6H8S	3-ethylthiophene	1795-01-3	67.192	626.70	1.2222	184.05	626.70	2	298.15	30.52
7469	C6H8S	2,3-dimethylthiophene	632-16-6	66.060	635.30	1.2222	224.15	635.30	2	298.15	30.45
7470	C6H8S	2,4-dimethylthiophene	638-00-6	66.229	634.00	1.2222	241.08	634.00	2	298.15	30.46
7471	C6H8S	2,5-dimethylthiophene	638-02-8	66.915	627.80	1.2222	210.55	627.80	1,2	298.15	30.45
7472	C6H8S	3,4-dimethylthiophene	632-15-5	65.414	640.40	1.2222	241.08	640.40	2	298.15	30.42
7512	C6H9Cl3	1,1,2-trichloro-1-hexene	53977-99-4	72.875	639.00	1.2222	283.15	479.25	2	298.15	33.81
7513	C6H9Cl3O2	butyl trichloroacetate	3657-07-6	60.336	677.55	1.2222	278.15	508.16	1,2	298.15	29.70
7533	C6H9N	2,4-dimethylpyrrole	625-82-1	95.536	630.00	1.2222	279.65	630.00	2	298.15	43.64
7534	C6H9N	2,5-dimethylpyrrole	625-84-3	98.130	630.00	1.2222	279.65	630.00	2	298.15	44.83
7535	C6H9N	1-ethyl-1H-pyrrole	617-92-5	68.313	630.00	1.2222	279.65	630.00	2	298.15	31.21

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n							(sigma - dynes/cm, T - K)	
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
7536	C6H9N	2-ethyl-1H-pyrrole	1551-06-0	92.201	630.00	1.2222	279.65	630.00	2	298.15	42.12
7619	C6H10	1-methylcyclopentene	693-89-0	51.815	541.99	1.2222	145.96	541.99	1,2	298.15	19.52
7620	C6H10	3-methylcyclopentene	1120-62-3	61.274	535.71	1.2222	130.16	535.71	1,2	298.15	22.68
7621	C6H10	4-methylcyclopentene	1759-81-5	56.558	543.75	1.2222	112.31	543.75	2	298.15	21.41
7622	C6H10	cyclohexene	110-83-8	66.470	560.40	1.2317	169.67	560.40	1,2	298.15	26.09
7623	C6H10	1,2-hexadiene	592-44-9	49.820	534.07	1.2222	161.63	534.07	2	298.15	18.35
7624	C6H10	1,cis-3-hexadiene	14596-92-0	50.357	526.70	1.2222	150.04	526.70	2	298.15	18.15
7625	C6H10	1,trans-3-hexadiene	20237-34-7	50.357	526.70	1.2222	170.75	526.70	2	298.15	18.15
7626	C6H10	1,4-hexadiene	592-45-0	48.863	526.51	1.2222	158.35	526.51	2	298.15	17.60
7627	C6H10	1,cis-4-hexadiene	7318-67-4	50.742	514.53	1.2222	150.04	514.53	2	298.15	17.60
7628	C6H10	1,trans-4-hexadiene	7319-00-8	50.742	514.53	1.2222	134.45	514.53	2	298.15	17.60
7629	C6H10	1,5-hexadiene	592-42-7	50.898	507.00	1.2222	132.47	507.00	2	298.15	17.22
7630	C6H10	2,3-hexadiene	592-49-4	49.831	523.91	1.2222	158.31	523.91	2	298.15	17.81
7631	C6H10	2,4-hexadiene	592-46-1	51.692	526.51	1.2222	194.15	526.51	2	298.15	18.62
7632	C6H10	cis-2,trans-4-hexadiene	5194-50-3	50.605	538.00	1.2222	177.05	538.00	2	298.15	18.85
7633	C6H10	cis-2,cis-4-hexadiene	6108-61-8	49.778	539.46	1.2222	146.72	539.46	2	298.15	18.62
7634	C6H10	trans-2,trans-4-hexadiene	5194-51-4	50.753	535.00	1.2222	228.25	535.00	2	298.15	18.75
7635	C6H10	3-methyl-1,2-pentadiene	7417-48-3	49.470	528.84	1.2222	147.67	528.84	2	298.15	17.95
7636	C6H10	4-methyl-1,2-pentadiene	13643-05-5	49.588	528.04	1.2222	145.26	528.04	2	298.15	17.95
7637	C6H10	3-methyl-1,3-pentadiene	4549-74-0	51.135	526.51	1.2222	145.26	526.51	2	298.15	18.42
7638	C6H10	2-methyl-1,cis-3-pentadiene	1501-60-6	49.659	535.20	1.2222	155.55	535.20	2	298.15	18.35
7639	C6H10	2-methyl-1,trans-3-pentadiene	926-54-5	49.659	535.20	1.2222	136.08	535.20	2	298.15	18.35
7640	C6H10	3-methyl-1,cis-3-pentadiene	2787-45-3	49.623	536.73	1.2222	136.08	536.73	2	298.15	18.42
7641	C6H10	3-methyl-1,trans-3-pentadiene	2787-43-1	49.623	536.73	1.2222	136.08	536.73	2	298.15	18.42
7642	C6H10	4-methyl-1,3-pentadiene	926-56-7	49.648	535.66	1.2222	136.08	535.66	2	298.15	18.37
7643	C6H10	2-methyl-1,4-pentadiene	763-30-4	51.378	493.39	1.2222	139.40	493.39	2	298.15	16.55
7644	C6H10	3-methyl-1,4-pentadiene	1115-08-8	50.883	501.82	1.2222	138.36	501.82	2	298.15	16.90
7645	C6H10	2-methyl-2,3-pentadiene	3043-33-2	49.083	534.09	1.2222	144.35	534.09	2	298.15	18.08
7646	C6H10	2-ethyl-1,3-butadiene	3404-63-5	50.002	531.56	1.2222	139.40	531.56	2	298.15	18.29
7647	C6H10	2,3-dimethyl-1,3-butadiene	513-81-5	49.663	526.00	1.2222	197.15	526.00	2	298.15	17.86
7648	C6H10	1-hexyne	693-02-7	60.150	516.20	1.2222	141.25	516.20	1,2	298.15	20.98
7649	C6H10	2-hexyne	764-35-2	57.910	549.00	1.2222	183.65	549.00	2	298.15	22.23
7650	C6H10	3-hexyne	928-49-4	58.206	544.00	1.2222	170.05	544.00	2	298.15	22.05
7651	C6H10	3-methyl-1-pentyne	922-59-8	59.980	512.82	1.2222	188.85	512.82	2	298.15	20.69
7652	C6H10	4-methyl-1-pentyne	7154-75-8	59.527	518.20	1.2222	168.55	518.20	2	298.15	20.90
7653	C6H10	4-methyl-2-pentyne	21020-27-9	57.540	540.58	1.2222	162.85	540.58	2	298.15	21.59
7654	C6H10	3,3-dimethyl-1-butyne	917-92-0	60.979	491.15	1.2222	194.95	491.15	2	298.15	19.47
7657	C6H10	1,3-hexadiene, cis and trans	592-48-3	50.461	526.51	1.2222	158.35	526.51	2	298.15	18.18
7658	C6H10	2-methyl-1,3-pentadiene	1118-58-7	50.837	526.51	1.2222	258.25	526.51	2	298.15	18.31
7659	C6H10	methylpentadiene, isomers	54363-49-4	50.949	526.51	1.2222	158.35	526.51	2	298.15	18.35
7660	C6H10	hexadiene	42296-74-2	50.100	526.51	1.2222	158.35	526.51	2	298.15	18.05
7688	C6H10Cl2	cis-1,2-dichloro-1-hexene	59697-55-1	63.949	660.00	1.2222	260.00	660.00	2	298.15	30.68
7689	C6H10Cl2	trans-1,2-dichloro-1-hexene	59697-51-7	63.949	660.00	1.2222	260.00	660.00	2	298.15	30.68
7694	C6H10Cl2O2	butyl dichloroacetate	29003-73-4	62.259	662.64	1.2222	278.15	496.98	1,2	298.15	29.99
7760	C6H10O	cyclohexanone	108-94-1	73.500	629.15	1.1835	242.00	629.15	1,2	298.15	34.37
7761	C6H10O	mesityl oxide	141-79-7	62.133	600.00	1.2222	220.15	600.00	2	298.15	26.83
7772	C6H10O	2-ethyl-1-buten-1-one	24264-08-2	65.125	595.00	1.2222	220.00	595.00	2	298.15	27.84
7773	C6H10O	3-hexen-2-one	763-93-9	68.288	595.00	1.2222	220.00	595.00	2	298.15	29.19
7774	C6H10O	4-hexen-2-one	25659-22-7	67.476	595.00	1.2222	220.00	595.00	2	298.15	28.84
7775	C6H10O	4-hexen-3-one	2497-21-4	68.194	595.00	1.2222	220.00	595.00	2	298.15	29.15
7776	C6H10O	5-hexen-2-one	109-49-9	67.631	595.00	1.2222	220.00	595.00	2	298.15	28.91
7777	C6H10O	trans-3-hexen-2-one	4376-23-2	68.288	595.00	1.2222	220.00	595.00	2	298.15	29.19
7778	C6H10O	2-methyl-1-penten-3-one	25044-01-3	66.949	595.00	1.2222	203.65	595.00	2	298.15	28.62
7779	C6H10O	4-methyl-4-penten-2-one	3744-02-3	67.302	595.00	1.2222	200.55	595.00	2	298.15	28.77
7785	C6H10O	trans-2-hexenal	6728-26-3	72.764	590.00	1.2222	220.00	590.00	2	298.15	30.78
7786	C6H10O	cis-3-hexenal	6789-80-6	69.379	590.00	1.2222	220.00	590.00	2	298.15	29.35
7787	C6H10O	trans-3-hexenal	69112-21-6	70.684	590.00	1.2222	220.00	590.00	2	298.15	29.90
7788	C6H10O	2-methyl-2-pentenal	623-36-9	71.480	590.00	1.2222	220.00	590.00	2	298.15	30.24
7801	C6H10O	4-methylpent-2-enal	5362-56-1	70.684	590.00	1.2222	230.00	590.00	2	298.15	29.90
7804	C6H10O	3-methyl-3-penten-2-one	565-62-8	68.166	595.00	1.2222	230.00	595.00	2	298.15	29.14
7805	C6H10O	2-ethylcrotonaldehyde	19780-25-7	70.684	590.00	1.2222	230.00	590.00	2	298.15	29.90
7806	C6H10O	2-hexenal	505-57-7	76.004	590.00	1.2222	230.00	590.00	2	298.15	32.15
7813	C6H10O2	epsilon-caprolactone	502-44-3	89.244	771.00	1.2222	271.85	771.00	2	298.15	49.10
7814	C6H10O2	ethyl methacrylate	97-63-2	59.915	577.00	1.2222	272.00	577.00	2	298.15	24.64
7815	C6H10O2	propyl acrylate	925-60-0	63.448	569.00	1.2222	272.00	569.00	2	298.15	25.61
7817	C6H10O2	2-buten-1-yl acetate	628-08-0	65.664	569.00	1.2222	291.19	569.00	2	298.15	26.50
7818	C6H10O2	allyl propanoate	2408-20-0	65.284	569.00	1.2222	291.19	569.00	1,2	298.15	26.35
7820	C6H10O2	2,2-dimethyl-3-butenoic acid	10276-09-2	54.864	696.00	1.2222	267.15	696.00	2	298.15	27.70
7821	C6H10O2	trans-2-ethyl-2-butenoic acid	1187-13-9	56.152	696.00	1.2222	318.65	696.00	2	318.65	26.57
7822	C6H10O2	2-hexenoic acid	1191-04-4	56.561	696.00	1.2222	309.65	696.00	2	309.65	27.55
7823	C6H10O2	3-hexenoic acid	4219-24-3	56.098	696.00	1.2222	285.15	696.00	2	298.15	28.32
7824	C6H10O2	5-hexenoic acid	1577-22-6	55.828	696.00	1.2222	236.15	696.00	2	298.15	28.18
7825	C6H10O2	2-methyl-3-pentenoic acid	37674-63-8	55.612	696.00	1.2222	290.45	696.00	2	298.15	28.07
7826	C6H10O2	4-methyl-2-pentenoic acid	10321-71-8	56.589	696.00	1.2222	308.15	696.00	2	308.15	27.69
7827	C6H10O2	trans-2-methyl-2-pentenoic acid	16957-70-3	56.425	696.00	1.2222	297.55	696.00	2	298.15	28.48
7828	C6H10O2	cis-3-methyl-2-pentenoic acid	19866-51-4	55.765	696.00	1.2222	285.15	696.00	2	298.15	28.15
7829	C6H10O2	ethyl 3-butenoate	1617-18-1	63.448	569.00	1.2222	291.19	569.00	2	298.15	25.61
7830	C6H10O2	ethyl cis-2-butenoate	6776-19-8	66.322	569.00	1.2222	291.19	569.00	2	298.15	26.77
7831	C6H10O2	ethyl 2-butenoate	10544-63-5	64.813	569.00	1.2222	291.19	569.00	1,2	298.15	26.16
7832	C6H10O2	ethyl trans-2-butenoate	623-70-1	66.647	569.00	1.2222	291.19	569.00	2	298.15	26.90

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
7833	C6H10O2	vinyl butanoate	123-20-6	63.043	569.00	1.2222	291.19	569.00	2	298.15	25.45
7834	C6H10O2	vinyl 2-methylpropanoate	2424-98-8	60.837	569.00	1.2222	291.19	569.00	2	298.15	24.56
7844	C6H10O2	2-methylenepentanoic acid	5650-75-9	56.425	696.00	1.2222	297.55	696.00	2	298.15	28.48
7845	C6H10O2	methyl 2-methyl-2-butenoate	6622-76-0	66.808	569.00	1.2222	291.19	569.00	2	298.15	26.97
7846	C6H10O2	methyl 3-methyl-2-butenoate	924-50-5	66.404	569.00	1.2222	310.37	569.00	2	310.37	25.33
7848.1	C6H10O2	isopropyl acrylate	689-12-3	59.967	560.00	1.2346	190.00	560.00	2	298.15	23.46
7856	C6H10O2	trans-2-hexenoic acid	13419-69-7	56.589	696.00	1.2222	305.15	696.00	2	305.15	27.95
7857	C6H10O2	trans-3-hexenoic acid	1577-18-0	56.098	696.00	1.2222	284.65	696.00	2	298.15	28.32
7859	C6H10O2	methyl trans-2-pentenoate	15790-88-2	70.329	569.00	1.2222	291.19	569.00	2	298.15	28.39
7860	C6H10O2	methyl trans-3-pentenoate	20515-19-9	70.329	569.00	1.2222	291.19	569.00	2	298.15	28.39
7861	C6H10O2	2-methyl-4-pentenoic acid	1575-74-2	55.765	696.00	1.2222	290.45	696.00	2	298.15	28.15
7862	C6H10O2	2-methyl-2-pentenoic acid	3142-72-1	55.765	696.00	1.2222	290.45	696.00	2	298.15	28.15
7881	C6H10O3	ethylacetoacetate	141-97-9	65.450	643.00	1.1590	234.15	643.00	1,2	298.15	31.79
7882	C6H10O3	propionic anhydride	123-62-6	78.776	618.00	1.2222	228.15	618.00	2	298.15	35.22
7917	C6H10O4	adipic acid	124-04-9	115.415	809.00	1.2222	425.50	809.00	2	425.50	46.35
7918	C6H10O4	diethyl oxalate	95-92-1	68.210	646.00	1.2447	232.55	646.00	1,2	298.15	31.57
7919	C6H10O4	ethylene glycol diacetate	111-55-7	71.886	653.00	1.2222	242.15	653.00	2	298.15	34.11
7920	C6H10O4	ethylidene diacetate	542-10-9	69.506	635.00	1.2222	292.00	635.00	2	298.15	32.03
7953.1	C6H10O5	dilactic acid	19201-34-4	50.096	660.00	1.1137	385.65	660.00	2	385.65	18.85
7979	C6H11Br	cis-1-bromo-1-hexene	13154-12-6	60.521	609.39	1.2222	211.60	609.39	2	298.15	26.62
7980	C6H11Br	trans-1-bromo-1-hexene	13154-13-7	60.521	609.39	1.2222	211.60	609.39	2	298.15	26.62
7982	C6H11Br	6-bromo-1-hexene	2695-47-8	61.070	609.39	1.2222	211.60	609.39	2	298.15	26.86
7983	C6H11Br	5-bromo-2-methyl-2-pentene	2270-59-9	61.250	609.39	1.2222	211.60	609.39	2	298.15	26.94
8004	C6H11Br3	1,1,1-tribromohexane	62127-63-3	86.841	746.32	1.2222	338.70	746.32	2	338.70	41.47
8006	C6H11Cl	cis-1-chloro-1-hexene	50586-18-0	62.728	583.61	1.2222	181.72	583.61	2	298.15	26.17
8007	C6H11Cl	trans-1-chloro-1-hexene	50586-19-1	62.728	583.61	1.2222	181.72	583.61	2	298.15	26.17
8009	C6H11Cl	1-chloro-2,3-dimethyl-2-butene	37866-06-1	61.532	583.61	1.2222	181.72	583.61	2	298.15	25.67
8010	C6H11Cl	1-chloro-1-hexene	22922-67-4	62.690	583.61	1.2222	181.72	583.61	2	298.15	26.16
8011	C6H11Cl	1-chloro-3-hexene	62706-16-5	62.854	583.61	1.2222	181.72	583.61	2	298.15	26.23
8012	C6H11Cl	2-chloro-1-hexene	10124-73-9	61.663	583.61	1.2222	181.72	583.61	2	298.15	25.73
8013	C6H11Cl	4-chloro-2-hexene	6734-98-1	62.942	583.61	1.2222	181.72	583.61	2	298.15	26.26
8014	C6H11Cl	5-chloro-1-hexene	927-54-8	62.652	583.61	1.2222	181.72	583.61	2	298.15	26.14
8015	C6H11Cl	cis-3-chloro-3-hexene	17226-34-5	62.181	583.61	1.2222	181.72	583.61	2	298.15	25.95
8016	C6H11Cl	3-chloro-2-methyl-1-pentene	4104-01-2	62.690	583.61	1.2222	181.72	583.61	2	298.15	26.16
8017	C6H11Cl	5-chloro-2-methyl-2-pentene	7712-60-9	64.171	583.61	1.2222	181.72	583.61	2	298.15	26.78
8035	C6H11ClO2	butyl chloroacetate	590-02-3	63.114	647.73	1.2222	278.15	485.80	1,2	298.15	29.70
8066	C6H11Cl3	1,1,1-trichlorohexane	17760-40-6	71.190	657.17	1.2222	249.06	657.17	2	298.15	34.00
8071	C6H11F	cis-1-fluoro-1-hexene	66225-46-5	57.386	502.87	1.2222	183.95	502.87	2	298.15	19.13
8072	C6H11F	trans-1-fluoro-1-hexene	66225-47-6	57.386	502.87	1.2222	183.95	502.87	2	298.15	19.13
8077	C6H11F3	1,1,1-trifluorohexane	---	52.656	498.20	1.2222	255.75	498.20	2	298.15	17.26
8080	C6H11I	cis-1-iodo-1-hexene	16538-47-9	61.684	659.87	1.2222	209.86	659.87	2	298.15	29.58
8081	C6H11I	trans-1-iodo-1-hexene	16644-98-7	61.684	659.87	1.2222	209.86	659.87	2	298.15	29.58
8086	C6H11I3	1,1,1-triiodohexane	---	71.464	897.23	1.2222	333.48	897.23	2	333.48	40.50
8088	C6H11N	hexanenitrile	628-73-9	55.631	622.05	1.0856	192.85	622.05	1,2	298.15	27.39
8089	C6H11N	2-methylpentanenitrile	6339-13-5	62.375	605.44	1.2222	206.87	605.44	2	298.15	27.23
8090	C6H11N	2-ethylbutanenitrile	617-80-1	62.658	602.56	1.2222	206.87	602.56	2	298.15	27.20
8091	C6H11N	3-methylpentanenitrile	21101-88-2	61.561	614.09	1.2222	206.87	614.09	2	298.15	27.32
8092	C6H11N	4-methylpentanenitrile	542-54-1	60.803	615.53	1.2222	222.05	615.53	1,2	298.15	27.06
8093	C6H11N	2,2-dimethylbutanenitrile	20654-46-0	63.934	588.30	1.2222	224.29	588.30	2	298.15	26.95
8094	C6H11N	2,3-dimethylbutanenitrile	20654-44-8	64.719	582.40	1.2222	191.87	582.40	2	298.15	26.93
8095	C6H11N	3,3-dimethylbutanenitrile	3302-16-7	62.839	598.54	1.2222	306.15	598.54	2	306.15	26.18
8101	C6H11NO	epsilon-caprolactam	105-60-2	97.007	806.00	1.2222	342.36	806.00	2	342.36	49.35
8102	C6H11NO	cyclohexanone oxime	100-64-1	91.205	715.00	1.2222	363.15	715.00	2	363.15	38.34
8200	C6H12	1-methyl-1-ethylcyclopropane	53778-43-1	56.806	507.94	1.2222	142.95	507.94	2	298.15	19.28
8201	C6H12	1-methyl-cis-2-ethylcyclopropane	19781-68-1	55.299	518.53	1.2222	170.58	518.53	2	298.15	19.43
8202	C6H12	1-methyl-trans-2-ethylcyclopropane	19781-69-2	54.843	505.80	1.2222	170.58	505.80	2	298.15	18.47
8203	C6H12	1,1,2-trimethylcyclopropane	4127-45-1	54.642	504.34	1.2222	134.97	504.34	2	298.15	18.31
8204	C6H12	1,cis-2,cis-3-trimethylcyclopropane	4806-58-0	53.408	520.06	1.2222	154.21	520.06	2	298.15	18.86
8205	C6H12	1,cis-2,trans-3-trimethylcyclopropane	4806-59-1	53.075	510.40	1.2222	154.21	510.40	2	298.15	18.16
8206	C6H12	propylcyclopropane	2415-72-7	58.276	520.15	1.2222	174.82	520.15	2	298.15	20.58
8207	C6H12	isopropylcyclopropane	3638-35-5	55.736	506.65	1.2222	160.22	506.65	2	298.15	18.83
8208	C6H12	1,1-dimethylcyclobutane	---	57.445	514.04	1.2222	195.20	514.04	2	298.15	19.90
8209	C6H12	1,cis-2-dimethylcyclobutane	15679-01-3	55.030	525.83	1.2222	167.06	525.83	2	298.15	19.78
8210	C6H12	1,trans-2-dimethylcyclobutane	15679-02-4	54.596	513.50	1.2222	150.65	513.50	2	298.15	18.88
8211	C6H12	1,cis-3-dimethylcyclobutane	2398-09-6	54.623	514.27	1.2222	167.06	514.27	2	298.15	18.93
8212	C6H12	1,trans-3-dimethylcyclobutane	2398-10-9	54.459	509.64	1.2222	167.06	509.64	2	298.15	18.59
8213	C6H12	ethylcyclobutane	4806-61-5	58.060	528.10	1.2222	130.40	528.10	2	298.15	21.02
8214	C6H12	methylcyclopentane	96-37-7	61.630	532.79	1.2757	130.73	532.79	1,2	298.15	21.65
8215	C6H12	cyclohexane	110-82-7	65.097	553.54	1.2553	279.69	553.54	1,2	298.15	24.65
8216	C6H12	1-hexene	592-41-6	52.174	504.03	1.1952	133.39	504.03	1,2	298.15	17.89
8217	C6H12	2-hexene; (cis+trans)	592-43-8	52.727	506.59	1.2222	175.25	506.59	2	298.15	17.81
8218	C6H12	cis-2-hexene	7688-21-3	51.773	513.00	1.2222	132.00	513.00	2	298.15	17.87
8219	C6H12	trans-2-hexene	4050-45-7	51.572	513.00	1.2222	140.17	513.00	2	298.15	17.80
8220	C6H12	hex-3-ene	592-47-2	52.482	506.59	1.2222	183.25	506.59	2	298.15	17.73
8221	C6H12	cis-3-hexene	7642-09-3	51.980	509.00	1.2222	135.33	509.00	2	298.15	17.70
8222	C6H12	trans-3-hexene	13269-52-8	52.110	509.00	1.2222	159.73	509.00	2	298.15	17.75
8223	C6H12	2-methyl-1-pentene	763-29-1	51.444	507.00	1.2222	137.42	507.00	2	298.15	17.40
8224	C6H12	3-methyl-1-pentene	760-20-3	51.987	495.00	1.2222	120.20	495.00	2	298.15	16.84
8225	C6H12	4-methyl-1-pentene	691-37-2	51.724	496.00	1.2222	119.51	496.00	2	298.15	16.82
8226	C6H12	4-methyl-2-pentene	4461-48-7	50.500	506.59	1.2222	146.05	506.59	2	298.15	17.06

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
8227	C6H12	4-methyl-cis-2-pentene	691-38-3	51.700	499.00	1.2222	138.30	499.00	2	298.15	17.00
8228	C6H12	4-methyl-trans-2-pentene	674-76-0	51.800	501.00	1.2222	132.35	501.00	2	298.15	17.16
8229	C6H12	2-methyl-2-pentene	625-27-4	51.289	514.00	1.2222	138.07	514.00	2	298.15	17.76
8230	C6H12	3-methyl-cis-2-pentene	922-62-3	51.200	515.00	1.2222	138.31	515.00	2	298.15	17.79
8231	C6H12	3-methyl-2-pentene, cis and trans	922-61-2	52.706	506.59	1.2222	143.92	506.59	2	298.15	17.80
8232	C6H12	3-methyl-trans-2-pentene	616-12-6	50.759	521.00	1.2222	134.70	521.00	2	298.15	17.98
8233	C6H12	2,3-dimethyl-1-butene	563-78-0	51.348	500.00	1.2222	115.89	500.00	2	298.15	16.94
8234	C6H12	2,3-dimethyl-2-butene	563-79-1	50.811	524.00	1.2222	198.82	524.00	2	298.15	18.16
8235	C6H12	3,3-dimethyl-1-butene	558-37-2	52.119	480.00	1.2222	157.95	480.00	2	298.15	15.91
8236	C6H12	2-ethyl-1-butene	760-21-4	51.101	512.00	1.2222	141.61	512.00	2	298.15	17.58
8245	C6H12Br2	1,1-dibromohexane	58133-26-9	76.742	684.21	1.2222	261.48	684.21	2	298.15	38.13
8246	C6H12Br2	1,2-dibromo-2,3-dimethylbutane	29916-45-8	77.031	684.21	1.2222	301.65	684.21	2	301.65	37.85
8247	C6H12Br2	1,4-dibromo-2,3-dimethylbutane	54462-70-3	77.031	684.21	1.2222	301.65	684.21	2	301.65	37.85
8248	C6H12Br2	2,3-dibromo-2,3-dimethylbutane	594-81-0	77.031	684.21	1.2222	435.15	684.21	2	435.15	22.40
8249	C6H12Br2	1,2-dibromohexane	624-20-4	77.031	684.21	1.2222	301.65	684.21	2	301.65	37.85
8250	C6H12Br2	1,4-dibromohexane	25118-28-9	77.031	684.21	1.2222	301.65	684.21	2	301.65	37.85
8251	C6H12Br2	1,5-dibromohexane	627-96-3	77.031	684.21	1.2222	301.65	684.21	2	301.65	37.85
8252	C6H12Br2	1,6-dibromohexane	629-03-8	81.169	684.21	1.2222	271.95	684.21	1,2	298.15	40.33
8253	C6H12Br2	2,3-dibromohexane	6423-02-5	76.583	684.21	1.2222	301.65	684.21	2	301.65	37.63
8254	C6H12Br2	2,5-dibromohexane, (R*,R**)-(±)-	54462-68-9	77.031	684.21	1.2222	228.51	684.21	2	298.15	38.27
8255	C6H12Br2	1,2-dibromo-3,3-dimethylbutane	640-21-1	77.031	684.21	1.2222	301.65	684.21	2	301.65	37.85
8256	C6H12Br2	3,4-dibromohexane	16230-28-7	77.031	684.21	1.2222	301.65	684.21	2	301.65	37.85
8257	C6H12Br2	2,5-dibromohexane	24774-58-1	76.901	684.21	1.2222	311.15	684.21	2	311.15	36.64
8258	C6H12Br2	1,5-dibromo-3-methylpentane	4457-72-1	77.031	684.21	1.2222	301.65	684.21	2	301.65	37.85
8273	C6H12Cl2	1,1-dichlorohexane	62017-16-7	75.623	633.09	1.2222	201.72	633.09	2	298.15	34.73
8274	C6H12Cl2	1,2-dichlorohexane	2162-92-7	76.651	633.09	1.2222	217.32	633.09	2	298.15	35.20
8275	C6H12Cl2	1,6-dichlorohexane	2163-00-0	78.365	633.09	1.2222	217.32	633.09	1,2	298.15	35.99
8276	C6H12Cl2	2,2-dichlorohexane	42131-89-5	76.492	633.09	1.2222	217.32	633.09	2	298.15	35.13
8277	C6H12Cl2	2,3-dichlorohexane	54305-87-2	75.564	633.09	1.2222	217.32	633.09	2	298.15	34.70
8278	C6H12Cl2	2,5-dichlorohexane, (R*,R*)-(±)-	41761-12-0	77.094	633.09	1.2222	235.15	633.09	2	298.15	35.41
8279	C6H12Cl2	1,1-dichloro-3,3-dimethylbutane	6130-96-7	73.674	633.09	1.2222	215.10	633.09	2	298.15	33.84
8280	C6H12Cl2	hexane, 2,5-dichloro-, (R*,S*)-	41761-11-9	76.492	633.09	1.2222	217.32	633.09	2	298.15	35.13
8281	C6H12Cl2	2,2-dichloro-3,3-dimethylbutane	594-84-3	76.492	633.09	1.2222	217.32	633.09	2	298.15	35.13
8298	C6H12F2	1,1-difluorohexane	62127-41-7	57.193	529.00	1.2222	206.18	529.00	2	298.15	20.76
8305	C6H12I2	1,1-diiodohexane	66225-50-1	83.016	762.60	1.2222	258.00	762.60	2	298.15	45.28
8306	C6H12I2	1,6-diiodohexane	629-09-4	81.560	762.60	1.2222	282.65	762.60	1,2	298.15	44.49
8315	C6H12N2	triethylenediamine	280-57-9	78.085	655.00	1.2222	434.25	655.00	2	434.25	20.67
8394	C6H12O	butyl vinyl ether	111-34-2	58.810	536.00	1.2222	181.25	536.00	2	298.15	21.79
8395	C6H12O	sec-butyl vinyl ether	1888-85-3	51.433	536.00	1.2222	167.85	536.00	2	298.15	19.05
8396	C6H12O	tert-butyl vinyl ether	926-02-3	48.326	536.00	1.2222	161.15	536.00	2	298.15	17.90
8397	C6H12O	isobutyl vinyl ether	109-53-5	52.514	536.00	1.2222	161.15	536.00	2	298.15	19.45
8398	C6H12O	3-(1-methylethoxy)-1-propene	6140-80-3	52.788	536.00	1.2222	167.85	536.00	2	298.15	19.56
8399	C6H12O	3-propoxy-1-propene	1471-03-0	57.093	536.00	1.2222	167.85	536.00	2	298.15	21.15
8400	C6H12O	cyclohexanol	108-93-0	65.400	625.15	1.0360	296.60	625.15	1,2	298.15	33.42
8401	C6H12O	hexanal	66-25-1	64.252	579.00	1.2222	217.15	579.00	2	298.15	26.54
8402	C6H12O	2-methylpentanal	123-15-9	64.274	569.05	1.2222	183.88	569.05	2	298.15	25.95
8403	C6H12O	3-methylpentanal	15877-57-3	63.842	576.34	1.2222	183.88	576.34	2	298.15	26.21
8404	C6H12O	4-methylpentanal	1119-16-0	63.842	576.34	1.2222	183.88	576.34	2	298.15	26.21
8405	C6H12O	2-ethylbutanal	97-96-1	64.291	568.76	1.2222	184.15	568.76	2	298.15	25.93
8406	C6H12O	2,2-dimethylbutanal	2094-75-9	64.080	558.82	1.2222	201.30	558.82	2	298.15	25.23
8407	C6H12O	2,3-dimethylbutanal	2109-98-0	63.953	567.64	1.2222	168.88	567.64	2	298.15	25.73
8408	C6H12O	3,3-dimethylbutanal	2987-16-8	64.080	558.82	1.2222	201.30	558.82	2	298.15	25.23
8409	C6H12O	2-hexanone	591-78-6	56.500	587.05	1.1345	217.35	587.05	1,2	298.15	25.28
8410	C6H12O	3-hexanone	589-38-8	57.740	582.82	1.1689	217.50	582.82	1,2	298.15	24.99
8411	C6H12O	3-methyl-2-pentanone	565-61-7	59.480	579.90	1.2222	167.15	579.90	2	298.15	24.62
8412	C6H12O	4-methyl-2-pentanone	108-10-1	57.130	571.40	1.2040	189.15	571.40	1,2	298.15	23.50
8413	C6H12O	ethyl isopropyl ketone	565-69-5	61.053	567.00	1.2222	191.81	567.00	2	298.15	24.53
8414	C6H12O	3,3-dimethyl-2-butanone	75-97-8	60.014	571.50	1.2222	221.15	571.50	2	298.15	24.37
8415	C6H12O	3-methyl-2-pentanone, (±)	55156-16-6	59.928	576.61	1.2222	200.69	576.61	2	298.15	24.62
8416	C6H12O	2-ethyltetrahydrofuran	1003-30-1	63.810	580.07	1.2222	170.82	580.07	2	298.15	26.42
8417	C6H12O	3-ethyltetrahydrofuran	93716-28-0	64.197	590.70	1.2222	170.82	590.70	2	298.15	27.20
8418	C6H12O	2,2-dimethyltetrahydrofuran	1003-17-4	63.190	563.41	1.2222	159.15	563.41	2	298.15	25.17
8419	C6H12O	2,3-dimethyltetrahydrofuran	---	59.985	563.40	1.2222	154.45	563.40	2	298.15	23.89
8420	C6H12O	2,4-dimethyltetrahydrofuran	64265-26-5	60.026	564.54	1.2222	154.45	564.54	2	298.15	23.97
8421	C6H12O	2,5-dimethyltetrahydrofuran	1003-38-9	59.749	556.78	1.2222	154.45	556.78	2	298.15	23.41
8422	C6H12O	3,3-dimethyltetrahydrofuran	15833-75-7	63.580	573.90	1.2222	154.45	573.90	2	298.15	25.96
8423	C6H12O	3,4-dimethyltetrahydrofuran	32970-37-9	60.609	581.14	1.2222	154.45	581.14	2	298.15	25.15
8425	C6H12O	1-hexen-3-ol	4798-44-1	59.141	587.00	1.2222	200.00	587.00	2	298.15	24.86
8426	C6H12O	cis-2-hexen-1-ol	928-94-9	62.361	587.00	1.2222	200.00	587.00	2	298.15	26.21
8427	C6H12O	trans-2-hexen-1-ol	928-95-0	62.361	587.00	1.2222	200.00	587.00	2	298.15	26.21
8428	C6H12O	cis-3-hexen-1-ol	928-96-1	62.295	587.00	1.2222	200.00	587.00	2	298.15	26.18
8429	C6H12O	trans-4-hexen-1-ol	928-92-7	62.625	587.00	1.2222	200.00	587.00	2	298.15	26.32
8430	C6H12O	4-hexen-2-ol	52387-50-5	59.653	587.00	1.2222	200.00	587.00	2	298.15	25.07
8431	C6H12O	5-hexen-2-ol	626-94-8	59.870	587.00	1.2222	200.00	587.00	2	298.15	25.17
8432	C6H12O	2-methyl-2-penten-1-ol	1610-29-3	63.719	587.00	1.2222	200.00	587.00	2	298.15	26.78
8433	C6H12O	2-methyl-3-penten-2-ol	63468-05-3	55.745	587.00	1.2222	200.00	587.00	2	298.15	23.43
8434	C6H12O	2-methyl-4-penten-2-ol	624-97-5	42.205	587.00	0.8000	200.15	587.00	2	298.15	23.93
8435	C6H12O	3-methyl-3-penten-2-ol	2747-53-7	60.014	587.00	1.2222	200.00	587.00	2	298.15	25.23
8436	C6H12O	3-methyl-4-penten-2-ol	1569-59-1	57.865	587.00	1.2222	200.00	587.00	2	298.15	24.32
8437	C6H12O	4-methyl-2-penten-1-ol	5362-55-0	62.625	587.00	1.2222	200.00	587.00	2	298.15	26.32

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
8438	C6H12O	4-methyl-3-penten-2-ol	4325-82-0	59.141	587.00	1.2222	200.00	587.00	2	298.15	24.86
8439	C6H12O	4-methyl-3-pentenol	763-89-3	62.361	587.00	1.2222	200.00	587.00	2	298.15	26.21
8440	C6H12O	4-methyl-4-penten-2-ol	2004-67-3	58.396	587.00	1.2222	200.00	587.00	2	298.15	24.55
8441	C6H12O	1-methylcyclopentanol	1462-03-9	69.307	587.00	1.2222	200.00	587.00	1,2	298.15	29.13
8442	C6H12O	3-methylcyclopentanol	18729-48-1	65.790	587.00	1.2222	200.00	587.00	1,2	298.15	27.65
8449	C6H12O	5-hexen-1-ol	821-41-0	61.065	587.00	1.2222	200.00	587.00	2	298.15	25.67
8450	C6H12O	trans-3-hexen-1-ol	928-97-2	57.181	587.00	1.2222	200.00	587.00	2	298.15	24.04
8451	C6H12O	3-methyl-1-penten-3-ol	918-85-4	56.623	587.00	1.2222	200.00	587.00	2	298.15	23.80
8453	C6H12O	2,2-dimethyl-3-butanone	75-97-8	60.124	576.61	1.2222	200.69	576.61	2	298.15	24.70
8460	C6H12O2	hexanoic acid	142-62-1	55.663	667.00	1.2222	270.15	667.00	2	298.15	26.98
8461	C6H12O2	2-ethyl butyric acid	88-09-5	56.039	655.00	1.2222	258.15	655.00	2	298.15	26.68
8462	C6H12O2	tert-butylacetic acid	1070-83-3	55.320	661.00	1.2222	279.65	661.00	2	298.15	26.58
8463	C6H12O2	2,2-dimethylbutanoic acid	595-37-9	55.106	661.00	1.2222	259.15	661.00	2	298.15	26.48
8464	C6H12O2	2,3-dimethylbutanoic acid	14287-61-7	55.411	661.00	1.2222	272.35	661.00	2	298.15	26.62
8465	C6H12O2	2-methylpentanoic acid, (±)	22160-39-0	55.620	661.00	1.2222	255.35	661.00	2	298.15	26.72
8466	C6H12O2	3-methylpentanoic acid, (±)	22160-40-3	55.722	661.00	1.2222	231.55	661.00	2	298.15	26.77
8467	C6H12O2	4-methylpentanoic acid	646-07-1	55.884	661.00	1.2222	240.15	661.00	2	298.15	26.85
8468	C6H12O2	pentyl formate	638-49-3	58.344	576.00	1.1332	199.65	576.00	1,2	298.15	25.54
8469	C6H12O2	1-methylbutyl formate	58368-66-4	61.556	574.00	1.2222	200.58	574.00	2	298.15	25.14
8470	C6H12O2	2-methylbutyl formate	35073-27-9	61.136	577.00	1.2222	200.58	577.00	2	298.15	25.14
8471	C6H12O2	isopentyl formate	110-45-2	61.575	578.00	1.2222	179.65	578.00	2	298.15	25.37
8472	C6H12O2	1-ethylpropyl formate	58368-67-5	60.861	579.00	1.2222	200.58	579.00	2	298.15	25.14
8473	C6H12O2	1,1-dimethylpropyl formate	757-88-0	60.734	570.00	1.2222	218.00	570.00	2	298.15	24.57
8474	C6H12O2	1,2-dimethylpropyl formate	66794-46-5	61.624	573.00	1.2222	185.58	573.00	2	298.15	25.11
8475	C6H12O2	2,2-dimethylpropyl formate	23361-67-3	60.945	575.00	1.2222	218.00	575.00	2	298.15	24.94
8476	C6H12O2	butyl acetate	123-86-4	59.720	579.65	1.2180	199.65	579.65	1,2	298.15	24.78
8477	C6H12O2	isobutyl acetate	110-19-0	54.690	561.00	1.1440	174.30	561.00	1,2	298.15	22.97
8478	C6H12O2	sec-butyl acetate	105-46-4	58.720	561.00	1.2327	174.15	561.00	1,2	298.15	23.06
8479	C6H12O2	tert-butyl acetate	540-88-5	59.209	545.00	1.2222	201.63	545.00	1,2	298.15	22.49
8480	C6H12O2	propyl propanoate	106-36-5	59.950	578.00	1.2512	197.25	578.00	1,2	298.15	24.19
8481	C6H12O2	isopropyl propanoate	637-78-5	60.045	553.00	1.2222	184.21	553.00	2	298.15	23.30
8482	C6H12O2	ethyl butanoate	105-54-4	57.850	571.00	1.1950	175.15	571.00	1,2	298.15	23.94
8483	C6H12O2	ethyl isobutanoate	97-62-1	57.440	553.15	1.1991	185.00	553.15	1,2	298.15	22.70
8484	C6H12O2	cyclohexyl peroxide	766-07-4	102.483	685.00	1.2222	253.15	685.00	2	298.15	50.98
8485	C6H12O2	diacetone alcohol	123-42-2	90.592	606.00	1.2222	229.15	606.00	2	298.15	39.59
8497	C6H12O2	methyl 2,2-dimethylpropanoate	598-98-1	56.657	565.50	1.2222	190.73	565.50	2	298.15	22.68
8498	C6H12O2	methyl isopentanoate	556-24-1	59.504	572.95	1.2222	173.85	572.95	1,2	298.15	24.24
8499	C6H12O2	methyl pentanoate	624-24-8	63.235	572.95	1.2222	173.85	572.95	1,2	298.15	25.76
8513	C6H12O2	methyl 2-methylbutyrate	868-57-5	56.951	572.95	1.2222	173.85	572.95	1,2	298.15	23.20
8514	C6H12O2	(±)-3-methylvaleric acid	105-43-1	55.639	661.00	1.2222	231.65	661.00	2	298.15	26.73
8515	C6H12O2	2-methylvaleric acid	97-61-0	53.855	661.00	1.2222	255.35	661.00	2	298.15	25.87
8531	C6H12O3	2-ethoxyethyl acetate	111-15-9	58.335	597.00	1.2222	211.45	597.00	2	298.15	25.04
8532	C6H12O3	hydroxycaproic acid	1191-25-9	119.793	758.00	1.2222	334.00	758.00	2	334.00	58.89
8533	C6H12O3	paraldehyde	123-63-7	62.800	579.00	1.2400	285.75	579.00	1,2	298.15	25.61
8621	C6H12S	thiacycloheptane	4753-80-4	94.238	640.07	1.2222	292.14	640.07	2	298.15	43.79
8622	C6H12S	2-ethylthiacyclopentane	1551-32-2	64.553	659.28	1.2222	251.23	659.28	2	298.15	30.93
8623	C6H12S	3-ethylthiacyclopentane	62184-67-2	64.950	671.54	1.2222	251.23	671.54	2	298.15	31.70
8624	C6H12S	2,2-dimethylthiacyclopentane	5161-75-1	63.300	623.18	1.2222	275.13	623.18	2	298.15	28.57
8625	C6H12S	2,cis-3-dimethylthiacyclopentane	5161-77-3	59.610	607.56	1.2222	246.99	607.56	2	298.15	26.13
8626	C6H12S	2,trans-3-dimethylthiacyclopentane	5161-78-4	59.610	607.56	1.2222	246.99	607.56	2	298.15	26.13
8627	C6H12S	2,cis-4-dimethylthiacyclopentane	5161-79-5	59.610	607.56	1.2222	246.99	607.56	2	298.15	26.13
8628	C6H12S	2,trans-4-dimethylthiacyclopentane	5161-80-8	59.610	607.56	1.2222	246.99	607.56	2	298.15	26.13
8629	C6H12S	2,cis-5-dimethylthiacyclopentane	5161-13-7	60.626	639.17	1.2222	183.75	639.17	2	298.15	28.13
8630	C6H12S	2,trans-5-dimethylthiacyclopentane	5161-14-8	60.600	638.36	1.2222	196.80	638.36	2	298.15	28.08
8631	C6H12S	3,3-dimethylthiacyclopentane	5161-76-2	63.300	623.18	1.2222	275.13	623.18	2	298.15	28.57
8632	C6H12S	3,cis-4-dimethylthiacyclopentane	5161-11-5	59.610	607.56	1.2222	246.99	607.56	2	298.15	26.13
8633	C6H12S	3,trans-4-dimethylthiacyclopentane	5161-12-6	59.610	607.56	1.2222	246.99	607.56	2	298.15	26.13
8634	C6H12S	2-methylthiacyclohexane	5161-16-0	64.046	660.59	1.2222	215.01	660.59	2	298.15	30.75
8635	C6H12S	3-methylthiacyclohexane	5258-50-4	64.296	668.34	1.2222	212.98	668.34	2	298.15	31.23
8636	C6H12S	4-methylthiacyclohexane	5161-17-1	64.326	669.27	1.2222	245.05	669.27	2	298.15	31.29
8647	C6H13Br	1-bromohexane	111-25-1	61.698	623.86	1.2222	188.45	623.86	1,2	298.15	27.88
8648	C6H13Br	2-bromohexane	3377-86-4	60.437	612.00	1.2222	201.68	612.00	2	298.15	26.72
8649	C6H13Br	3-bromohexane	3377-87-5	60.734	608.18	1.2222	201.68	608.18	2	298.15	26.66
8650	C6H13Br	1-bromo-2-methylpentane	25346-33-2	60.426	612.15	1.2222	201.68	612.15	2	298.15	26.72
8651	C6H13Br	1-bromo-3-methylpentane	51116-73-5	59.987	618.02	1.2222	201.68	618.02	2	298.15	26.82
8652	C6H13Br	1-bromo-4-methylpentane	626-88-0	60.094	616.55	1.2222	201.68	616.55	2	298.15	26.80
8653	C6H13Br	2-bromo-2-methylpentane	4283-80-1	62.305	595.92	1.2222	219.10	595.92	2	298.15	26.68
8654	C6H13Br	2-bromo-3-methylpentane	62168-41-6	61.694	594.59	1.2222	186.68	594.59	2	298.15	26.35
8655	C6H13Br	2-bromo-4-methylpentane	30310-22-6	61.409	597.83	1.2222	178.95	597.83	2	298.15	26.40
8656	C6H13Br	3-bromo-2-methylpentane	4283-83-4	61.694	594.59	1.2222	186.68	594.59	2	298.15	26.35
8657	C6H13Br	3-bromo-3-methylpentane	25346-31-0	61.592	595.92	1.2222	180.95	595.92	2	298.15	26.38
8658	C6H13Br	1-bromo-2,2-dimethylbutane	62168-42-7	61.267	601.65	1.2222	201.68	601.65	2	298.15	26.55
8659	C6H13Br	1-bromo-2,3-dimethylbutane	30540-31-9	59.757	616.11	1.2222	219.10	616.11	2	298.15	26.62
8660	C6H13Br	1-bromo-3,3-dimethylbutane	1647-23-0	60.668	606.70	1.2222	186.68	606.70	2	298.15	26.55
8661	C6H13Br	2-bromo-2,3-dimethylbutane	594-52-5	61.762	595.92	1.2222	298.15	595.92	2	298.15	26.45
8662	C6H13Br	2-bromo-3,3-dimethylbutane	26356-06-9	60.087	609.30	1.2222	298.15	609.30	2	298.15	26.43
8663	C6H13Br	1-bromo-2-ethylbutane	3814-34-4	58.840	626.30	1.2222	204.10	626.30	2	298.15	26.70
8669	C6H13Cl	1-chlorohexane	544-10-5	61.233	596.19	1.2222	179.15	596.19	1,2	298.15	26.24
8670	C6H13Cl	2-chlorohexane	638-28-8	59.714	584.57	1.2222	171.80	584.57	2	298.15	24.97
8671	C6H13Cl	3-chlorohexane	2346-81-8	59.788	583.10	1.2222	171.80	583.10	2	298.15	24.92

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n							(sigma - dynes/cm, T - K)	
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
8672	C6H13Cl	1-chloro-2-methylpentane	14753-05-0	60.013	578.68	1.2222	171.80	578.68	2	298.15	24.77
8673	C6H13Cl	1-chloro-3-methylpentane	62016-93-7	59.359	591.93	1.2222	171.80	591.93	2	298.15	25.21
8674	C6H13Cl	1-chloro-4-methylpentane	62016-94-8	59.642	586.04	1.2222	171.80	586.04	2	298.15	25.02
8675	C6H13Cl	2-chloro-2-methylpentane	4325-48-8	59.394	575.46	1.2222	189.22	575.46	2	298.15	24.34
8676	C6H13Cl	2-chloro-3-methylpentane	24319-09-3	60.429	563.86	1.2222	156.80	563.86	2	298.15	24.09
8677	C6H13Cl	2-chloro-4-methylpentane	25346-32-1	59.922	572.99	1.2222	156.80	572.99	2	298.15	24.41
8678	C6H13Cl	3-chloro-2-methylpentane	38384-05-3	60.014	571.28	1.2222	156.80	571.28	2	298.15	24.35
8679	C6H13Cl	3-chloro-3-methylpentane	918-84-3	59.061	582.19	1.2222	189.22	582.19	2	298.15	24.57
8680	C6H13Cl	1-chloro-2-ethylbutane	4737-41-1	59.570	587.51	1.2222	171.80	587.51	2	298.15	25.07
8681	C6H13Cl	1-chloro-2,2-dimethylbutane	6366-35-4	58.989	583.68	1.2222	189.22	583.68	2	298.15	24.62
8682	C6H13Cl	1-chloro-2,3-dimethylbutane	600-06-6	59.249	586.34	1.2222	156.80	586.34	2	298.15	24.87
8683	C6H13Cl	1-chloro-3,3-dimethylbutane	2855-08-5	58.989	583.68	1.2222	189.22	583.68	2	298.15	24.62
8684	C6H13Cl	2-chloro-2,3-dimethylbutane	594-57-0	58.702	581.14	1.2222	262.75	581.14	2	298.15	24.36
8685	C6H13Cl	2-chloro-3,3-dimethylbutane	5750-00-5	58.774	579.63	1.2222	272.25	579.63	2	298.15	24.31
8705	C6H13F	1-fluorohexane	373-14-8	59.148	528.10	1.2222	170.15	528.10	1,2	298.15	21.41
8706	C6H13F	2-fluorohexane	372-54-3	56.521	528.59	1.2222	169.15	528.59	2	298.15	20.49
8707	C6H13F	3-fluorohexane	52688-75-2	56.531	523.73	1.2222	169.15	523.73	2	298.15	20.19
8708	C6H13F	1-fluoro-2-methylpentane	62127-27-9	56.536	522.41	1.2222	174.03	522.41	2	298.15	20.11
8709	C6H13F	1-fluoro-3-methylpentane	62127-28-0	56.520	529.76	1.2222	174.03	529.76	2	298.15	20.56
8710	C6H13F	1-fluoro-4-methylpentane	62127-29-1	56.527	525.35	1.2222	174.03	525.35	2	298.15	20.29
8711	C6H13F	2-fluoro-2-methylpentane	62127-30-4	55.088	523.26	1.2222	191.45	523.26	2	298.15	19.65
8712	C6H13F	2-fluoro-3-methylpentane	62127-31-5	55.828	519.00	1.2222	159.03	519.00	2	298.15	19.65
8713	C6H13F	2-fluoro-4-methylpentane	62127-32-6	55.828	519.00	1.2222	159.03	519.00	2	298.15	19.65
8714	C6H13F	3-fluoro-2-methylpentane	62127-33-7	55.877	511.81	1.2222	159.03	511.81	2	298.15	19.21
8715	C6H13F	3-fluoro-3-methylpentane	19031-61-9	55.169	508.31	1.2222	191.45	508.31	2	298.15	18.74
8716	C6H13F	1-fluoro-2,2-dimethylbutane	62127-34-8	56.583	514.83	1.2222	174.03	514.83	2	298.15	19.65
8717	C6H13F	1-fluoro-2,3-dimethylbutane	62127-35-9	55.089	529.46	1.2222	191.45	529.46	2	298.15	20.02
8718	C6H13F	1-fluoro-3,3-dimethylbutane	371-64-2	55.837	517.29	1.2222	159.03	517.29	2	298.15	19.54
8719	C6H13F	2-fluoro-2,3-dimethylbutane	354-09-6	55.169	508.31	1.2222	191.45	508.31	2	298.15	18.74
8720	C6H13F	2-fluoro-3,3-dimethylbutane	92089-78-6	54.347	517.40	1.2222	176.45	517.40	2	298.15	19.03
8721	C6H13F	1-fluoro-2-ethylbutane	---	54.482	501.01	1.2222	176.45	501.01	2	298.15	18.04
8724	C6H13I	1-iodohexane	638-45-9	66.097	625.21	1.2222	198.95	625.21	1,2	298.15	29.94
8725	C6H13I	2-iodohexane	59654-13-6	66.872	611.98	1.2222	199.94	611.98	2	298.15	29.56
8726	C6H13I	3-iodohexane	31294-91-4	67.024	610.59	1.2222	199.94	610.59	2	298.15	29.55
8727	C6H13I	1-iodo-2-methylpentane	31294-94-7	67.024	610.59	1.2222	199.94	610.59	2	298.15	29.55
8728	C6H13I	1-iodo-3-methylpentane	24346-53-0	66.136	618.90	1.2222	199.94	618.90	2	298.15	29.62
8729	C6H13I	1-iodo-4-methylpentane	6196-80-1	66.265	617.65	1.2222	199.94	617.65	2	298.15	29.61
8730	C6H13I	2-iodo-2-methylpentane	31294-95-8	68.342	597.98	1.2222	217.36	597.98	2	298.15	29.39
8731	C6H13I	2-iodo-3-methylpentane	24319-07-1	68.476	597.44	1.2222	184.94	597.44	2	298.15	29.42
8732	C6H13I	2-iodo-4-methylpentane	31294-96-9	68.273	599.13	1.2222	184.94	599.13	2	298.15	29.43
8733	C6H13I	3-iodo-2-methylpentane	31294-97-0	68.476	597.44	1.2222	184.94	597.44	2	298.15	29.42
8734	C6H13I	3-iodo-3-methylpentane	24319-05-2	68.342	597.98	1.2222	217.36	597.98	2	298.15	29.39
8735	C6H13I	1-iodo-2,2-dimethylbutane	31294-98-1	68.931	594.30	1.2222	199.94	594.30	2	298.15	29.42
8736	C6H13I	1-iodo-2,3-dimethylbutane	31295-00-8	66.495	614.19	1.2222	217.36	614.19	2	298.15	29.52
8737	C6H13I	1-iodo-3,3-dimethylbutane	15672-88-5	67.301	607.49	1.2222	184.94	607.49	2	298.15	29.50
8738	C6H13I	2-iodo-2,3-dimethylbutane	594-59-2	68.342	597.98	1.2222	217.36	597.98	2	298.15	29.39
8739	C6H13I	2-iodo-3,3-dimethylbutane	24556-56-7	67.055	608.43	1.2222	202.36	608.43	2	298.15	29.44
8740	C6H13I	1-iodo-2-ethylbutane	---	65.842	619.72	1.2222	202.36	619.72	2	298.15	29.53
8742	C6H13N	cyclohexylamine	108-91-8	69.090	615.00	1.2045	255.45	615.00	1,2	298.15	31.08
8745	C6H13N	hexamethyleneimine	111-49-9	72.990	615.00	1.2222	236.15	615.00	2	298.15	32.45
8753	C6H13N	1-methylpiperidine	626-67-5	74.909	539.81	1.2222	170.45	404.86	2	298.15	28.05
8754	C6H13N	2-methylpiperidine, (±)	3000-79-1	71.127	555.43	1.2222	270.65	416.57	2	298.15	27.77
8755	C6H13N	3-methylpiperidine, (±)	53152-98-0	68.799	566.08	1.2222	249.15	424.56	2	298.15	27.58
8756	C6H13N	4-methylpiperidine	626-58-4	67.489	572.47	1.2222	241.46	429.35	2	298.15	27.46
8759	C6H13N	2-methylpiperidine	109-05-7	70.805	556.85	1.2222	269.45	417.64	2	298.15	27.74
8760	C6H13N	(S)-(+)-2-methylpiperidine	3197-42-0	70.805	556.85	1.2222	241.46	417.64	2	298.15	27.74
8761	C6H13N	3-methylpiperidine	626-56-2	69.099	564.66	1.2222	247.60	423.50	2	298.15	27.60
8790	C6H13NO2	1-nitrohexane	646-14-0	61.643	659.32	1.2222	300.49	659.32	1,2	300.49	29.31
8791	C6H13NO2	2-nitrohexane	14255-44-8	63.900	639.00	1.2222	285.49	639.00	2	298.15	29.64
8792	C6H13NO2	3-nitrohexane	7286-40-0	63.900	639.00	1.2222	285.49	639.00	2	298.15	29.64
8793	C6H13NO2	1-nitro-2-methylpentane	---	64.296	634.51	1.2222	285.49	634.51	2	298.15	29.60
8794	C6H13NO2	1-nitro-3-methylpentane	---	64.296	634.51	1.2222	285.49	634.51	2	298.15	29.60
8795	C6H13NO2	1-nitro-4-methyl pentane	---	64.296	634.51	1.2222	285.49	634.51	2	298.15	29.60
8796	C6H13NO2	2-nitro-2-methylpentane	---	63.319	643.67	1.2222	302.91	643.67	2	302.91	29.10
8797	C6H13NO2	2-nitro-3-methylpentane	42202-42-6	64.166	634.96	1.2222	270.49	634.96	2	298.15	29.56
8798	C6H13NO2	2-nitro-4-methylpentane	---	64.185	634.74	1.2222	270.49	634.74	2	298.15	29.56
8799	C6H13NO2	3-nitro-2-methylpentane	---	64.185	634.74	1.2222	270.49	634.74	2	298.15	29.56
8800	C6H13NO2	3-nitro-3-methylpentane	---	63.689	639.34	1.2222	302.91	639.34	2	302.91	29.06
8801	C6H13NO2	1-nitro-2,2-dimethylbutane	2625-29-8	63.796	638.11	1.2222	302.91	638.11	2	302.91	29.05
8802	C6H13NO2	1-nitro-2,3-dimethylbutane	66553-34-2	63.420	643.56	1.2222	270.49	643.56	2	298.15	29.64
8803	C6H13NO2	1-nitro-3,3-dimethylbutane	---	63.441	642.23	1.2222	302.91	642.23	2	302.91	29.09
8804	C6H13NO2	2-nitro-2,3-dimethylbutane	34075-28-0	63.287	642.93	1.2222	280.15	642.93	2	298.15	29.55
8805	C6H13NO2	2-nitro-3,3-dimethylbutane	599-02-0	64.048	634.21	1.2222	313.15	634.21	2	313.15	27.87
8806	C6H13NO2	1-nitro-2-ethylbutane	---	64.424	633.09	1.2222	285.49	633.09	2	298.15	29.59
8877	C6H14	hexane	110-54-3	56.081	507.43	1.2843	177.84	507.43	1,2	298.15	17.98
8878	C6H14	2,2-dimethylbutane	75-83-2	47.567	488.78	1.1708	174.28	488.78	1,2	298.15	15.80
8879	C6H14	2,3-dimethylbutane	79-29-8	50.185	499.98	1.2019	145.19	499.98	1,2	298.15	16.87
8880	C6H14	2-methylpentane	107-83-5	50.054	497.50	1.1892	119.55	497.50	1,2	298.15	16.87
8881	C6H14	3-methylpentane	96-14-0	53.437	504.43	1.2432	110.25	504.43	1,2	298.15	17.58
8944	C6H14N2O2	lysine	56-87-1	111.686	821.00	1.2222	483.00	821.00	2	483.00	37.75

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
8970	C6H14O	1-hexanol	111-27-3	44.759	611.35	0.8000	228.55	611.35	2	298.15	26.21
8971	C6H14O	2-hexanol	626-93-7	44.524	586.20	0.8000	223.00	586.20	2	298.15	25.22
8972	C6H14O	3-hexanol	623-37-0	44.480	579.30	0.8000	202.70	579.30	2	298.15	24.95
8973	C6H14O	2-methyl-1-pentanol	105-30-6	45.646	582.00	0.8000	202.70	582.00	2	298.15	25.70
8974	C6H14O	3-methyl-1-pentanol	589-35-5	44.778	603.20	0.8000	202.70	603.20	2	298.15	25.95
8975	C6H14O	4-methyl-1-pentanol	626-89-1	44.702	603.50	0.8000	202.70	603.50	2	298.15	25.92
8976	C6H14O	4-methyl-2-pentanol	108-11-2	44.392	574.40	0.8000	183.15	574.40	2	298.15	24.72
8977	C6H14O	2-methyl-2-pentanol	590-36-3	44.230	559.50	0.8000	171.15	559.50	2	298.15	24.06
8978	C6H14O	3-methyl-2-pentanol	565-60-6	44.434	578.00	0.8000	187.70	578.00	2	298.15	24.87
8979	C6H14O	2-methyl-3-pentanol	565-67-3	44.484	564.40	0.8000	187.70	564.40	2	298.15	24.39
8980	C6H14O	3-methyl-3-pentanol	77-74-7	44.143	562.40	0.8000	249.55	562.40	2	298.15	24.12
8981	C6H14O	2-ethyl-1-butanol	97-95-0	45.622	580.00	0.8000	158.75	580.00	2	298.15	25.61
8982	C6H14O	2,2-dimethyl-1-butanol	1185-33-7	44.019	589.00	0.8000	220.12	589.00	2	298.15	25.03
8983	C6H14O	2,3-dimethyl-1-butanol	19550-30-2	44.686	599.00	0.8000	187.70	599.00	2	298.15	25.76
8984	C6H14O	2,3-dimethyl-1-butanol, (±)-	20281-85-0	45.294	581.80	0.8000	213.40	581.80	2	298.15	25.49
8985	C6H14O	3,3-dimethyl-1-butanol	624-95-3	44.765	587.60	0.8000	213.15	587.60	2	298.15	25.41
8986	C6H14O	2,3-dimethyl-2-butanol	594-60-5	43.546	564.40	0.8000	262.75	564.40	2	298.15	23.87
8987	C6H14O	3,3-dimethyl-2-butanol	464-07-3	43.577	566.40	0.8000	278.45	566.40	2	298.15	23.97
8988	C6H14O	3,3-dimethyl-2-butanol, (±)	20281-91-8	42.624	581.80	0.8000	278.75	581.80	2	298.15	23.99
8989	C6H14O	(RS)-2-hexanol	20281-86-1	44.817	581.80	0.8000	213.40	581.80	2	298.15	25.23
8990	C6H14O	2-hexanol, (R)	26549-24-6	44.493	581.80	0.8000	213.40	581.80	2	298.15	25.04
8991	C6H14O	3-hexanol, (R)	13471-42-6	44.275	581.80	0.8000	213.40	581.80	2	298.15	24.92
8992	C6H14O	3-methyl-1-pentanol, (±)	20281-83-8	46.169	581.80	0.8000	213.40	581.80	2	298.15	25.99
8993	C6H14O	dipropyl ether	111-43-3	54.788	530.60	1.2222	158.36	530.60	1,2	298.15	19.98
8994	C6H14O	propyl isopropyl ether	627-08-7	53.530	518.96	1.2222	164.11	518.96	2	298.15	18.84
8995	C6H14O	diisopropyl ether	108-20-3	53.573	500.05	1.2488	187.65	500.05	1,2	298.15	17.26
8996	C6H14O	methyl pentyl ether	628-80-8	53.205	542.62	1.2222	179.11	542.62	2	298.15	20.08
8997	C6H14O	methyl 1-methylbutyl ether	6795-88-6	52.948	535.12	1.2222	164.11	535.12	2	298.15	19.57
8998	C6H14O	methyl 2-methylbutyl ether	62016-48-2	52.996	533.65	1.2222	164.11	533.65	2	298.15	19.50
8999	C6H14O	methyl 3-methylbutyl ether	626-91-5	52.996	533.65	1.2222	164.11	533.65	2	298.15	19.50
9000	C6H14O	methyl 1-ethylpropyl ether	36839-67-5	53.095	530.71	1.2222	164.11	530.71	2	298.15	19.37
9001	C6H14O	methyl 1,2-dimethylpropyl ether	62016-49-3	52.676	527.59	1.2222	149.11	527.59	2	298.15	19.04
9002	C6H14O	methyl tert-pentyl ether	994-05-8	52.284	534.00	1.2222	149.11	534.00	2	298.15	19.26
9003	C6H14O	methyl 2,2-dimethylpropyl ether	1118-00-9	52.006	531.90	1.2222	181.53	531.90	2	298.15	19.04
9004	C6H14O	ethyl butyl ether	628-81-9	56.280	531.00	1.2453	170.15	531.00	1,2	298.15	20.16
9005	C6H14O	ethyl isobutyl ether	627-02-1	53.466	520.57	1.2222	164.11	520.57	2	298.15	18.91
9006	C6H14O	ethyl sec-butyl ether	2679-87-0	53.460	520.72	1.2222	164.11	520.72	2	298.15	18.92
9007	C6H14O	ethyl tert-butyl ether	637-92-3	52.523	516.67	1.2222	179.15	516.67	2	298.15	18.35
9008	C6H14O	(S)-(+)-2-hexanol	52019-78-0	44.655	581.80	0.8000	213.40	581.80	2	298.15	25.14
9009	C6H14O	tert-hexyl alcohol	26401-20-7	42.272	581.80	0.8000	213.40	581.80	2	298.15	23.79
9020	C6H14O2	acetal	105-57-7	60.167	541.00	1.2222	173.15	541.00	2	298.15	22.60
9021	C6H14O2	2-butoxyethanol	111-76-2	61.479	600.00	1.2222	203.15	600.00	1,2	298.15	26.55
9022	C6H14O2	hexylene glycol	107-41-5	103.124	621.00	1.2222	223.15	621.00	2	298.15	46.36
9023	C6H14O2	1,2-hexanediol	6920-22-5	102.045	650.10	1.2222	318.15	650.10	2	318.15	44.88
9024	C6H14O2	1,3-hexanediol	21531-91-9	101.238	664.48	1.2222	263.52	664.48	2	298.15	48.90
9025	C6H14O2	1,4-hexanediol	16432-53-4	99.804	691.94	1.2222	263.52	691.94	2	298.15	50.11
9026	C6H14O2	1,5-hexanediol	928-40-5	102.123	660.36	1.2222	263.52	660.36	2	298.15	49.02
9027	C6H14O2	1,6-hexanediol	629-11-8	94.800	670.00	1.2222	315.15	670.00	1,2	315.15	43.60
9028	C6H14O2	2,3-hexanediol	617-30-1	103.039	628.03	1.2222	333.15	628.03	2	333.15	40.90
9029	C6H14O2	2,4-hexanediol	19780-90-6	100.227	649.93	1.2222	277.56	649.93	2	298.15	47.33
9030	C6H14O2	2,5-hexanediol	2935-44-6	101.816	648.79	1.2222	316.15	648.79	2	316.15	45.00
9031	C6H14O2	3,4-hexanediol	922-17-8	101.595	652.71	1.2222	248.52	652.71	2	298.15	48.19
9032	C6H14O2	2-methyl-1,2-pentanediol	20667-05-4	101.628	646.52	1.2222	280.94	646.52	2	298.15	47.73
9033	C6H14O2	2-methyl-1,3-pentanediol	149-31-5	101.853	648.13	1.2222	243.15	648.13	2	298.15	47.96
9034	C6H14O2	2-methyl-1,5-pentanediol	42856-62-2	101.595	652.71	1.2222	248.52	652.71	2	298.15	48.19
9035	C6H14O2	2-methyl-2,3-pentanediol	7795-80-4	100.040	670.50	1.2222	265.94	670.50	2	298.15	48.75
9036	C6H14O2	3-methyl-1,3-pentanediol	33879-72-0	102.154	637.26	1.2222	280.94	637.26	2	298.15	47.25
9037	C6H14O2	3-methyl-1,5-pentanediol	4457-71-0	100.308	682.00	1.2222	213.15	682.00	2	298.15	49.69
9038	C6H14O2	3-methyl-2,3-pentanediol	63521-37-9	100.040	670.50	1.2222	265.94	670.50	2	298.15	48.75
9039	C6H14O2	3-methyl-2,4-pentanediol	5683-44-3	95.123	685.78	1.2222	233.52	685.78	2	298.15	47.37
9040	C6H14O2	4-methyl-1,4-pentanediol	1462-10-8	101.310	652.26	1.2222	280.94	652.26	2	298.15	48.02
9041	C6H14O2	DL-erythro-4-methyl-2,3-pentanediol	6702-10-9	99.575	685.78	1.2222	322.15	685.78	2	322.15	45.86
9042	C6H14O2	DL-threo-4-methyl-2,3-pentanediol	6464-40-0	99.575	685.78	1.2222	332.15	685.78	2	332.15	44.32
9043	C6H14O2	2-ethyl-1,2-butanediol	66553-16-0	102.923	624.29	1.2222	318.65	624.29	2	318.65	42.99
9044	C6H14O2	2-ethyl-1,3-butanediol	66553-17-1	102.891	630.46	1.2222	248.52	630.46	2	298.15	47.04
9045	C6H14O2	2-ethyl-1,4-butanediol	57716-79-7	102.891	630.46	1.2222	248.52	630.46	2	298.15	47.04
9046	C6H14O2	2,2-dimethyl-1,3-butanediol	76-35-7	102.195	630.45	1.2222	260.35	630.45	2	298.15	46.72
9047	C6H14O2	2,2-dimethyl-1,4-butanediol	32812-23-0	101.857	636.35	1.2222	265.94	636.35	2	298.15	47.04
9048	C6H14O2	2,3-dimethyl-1,2-butanediol	66553-15-9	101.857	636.35	1.2222	265.94	636.35	2	298.15	47.04
9049	C6H14O2	2,3-dimethyl-1,3-butanediol	24893-35-4	101.857	636.35	1.2222	265.94	636.35	2	298.15	47.04
9050	C6H14O2	DL-2,3 -dimethyl-1,4-butanediol	---	101.595	652.71	1.2222	248.52	652.71	2	298.15	48.19
9051	C6H14O2	meso-2,3-dimethyl-1,4-butanediol	---	101.595	652.71	1.2222	248.52	652.71	2	298.15	48.19
9052	C6H14O2	2,3-dimethyl-2,3-butanediol	76-09-5	103.405	597.11	1.2222	314.25	597.11	2	314.25	41.49
9053	C6H14O2	3,3-dimethyl-1,2-butanediol	59562-82-2	101.959	634.56	1.2222	321.65	634.56	2	321.65	42.97
9054	C6H14O2	2-propyl-1,3-propanediol	2612-28-4	103.883	620.04	1.2222	263.52	620.04	2	298.15	46.62
9055	C6H14O2	2-isopropyl-1,3-propanediol	2612-27-3	101.595	652.71	1.2222	248.52	652.71	2	298.15	48.19
9056	C6H14O2	2-methyl-2-ethyl-1,3-propanediol	77-84-9	100.982	658.33	1.2222	313.45	658.33	2	313.45	45.82
9057	C6H14O2	1-(1-methylethoxy)-2-propanol	3944-36-3	67.175	600.00	1.2222	208.52	600.00	2	298.15	29.01
9058	C6H14O2	2-(2-methylpropoxy)ethanol	4439-24-1	64.782	600.00	1.2222	208.52	600.00	2	298.15	27.98
9059	C6H14O2	1-propoxy-2-propanol	1569-01-3	65.835	600.00	1.2222	208.52	600.00	2	298.15	28.43

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
9060	C6H14O2	ethylene glycol diethyl ether	629-14-1	69.164	600.00	1.2222	199.15	600.00	2	298.15	29.87
9061	C6H14O2	(2R,5R)-2,5-hexanediol	17299-07-9	100.592	649.93	1.2222	323.15	649.93	2	323.15	43.41
9062	C6H14O2	(2S,5S)-2,5-hexanediol	34338-96-0	100.592	649.93	1.2222	324.65	649.93	2	324.65	43.17
9063	C6H14O2	3-methoxy-3-methylbutanol	56539-66-3	63.337	600.00	1.2222	223.25	600.00	2	298.15	27.35
9064	C6H14O2	(R)-(-)-2-methyl-2,4-pentanediol	99210-90-9	98.091	649.93	1.2222	277.56	649.93	2	298.15	46.32
9067	C6H14O2	ethylene glycol mono-sec-butyl ether	7795-91-7	59.879	600.00	1.2222	208.52	600.00	2	298.15	25.86
9068	C6H14O2	n-propoxypropanol (mixed isomers)	30136-13-1	59.879	600.00	1.2222	208.52	600.00	2	298.15	25.86
9069	C6H14O2S	dipropyl sulfone	598-03-8	76.936	763.00	1.2222	303.00	763.00	2	303.00	41.45
9075	C6H14O3	diethylene glycol dimethyl ether	111-96-6	67.310	604.00	1.2222	203.15	604.00	2	298.15	29.30
9076	C6H14O3	dipropylene glycol	25265-71-8	121.156	654.00	1.2222	233.00	654.00	2	298.15	57.58
9077	C6H14O3	2-(2-ethoxyethoxy)ethanol	111-90-0	92.642	632.00	1.2222	195.15	632.00	2	298.15	42.47
9078	C6H14O3	trimethylolpropane	77-99-6	155.263	709.00	1.2222	331.15	709.00	2	331.15	71.95
9090	C6H14O3S	dipropyl sulfite	623-98-3	58.829	659.80	1.2222	273.15	494.85	1,2	298.15	28.21
9092	C6H14O4	triethylene glycol	112-27-6	126.928	700.00	1.2222	265.79	700.00	2	298.15	64.41
9094	C6H14O4S	methyl pentyl sulfate	5867-93-6	64.290	718.85	1.2222	241.15	539.13	2	298.15	33.40
9095	C6H14O4S	butyl ethyl sulfate	5867-95-8	64.290	718.85	1.2222	241.15	539.13	2	298.15	33.40
9096	C6H14O4S	dipropyl sulfate	598-05-0	61.649	718.85	1.2222	241.15	539.13	1,2	298.15	32.03
9100	C6H14O6	sorbitol	50-70-4	228.340	959.00	1.2222	370.85	959.00	2	370.85	125.62
9107	C6H14S	hexyl mercaptan	111-31-9	60.951	623.00	1.2222	192.62	623.00	1,2	298.15	27.50
9108	C6H14S	2-hexanethiol	1679-06-7	59.035	607.00	1.2222	126.15	607.00	2	298.15	25.85
9109	C6H14S	2,3-dimethyl-2-butanethiol	1639-01-6	57.633	615.00	1.2222	159.39	615.00	2	298.15	25.62
9110	C6H14S	3-hexanethiol	1633-90-5	57.633	615.00	1.2222	159.39	615.00	2	298.15	25.62
9111	C6H14S	2-methyl-2-pentanethiol	1633-97-2	57.633	615.00	1.2222	159.39	615.00	2	298.15	25.62
9112	C6H14S	dipropyl sulfide	111-47-7	59.724	609.73	1.2222	170.45	609.73	1,2	298.15	26.29
9113	C6H14S	diisopropyl sulfide	625-80-9	55.300	585.71	1.2222	170.45	585.71	1,2	298.15	23.18
9114	C6H14S	methyl pentyl sulfide	1741-83-9	59.689	587.98	1.2222	179.16	587.98	2	298.15	25.14
9115	C6H14S	ethyl butyl sulfide	638-46-0	60.218	609.00	1.2222	178.03	609.00	1,2	298.15	26.47
9116	C6H14S	3-methyl-2-thiahexane	13286-91-4	57.715	608.92	1.2222	176.28	608.92	2	298.15	25.37
9117	C6H14S	4-methyl-2-thiahexane	15013-37-3	57.598	610.40	1.2222	176.28	610.40	2	298.15	25.39
9118	C6H14S	5-methyl-2-thiahexane	13286-90-3	57.834	607.44	1.2222	176.28	607.44	2	298.15	25.35
9119	C6H14S	2-methyl-3-thiahexane	5008-73-1	58.569	598.65	1.2222	176.28	598.65	2	298.15	25.22
9120	C6H14S	4-methyl-3-thiahexane	5008-72-0	58.366	601.01	1.2222	176.28	601.01	2	298.15	25.26
9121	C6H14S	5-methyl-3-thiahexane	1613-45-2	58.294	601.86	1.2222	176.28	601.86	2	298.15	25.27
9122	C6H14S	3-ethyl-2-thiapentane	57093-84-2	58.592	598.38	1.2222	176.28	598.38	2	298.15	25.22
9123	C6H14S	3,3-dimethyl-2-thiapentane	13286-92-5	57.927	602.51	1.2222	193.70	602.51	2	298.15	25.14
9124	C6H14S	3,4-dimethyl-2-thiapentane	53897-51-1	58.510	597.54	1.2222	161.28	597.54	2	298.15	25.14
9125	C6H14S	4,4-dimethyl-2-thiapentane	6079-57-8	57.927	602.51	1.2222	193.70	602.51	2	298.15	25.14
9126	C6H14S	2,2-dimethyl-3-thiapentane	14290-92-7	55.515	591.11	1.2222	184.20	591.11	1,2	298.15	23.54
9129	C6H14S2	diisopropyl disulfide	4253-89-8	58.009	673.00	1.2222	204.15	673.00	1,2	298.15	28.37
9130	C6H14S2	dipropyl disulfide	629-19-6	62.426	673.00	1.2222	187.68	673.00	1,2	298.15	30.53
9135	C6H15Al	triethyl aluminum	97-93-8	180.189	678.15	1.2222	220.65	678.15	2	298.15	88.77
9139	C6H15Al2Cl3	ethyl aluminum sesquichloride	12075-68-2	99.177	791.00	1.2222	253.15	791.00	2	298.15	55.63
9173	C6H15N	hexylamine	111-26-2	58.440	583.00	1.1440	251.85	583.00	1,2	298.15	25.76
9174	C6H15N	2-aminohexane	5329-79-3	60.062	584.76	1.2222	254.15	584.76	2	298.15	25.12
9175	C6H15N	3-aminohexane	16751-58-9	59.868	592.91	1.2222	232.45	592.91	2	298.15	25.48
9176	C6H15N	1-amino-2-methylpentane	13364-16-4	60.177	580.19	1.2222	232.45	580.19	2	298.15	24.92
9177	C6H15N	1-amino-3-methylpentane	42245-37-4	59.405	580.19	1.2222	232.45	580.19	2	298.15	24.60
9178	C6H15N	1-amino-4-methylpentane	5344-20-7	57.028	575.91	1.2222	178.75	575.91	1,2	298.15	23.39
9179	C6H15N	2-amino-2-methylpentane	53310-02-4	59.818	555.56	1.2222	232.45	555.56	2	298.15	23.36
9180	C6H15N	2-amino-3-methylpentane	35399-81-6	59.321	596.83	1.2222	232.45	596.83	2	298.15	25.45
9181	C6H15N	2-amino-4-methylpentane	108-09-8	60.285	557.83	1.2222	232.45	557.83	2	298.15	23.68
9182	C6H15N	3-amino-2-methylpentane	54287-41-1	59.321	596.83	1.2222	232.45	596.83	2	298.15	25.45
9183	C6H15N	3-amino-3-methylpentane	3495-46-3	59.054	586.93	1.2222	232.45	586.93	2	298.15	24.82
9184	C6H15N	1-amino-2,2-dimethylbutane	41781-17-3	59.448	569.55	1.2222	232.45	569.55	2	298.15	24.03
9185	C6H15N	1-amino-2,3-dimethylbutane	66553-05-7	60.440	552.72	1.2222	232.45	552.72	2	298.15	23.43
9186	C6H15N	1-amino-3,3-dimethylbutane	15673-00-4	58.832	598.02	1.2222	232.45	598.02	2	298.15	25.31
9187	C6H15N	2-amino-2,3-dimethylbutane	4358-75-2	59.708	556.88	1.2222	202.65	556.88	2	298.15	23.40
9188	C6H15N	2-amino-3,3-dimethyl butane	3850-30-4	59.219	557.10	1.2222	253.15	557.10	2	298.15	23.22
9189	C6H15N	1-amino-2-ethylbutane	617-79-8	59.868	592.91	1.2222	232.45	592.91	2	298.15	25.48
9190	C6H15N	2-hexanamine, (±)	68107-05-1	61.542	559.92	1.2222	254.15	559.92	2	298.15	24.30
9191	C6H15N	methylpentylamine	25419-06-1	54.814	561.00	1.2222	191.50	561.00	2	298.15	21.70
9192	C6H15N	methyl-1-methylbutylamine	51932-19-5	54.277	560.25	1.2222	191.50	560.25	2	298.15	21.45
9193	C6H15N	methyl-2-methylbutylamine	90023-96-4	54.277	560.25	1.2222	191.50	560.25	2	298.15	21.45
9194	C6H15N	methyl-3-methylbutylamine	52317-98-3	54.493	552.62	1.2222	191.50	552.62	2	298.15	21.12
9195	C6H15N	methyl-1,1-dimethylpropylamine	---	53.237	564.84	1.2222	191.50	564.84	2	298.15	21.28
9196	C6H15N	methyl-1,2-dimethylpropylamine	34317-39-0	54.277	560.25	1.2222	191.50	560.25	2	298.15	21.45
9197	C6H15N	methyl-2,2-dimethylpropylamine	26153-91-3	53.237	564.84	1.2222	191.50	564.84	2	298.15	21.28
9198	C6H15N	ethylbutylamine	13360-63-9	55.082	548.52	1.2222	191.50	548.52	2	298.15	21.12
9199	C6H15N	ethyl-sec-butylamine	21035-44-9	54.957	538.12	1.2222	191.50	538.12	2	298.15	20.48
9200	C6H15N	ethylisobutylamine	13205-60-2	54.957	538.12	1.2222	191.50	538.12	2	298.15	20.48
9201	C6H15N	ethyl-tert-butylamine	4432-77-3	54.721	517.03	1.2222	210.15	517.03	2	298.15	19.14
9202	C6H15N	di-propylamine	142-84-7	55.920	555.80	1.2005	210.15	555.80	1,2	298.15	22.22
9203	C6H15N	diisopropylamine	108-18-9	56.620	523.10	1.2856	176.85	523.10	1,2	298.15	19.13
9204	C6H15N	propylisopropylamine	21968-17-2	54.942	538.56	1.2222	191.50	538.56	2	298.15	20.50
9205	C6H15N	N-ethyl-2-butanamine, (±)	116724-10-8	51.874	559.92	1.2222	168.85	559.92	2	298.15	20.48
9206	C6H15N	methylethylpropylamine	4458-32-6	51.490	534.36	1.2222	164.23	534.36	2	298.15	18.98
9207	C6H15N	methylethylisopropylamine	39198-07-7	50.867	538.62	1.2222	166.07	538.62	2	298.15	18.98
9208	C6H15N	dimethylbutylamine	927-62-8	48.872	556.70	1.2222	166.07	556.70	2	298.15	19.14
9209	C6H15N	dimethyl-sec-butylamine	921-04-0	50.763	542.32	1.2222	166.07	542.32	2	298.15	19.14
9210	C6H15N	dimethylisobutylamine	7239-24-9	51.365	523.11	1.2222	158.45	523.11	2	298.15	18.31

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
9211	C6H15N	dimethyl-tert-butylamine	918-02-5	49.689	545.31	1.2222	183.15	545.31	2	298.15	18.89
9212	C6H15N	triethylamine	121-44-8	54.140	535.15	1.2078	158.45	535.15	1,2	298.15	20.24
9213	C6H15NO	6-aminohexanol	4048-33-3	82.737	681.00	1.2222	331.00	681.00	2	331.00	36.68
9214	C6H15NO	2-amino-4-methyl-1-pentanol, (±)	16369-17-8	89.857	681.00	1.2222	317.15	681.00	2	317.15	41.77
9215	C6H15NO	2-(butylamino)ethanol	111-75-1	89.857	681.00	1.2222	314.36	681.00	2	314.36	42.16
9216	C6H15NO	2-[tert-butylamino]ethanol	4620-70-6	94.635	681.00	1.2222	317.15	681.00	2	317.15	43.99
9217	C6H15NO	2-diethylaminoethanol	100-37-8	97.623	681.00	1.2222	314.36	681.00	2	314.36	45.80
9220	C6H15NO	2-(isobutylamino)ethanol	17091-40-6	89.857	681.00	1.2222	314.36	681.00	2	314.36	42.16
9221	C6H15NO	DL-2-amino-1-hexanol	5665-74-7	91.527	681.00	1.2222	314.36	681.00	2	314.36	42.94
9222	C6H15NO	2-dimethylamino-2-methyl-1-propanol	7005-47-2	98.299	681.00	1.2222	292.15	681.00	2	298.15	48.62
9228	C6H15NO	4-amino-4-methyl-2-pentanol	4404-98-2	95.104	681.00	1.2222	314.36	681.00	2	314.36	44.62
9230	C6H15NO2	diisopropanolamine	110-97-4	126.566	672.00	1.2222	318.15	672.00	2	318.15	57.79
9239	C6H15NO3	triethanolamine	102-71-6	92.120	787.00	1.2222	294.35	787.00	2	298.15	51.48
9247	C6H15N3	N-aminoethyl piperazine	140-31-8	85.549	708.00	1.2222	254.15	708.00	2	298.15	43.86
9268	C6H15O4P	triethyl phosphate	78-40-0	68.175	757.00	1.6660	216.65	757.00	1,2	298.15	29.61
9292	C6H16N2	hexamethylenediamine	124-09-4	74.176	663.00	1.2222	313.95	663.00	2	313.95	33.86
9293	C6H16N2	N,N-diethyl-1,2-ethanediamine	100-36-7	68.147	663.00	1.2222	266.05	663.00	2	298.15	32.84
9294	C6H16N2	N,N'-diethyl-1,2-ethanediamine	111-74-0	68.385	663.00	1.2222	266.05	663.00	2	298.15	32.95
9295	C6H16N2	N,N,N',N'-tetramethyl-1,2-ethanediamine	110-18-9	65.260	663.00	1.2222	218.15	663.00	2	298.15	31.45
9297	C6H16N2	N-butylethylenediamine	19522-69-1	69.768	663.00	1.2222	266.05	663.00	2	298.15	33.62
9298	C6H16N2	1,5-diamino-2-methylpentane	15520-10-2	73.364	663.00	1.2222	266.05	663.00	2	298.15	35.35
9299	C6H16N2	N-isopropyl-1,3-propanediamine	3360-16-5	70.211	663.00	1.2222	266.05	663.00	2	298.15	33.83
9300	C6H16N2	N-propyl-1,3-propanediamine	23764-31-0	70.967	663.00	1.2222	266.05	663.00	2	298.15	34.20
9301	C6H16N2	N,N,N'-trimethyl-1,3-propanediamine	4543-96-8	67.787	663.00	1.2222	266.05	663.00	2	298.15	32.67
9302	C6H16N2	2-methyl-2,4-pentanediamine	21586-21-0	69.553	663.00	1.2222	266.05	663.00	2	298.15	33.52
9359	C6H18N4	triethylene tetramine	112-24-3	97.460	718.00	1.2222	285.15	718.00	2	298.15	50.58
9362	C6H18OSi2	hexamethyldisiloxane	107-46-0	45.660	518.70	1.2720	204.93	518.70	1,2	298.15	15.39
9366	C6H18O3Si3	hexamethylcyclotrisiloxane	541-05-9	41.569	554.20	1.2222	337.15	554.20	2	337.15	13.22
9378	C6H19NSi2	hexamethyldisilazane	999-97-3	44.590	544.00	1.1280	350.00	544.00	1,2	350.00	13.94
9519	C7H3Cl2F3	2,4-dichlorobenzotrifluoride	320-60-5	60.510	646.00	1.2222	247.55	646.00	2	298.15	28.40
9527	C7H3Cl2NO	3,4-dichlorophenyl isocyanate	102-36-3	69.303	733.00	1.2222	316.15	733.00	2	316.15	34.77
9684	C7H4ClF3	p-chlorobenzotrifluoride	98-56-6	59.268	601.00	1.2222	237.15	601.00	2	298.15	25.65
9736	C7H4Cl2O	m-chlorobenzoyl chloride	618-46-2	78.218	724.00	1.2222	280.00	724.00	2	298.15	40.89
9799	C7H4F3NO2	3-nitrobenzotrifluoride	98-46-4	66.818	667.00	1.2222	272.00	667.00	2	298.15	32.39
9927	C7H5ClO	benzoyl chloride	98-88-4	73.897	697.00	1.1577	272.65	697.00	1,2	298.15	38.72
9932	C7H5ClO2	o-chlorobenzoic acid	118-91-2	98.408	792.00	1.2222	415.15	792.00	2	415.15	39.70
9967	C7H5Cl3	benzotrichloride	98-07-7	61.196	737.00	1.2222	268.40	737.00	2	298.15	32.47
9968	C7H5Cl3	1,2-dichloro-4-(chloromethyl)benzene	102-47-6	75.423	737.00	1.2222	310.65	737.00	2	310.65	38.64
9969	C7H5Cl3	1,3-dichloro-5-(chloromethyl)benzene	3290-06-0	59.831	737.00	1.2222	309.15	737.00	2	309.15	30.78
9970	C7H5Cl3	1,2,3-trichloro-4-methylbenzene	7359-72-0	77.191	737.00	1.2222	316.65	737.00	2	316.65	38.86
9971	C7H5Cl3	1,2,3-trichloro-5-methylbenzene	21472-86-6	78.396	737.00	1.2222	318.65	737.00	2	318.65	39.24
9972	C7H5Cl3	1,2,4-trichloro-5-methylbenzene	6639-30-1	69.861	737.00	1.2222	355.55	737.00	2	355.55	31.24
9973	C7H5Cl3	1,2,5-trichloro-3-methylbenzene	56961-86-5	69.331	737.00	1.2222	318.65	737.00	2	318.65	34.70
9974	C7H5Cl3	3-chlorobenzal chloride	15145-69-4	59.831	737.00	1.2222	308.79	737.00	2	308.79	30.81
9975	C7H5Cl3	2,6-dichlorobenzyl chloride	2014-83-7	29.360	737.00	1.2222	310.65	737.00	2	310.65	15.04
9976	C7H5Cl3	dichlorobenzyl chloride	38721-71-0	30.585	737.00	1.2222	308.79	737.00	2	308.79	15.75
9977	C7H5Cl3	2,4-dichlorobenzyl chloride	94-99-5	79.624	737.00	1.2222	270.80	737.00	2	298.15	42.25
9978	C7H5Cl3	2,3,6-trichlorotoluene	2077-46-5	59.831	737.00	1.2222	308.79	737.00	2	308.79	30.81
9979	C7H5Cl3	a-a-p-trichlorotoluene	13940-94-8	59.831	737.00	1.2222	308.79	737.00	2	308.79	30.81
10003	C7H5F3	benzotrifluoride	98-08-8	58.062	565.00	1.2222	244.14	565.00	2	298.15	23.21
10045	C7H5N	benzonitrile	100-47-0	75.195	699.35	1.1910	260.40	699.35	1,2	298.15	38.79
10049	C7H5NO	phenyl isocyanate	103-71-9	78.313	648.00	1.2222	243.15	648.00	2	298.15	36.87
10118	C7H5N3O6	2,4,6-trinitrotoluene	118-96-7	80.360	795.00	1.2222	354.00	795.00	2	354.00	39.11
10184	C7H6Br2	1-bromo-2-(bromomethyl)benzene	3433-80-5	84.989	731.51	1.2222	304.15	548.63	2	304.15	44.06
10185	C7H6Br2	1-bromo-4-(bromomethyl)benzene	589-15-1	84.989	731.51	1.2222	336.15	548.63	2	336.15	40.06
10186	C7H6Br2	(dibromomethyl)benzene	618-31-5	84.989	731.51	1.2222	274.15	548.63	2	298.15	44.82
10187	C7H6Br2	1,2-dibromo-3-methylbenzene	61563-25-5	84.989	731.51	1.2222	303.65	548.63	2	303.65	44.13
10188	C7H6Br2	1,2-dibromo-4-methylbenzene	60956-23-2	85.113	728.67	1.2222	263.15	546.50	2	298.15	44.74
10189	C7H6Br2	1,3-dibromo-2-methylbenzene	69321-60-4	84.744	737.19	1.2222	278.65	552.89	2	298.15	44.98
10190	C7H6Br2	1,4-dibromo-2-methylbenzene	615-59-8	85.364	722.99	1.2222	278.75	542.24	2	298.15	44.57
10191	C7H6Br2	2,4-dibromo-1-methylbenzene	31543-75-6	84.989	731.51	1.2222	263.45	548.63	2	298.15	44.82
10192	C7H6Br2	3-bromobenzyl bromide	823-78-9	84.989	731.51	1.2222	312.65	548.63	2	312.65	42.99
10193	C7H6Br2	3,4-dibromotoluene	60956-23-2	84.989	731.51	1.2222	292.44	548.63	2	298.15	44.82
10194	C7H6Br2	3,5-dibromotoluene	1611-92-3	84.744	737.19	1.2222	309.65	552.89	2	309.65	43.54
10252	C7H6Cl2	benzyl dichloride	98-87-3	70.520	710.00	1.2222	257.00	710.00	2	298.15	36.24
10253	C7H6Cl2	2,4-dichlorotoluene	95-73-8	70.121	710.00	1.2222	259.65	710.00	2	298.15	36.04
10254	C7H6Cl2	1-chloro-2-(chloromethyl)benzene	611-19-8	70.619	710.00	1.2222	256.15	710.00	2	298.15	36.29
10255	C7H6Cl2	1-chloro-3-(chloromethyl)benzene	620-20-2	70.588	710.00	1.2222	276.42	710.00	2	298.15	36.28
10256	C7H6Cl2	1-chloro-4-(chloromethyl)benzene	104-83-6	70.808	710.00	1.2222	304.15	710.00	2	304.15	35.74
10257	C7H6Cl2	2,3-dichlorotoluene	32768-54-0	70.321	710.00	1.2222	279.15	710.00	2	298.15	36.14
10258	C7H6Cl2	2,5-dichlorotoluene	19398-61-9	70.086	710.00	1.2222	275.65	710.00	2	298.15	36.02
10259	C7H6Cl2	2,6-dichlorotoluene	118-69-4	70.024	710.00	1.2222	298.95	710.00	2	298.95	35.90
10260	C7H6Cl2	3,4-dichlorotoluene	95-75-0	70.365	710.00	1.2222	257.95	710.00	2	298.15	36.16
10261	C7H6Cl2	3,5-dichlorotoluene	25186-47-4	70.133	710.00	1.2222	299.15	710.00	2	299.15	35.94
10363	C7H6N2O4	2,4-dinitrotoluene	121-14-2	92.831	814.00	1.2222	343.00	814.00	2	343.00	47.56
10364	C7H6N2O4	2,5-dinitrotoluene	619-15-8	92.831	814.00	1.2222	325.65	814.00	2	325.65	49.72
10365	C7H6N2O4	2,6-dinitrotoluene	606-20-2	96.387	770.00	1.2222	339.00	770.00	2	339.00	47.42
10366	C7H6N2O4	3,4-dinitrotoluene	610-39-9	93.691	842.00	1.2222	332.00	842.00	2	332.00	50.77
10367	C7H6N2O4	3,5-dinitrotoluene	618-85-9	91.506	814.00	1.2222	365.65	814.00	2	365.65	44.15
10404	C7H6O	benzaldehyde	100-52-7	74.680	695.00	1.1930	247.15	695.00	1,2	298.15	38.27

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
10408	C7H6O2	benzoic acid	65-85-0	73.400	751.00	1.1060	395.52	751.00	1,2	395.52	32.10
10409	C7H6O2	p-hydroxybenzaldehyde	123-08-0	113.042	844.00	1.2222	390.15	844.00	2	390.15	52.96
10410	C7H6O2	salicylaldehyde	90-02-8	81.519	680.00	1.1372	266.15	680.00	1,2	298.15	42.29
10420	C7H6O3	salicylic acid	69-72-7	128.886	739.00	1.2222	431.75	739.00	2	431.75	44.09
10462	C7H7Br	p-bromotoluene	106-38-7	70.000	699.00	1.2740	299.95	699.00	1,2	299.95	34.27
10463	C7H7Br	(bromomethyl)benzene	100-39-0	73.776	699.00	1.2222	271.65	699.00	2	298.15	37.39
10464	C7H7Br	o-bromotoluene	95-46-5	71.961	699.00	1.2222	245.35	699.00	2	298.15	36.47
10465	C7H7Br	m-bromotoluene	591-17-3	72.158	699.00	1.2222	233.35	699.00	2	298.15	36.57
10492	C7H7Cl	benzyl chloride	100-44-7	79.060	686.00	1.3380	234.15	686.00	1,2	298.15	36.86
10493	C7H7Cl	o-chlorotoluene	95-49-8	69.840	656.00	1.2222	236.65	656.00	2	298.15	33.30
10494	C7H7Cl	p-chlorotoluene	106-43-4	61.700	660.00	1.1330	280.65	660.00	1,2	298.15	31.23
10495	C7H7Cl	m-chlorotoluene	108-41-8	69.738	660.18	1.2222	225.35	660.18	2	298.15	33.46
10555	C7H7F	p-fluorotoluene	352-32-9	64.960	590.48	1.2222	216.36	590.48	2	298.15	27.51
10556	C7H7F	(fluoromethyl)benzene	350-50-5	80.969	590.48	1.2222	238.15	590.48	2	298.15	34.29
10557	C7H7F	o-fluorotoluene	95-52-3	63.994	590.48	1.2222	211.15	590.48	2	298.15	27.10
10558	C7H7F	m-fluorotoluene	352-70-5	63.994	590.48	1.2222	186.15	590.48	2	298.15	27.10
10611	C7H7NO	formanilide	103-70-8	68.880	787.00	1.0310	323.15	787.00	1,2	323.15	39.94
10614	C7H7NO	benzamide	55-21-0	89.775	799.67	1.2222	403.00	599.75	1,2	403.00	38.11
10626	C7H7NO2	m-nitrotoluene	99-08-1	76.680	734.00	1.2224	289.20	734.00	1,2	298.15	40.55
10627	C7H7NO2	o-nitrotoluene	88-72-2	80.510	720.00	1.2560	269.98	720.00	1,2	298.15	41.14
10628	C7H7NO2	p-nitrotoluene	99-99-0	72.160	736.00	1.1234	324.75	736.00	1,2	324.75	37.53
10660	C7H7NO3	o-nitroanisole	91-23-6	84.800	782.00	1.2880	283.60	782.00	1,2	298.15	45.69
10724	C7H8	1,3,5-cycloheptatriene	544-25-2	71.685	593.90	1.2222	193.66	593.90	2	298.15	30.57
10725	C7H8	toluene	108-88-3	66.850	591.79	1.2456	178.18	591.79	1,2	298.15	27.93
10728	C7H8	1,5-heptadiyne	764-56-7	67.766	540.56	1.2222	188.15	405.42	2	298.15	25.43
10729	C7H8	1,6-heptadiyne	2396-63-6	67.247	546.91	1.2222	188.15	410.18	2	298.15	25.67
10850	C7H8O	anisole	100-66-3	75.870	641.65	1.2400	268.73	641.65	1,2	298.15	34.96
10851	C7H8O	benzyl alcohol	100-51-6	109.710	677.00	1.8820	257.85	677.00	1,2	298.15	36.79
10852	C7H8O	m-cresol	108-39-4	64.620	705.85	1.0779	285.39	705.85	1,2	298.15	35.76
10853	C7H8O	o-cresol	95-48-7	71.010	697.55	1.1600	304.19	697.55	1,2	304.19	36.54
10854	C7H8O	p-cresol	106-44-5	66.850	704.65	1.0960	307.93	704.65	1,2	307.93	35.62
10855	C7H8O	cresol mixture	1319-77-3	69.189	702.68	1.2222	296.35	702.68	2	298.15	35.23
10866	C7H8O2	guaiacol	90-05-1	97.976	697.00	1.2222	304.65	697.00	2	304.65	48.54
10867	C7H8O2	p-methoxyphenol	150-76-5	102.710	758.00	1.2222	329.00	758.00	2	329.00	51.22
10868	C7H8O2	1,2-dihydroxy-3-methylbenzene	488-17-5	120.430	776.37	1.2222	341.15	776.37	2	341.15	59.36
10869	C7H8O2	1,2-dihydroxy-4-methylbenzene	452-86-8	121.195	791.27	1.2222	338.15	791.27	2	338.15	61.32
10870	C7H8O2	1,3-dihydroxy-2-methylbenzene	608-25-3	121.725	801.70	1.2222	393.15	801.70	2	393.15	53.40
10871	C7H8O2	1,3-dihydroxy-4-methylbenzene	496-73-1	122.101	809.15	1.2222	378.15	809.15	2	378.15	56.54
10872	C7H8O2	1,3-dihydroxy-5-methylbenzene	504-15-4	123.362	834.47	1.2222	380.15	834.47	2	380.15	58.68
10873	C7H8O2	1,4-dihydroxy-2-methylbenzene	95-71-6	123.068	828.51	1.2222	398.15	828.51	2	398.15	55.27
10918	C7H8S	o-methylthiophenol	137-06-4	75.310	714.96	1.2222	288.15	714.96	2	298.15	38.94
10919	C7H8S	m-methylthiophenol	108-40-7	75.214	716.34	1.2222	253.15	716.34	2	298.15	38.96
10920	C7H8S	p-methylthiophenol	106-45-6	75.235	716.03	1.2222	317.15	716.03	2	317.15	36.80
10921	C7H8S	methyl phenyl sulfide	100-68-5	78.396	710.76	1.2222	116.90	710.76	1,2	298.15	40.33
10922	C7H8S	benzenemethanethiol	100-53-8	75.245	715.78	1.2222	243.15	715.78	2	298.15	38.95
10953	C7H9N	benzylamine	100-46-9	77.060	683.50	1.1834	227.15	683.50	1,2	298.15	39.11
10954	C7H9N	N-methylaniline	100-61-8	66.549	701.55	1.0658	216.15	701.55	1,2	298.15	36.90
10955	C7H9N	m-toluidine	108-44-1	67.210	709.15	1.0550	242.75	709.15	1,2	298.15	37.80
10956	C7H9N	o-toluidine	95-53-4	74.850	694.15	1.1176	249.47	694.15	1,2	298.15	39.97
10957	C7H9N	p-toluidine	106-49-0	67.900	693.15	1.0570	316.90	693.15	1,2	316.90	35.60
10958	C7H9N	2,3-dimethylpyridine	583-61-9	69.784	655.40	1.2222	257.95	655.40	1,2	298.15	33.24
10959	C7H9N	2,4-dimethylpyridine	108-47-4	70.550	647.00	1.2222	209.25	647.00	1,2	298.15	33.16
10960	C7H9N	2,5-dimethylpyridine	589-93-5	69.055	644.20	1.2222	257.65	644.20	1,2	298.15	32.31
10961	C7H9N	2,6-dimethylpyridine	108-48-5	69.922	623.75	1.2222	267.00	623.75	1,2	298.15	31.59
10962	C7H9N	3,4-dimethylpyridine	583-58-4	66.544	683.80	1.2222	262.15	683.80	2	298.15	33.04
10963	C7H9N	3,5-dimethylpyridine	591-22-0	69.742	667.20	1.2222	266.65	667.20	1,2	298.15	33.82
10964	C7H9N	2-ethylpyridine	100-71-0	69.330	636.20	1.2222	210.05	636.20	1,2	298.15	32.01
10965	C7H9N	3-ethylpyridine	536-78-7	70.645	657.70	1.2222	196.25	657.70	1,2	298.15	33.77
10966	C7H9N	4-ethylpyridine	536-75-4	69.433	668.20	1.2222	182.65	668.20	1,2	298.15	33.72
11047	C7H10	2-norbornene	498-66-8	57.267	583.00	1.2222	319.40	583.00	2	319.40	21.71
11049	C7H10	1-hepten-3-yne	2384-73-8	67.247	545.00	1.2222	230.00	545.00	2	298.15	25.54
11050	C7H10	3-ethyl-3-penten-1-yne	14272-54-9	64.519	545.00	1.2222	230.00	545.00	2	298.15	24.51
11056	C7H10	2-methyl-1-hexen-3-yne	23056-94-2	68.513	545.00	1.2222	230.00	545.00	2	298.15	26.02
11057	C7H10	1-methyl-1,3-cyclohexadiene	1489-56-1	64.839	545.00	1.2222	230.00	545.00	2	298.15	24.63
11079	C7H10N2	m-toluenediamine	95-80-7	99.056	804.00	1.2222	371.25	804.00	2	371.25	46.46
11225	C7H10S	2-propylthiophene	1551-27-5	62.920	649.23	1.2222	252.35	649.23	1,2	298.15	29.68
11226	C7H10S	3-propylthiophene	1518-75-8	63.719	652.99	1.2222	252.35	652.99	2	298.15	30.24
11227	C7H10S	2-isopropylthiophene	4095-22-1	65.161	640.96	1.2222	252.35	640.96	2	298.15	30.33
11228	C7H10S	3-isopropylthiophene	29488-27-5	63.851	652.61	1.2222	237.35	652.61	2	298.15	30.28
11229	C7H10S	2-methyl-3-ethylthiophene	53119-51-0	64.530	645.99	1.2222	235.98	645.99	2	298.15	30.28
11230	C7H10S	2-methyl-4-ethyl thiophene	13678-54-1	63.472	655.00	1.2222	214.15	655.00	2	298.15	30.21
11231	C7H10S	2-methyl-5-ethyl thiophene	40323-88-4	63.977	650.65	1.2222	204.65	650.65	2	298.15	30.25
11232	C7H10S	3-methyl-2-ethylthiophene	31805-48-8	63.819	652.00	1.2222	235.98	652.00	2	298.15	30.24
11233	C7H10S	3-methyl-4-ethyl thiophene	---	64.773	641.79	1.2222	235.98	641.79	2	298.15	30.19
11234	C7H10S	3-methyl-5-ethylthiophene	---	65.043	641.79	1.2222	235.98	641.79	2	298.15	30.31
11235	C7H10S	2,3,4-trimethylthiophene	1795-04-6	63.291	654.54	1.2222	246.95	654.54	2	298.15	30.11
11236	C7H10S	2,3,5-trimethylthiophene	1795-05-7	63.313	656.26	1.2222	219.61	656.26	2	298.15	30.20
11267	C7H11N	3-ethyl-4-methyl-1H-pyrrole	488-92-6	77.405	650.00	1.2222	274.65	650.00	2	298.15	36.56
11268	C7H11N	2-isopropylpyrrole	7696-51-7	81.639	650.00	1.2222	274.65	650.00	2	298.15	38.56
11269	C7H11N	1-propyl-1H-pyrrole	5145-64-2	65.260	650.00	1.2222	274.65	650.00	2	298.15	30.82

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
11270	C7H11N	3-propyl-1H-pyrrole	1551-09-3	77.405	650.00	1.2222	274.65	650.00	2	298.15	36.56
11271	C7H11N	1,2,5-trimethyl-1H-pyrrole	930-87-0	80.944	650.00	1.2222	274.65	650.00	2	298.15	38.23
11323	C7H12	1-ethylcyclopentene	2146-38-5	51.647	578.40	1.2222	154.75	578.40	2	298.15	21.30
11324	C7H12	3-ethylcyclopentene	694-35-9	53.314	565.35	1.2222	144.24	565.35	2	298.15	21.33
11325	C7H12	4-ethylcyclopentene	3742-38-9	53.224	566.02	1.2222	144.24	566.02	2	298.15	21.33
11326	C7H12	1,2-dimethylcyclopentene	765-47-9	51.532	579.44	1.2222	182.75	579.44	2	298.15	21.30
11327	C7H12	1,3-dimethylcyclopentene	62184-82-1	54.293	558.34	1.2222	127.87	558.34	2	298.15	21.35
11328	C7H12	1,4-dimethylcyclopentene	19550-48-2	54.034	560.17	1.2222	127.87	560.17	2	298.15	21.35
11329	C7H12	1,5-dimethylcyclopentene	16491-15-9	52.248	573.63	1.2222	155.15	573.63	2	298.15	21.32
11330	C7H12	3,3-dimethylcyclopentene	58049-91-5	54.190	559.35	1.2222	127.87	559.35	2	298.15	21.37
11331	C7H12	3,cis-4-dimethylcyclopentene	56039-55-5	54.423	557.42	1.2222	127.87	557.42	2	298.15	21.35
11332	C7H12	3,trans-4-dimethylcyclopentene	53225-40-4	54.423	557.42	1.2222	127.87	557.42	2	298.15	21.35
11333	C7H12	3,cis-5-dimethylcyclopentene	30213-29-7	54.423	557.42	1.2222	127.87	557.42	2	298.15	21.35
11334	C7H12	3,trans-5-dimethylcyclopentene	61394-27-2	54.423	557.42	1.2222	127.87	557.42	2	298.15	21.35
11335	C7H12	4,4-dimethylcyclopentene	19037-72-0	54.190	559.35	1.2222	127.87	559.35	2	298.15	21.37
11336	C7H12	1-methylcyclohexene	591-49-1	62.754	590.94	1.2222	153.75	590.94	1,2	298.15	26.60
11337	C7H12	3-methylcyclohexene	591-48-0	62.565	578.88	1.2222	149.64	578.88	2	298.15	25.83
11338	C7H12	4-methylcyclohexene	591-47-9	62.487	579.30	1.2222	157.74	579.30	2	298.15	25.83
11339	C7H12	3-methylcyclohexene, (±)	56688-75-6	61.881	583.04	1.2222	157.65	583.04	2	298.15	25.79
11340	C7H12	1-heptyne	628-71-7	57.475	559.69	1.2222	192.26	559.69	1,2	298.15	22.68
11341	C7H12	2-heptyne	1119-65-9	56.982	581.90	1.2222	274.25	581.90	2	298.15	23.69
11342	C7H12	3-heptyne	2586-89-2	57.326	574.59	1.2222	142.65	574.59	2	298.15	23.44
11343	C7H12	3-methyl-1-hexyne	40276-93-5	59.042	542.27	1.2222	200.12	542.27	2	298.15	22.26
11344	C7H12	4-methyl-1-hexyne	52713-81-2	58.472	551.35	1.2222	200.12	551.35	2	298.15	22.59
11345	C7H12	5-methyl-1-hexyne	2203-80-7	58.395	552.64	1.2222	149.15	552.64	2	298.15	22.63
11346	C7H12	4-methyl-2-hexyne	20198-49-6	57.224	568.05	1.2222	165.55	568.05	2	298.15	23.04
11347	C7H12	5-methyl-2-hexyne	53566-37-3	57.005	572.50	1.2222	180.25	572.50	2	298.15	23.20
11348	C7H12	2-methyl-3-hexyne	36566-80-0	57.566	561.44	1.2222	156.55	561.44	2	298.15	22.81
11349	C7H12	3-ethyl-1-pentyne	21020-26-8	59.143	540.76	1.2222	200.12	540.76	2	298.15	22.20
11350	C7H12	3,3-dimethyl-1-pentyne	918-82-1	59.011	528.91	1.2222	217.54	528.91	2	298.15	21.41
11351	C7H12	3,4-dimethyl-1-pentyne	61064-08-2	58.761	539.46	1.2222	185.12	539.46	2	298.15	21.98
11352	C7H12	4,4-dimethyl-1-pentyne	13361-63-2	58.362	538.28	1.2222	198.15	538.28	2	298.15	21.76
11353	C7H12	4,4-dimethyl-2-pentyne	999-78-0	57.118	552.81	1.2222	190.75	552.81	2	298.15	22.15
11358	C7H12	1,2-heptadiene	2384-90-9	51.799	556.00	1.2222	167.48	556.00	2	298.15	20.25
11359	C7H12	1,4-heptadiene	5675-22-9	49.799	556.00	1.2222	167.48	556.00	2	298.15	19.47
11360	C7H12	1,5-heptadiene	1541-23-7	49.962	556.00	1.2222	167.48	556.00	2	298.15	19.53
11361	C7H12	1,6-heptadiene	3070-53-9	50.448	556.00	1.2222	167.48	556.00	2	298.15	19.72
11362	C7H12	2,4-heptadiene	628-72-8	52.189	556.00	1.2222	167.48	556.00	2	298.15	20.40
11363	C7H12	2-methyl-1,5-hexadiene	4049-81-4	48.992	556.00	1.2222	144.35	556.00	2	298.15	19.15
11364	C7H12	2-methyl-2,4-hexadiene	28823-41-8	52.728	556.00	1.2222	198.95	556.00	2	298.15	20.61
11365	C7H12	2,4-dimethyl-1,3-pentadiene	1000-86-8	49.832	556.00	1.2222	159.15	556.00	2	298.15	19.48
11369	C7H12	2,4-dimethyl-2,3-pentadiene	1000-87-9	48.541	556.00	1.2222	167.48	556.00	2	298.15	18.98
11403	C7H12O	cycloheptanone	502-42-1	73.122	641.34	1.2222	278.15	481.01	1,2	298.15	34.05
11413	C7H12O	2-heptenal	2463-63-0	72.141	610.00	1.2222	220.00	610.00	2	298.15	31.77
11414	C7H12O	3-heptenal	89896-73-1	70.430	610.00	1.2222	220.00	610.00	2	298.15	31.02
11415	C7H12O	1-hepten-3-one	2918-13-0	66.522	615.00	1.2222	205.00	615.00	2	298.15	29.58
11416	C7H12O	4-hepten-2-one	24332-22-7	66.522	615.00	1.2222	220.00	615.00	2	298.15	29.58
11417	C7H12O	6-hepten-2-one	21889-88-3	65.961	615.00	1.2222	220.00	615.00	2	298.15	29.33
11418	C7H12O	6-hepten-3-one	2565-39-1	65.779	615.00	1.2222	220.00	615.00	2	298.15	29.25
11419	C7H12O	cis-3-hepten-2-one	69668-88-8	66.522	615.00	1.2222	220.00	615.00	2	298.15	29.58
11420	C7H12O	trans-3-hepten-2-one	5609-09-6	66.510	615.00	1.2222	220.00	615.00	2	298.15	29.57
11421	C7H12O	trans-5-hepten-2-one	1071-94-9	66.449	615.00	1.2222	220.00	615.00	2	298.15	29.54
11422	C7H12O	2-methyl-4-hexen-3-one	53252-19-0	66.143	615.00	1.2222	220.00	615.00	2	298.15	29.41
11423	C7H12O	3-methyl-5-hexen-2-one	2550-22-3	65.477	615.00	1.2222	220.00	615.00	2	298.15	29.11
11424	C7H12O	4-methyl-5-hexen-2-one	61675-14-7	65.507	615.00	1.2222	220.00	615.00	2	298.15	29.12
11425	C7H12O	5-methyl-1-hexen-3-one	2177-32-4	66.522	615.00	1.2222	220.00	615.00	2	298.15	29.58
11426	C7H12O	5-methyl-3-hexen-2-one	5166-53-0	66.522	615.00	1.2222	220.00	615.00	2	298.15	29.58
11427	C7H12O	5-methyl-4-hexen-2-one	28332-44-7	66.387	615.00	1.2222	220.00	615.00	2	298.15	29.52
11428	C7H12O	5-methyl-5-hexen-2-one	3240-09-3	66.265	615.00	1.2222	220.00	615.00	2	298.15	29.46
11429	C7H12O	2-methylcyclohexanone, (±)	24965-84-2	67.776	650.00	1.2222	259.25	650.00	1,2	298.15	32.01
11430	C7H12O	3-methylcyclohexanone, (±)	625-96-7	66.082	650.00	1.2222	199.65	650.00	1,2	298.15	31.21
11431	C7H12O	4-methylcyclohexanone	589-92-4	65.553	650.00	1.2222	232.55	650.00	1,2	298.15	30.96
11433	C7H12O	2,2-dimethyl-4-pentenal	5497-67-6	67.108	610.00	1.2222	220.00	610.00	2	298.15	29.56
11436	C7H12O	trans-2-heptenal	18829-55-5	70.805	610.00	1.2222	220.00	610.00	2	298.15	31.18
11437	C7H12O	(Z)-hept-4-enal	6728-31-0	70.805	610.00	1.2222	220.00	610.00	2	298.15	31.18
11439	C7H12O	methylcyclohexanone	1331-22-2	67.776	650.00	1.2222	255.45	650.00	1,2	298.15	32.01
11440	C7H12O	(R)-(+)-3-methylcyclohexanone	13368-65-5	66.434	650.00	1.2222	233.12	650.00	2	298.15	31.38
11441	C7H12O	2-methylcyclohexanone	583-60-8	67.981	650.00	1.2222	260.10	650.00	2	298.15	32.11
11442	C7H12O	3-methylcyclohexanone	591-24-2	66.144	650.00	1.2222	191.70	650.00	2	298.15	31.24
11445	C7H12O	(Z)-5-hepten-2-one	4535-61-9	66.238	615.00	1.2222	230.00	615.00	2	298.15	29.45
11446	C7H12O	(S)-3-methylcyclohexanone	24965-87-5	67.203	650.00	1.2222	233.12	650.00	2	298.15	31.74
11450	C7H12O2	butyl acrylate	141-32-2	64.003	598.00	1.2222	208.55	598.00	2	298.15	27.53
11450.1	C7H12O2	sec-butyl acrylate	2998-08-5	61.440	580.00	1.2222	210.15	580.00	2	298.15	25.43
11451	C7H12O2	isobutyl acrylate	106-63-8	64.027	580.00	1.2222	212.00	580.00	2	298.15	26.50
11452	C7H12O2	propyl methacrylate	2210-28-8	62.844	599.00	1.2222	212.00	599.00	2	298.15	27.08
11453	C7H12O2	isopropyl methacrylate	4655-34-9	61.226	592.33	1.2222	210.85	592.33	2	298.15	26.03
11454	C7H12O2	allyl butanoate	2051-78-7	61.466	592.33	1.2222	210.85	592.33	1,2	298.15	26.13
11466	C7H12O2	2,2-dimethyl-4-pentenoic acid	16386-93-9	55.166	716.00	1.2222	263.90	716.00	2	298.15	28.56
11467	C7H12O2	2-heptenoic acid	18999-28-5	55.683	716.00	1.2222	254.15	716.00	2	298.15	28.83
11468	C7H12O2	4-heptenoic acid	35194-37-7	55.166	716.00	1.2222	263.90	716.00	2	298.15	28.56

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
11469	C7H12O2	5-heptenoic acid	3593-00-8	55.495	716.00	1.2222	263.90	716.00	2	298.15	28.73
11470	C7H12O2	6-heptenoic acid	1119-60-4	55.656	716.00	1.2222	266.65	716.00	2	298.15	28.82
11471	C7H12O2	2-methyl-3-hexenoic acid	73513-50-5	55.166	716.00	1.2222	263.90	716.00	2	298.15	28.56
11472	C7H12O2	3-methyl-3-hexenoic acid	35205-71-1	55.166	716.00	1.2222	263.90	716.00	2	298.15	28.56
11473	C7H12O2	4-methyl-2-hexenoic acid	37549-83-0	55.166	716.00	1.2222	263.90	716.00	2	298.15	28.56
11474	C7H12O2	4-methyl-3-hexenoic acid	55665-79-7	55.166	716.00	1.2222	263.90	716.00	2	298.15	28.56
11475	C7H12O2	5-methyl-2-hexenoic acid	41653-96-7	55.683	716.00	1.2222	289.65	716.00	2	298.15	28.83
11476	C7H12O2	5-methyl-4-hexenoic acid	5636-65-7	55.174	716.00	1.2222	245.15	716.00	2	298.15	28.57
11477	C7H12O2	trans-2-methyl-2-hexenoic acid	97961-66-5	54.537	716.00	1.2222	263.90	716.00	2	298.15	28.24
11480	C7H12O2	ethyl 3-methyl-2-butenoate	638-10-8	65.574	592.33	1.2222	210.85	592.33	2	298.15	27.88
11481	C7H12O2	ethyl trans-2-methyl-2-butenoate	5837-78-5	65.929	592.33	1.2222	210.85	592.33	2	298.15	28.03
11483	C7H12O2	methyl 3-hexenoate	2396-78-3	68.432	592.33	1.2222	210.85	592.33	2	298.15	29.09
11484	C7H12O2	methyl 2-methyl-2-pentenoate	10478-12-3	68.432	592.33	1.2222	210.85	592.33	2	298.15	29.09
11485	C7H12O2	methyl 3-methyl-3-pentenoate	2258-58-4	68.432	592.33	1.2222	210.85	592.33	2	298.15	29.09
11486	C7H12O2	methyl cis-3-methyl-2-pentenoate	17447-00-6	68.432	592.33	1.2222	210.85	592.33	2	298.15	29.09
11487	C7H12O2	methyl trans-3-methyl-2-pentenoate	17447-01-7	65.214	592.33	1.2222	210.85	592.33	2	298.15	27.72
11488	C7H12O2	tert-butyl acrylate	1663-39-4	68.432	592.33	1.2222	210.85	592.33	2	298.15	29.09
11491	C7H12O2	methyl trans-2-methyl-2-pentenoate	1567-14-2	68.432	592.33	1.2222	210.85	592.33	2	298.15	29.09
11492	C7H12O2	4-pentenyl acetate	1576-85-8	64.335	592.33	1.2222	210.85	592.33	2	298.15	27.35
11497	C7H12O2	3,3-dimethylallyl acetate	1191-16-8	68.432	592.33	1.2222	210.85	592.33	2	298.15	29.09
11500	C7H12O2	cis-3-hexenyl formate	33467-73-1	68.432	592.33	1.2222	210.85	592.33	2	298.15	29.09
11530	C7H12O4	diethyl malonate	105-53-3	63.900	653.00	1.1685	224.25	653.00	1,2	298.15	31.33
11569	C7H13Br	cis-1-bromo-1-heptene	39924-57-7	59.472	630.55	1.2222	175.15	630.55	2	298.15	27.19
11570	C7H13Br	trans-1-bromo-1-heptene	53434-74-5	59.472	630.55	1.2222	175.15	630.55	2	298.15	27.19
11586	C7H13Br3	1,1,1-tribromoheptane	62127-64-4	86.370	756.89	1.2222	349.97	756.89	2	349.97	40.45
11587	C7H13Cl	cis-1-chloro-1-heptene	53268-66-9	62.248	613.52	1.2222	192.99	613.52	2	298.15	27.60
11588	C7H13Cl	trans-1-chloro-1-heptene	53268-67-0	62.248	613.52	1.2222	192.99	613.52	2	298.15	27.60
11589	C7H13Cl	1-chloro-1-heptene	2384-75-0	62.767	613.52	1.2222	192.99	613.52	2	298.15	27.83
11590	C7H13Cl	2-chloro-1-heptene	65786-11-0	61.063	613.52	1.2222	192.99	613.52	2	298.15	27.07
11591	C7H13Cl	4-chloro-3-heptene	2431-24-5	61.063	613.52	1.2222	192.99	613.52	2	298.15	27.07
11612	C7H13Cl3	1,1,1-trichloroheptane	3922-26-7	71.190	676.24	1.2222	260.33	676.24	2	298.15	34.98
11613	C7H13F	cis-1-fluoro-1-heptene	28028-91-3	56.637	525.96	1.2222	195.22	525.96	2	298.15	20.37
11614	C7H13F	trans-1-fluoro-1-heptene	28028-92-4	56.637	525.96	1.2222	195.22	525.96	2	298.15	20.37
11618	C7H13F3	1,1,1-trifluoroheptane	693-09-4	52.125	527.90	1.2222	267.02	527.90	2	298.15	18.86
11619	C7H13I	cis-1-iodo-1-heptene	63318-29-6	60.613	677.01	1.2222	221.13	677.01	2	298.15	29.81
11620	C7H13I	trans-1-iodo-1-heptene	60595-37-1	60.613	677.01	1.2222	221.13	677.01	2	298.15	29.81
11621	C7H13I3	1,1,1-triiodoheptane	---	70.065	912.73	1.2222	344.75	912.73	2	344.75	39.24
11622	C7H13N	heptanenitrile	629-08-3	59.416	643.10	1.2222	210.55	643.10	1,2	298.15	27.75
11696	C7H14	ethylcyclopentane	1640-89-7	56.983	569.52	1.2044	134.71	569.52	1,2	298.15	23.33
11697	C7H14	1,1-dimethylcyclopentane	1638-26-2	55.282	547.00	1.2168	203.36	547.00	1,2	298.15	21.20
11698	C7H14	1,2-dimethylcyclopentane	2452-99-5	57.164	556.47	1.2222	154.10	556.47	2	298.15	22.38
11699	C7H14	cis-1,2-dimethylcyclopentane	1192-18-3	56.427	565.15	1.2222	219.26	565.15	2	298.15	22.57
11700	C7H14	trans-1,2-dimethylcyclopentane	822-50-4	56.725	553.15	1.2222	155.58	553.15	2	298.15	22.02
11701	C7H14	1,3-dimethylcyclopentane	2453-00-1	56.260	556.47	1.2222	134.60	556.47	2	298.15	22.02
11702	C7H14	cis-1,3-dimethylcyclopentane	2532-58-3	56.835	551.00	1.2222	139.45	551.00	2	298.15	21.94
11703	C7H14	trans-1,3-dimethylcyclopentane	1759-58-6	56.721	553.00	1.2222	139.18	553.00	2	298.15	22.01
11704	C7H14	methylcyclohexane	108-87-2	63.100	572.19	1.3530	146.58	572.19	1,2	298.15	23.30
11705	C7H14	cycloheptane	291-64-5	65.680	604.30	1.3080	265.15	604.30	1,2	298.15	26.99
11706	C7H14	1-heptene	592-76-7	53.336	537.29	1.2236	154.27	537.29	1,2	298.15	19.81
11707	C7H14	2-heptene	592-77-8	53.211	537.61	1.2222	148.16	537.61	2	298.15	19.80
11708	C7H14	cis-2-heptene	6443-92-1	51.604	549.00	1.2222	164.00	549.00	2	298.15	19.81
11709	C7H14	trans-2-heptene	14686-13-6	52.368	543.00	1.2222	163.67	543.00	2	298.15	19.78
11710	C7H14	3-heptene	592-78-9	52.804	537.61	1.2222	148.16	537.61	2	298.15	19.65
11711	C7H14	3-heptene (mixed isomers)	25339-56-4	51.893	537.61	1.2222	148.16	537.61	2	298.15	19.31
11712	C7H14	cis-3-heptene	7642-10-6	51.718	545.00	1.2222	136.51	545.00	2	298.15	19.64
11713	C7H14	trans-3-heptene	14686-14-7	52.420	540.00	1.2222	136.52	540.00	2	298.15	19.64
11714	C7H14	2-methyl-1-hexene	6094-02-6	52.060	538.00	1.2222	170.28	538.00	2	298.15	19.40
11715	C7H14	3-methyl-1-hexene	3404-61-3	52.173	528.00	1.2222	145.00	528.00	2	298.15	18.88
11716	C7H14	4-methyl-1-hexene	3769-23-1	51.761	534.00	1.2222	131.70	534.00	2	298.15	19.06
11717	C7H14	5-methyl-1-hexene	3524-73-0	52.015	530.65	1.2222	151.39	530.65	2	298.15	18.97
11718	C7H14	2-methyl-2-hexene	2738-19-4	51.416	546.77	1.2222	142.80	546.77	2	298.15	19.62
11719	C7H14	3-methyl-cis-2-hexene	10574-36-4	51.346	549.51	1.2222	154.65	549.51	2	298.15	19.74
11720	C7H14	3-methyl-trans-2-hexene	20710-38-7	51.425	546.42	1.2222	143.85	546.42	2	298.15	19.61
11721	C7H14	4-methyl-cis-2-hexene	3683-19-0	51.680	534.04	1.2222	148.07	534.04	2	298.15	19.04
11722	C7H14	4-methyl-trans-2-hexene	3683-22-5	51.625	535.90	1.2222	147.46	535.90	2	298.15	19.12
11723	C7H14	5-methyl-cis-2-hexene	13151-17-2	51.541	538.78	1.2222	148.07	538.78	2	298.15	19.24
11724	C7H14	5-methyl-trans-2-hexene	7385-82-2	51.601	536.72	1.2222	148.81	536.72	2	298.15	19.15
11725	C7H14	2-methyl-cis-3-hexene	15840-60-5	51.694	533.58	1.2222	148.07	533.58	2	298.15	19.02
11726	C7H14	2-methyl-trans-3-hexene	692-24-0	51.699	533.44	1.2222	131.59	533.44	2	298.15	19.01
11727	C7H14	3-methyl-cis-3-hexene	4914-89-0	51.416	546.75	1.2222	149.11	546.75	2	298.15	19.62
11728	C7H14	3-methyl-trans-3-hexene	3899-36-3	51.489	543.99	1.2222	149.11	543.99	2	298.15	19.50
11729	C7H14	2-ethyl-1-pentene	3404-71-5	51.706	543.00	1.2222	168.00	543.00	2	298.15	19.53
11730	C7H14	3-ethyl-1-pentene	4038-04-4	51.900	530.00	1.2222	145.67	530.00	2	298.15	18.89
11731	C7H14	2,3-dimethyl-1-pentene	3404-72-6	51.518	532.72	1.2222	138.85	532.72	2	298.15	18.90
11732	C7H14	2,4-dimethyl-1-pentene	2213-32-3	51.641	528.74	1.2222	149.09	528.74	2	298.15	18.73
11733	C7H14	3,3-dimethyl-1-pentene	3404-73-7	51.034	527.74	1.2222	138.77	527.74	2	298.15	18.45
11734	C7H14	3,4-dimethyl-1-pentene	7385-78-6	51.558	528.31	1.2222	136.39	528.31	2	298.15	18.67
11735	C7H14	4,4-dimethyl-1-pentene	762-62-9	51.273	520.28	1.2222	136.55	520.28	2	298.15	18.12
11736	C7H14	3-ethyl-2-pentene	816-79-5	51.393	547.66	1.2222	149.11	547.66	2	298.15	19.66
11737	C7H14	2,3-dimethyl-2-pentene	10574-37-5	50.841	553.47	1.2222	154.88	553.47	2	298.15	19.75

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
11738	C7H14	2,4-dimethyl-2-pentene	625-65-0	51.269	533.21	1.2222	145.45	533.21	2	298.15	18.84
11739	C7H14	3,4-dimethyl-cis-2-pentene	4914-91-4	51.024	542.11	1.2222	159.76	542.11	2	298.15	19.23
11740	C7H14	3,4-dimethyl-trans-2-pentene	4914-92-5	50.939	545.47	1.2222	148.92	545.47	2	298.15	19.37
11741	C7H14	4,4-dimethyl-cis-2-pentene	762-63-0	50.494	534.97	1.2222	137.69	534.97	2	298.15	18.65
11742	C7H14	4,4-dimethyl-trans-2-pentene	690-08-4	50.762	528.63	1.2222	157.92	528.63	2	298.15	18.40
11743	C7H14	3-methyl-2-ethyl-1-butene	7357-93-9	51.426	535.82	1.2222	137.43	535.82	2	298.15	19.04
11744	C7H14	2,3,3-trimethyl-1-butene	594-56-9	50.617	531.00	1.2222	163.30	531.00	2	298.15	18.48
11745	C7H14	3,4-dimethylpent-2-ene	24910-63-2	51.390	537.61	1.2222	149.05	537.61	2	298.15	19.12
11746	C7H14	1,1,2,2-tetramethylcyclopropane	4127-47-3	62.584	530.00	1.2222	167.25	530.00	2	298.15	22.78
11747	C7H14	1,1-diethylcyclopropane	1003-19-6	61.340	530.00	1.2222	167.25	530.00	2	298.15	22.33
11751	C7H14Br2	1,1-dibromoheptane	59104-79-9	75.656	700.05	1.2222	272.75	700.05	2	298.15	38.39
11752	C7H14Br2	1,2-dibromoheptane	42474-21-5	75.813	700.05	1.2222	293.80	700.05	2	298.15	38.47
11753	C7H14Br2	1,5-dibromoheptane	1622-10-2	76.067	700.05	1.2222	293.80	700.05	2	298.15	38.60
11754	C7H14Br2	1,7-dibromoheptane	4549-31-9	79.371	700.05	1.2222	314.85	700.05	1,2	314.85	38.24
11755	C7H14Br2	2,3-dibromoheptane	21266-88-6	76.067	700.05	1.2222	293.80	700.05	2	298.15	38.60
11756	C7H14Br2	3,4-dibromoheptane	21266-90-0	76.067	700.05	1.2222	293.80	700.05	2	298.15	38.60
11763	C7H14Cl2	1,1-dichloroheptane	821-25-0	75.523	654.02	1.2222	212.99	654.02	2	298.15	35.90
11764	C7H14Cl2	1,2-dichloro-4,4-dimethylpentane	6065-90-3	74.280	654.02	1.2222	254.82	654.02	2	298.15	35.31
11765	C7H14Cl2	1,5-dichloro-3,3-dimethylpentane	62496-53-1	74.912	654.02	1.2222	254.82	654.02	2	298.15	35.61
11766	C7H14Cl2	2,4-dichloro-2,4-dimethylpentane	33553-93-4	74.912	654.02	1.2222	296.65	654.02	2	298.15	35.61
11767	C7H14Cl2	1,2-dichloroheptane	10575-87-8	74.912	654.02	1.2222	254.82	654.02	2	298.15	35.61
11768	C7H14Cl2	1,7-dichloroheptane	821-76-1	75.805	654.02	1.2222	254.82	654.02	1,2	298.15	36.03
11769	C7H14Cl2	2,2-dichloroheptane	65786-09-6	74.912	654.02	1.2222	254.82	654.02	2	298.15	35.61
11770	C7H14Cl2	4,4-dichloroheptane	89796-76-9	74.912	654.02	1.2222	254.82	654.02	2	298.15	35.61
11772	C7H14F2	1,1-difluoroheptane	407-96-5	57.146	556.10	1.2222	191.15	556.10	2	298.15	22.35
11774	C7H14I2	1,1-diiodoheptane	66675-46-5	80.755	780.77	1.2222	269.27	780.77	2	298.15	44.86
11827	C7H14O	1-heptanal	111-71-7	53.260	603.00	1.0367	230.15	603.00	1,2	298.15	26.26
11828	C7H14O	3-methylhexanal	19269-28-4	62.763	603.00	1.2222	230.15	603.00	2	298.15	27.27
11828.1	C7H14O	2-methylhexanal	925-54-2	61.356	593.00	1.2430	235.00	593.00	2	298.15	25.74
11829	C7H14O	2-heptanone	110-43-0	61.505	611.55	1.2810	238.15	611.55	1,2	298.15	26.12
11830	C7H14O	3-heptanone	106-35-4	59.492	600.16	1.2222	234.15	600.16	1,2	298.15	25.70
11831	C7H14O	4-heptanone	123-19-3	59.521	595.31	1.2222	240.65	595.31	1,2	298.15	25.46
11832	C7H14O	3-methyl-2-hexanone	2550-21-2	58.935	593.86	1.2222	203.08	593.86	2	298.15	25.13
11833	C7H14O	4-methyl-2-hexanone	105-42-0	59.057	592.42	1.2222	203.08	592.42	2	298.15	25.11
11834	C7H14O	5-methyl-2-hexanone	110-12-3	58.341	601.00	1.2222	199.25	601.00	2	298.15	25.25
11835	C7H14O	2-methyl-3-hexanone	7379-12-6	59.824	583.80	1.2222	203.08	583.80	2	298.15	24.97
11836	C7H14O	4-methyl-3-hexanone	17042-16-9	59.433	588.11	1.2222	203.08	588.11	2	298.15	25.04
11837	C7H14O	5-methyl-3-hexanone	623-56-3	59.433	588.11	1.2222	203.08	588.11	2	298.15	25.04
11838	C7H14O	3-ethyl-2-pentanone	6137-03-7	59.181	590.99	1.2222	203.08	590.99	2	298.15	25.09
11839	C7H14O	3,3-dimethyl-2-pentanone	20669-04-9	59.017	589.07	1.2222	220.50	589.07	2	298.15	24.92
11840	C7H14O	3,4-dimethyl-2-pentanone	565-78-6	59.395	586.69	1.2222	188.08	586.69	2	298.15	24.95
11841	C7H14O	4,4-dimethyl-2-pentanone	590-50-1	59.765	580.90	1.2222	209.15	580.90	2	298.15	24.79
11842	C7H14O	2,2-dimethyl-3-pentanone	564-04-5	59.765	580.90	1.2222	228.15	580.90	2	298.15	24.79
11843	C7H14O	2,4-dimethyl-3-pentanone	565-80-0	60.394	576.00	1.2222	204.81	576.00	2	298.15	24.78
11844	C7H14O	1-methylcyclohexanol	590-67-0	58.347	635.00	1.2222	299.15	635.00	2	299.15	26.79
11845	C7H14O	cis-2-methylcyclohexanol	7443-70-1	62.004	635.00	1.2222	280.15	635.00	2	298.15	28.57
11846	C7H14O	trans-2-methylcyclohexanol	7443-52-9	62.715	635.00	1.2222	269.15	635.00	2	298.15	28.90
11847	C7H14O	cis-3-methylcyclohexanol	5454-79-5	63.433	635.00	1.2222	267.65	635.00	2	298.15	29.23
11848	C7H14O	trans-3-methylcyclohexanol	7443-55-2	63.433	635.00	1.2222	272.65	635.00	2	298.15	29.23
11849	C7H14O	cis-4-methylcyclohexanol	7731-28-4	64.896	635.00	1.2222	272.65	635.00	2	298.15	29.90
11850	C7H14O	trans-4-methylcyclohexanol	7731-29-5	64.896	635.00	1.2222	272.65	635.00	2	298.15	29.90
11851	C7H14O	trans-2-methylcyclohexanol, (±)	615-39-4	63.193	635.00	1.2222	271.15	635.00	2	298.15	29.12
11852	C7H14O	cycloheptanol	502-41-0	68.970	650.57	1.2222	280.35	487.93	1,2	298.15	32.60
11855	C7H14O	1-hepten-4-ol	3521-91-3	59.937	601.00	1.2222	270.00	601.00	2	298.15	25.94
11856	C7H14O	2-hepten-4-ol, (±)	115113-98-9	60.056	601.00	1.2222	270.00	601.00	2	298.15	25.99
11857	C7H14O	3-hepten-2-ol	98991-54-9	59.728	601.00	1.2222	270.00	601.00	2	298.15	25.85
11858	C7H14O	6-hepten-2-ol	24395-10-6	59.728	601.00	1.2222	270.00	601.00	2	298.15	25.85
11859	C7H14O	6-hepten-3-ol	19781-77-2	59.728	601.00	1.2222	270.00	601.00	2	298.15	25.85
11860	C7H14O	cis-2-hepten-1-ol	55454-22-3	63.147	601.00	1.2222	270.00	601.00	2	298.15	27.33
11861	C7H14O	trans-2-hepten-1-ol	33467-76-4	63.147	601.00	1.2222	270.00	601.00	2	298.15	27.33
11862	C7H14O	2-methyl-3-hexen-2-ol	18812-62-9	59.728	601.00	1.2222	270.00	601.00	2	298.15	25.85
11863	C7H14O	2-methyl-4-hexen-3-ol	4798-60-1	58.226	601.00	1.2222	270.00	601.00	2	298.15	25.20
11864	C7H14O	2-methyl-5-hexen-2-ol	16744-89-1	43.908	601.00	0.8000	251.15	601.00	2	298.15	25.38
11865	C7H14O	3-methyl-3-hexen-2-ol	110383-31-8	59.728	601.00	1.2222	270.00	601.00	2	298.15	25.85
11866	C7H14O	3-methyl-4-hexen-3-ol	60111-14-0	59.728	601.00	1.2222	270.00	601.00	2	298.15	25.85
11867	C7H14O	3-methyl-5-hexen-3-ol	1569-44-4	58.156	601.00	1.2222	270.00	601.00	2	298.15	25.17
11868	C7H14O	4-methyl-5-hexen-3-ol	1838-77-3	58.366	601.00	1.2222	270.00	601.00	2	298.15	25.26
11869	C7H14O	5-methyl-1-hexen-3-ol	4798-46-3	56.135	601.00	1.2222	270.00	601.00	2	298.15	24.29
11870	C7H14O	5-methyl-2-hexenol	77053-92-0	62.078	601.00	1.2222	270.00	601.00	2	298.15	26.86
11871	C7H14O	isopentyl vinyl ether	39782-38-2	56.274	561.00	1.2222	163.50	561.00	2	298.15	22.28
11875	C7H14O	1-hepten-3-ol	4938-52-7	60.252	601.00	1.2222	230.00	601.00	2	298.15	26.07
11876	C7H14O	cis-4-hepten-1-ol	6191-71-5	59.728	601.00	1.2222	230.00	601.00	2	298.15	25.85
11877	C7H14O	methylcyclohexanol	25639-42-3	63.193	635.00	1.2222	223.25	635.00	2	298.15	29.12
11878	C7H14O	2-methylcyclohexanol; (cis+trans)	583-59-5	62.358	635.00	1.2222	298.15	635.00	2	298.15	28.73
11879	C7H14O	4-methylcyclohexanol; (cis+trans)	589-91-3	65.391	635.00	1.2222	223.25	635.00	2	298.15	30.13
11880	C7H14O	3-methylcyclohexanol; (cis+trans)	591-23-1	63.001	635.00	1.2222	199.25	635.00	2	298.15	29.03
11881	C7H14O	tert-pentyl vinyl ether	29281-39-8	52.703	561.00	1.2222	163.50	561.00	2	298.15	20.86
11882	C7H14O	1-(2-propenyloxy)butane	3739-64-8	83.933	561.00	1.2222	163.50	561.00	2	298.15	33.23
11884	C7H14O2	heptanoic acid	111-14-8	54.530	680.00	1.1706	265.83	680.00	1,2	298.15	27.75
11885	C7H14O2	2-ethyl-2-methylbutanoic acid	19889-37-3	54.698	680.00	1.2222	229.49	680.00	2	298.15	27.02

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
11886	C7H14O2	2-ethylpentanoic acid, (±)	116908-83-9	54.815	680.00	1.2222	229.49	680.00	2	298.15	27.08
11887	C7H14O2	2-methylhexanoic acid, (±)	22160-12-9	55.150	680.00	1.2222	229.49	680.00	2	298.15	27.24
11888	C7H14O2	3-methylhexanoic acid	3780-58-3	55.016	680.00	1.2222	229.49	680.00	2	298.15	27.18
11889	C7H14O2	4-methylhexanoic acid, (±)	22160-41-4	55.256	680.00	1.2222	193.15	680.00	2	298.15	27.29
11890	C7H14O2	5-methylhexanoic acid	628-46-6	55.176	680.00	1.2222	229.49	680.00	2	298.15	27.25
11891	C7H14O2	hexyl formate	629-33-4	60.698	612.30	1.2222	230.53	612.30	1,2	298.15	26.85
11892	C7H14O2	pentyl acetate	628-63-7	57.400	598.00	1.1980	202.35	598.00	1,2	298.15	25.10
11893	C7H14O2	1-methylbutyl acetate	626-38-0	60.038	579.00	1.2222	195.48	579.00	2	298.15	24.80
11894	C7H14O2	2-methylbutyl acetate	624-41-9	59.758	589.00	1.2222	195.48	589.00	2	298.15	25.23
11895	C7H14O2	isopentyl acetate	123-92-2	57.473	599.00	1.2222	194.65	599.00	1,2	298.15	24.77
11896	C7H14O2	1-ethylpropyl acetate	620-11-1	60.158	577.00	1.2222	195.48	577.00	2	298.15	24.73
11897	C7H14O2	tert-pentyl acetate	625-16-1	59.601	572.00	1.2222	212.90	572.00	2	298.15	24.23
11898	C7H14O2	1,2-dimethylpropyl acetate	5343-96-4	59.757	576.00	1.2222	180.48	576.00	2	298.15	24.51
11899	C7H14O2	neopentyl acetate	926-41-0	59.544	577.00	1.2222	212.90	577.00	2	298.15	24.48
11900	C7H14O2	sec-pentyl acetate (R)	54638-10-7	60.776	583.38	1.2222	198.72	583.38	2	298.15	25.35
11901	C7H14O2	butyl propanoate	590-01-2	57.230	594.00	1.1977	183.63	594.00	1,2	298.15	24.83
11902	C7H14O2	isobutyl propanoate	540-42-1	58.894	592.00	1.2222	201.75	592.00	2	298.15	25.02
11903	C7H14O2	sec-butyl propanoate	591-34-4	60.038	579.00	1.2222	195.48	579.00	2	298.15	24.80
11904	C7H14O2	tert-butyl propanoate	20487-40-5	64.574	557.00	1.2222	212.90	557.00	2	298.15	25.31
11905	C7H14O2	propyl butanoate	105-66-8	58.028	594.00	1.2340	177.95	594.00	1,2	298.15	24.55
11906	C7H14O2	isopropyl butanoate	638-11-9	57.698	574.00	1.2222	195.48	574.00	2	298.15	23.56
11907	C7H14O2	isopropyl isobutanoate	617-50-5	54.909	584.00	1.2222	186.72	584.00	2	298.15	22.93
11908	C7H14O2	propyl isobutanoate	644-49-5	56.990	584.00	1.2222	186.72	584.00	1,2	298.15	23.80
11909	C7H14O2	ethyl isovalerate	108-64-5	56.630	587.95	1.2590	173.85	587.95	1,2	298.15	23.24
11910	C7H14O2	ethyl 2,2-dimethylpropanoate	3938-95-2	57.577	580.50	1.2222	183.65	580.50	2	298.15	23.86
11911	C7H14O2	ethyl 2-methylbutanoate, (+)	10307-61-6	56.563	584.00	1.2222	186.72	584.00	2	298.15	23.62
11912	C7H14O2	ethyl pentanoate	539-82-2	59.711	587.95	1.2222	181.95	587.95	1,2	298.15	25.15
11913	C7H14O2	methyl 2-ethylbutanoate	816-11-5	57.129	584.00	1.2222	186.72	584.00	2	298.15	23.86
11914	C7H14O2	methyl hexanoate	106-70-7	62.631	587.95	1.2222	202.15	587.95	1,2	298.15	26.38
11923	C7H14O2	ethyl 2-methylbutyrate	7452-79-1	55.545	587.95	1.2222	185.98	587.95	2	298.15	23.40
11925	C7H14O2	2-methylhexanoic acid	4536-23-6	54.830	680.00	1.2222	229.49	680.00	2	298.15	27.08
11926	C7H14O2	neoheptanoic acid	33113-10-9	51.998	680.00	1.2222	229.49	680.00	2	298.15	25.69
11927.1	C7H14O2	allyl-tert-butylperoxide	39972-78-6	50.283	563.00	1.2054	213.27	563.00	2	298.15	20.26
11927.2	C7H14O2	neoheptanoic acid	1185-39-3	58.935	662.00	1.2660	230.00	662.00	2	298.15	27.62
11934.1	C7H14O3	propylene glycol ethyl ether acetate	54839-24-6	62.992	613.00	1.2107	213.00	613.00	2	298.15	28.12
11960	C7H14S	thiacyclooctane	6572-99-2	66.140	726.84	1.2222	256.18	726.84	2	298.15	34.69
11961	C7H14S	2-ethylthiacyclohexane	1613-52-1	61.442	646.42	1.2222	258.98	646.42	2	298.15	28.85
11962	C7H14S	3-ethylthiacyclohexane	61568-48-7	61.442	646.42	1.2222	258.98	646.42	2	298.15	28.85
11963	C7H14S	4-ethylthiacyclohexane	40324-31-0	61.442	646.42	1.2222	258.98	646.42	2	298.15	28.85
11964	C7H14S	2,2-dimethylthiacyclohexane	---	61.659	657.02	1.2222	282.88	657.02	2	298.15	29.44
11965	C7H14S	2,cis-3-dimethylthiacyclohexane	---	58.244	641.36	1.2222	254.74	641.36	2	298.15	27.12
11966	C7H14S	2,trans-3-dimethylthiacyclohexane	---	58.244	641.36	1.2222	254.74	641.36	2	298.15	27.12
11967	C7H14S	2,cis-4-dimethylthiacyclohexane	---	58.244	641.36	1.2222	254.74	641.36	2	298.15	27.12
11968	C7H14S	2,trans-4-dimethylthiacyclohexane	---	58.244	641.36	1.2222	254.74	641.36	2	298.15	27.12
11969	C7H14S	2,cis-5-dimethylthiacyclohexane	---	58.244	641.36	1.2222	254.74	641.36	2	298.15	27.12
11970	C7H14S	2,trans-5-dimethylthiacyclohexane	---	58.244	641.36	1.2222	254.74	641.36	2	298.15	27.12
11971	C7H14S	2,cis-6-dimethylthiacyclohexane	---	58.244	641.36	1.2222	254.74	641.36	2	298.15	27.12
11972	C7H14S	2,trans-6-dimethylthiacyclohexane	---	58.244	641.36	1.2222	254.74	641.36	2	298.15	27.12
11973	C7H14S	3,3-dimethylthiacyclohexane	---	61.659	657.02	1.2222	282.88	657.02	2	298.15	29.44
11974	C7H14S	3,cis-4-dimethylthiacyclohexane	---	58.244	641.36	1.2222	254.74	641.36	2	298.15	27.12
11975	C7H14S	3,trans-4-dimethylthiacyclohexane	---	58.244	641.36	1.2222	254.74	641.36	2	298.15	27.12
11976	C7H14S	3,cis-5-dimethylthiacyclohexane	---	58.244	641.36	1.2222	254.74	641.36	2	298.15	27.12
11977	C7H14S	3,trans-5-dimethylthiacyclohexane	---	58.244	641.36	1.2222	254.74	641.36	2	298.15	27.12
11978	C7H14S	4,4-dimethylthiacyclohexane	---	61.659	657.02	1.2222	282.88	657.02	2	298.15	29.44
11982	C7H15Br	1-bromoheptane	629-04-9	59.360	651.00	1.2140	217.05	651.00	1,2	298.15	28.22
11983	C7H15Br	2-bromoheptane	1974-04-5	60.840	651.00	1.2222	320.15	651.00	1,2	320.15	26.60
11984	C7H15Br	4-bromoheptane	998-93-6	57.380	651.00	1.2222	268.60	651.00	2	298.15	27.14
11988	C7H15Cl	1-chloroheptane	629-06-1	60.096	621.08	1.2222	203.65	621.08	1,2	298.15	27.02
11989	C7H15Cl	2-chloro-2,3-dimethylpentane	59889-45-1	57.264	621.08	1.2222	239.33	621.08	2	298.15	25.75
11990	C7H15Cl	2-chloro-2,4-dimethylpentane	35951-33-8	55.970	621.08	1.2222	239.33	621.08	2	298.15	25.16
11991	C7H15Cl	3-chloro-2,3-dimethylpentane	595-38-0	55.970	621.08	1.2222	239.33	621.08	2	298.15	25.16
11992	C7H15Cl	4-chloro-2,2-dimethylpentane	33429-72-0	55.970	621.08	1.2222	239.33	621.08	2	298.15	25.16
11993	C7H15Cl	3-chloro-3-ethylpentane	994-25-2	57.593	621.08	1.2222	239.33	621.08	2	298.15	25.89
11994	C7H15Cl	2-chloroheptane	1001-89-4	57.264	621.08	1.2222	239.33	621.08	2	298.15	25.75
11995	C7H15Cl	3-chloroheptane	999-52-0	57.644	621.08	1.2222	239.33	621.08	2	298.15	25.92
11996	C7H15Cl	4-chloroheptane	998-95-8	57.644	621.08	1.2222	239.33	621.08	2	298.15	25.92
11997	C7H15Cl	1-chloro-3-methylhexane	101257-63-0	58.340	621.08	1.2222	239.33	621.08	2	298.15	26.23
11998	C7H15Cl	2-chloro-2-methylhexane	4398-65-6	56.716	621.08	1.2222	239.33	621.08	2	298.15	25.50
11999	C7H15Cl	2-chloro-5-methylhexane	58766-17-9	57.030	621.08	1.2222	239.33	621.08	2	298.15	25.64
12000	C7H15Cl	3-chloro-3-methylhexane	43197-78-0	56.716	621.08	1.2222	239.33	621.08	2	298.15	25.50
12001	C7H15Cl	2-chloro-2,3,3-trimethylbutane	918-07-0	57.264	621.08	1.2222	275.00	621.08	2	298.15	25.75
12015	C7H15F	1-fluoroheptane	661-11-0	58.398	555.80	1.2222	200.15	555.80	1,2	298.15	22.82
12020	C7H15I	1-iodoheptane	4282-40-0	64.745	646.56	1.2222	224.95	646.56	1,2	298.15	30.41
12021	C7H15I	2-iodoheptane	18589-29-2	63.756	646.56	1.2222	224.95	646.56	2	298.15	29.95
12022	C7H15I	3-iodoheptane	31294-92-5	63.756	646.56	1.2222	224.95	646.56	2	298.15	29.95
12023	C7H15I	4-iodoheptane	31294-93-6	63.756	646.56	1.2222	224.95	646.56	2	298.15	29.95
12024	C7H15N	N-methylcyclohexylamine	100-60-7	70.637	622.00	1.2222	264.65	622.00	2	298.15	31.81
12025	C7H15N	cyclohexanemethanamine	3218-02-8	72.103	622.00	1.2222	264.65	622.00	2	298.15	32.47
12026	C7H15N	cis-2-methylcyclohexylamine	2164-19-4	71.245	622.00	1.2222	264.65	622.00	2	298.15	32.09
12027	C7H15N	trans-2-methylcyclohexylamine	931-10-2	70.787	622.00	1.2222	264.65	622.00	2	298.15	31.88

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
12028	C7H15N	cis-3-methylcyclohexylamine	1193-16-4	71.179	622.00	1.2222	264.65	622.00	2	298.15	32.06
12029	C7H15N	trans-3-methylcyclohexylamine	1193-17-5	70.983	622.00	1.2222	264.65	622.00	2	298.15	31.97
12030	C7H15N	cis-4-methylcyclohexylamine	2523-56-0	71.245	622.00	1.2222	264.65	622.00	2	298.15	32.09
12031	C7H15N	trans-4-methylcyclohexylamine	2523-55-9	71.048	622.00	1.2222	264.65	622.00	2	298.15	32.00
12032	C7H15N	2,6-dimethylpiperidine	504-03-0	68.356	568.21	1.2222	259.88	426.16	2	298.15	27.54
12033	C7H15N	3,3-dimethylpiperidine	1193-12-0	65.565	582.41	1.2222	259.88	436.81	2	298.15	27.29
12034	C7H15N	1,2-dimethylpiperidine, (±)	2512-81-4	68.209	568.92	1.2222	259.88	426.69	2	298.15	27.53
12035	C7H15N	2,5-dimethylpiperidine	34893-50-0	65.565	582.41	1.2222	259.88	436.81	2	298.15	27.29
12036	C7H15N	3,5-dimethylpiperidine	35794-11-7	63.770	592.35	1.2222	259.88	444.26	2	298.15	27.11
12037	C7H15N	1-ethylpiperidine	766-09-6	67.262	573.61	1.2222	259.88	430.21	2	298.15	27.44
12038	C7H15N	2-ethylpiperidine, (±)	78738-37-1	64.144	590.22	1.2222	259.88	442.67	2	298.15	27.15
12039	C7H15N	3-ethylpiperidine, (±)	59433-08-8	61.719	604.57	1.2222	259.88	453.42	2	298.15	26.90
12040	C7H15N	4-ethylpiperidine	3230-23-7	61.400	606.55	1.2222	259.88	454.91	2	298.15	26.86
12049	C7H15N	3-methylcyclohexylamine	6850-35-7	70.787	622.00	1.2222	264.65	622.00	2	298.15	31.88
12050	C7H15N	2-methylcyclohexylamine; (cis+trans)	7003-32-9	70.722	622.00	1.2222	264.65	622.00	2	298.15	31.85
12051	C7H15N	4-methylcyclohexylamine	6321-23-9	71.114	622.00	1.2222	264.65	622.00	2	298.15	32.03
12075	C7H15NO2	1-nitroheptane	693-39-0	61.414	675.30	1.2222	311.76	675.30	2	311.76	28.81
12112	C7H16	heptane	142-82-5	53.640	540.26	1.2431	182.57	540.26	1,2	298.15	19.78
12113	C7H16	2-methylhexane	591-76-4	50.354	530.37	1.1933	154.90	530.37	1,2	298.15	18.79
12114	C7H16	3-methylhexane	589-34-4	51.385	535.25	1.2024	153.75	535.25	1,2	298.15	19.30
12115	C7H16	3-ethylpentane	617-78-7	53.470	540.64	1.2315	154.55	540.64	1,2	298.15	19.92
12116	C7H16	2,2-dimethylpentane	590-35-2	49.260	520.50	1.2150	149.34	520.50	1,2	298.15	17.53
12117	C7H16	2,3-dimethylpentane	565-59-3	51.376	537.35	1.1990	138.15	537.35	1,2	298.15	19.47
12118	C7H16	2,4-dimethylpentane	108-08-7	49.068	519.79	1.2002	153.91	519.79	1,2	298.15	17.64
12119	C7H16	3,3-dimethylpentane	562-49-2	51.570	536.40	1.2257	138.70	536.40	1,2	298.15	19.07
12120	C7H16	2,2,3-trimethylbutane	464-06-2	50.110	531.17	1.2222	248.57	531.17	2	298.15	18.30
12121	C7H16	3-methylhexane, (S)-	6131-24-4	51.867	532.41	1.2222	154.15	532.41	2	298.15	19.02
12164	C7H16O	1-heptanol	111-70-6	45.392	631.90	0.8000	239.15	631.90	2	298.15	27.24
12165	C7H16O	2-heptanol	543-49-7	46.376	588.00	0.8000	243.00	588.00	2	298.15	26.33
12166	C7H16O	3-heptanol	589-82-2	46.273	585.83	0.8000	203.15	585.83	2	298.15	26.20
12167	C7H16O	4-heptanol	589-55-9	46.254	583.10	0.8000	231.15	583.10	2	298.15	26.08
12168	C7H16O	2-methyl-1-hexanol	624-22-6	46.331	594.41	0.8000	213.97	594.41	2	298.15	26.54
12169	C7H16O	3-methyl-1-hexanol	13231-81-7	46.409	606.68	0.8000	213.97	606.68	2	298.15	27.02
12170	C7H16O	4-methyl-1-hexanol	818-49-5	46.417	608.04	0.8000	213.97	608.04	2	298.15	27.07
12171	C7H16O	5-methyl-1-hexanol	627-98-5	46.509	605.00	0.8000	213.97	605.00	2	298.15	27.02
12172	C7H16O	2-methyl-2-hexanol	625-23-0	45.666	573.58	0.8000	231.39	573.58	2	298.15	25.39
12173	C7H16O	3-methyl-2-hexanol	2313-65-7	46.002	582.81	0.8000	198.97	582.81	2	298.15	25.93
12174	C7H16O	4-methyl-2-hexanol	2313-61-3	45.991	581.44	0.8000	198.97	581.44	2	298.15	25.87
12175	C7H16O	5-methyl-2-hexanol	627-59-8	45.991	581.44	0.8000	198.97	581.44	2	298.15	25.87
12176	C7H16O	2-methyl-3-hexanol	617-29-8	45.926	573.21	0.8000	198.97	573.21	2	298.15	25.52
12177	C7H16O	3-methyl-3-hexanol	597-96-6	45.666	573.58	0.8000	231.39	573.58	2	298.15	25.39
12178	C7H16O	4-methyl-3-hexanol	615-29-2	45.969	578.70	0.8000	198.97	578.70	2	298.15	25.76
12179	C7H16O	5-methyl-3-hexanol	623-55-2	45.959	577.32	0.8000	198.97	577.32	2	298.15	25.70
12180	C7H16O	2-ethyl-1-pentanol	27522-11-8	46.357	598.50	0.8000	213.97	598.50	2	298.15	26.70
12181	C7H16O	3-ethyl-1-pentanol	66225-51-2	46.357	598.50	0.8000	213.97	598.50	2	298.15	26.70
12182	C7H16O	2,2-dimethyl-1-pentanol	2370-12-9	45.787	587.65	0.8000	231.39	587.65	2	298.15	25.99
12183	C7H16O	2,3-dimethyl-1-pentanol	10143-23-4	46.125	599.26	0.8000	198.97	599.26	2	298.15	26.60
12184	C7H16O	2,4-dimethyl-1-pentanol	6305-71-1	46.075	592.40	0.8000	198.97	592.40	2	298.15	26.32
12185	C7H16O	3,3-dimethyl-1-pentanol	19264-94-9	45.921	604.20	0.8000	231.39	604.20	2	298.15	26.65
12186	C7H16O	3,4-dimethyl-1-pentanol	6570-87-2	46.135	600.63	0.8000	198.97	600.63	2	298.15	26.65
12187	C7H16O	4,4-dimethyl-1-pentanol	3121-79-7	45.866	597.30	0.8000	231.39	597.30	2	298.15	26.38
12188	C7H16O	3-ethyl-2-pentanol	609-27-8	46.002	582.81	0.8000	198.97	582.81	2	298.15	25.93
12189	C7H16O	2,3-dimethyl-2-pentanol	4911-70-0	45.373	571.87	0.8000	216.39	571.87	2	298.15	25.17
12190	C7H16O	2,4-dimethyl-2-pentanol	625-06-9	45.293	563.54	0.8000	216.39	563.54	2	298.15	24.80
12191	C7H16O	3,3-dimethyl-2-pentanol	19781-24-9	45.479	582.97	0.8000	216.39	582.97	2	298.15	25.64
12192	C7H16O	3,4-dimethyl-2-pentanol	64502-86-9	45.784	587.70	0.8000	183.97	587.70	2	298.15	25.99
12193	C7H16O	4,4-dimethyl-2-pentanol	6144-93-0	45.360	570.48	0.8000	213.15	570.48	2	298.15	25.10
12194	C7H16O	3-ethyl-3-pentanol	597-49-9	45.662	573.17	0.8000	260.75	573.17	2	298.15	25.38
12195	C7H16O	2,2-dimethyl-3-pentanol	3970-62-5	45.333	567.71	0.8000	278.15	567.71	2	298.15	24.98
12196	C7H16O	2,3-dimethyl-3-pentanol	595-41-5	45.386	573.26	0.8000	216.39	573.26	2	298.15	25.23
12197	C7H16O	2,4-dimethyl-3-pentanol	600-36-2	45.614	568.11	0.8000	265.15	568.11	2	298.15	25.15
12198	C7H16O	2-methyl-2-ethyl-1-butanol	18371-13-6	45.833	593.16	0.8000	231.39	593.16	2	298.15	26.21
12199	C7H16O	3-methyl-2-ethyl-1-butanol	32444-34-1	46.105	596.52	0.8000	198.97	596.52	2	298.15	26.49
12200	C7H16O	2,2,3-trimethyl-1-butanol	55505-23-2	45.605	596.85	0.8000	216.39	596.85	2	298.15	26.21
12201	C7H16O	2,3,3-trimethyl-1-butanol	36794-64-6	45.642	601.01	0.8000	216.39	601.01	2	298.15	26.38
12202	C7H16O	2,3,3-trimethyl-2-butanol	594-83-2	44.748	568.02	0.8000	290.15	568.02	2	298.15	24.67
12203	C7H16O	2,4-dimethyl-1-pentanol, (±)	111768-02-6	46.409	587.20	0.8000	219.25	587.20	2	298.15	26.32
12204	C7H16O	2-heptanol, (±)	52390-72-4	46.409	587.20	0.8000	219.25	587.20	2	298.15	26.32
12205	C7H16O	3-heptanol, (S)	26549-25-7	46.213	587.20	0.8000	203.15	587.20	2	298.15	26.21
12206	C7H16O	2-methyl-1-hexanol, (±)	111768-04-8	46.889	587.20	0.8000	219.25	587.20	2	298.15	26.60
12207	C7H16O	3-methyl-1-hexanol, (±)	111768-08-2	47.451	587.20	0.8000	219.25	587.20	2	298.15	26.92
12208	C7H16O	4-methyl-1-hexanol, (±)	111768-05-9	47.726	587.20	0.8000	219.25	587.20	2	298.15	27.07
12209	C7H16O	2-methyl-3-hexanol, (±)	100295-82-7	44.790	587.20	0.8000	219.25	587.20	2	298.15	25.41
12210	C7H16O	5-methyl-3-hexanol, (±)	100295-83-8	45.206	587.20	0.8000	219.25	587.20	2	298.15	25.64
12211	C7H16O	isopropyl-tert-butyl-ether	17348-59-3	52.109	558.21	1.2222	177.80	558.21	2	298.15	20.49
12212	C7H16O	butyl propyl ether	3073-92-5	54.045	558.21	1.2222	177.80	558.21	2	298.15	21.25
12212.1	C7H16O	isopropyl isobutyl ether	78448-33-6	50.313	537.00	1.2935	180.00	537.00	2	298.15	17.64
12213	C7H16O	2-ethoxy-2-methylbutane	919-94-8	51.553	558.21	1.2222	177.80	558.21	2	298.15	20.27
12214	C7H16O	ethyl isopentyl ether	628-04-6	53.195	558.21	1.2222	177.80	558.21	2	298.15	20.91
12215	C7H16O	ethyl pentyl ether	17952-11-3	55.220	558.21	1.2222	177.80	558.21	1,2	298.15	21.71

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
12216	C7H16O	hexyl methyl ether	4747-07-3	57.789	558.21	1.2222	177.80	558.21	1,2	298.15	22.72
12217	C7H16O	1-(1-methylethoxy)butane	1860-27-1	52.499	558.21	1.2222	177.80	558.21	2	298.15	20.64
12218	C7H16O	2-methyl-1-propoxypropane	15268-49-2	52.028	558.21	1.2222	177.80	558.21	2	298.15	20.46
12219	C7H16O	2-methyl-2-propoxypropane	29072-93-3	51.233	558.21	1.2222	177.80	558.21	2	298.15	20.14
12220	C7H16O	(S)-(+)-2-heptanol	6033-23-4	45.881	587.20	0.8000	219.25	587.20	2	298.15	26.02
12221	C7H16O	(R)-(-)-2-heptanol	6033-24-5	45.268	587.20	0.8000	219.25	587.20	2	298.15	25.68
12224	C7H16O2	1,2-heptanediol	3710-31-4	102.110	661.26	1.2222	274.79	661.26	2	298.15	49.08
12225	C7H16O2	1,3-heptanediol	23433-04-7	101.304	675.49	1.2222	274.79	675.49	2	298.15	49.72
12226	C7H16O2	1,4-heptanediol	40646-07-9	96.849	702.65	1.2222	274.79	702.65	2	298.15	49.32
12227	C7H16O2	1,5-heptanediol	60096-09-5	99.375	660.61	1.2222	283.23	660.61	2	298.15	47.72
12228	C7H16O2	1,6-heptanediol	13175-27-4	104.173	627.98	1.2222	274.79	627.98	2	298.15	47.42
12229	C7H16O2	1,7-heptanediol	629-30-1	101.657	683.18	1.2222	293.15	683.18	2	298.15	50.44
12230	C7H16O2	2,3-heptanediol	21508-07-6	101.917	660.11	1.2222	259.79	660.11	2	298.15	48.90
12231	C7H16O2	2,4-heptanediol	20748-86-1	101.917	660.11	1.2222	259.79	660.11	2	298.15	48.90
12232	C7H16O2	2,6-heptanediol	5969-12-0	101.917	660.11	1.2222	259.79	660.11	2	298.15	48.90
12233	C7H16O2	2-methyl-1,2-hexanediol	56255-50-6	102.544	644.63	1.2222	292.21	644.63	2	298.15	48.01
12234	C7H16O2	2-methyl-2,4-hexanediol	66225-35-2	100.446	677.27	1.2222	277.21	677.27	2	298.15	49.43
12235	C7H16O2	2-methyl-2,5-hexanediol	29044-06-2	100.446	677.27	1.2222	309.65	677.27	2	309.65	47.60
12236	C7H16O2	3-methyl-1,6-hexanediol	4089-71-8	104.173	627.98	1.2222	274.79	627.98	2	298.15	47.42
12237	C7H16O2	3-methyl-2,4-hexanediol	---	99.919	692.59	1.2222	244.79	692.59	2	298.15	50.21
12238	C7H16O2	3-methyl-3,4-hexanediol	18938-47-1	100.446	677.27	1.2222	277.21	677.27	2	298.15	49.43
12239	C7H16O2	4-methyl-1,5-hexanediol	66225-37-4	101.917	660.11	1.2222	259.79	660.11	2	298.15	48.90
12240	C7H16O2	4-methyl-2,4-hexanediol	38836-25-8	100.446	677.27	1.2222	271.15	677.27	2	298.15	49.43
12241	C7H16O2	5-methyl-1,5-hexanediol	1462-11-9	102.544	644.63	1.2222	292.21	644.63	2	298.15	48.01
12242	C7H16O2	5-methyl-2,4-hexanediol	54877-00-8	99.919	692.59	1.2222	244.79	692.59	2	298.15	50.21
12243	C7H16O2	2-ethyl-1,3-pentanediol	29887-11-4	102.867	645.60	1.2222	258.42	645.60	2	298.15	48.24
12244	C7H16O2	2-ethyl-1,5-pentanediol	14189-13-0	104.173	627.98	1.2222	274.79	627.98	2	298.15	47.42
12245	C7H16O2	3-ethyl-2,3-pentanediol	66225-32-9	103.196	628.77	1.2222	277.21	628.77	2	298.15	47.04
12246	C7H16O2	3-ethyl-2,4-pentanediol	66225-33-0	103.632	626.93	1.2222	244.79	626.93	2	298.15	47.09
12247	C7H16O2	2,2-dimethyl-1,3-pentanediol	2157-31-5	102.743	636.17	1.2222	331.15	636.17	2	331.15	41.84
12248	C7H16O2	2,2-dimethyl-1,5-pentanediol	3121-82-2	102.544	644.63	1.2222	292.21	644.63	2	298.15	48.01
12249	C7H16O2	2,3-dimethyl-1,3-pentanediol	66225-52-3	100.446	677.27	1.2222	277.21	677.27	2	298.15	49.43
12250	C7H16O2	2,3-dimethyl-2,3-pentanediol	6931-70-0	99.021	695.12	1.2222	294.63	695.12	2	298.15	49.93
12251	C7H16O2	DL-2,4-dimethyl-1,5-pentanediol	54630-82-9	101.917	660.11	1.2222	259.79	660.11	2	298.15	48.90
12252	C7H16O2	meso-2,4-dimethyl-1,5-pentanediol	2121-69-9	101.917	660.11	1.2222	259.79	660.11	2	298.15	48.90
12253	C7H16O2	2,4-dimethyl-2,3-pentanediol	66225-53-4	104.434	604.17	1.2222	332.15	604.17	2	332.15	39.38
12254	C7H16O2	2,4-dimethyl-2,4-pentanediol	24892-49-7	102.961	621.29	1.2222	271.15	621.29	2	298.15	46.31
12255	C7H16O2	3,3-dimethyl-1,5-pentanediol	53120-74-4	102.544	644.63	1.2222	292.21	644.63	2	298.15	48.01
12256	C7H16O2	3,4-dimethyl-1,4-pentanediol	63521-36-8	100.446	677.27	1.2222	277.21	677.27	2	298.15	49.43
12257	C7H16O2	4,4-dimethyl-1,2-pentanediol	66225-54-5	100.446	677.27	1.2222	277.21	677.27	2	298.15	49.43
12258	C7H16O2	erythro-4,4-dimethyl-2,3-pentanediol	23646-57-3	98.578	710.30	1.2222	347.15	710.30	2	347.15	43.42
12259	C7H16O2	threo-4,4-dimethyl-2,3-pentanediol	23646-58-4	98.578	710.30	1.2222	350.15	710.30	2	350.15	42.98
12260	C7H16O2	2-propyl-1,4-butanediol	62946-68-3	104.173	627.98	1.2222	274.79	627.98	2	298.15	47.42
12261	C7H16O2	2-isopropyl-1,4-butanediol	39497-66-0	101.917	660.11	1.2222	259.79	660.11	2	298.15	48.90
12262	C7H16O2	2-methyl-3-ethyl-1,4-butanediol	---	101.917	660.11	1.2222	259.79	660.11	2	298.15	48.90
12263	C7H16O2	2-sec-butyl-1,3-propanediol	33673-01-7	101.917	660.11	1.2222	322.15	660.11	2	322.15	44.97
12264	C7H16O2	2-methyl-2-propyl-1,3-propanediol	78-26-2	101.377	664.98	1.2222	328.85	664.98	2	328.85	44.03
12265	C7H16O2	2,2-diethyl-1,3-propanediol	115-76-4	101.573	661.45	1.2222	334.55	661.45	2	334.55	42.92
12266	C7H16O2	1-butoxy-2-propanol	5131-66-8	61.426	618.00	1.2222	257.70	618.00	2	298.15	27.46
12270	C7H16O2	2-(pentyloxy)ethanol	6196-58-3	61.733	618.00	1.2222	257.70	618.00	1,2	298.15	27.60
12272	C7H16O2	1-tert-butoxy-2-propanol	57018-52-7	63.895	618.00	1.2222	217.25	618.00	2	298.15	28.57
12274	C7H16O2	1-isobutoxy-2-propanol	23436-19-3	62.073	618.00	1.2222	298.15	618.00	2	298.15	27.75
12275	C7H16O2	propylene glycol butyl ether, isomers	29387-86-8	61.575	618.00	1.2222	257.70	618.00	2	298.15	27.53
12275.1	C7H16O2	propylene glycol 2-tert-butyl ether	94023-15-1	54.302	578.00	1.1759	215.00	578.00	2	298.15	23.14
12275.2	C7H16O2	diethylene glycol monopropyl ether	6881-94-3	63.267	679.80	1.3038	220.15	679.80	2	298.15	29.81
12276	C7H16O2	1-butoxy-2-methoxyethane	13343-98-1	63.908	618.00	1.2222	257.70	618.00	2	298.15	28.57
12277	C7H16O2	3-butoxy-1-propanol	10215-33-5	57.116	618.00	1.2222	257.70	618.00	2	298.15	25.54
12278	C7H16O2	n-butoxypropanol (mixed isomers)	63716-40-5	57.116	618.00	1.2222	257.70	618.00	2	298.15	25.54
12279	C7H16O2	isobutoxypropanol, mixed isomers	63716-39-2	57.116	618.00	1.2222	257.70	618.00	2	298.15	25.54
12300	C7H16S	heptyl mercaptan	1639-09-4	58.185	645.00	1.2222	229.92	645.00	1,2	298.15	27.26
12301	C7H16S	2-heptanethiol	1628-00-2	58.776	632.00	1.2222	132.15	632.00	2	298.15	26.94
12302	C7H16S	methyl hexyl sulfide	20291-60-5	55.982	638.37	1.2222	206.35	638.37	2	298.15	25.94
12303	C7H16S	ethyl pentyl sulfide	26158-99-6	55.982	638.37	1.2222	206.66	638.37	2	298.15	25.94
12304	C7H16S	propyl butyl sulfide	1613-46-3	54.230	653.50	1.2222	206.66	653.50	2	298.15	25.75
12315	C7H17N	heptylamine	111-68-2	47.560	607.00	1.0109	254.15	607.00	1,2	298.15	24.02
12316	C7H17N	2,4-dimethyl-2-pentanamine	64379-30-2	61.484	565.35	1.2222	254.15	565.35	2	298.15	24.60
12317	C7H17N	2-heptanamine	123-82-0	64.673	565.35	1.2222	254.15	565.35	2	298.15	25.88
12318	C7H17N	4-heptanamine	16751-59-0	64.289	565.35	1.2222	254.15	565.35	2	298.15	25.72
12319	C7H17N	3-methyl-1-hexanamine	65530-93-0	65.724	565.35	1.2222	254.15	565.35	2	298.15	26.30
12320	C7H17N	4-methyl-2-hexanamine	105-41-9	63.192	565.35	1.2222	254.15	565.35	2	298.15	25.28
12321	C7H17N	4-methyl-1-hexylamine	34263-68-8	66.309	565.35	1.2222	254.15	565.35	2	298.15	26.53
12322	C7H17N	methylhexylamine	35161-70-7	55.017	586.80	1.2222	235.15	586.80	2	298.15	23.12
12323	C7H17N	ethylpentylamine	17839-26-8	55.392	575.00	1.2222	235.15	575.00	2	298.15	22.67
12324	C7H17N	dimethylpentylamine	26153-88-8	49.794	584.20	1.2222	190.00	584.20	2	298.15	20.80
12325	C7H17N	dimethyl-2-pentylamine	57303-85-2	51.659	553.21	1.2222	190.00	553.21	2	298.15	20.05
12326	C7H17N	dimethyl-3-pentylamine	18636-94-7	51.389	563.35	1.2222	190.00	563.35	2	298.15	20.46
12327	C7H17N	dimethyl-2-methylbutylamine	66225-39-6	51.431	561.68	1.2222	190.00	561.68	2	298.15	20.40
12328	C7H17N	dimethyl-3-methylbutylamine	2315-43-7	51.482	559.73	1.2222	190.00	559.73	2	298.15	20.32
12329	C7H17N	dimethyl-1,1-dimethylpropylamine	57757-60-5	50.275	574.99	1.2222	190.00	574.99	2	298.15	20.58
12330	C7H17N	dimethyl-1,2-dimethylpropylamine	66225-38-5	51.340	565.30	1.2222	190.00	565.30	2	298.15	20.54

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
12331	C7H17N	dimethyl-2,2-dimethylpropylamine	10076-31-0	50.294	574.03	1.2222	190.00	574.03	2	298.15	20.54
12332	C7H17N	methylethylbutylamine	66225-40-9	51.878	560.63	1.2222	190.00	560.63	2	298.15	20.52
12333	C7H17N	methylethyl-sec-butylamine	66225-41-0	51.915	544.53	1.2222	190.00	544.53	2	298.15	19.69
12334	C7H17N	methylethylisobutylamine	60247-14-5	51.742	550.32	1.2222	190.00	550.32	2	298.15	19.93
12335	C7H17N	methylethyl-tert-butylamine	52841-28-8	50.525	563.23	1.2222	190.00	563.23	2	298.15	20.11
12336	C7H17N	methyldipropylamine	3405-42-3	51.995	556.46	1.2222	190.00	556.46	2	298.15	20.35
12337	C7H17N	methylpropylisopropylamine	66225-42-1	51.507	558.79	1.2222	190.00	558.79	2	298.15	20.28
12338	C7H17N	methyldiisopropylamine	10342-97-9	50.996	561.82	1.2222	190.00	561.82	2	298.15	20.23
12339	C7H17N	diethylpropylamine	4458-31-5	52.083	553.45	1.2222	190.00	553.45	2	298.15	20.23
12340	C7H17N	diethylisopropylamine	6006-15-1	51.680	552.49	1.2222	190.00	552.49	2	298.15	20.02
12341	C7H17N	N-tert-butylisopropylamine	7515-80-2	51.189	565.35	1.2222	235.15	565.35	2	298.15	20.48
12342	C7H17N	(S)-2-heptylamine	44745-29-1	64.825	565.35	1.2222	254.15	565.35	2	298.15	25.94
12343	C7H17N	(R)-2-heptylamine	6240-90-0	64.825	565.35	1.2222	254.15	565.35	2	298.15	25.94
12344	C7H17N	N-propylbutylamine	20193-21-9	56.592	565.35	1.2222	235.15	565.35	2	298.15	22.64
12345	C7H17N	3-aminoheptane	28292-42-4	64.520	565.35	1.2222	254.15	565.35	2	298.15	25.82
12346	C7H17N	5-methyl-2-hexylamine	28292-43-5	61.868	565.35	1.2222	254.15	565.35	2	298.15	24.75
12347	C7H17NO	1-(diethylamino)-2-propanol, (±)	78738-36-0	94.128	716.00	1.2222	286.65	716.00	2	298.15	48.74
12348	C7H17NO	2-(diethylamino)-1-propanol	611-12-1	92.623	716.00	1.2222	260.52	716.00	2	298.15	47.96
12349	C7H17NO	3-(diethylamino)-1-propanol	622-93-5	87.744	716.00	1.2222	260.52	716.00	2	298.15	45.43
12350	C7H17NO	2-[isopentylamino]ethanol	34240-76-1	84.668	716.00	1.2222	260.52	716.00	2	298.15	43.84
12351	C7H17NO	3-butoxypropylamine	16499-88-0	91.142	716.00	1.2222	208.25	716.00	2	298.15	47.19
12352	C7H17NO	1-diethylamino-2-propanol	4402-32-8	89.995	716.00	1.2222	286.65	716.00	2	298.15	46.60
12353	C7H17NO	4-amino-2-methyl-3-hexanol	63765-80-0	89.995	716.00	1.2222	260.52	716.00	2	298.15	46.60
12375	C7H18N2	N,N-diethyl-1,3-propanediamine	104-78-9	68.330	689.00	1.2222	302.05	689.00	2	302.05	33.76
12376	C7H18N2	1,7-heptanediamine	646-19-5	73.255	689.00	1.2222	302.05	689.00	2	302.05	36.19
12377	C7H18N2	N,N,N',N'-tetramethyl-1,3-propanediamine	110-95-2	65.664	689.00	1.2222	302.05	689.00	2	302.05	32.44
12378	C7H18N2	N,N-diethyl-N'-methylethylenediamine	104-79-0	67.279	689.00	1.2222	302.05	689.00	2	302.05	33.24
12379	C7H18N2	N,N,2,2-tetramethyl-1,3-propanediamine	53369-71-4	67.063	689.00	1.2222	302.05	689.00	2	302.05	33.13
12380	C7H18N2	3-diethylaminopropylamine	14642-66-1	68.514	689.00	1.2222	302.05	689.00	2	302.05	33.85
12520	C8H4Cl2O2	isophthaloyl chloride	99-63-8	84.141	768.00	1.2222	317.00	768.00	2	317.00	43.90
12594	C8H4O3	phthalic anhydride	85-44-9	113.356	791.00	1.2222	404.26	791.00	2	404.26	47.27
12713	C8H6	ethynylbenzene	536-74-3	67.737	655.43	1.2222	228.04	655.43	2	298.15	32.27
12934	C8H6O4	isophthalic acid	121-91-5	132.461	1007.00	1.2222	619.15	1007.00	2	619.15	41.27
12935	C8H6O4	phthalic acid	88-99-3	122.484	800.00	1.2222	464.15	800.00	2	464.15	42.40
12936	C8H6O4	terephthalic acid	100-21-0	136.759	1113.00	1.2222	700.15	1113.00	2	700.15	40.70
12947	C8H6S	benzothiophene	95-15-8	73.960	754.00	1.2222	304.50	754.00	2	304.50	39.30
13107	C8H7N	indole	120-72-9	83.338	790.00	1.2222	325.00	790.00	2	325.00	43.60
13237	C8H8	styrene	100-42-5	67.972	648.00	1.2222	242.54	648.00	1,2	298.15	32.00
13238	C8H8	1,3,5,7-cyclooctatetraene	629-20-9	66.089	642.55	1.2222	266.16	642.55	2	298.15	30.84
13252	C8H8Br2	1,2-bis(bromomethyl)benzene	91-13-4	83.714	761.77	1.2222	368.15	571.33	2	368.15	37.35
13253	C8H8Br2	1,3-bis(bromomethyl)benzene	626-15-3	83.714	761.77	1.2222	350.15	571.33	2	350.15	39.45
13254	C8H8Br2	1,4-bis(bromomethyl)benzene	623-24-5	84.805	735.77	1.2222	417.65	551.83	2	417.65	30.43
13255	C8H8Br2	1,2-dibromo-3,4-dimethylbenzene	24932-49-8	82.934	781.21	1.2222	280.15	585.91	2	298.15	46.09
13256	C8H8Br2	1,5-dibromo-2,4-dimethylbenzene	615-87-2	84.172	750.68	1.2222	343.15	563.01	2	343.15	39.90
13257	C8H8Br2	(1,2-dibromoethyl)benzene	93-52-7	83.714	761.77	1.2222	348.15	571.33	2	348.15	39.69
13258	C8H8Br2	1,4-dibromo-2,5-dimethylbenzene	1074-24-4	83.848	758.49	1.2222	346.65	568.87	2	346.65	39.75
13259	C8H8Br2	1,2-dibromo-4,5-dimethylbenzene	24932-48-7	82.876	782.70	1.2222	350.58	587.03	2	350.58	40.10
13260	C8H8Br2	ethyl dibromobenzene	30812-87-4	83.714	761.77	1.2222	350.58	571.33	2	350.58	39.40
13281	C8H8Cl2	1,2-bis(chloromethyl)benzene	612-12-4	69.241	735.00	1.2222	328.15	735.00	2	328.15	33.61
13282	C8H8Cl2	1,3-bis(chloromethyl)benzene	626-16-4	69.612	735.00	1.2222	307.35	735.00	2	307.35	35.91
13283	C8H8Cl2	1,4-bis(chloromethyl)benzene	623-25-6	69.612	735.00	1.2222	373.15	735.00	2	373.15	29.28
13284	C8H8Cl2	1,2-dichloro-3,4-dimethylbenzene	68266-67-1	68.980	735.00	1.2222	282.15	735.00	2	298.15	36.52
13285	C8H8Cl2	1,3-dichloro-2,5-dimethylbenzene	38204-89-6	68.703	735.00	1.2222	288.15	735.00	2	298.15	36.38
13286	C8H8Cl2	1,4-dichloro-2,5-dimethylbenzene	1124-05-6	68.703	735.00	1.2222	344.15	735.00	2	344.15	31.75
13287	C8H8Cl2	1,5-dichloro-2,4-dimethylbenzene	2084-45-9	68.734	735.00	1.2222	341.65	735.00	2	341.65	32.01
13288	C8H8Cl2	2,3-dichloro-1,4-dimethylbenzene	34840-79-4	68.949	735.00	1.2222	272.15	735.00	2	298.15	36.51
13289	C8H8Cl2	(1,2-dichloroethyl)benzene	1074-11-9	69.056	735.00	1.2222	318.86	735.00	2	318.86	34.46
13290	C8H8Cl2	1,4-dichloro-2-ethylbenzene	54484-63-8	68.444	735.00	1.2222	318.86	735.00	2	318.86	34.15
13291	C8H8Cl2	1-(dichloromethyl)-4-methylbenzene	23063-36-7	68.440	735.00	1.2222	321.65	735.00	2	321.65	33.87
13292	C8H8Cl2	ethyldichlorobenzene	1331-29-9	68.440	735.00	1.2222	330.00	735.00	2	330.00	33.03
13293	C8H8Cl2	xylene chloride	28347-13-9	68.440	735.00	1.2222	318.86	735.00	2	318.86	34.15
13391	C8H8O	acetophenone	98-86-2	74.203	701.00	1.1637	293.65	701.00	1,2	298.15	38.95
13412	C8H8O2	methyl benzoate	93-58-3	76.550	693.00	1.2795	260.75	693.00	1,2	298.15	37.27
13413	C8H8O2	o-toluic acid	118-90-1	69.000	751.00	1.0010	376.85	751.00	1,2	376.85	34.35
13414	C8H8O2	p-toluic acid	99-94-5	94.542	773.00	1.2222	452.75	773.00	2	452.75	32.20
13445	C8H8O3	methyl salicylate	119-36-8	77.156	701.00	1.2222	265.15	701.00	1,2	298.15	39.20
13446	C8H8O3	vanillin	121-33-5	92.620	777.00	1.3364	355.00	777.00	1,2	355.00	40.97
13527	C8H9Br	1-bromo-2,3-dimethylbenzene	576-23-8	75.613	691.75	1.2222	252.66	518.81	2	298.15	37.96
13528	C8H9Br	1-bromo-2,4-dimethylbenzene	583-70-0	76.166	678.97	1.2222	256.15	509.23	2	298.15	37.57
13529	C8H9Br	1-bromo-3,5-dimethylbenzene	556-96-7	76.230	677.55	1.2222	252.66	508.16	2	298.15	37.52
13530	C8H9Br	2-bromo-1,3-dimethylbenzene	576-22-7	76.261	676.84	1.2222	252.66	507.63	2	298.15	37.50
13531	C8H9Br	2-bromo-1,4-dimethylbenzene	553-94-6	76.550	670.45	1.2222	282.15	502.84	2	298.15	37.30
13532	C8H9Br	4-bromo-1,2-dimethylbenzene	583-71-1	75.583	692.46	1.2222	272.95	519.35	2	298.15	37.98
13533	C8H9Br	(1-bromoethyl)benzene, (±)	38661-81-3	76.357	674.71	1.2222	252.66	506.03	2	298.15	37.44
13534	C8H9Br	(1-bromoethyl)benzene, (R)	1459-14-9	76.293	676.13	1.2222	252.66	507.10	2	298.15	37.48
13535	C8H9Br	(2-bromoethyl)benzene	103-63-9	75.316	698.85	1.2222	217.25	524.14	2	298.15	38.16
13536	C8H9Br	1-bromo-2-ethylbenzene	1973-22-4	76.530	670.88	1.2222	205.25	503.16	2	298.15	37.31
13537	C8H9Br	1-bromo-3-ethylbenzene	2725-82-8	76.357	674.71	1.2222	252.66	506.03	2	298.15	37.44
13538	C8H9Br	1-bromo-4-ethylbenzene	1585-07-5	76.230	677.55	1.2222	229.65	508.16	2	298.15	37.52
13539	C8H9Br	1-(bromomethyl)-2-methylbenzene	89-92-9	75.434	696.01	1.2222	294.15	522.01	2	298.15	38.08

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
13540	C8H9Br	1-(bromomethyl)-3-methylbenzene	620-13-3	75.704	689.62	1.2222	252.66	517.22	2	298.15	37.89
13541	C8H9Br	1-(bromomethyl)-4-methylbenzene	104-81-4	75.257	700.27	1.2222	308.15	525.20	2	308.15	37.05
13542	C8H9Br	(1-bromoethyl)benzene	585-71-7	87.557	521.35	1.2222	208.25	391.01	2	298.15	31.04
13567	C8H9Cl	1-chloro-2,3-dimethylbenzene	608-23-1	72.963	654.83	1.2222	231.20	491.12	2	298.15	34.72
13568	C8H9Cl	1-chloro-2,4-dimethylbenzene	95-66-9	73.228	649.15	1.2222	240.65	486.86	2	298.15	34.54
13569	C8H9Cl	2-chloro-1,3-dimethylbenzene	6781-98-2	73.095	651.99	1.2222	238.15	488.99	2	298.15	34.63
13570	C8H9Cl	2-chloro-1,4-dimethylbenzene	95-72-7	73.029	653.41	1.2222	273.95	490.06	2	298.15	34.68
13571	C8H9Cl	4-chloro-1,2-dimethylbenzene	615-60-1	72.578	663.35	1.2222	267.15	497.51	2	298.15	34.99
13572	C8H9Cl	(1-chloroethyl)benzene, (±)	38661-82-4	72.846	657.39	1.2222	231.20	493.04	2	298.15	34.81
13573	C8H9Cl	(2-chloroethyl)benzene	622-24-2	72.360	668.32	1.2222	231.20	501.24	2	298.15	35.15
13574	C8H9Cl	1-chloro-2-ethylbenzene	89-96-3	73.610	641.20	1.2222	190.45	480.90	2	298.15	34.27
13575	C8H9Cl	1-chloro-3-ethylbenzene	620-16-6	73.241	648.87	1.2222	218.15	486.65	2	298.15	34.53
13576	C8H9Cl	1-chloro-4-ethylbenzene	622-98-0	73.201	649.72	1.2222	210.55	487.29	2	298.15	34.56
13577	C8H9Cl	1-(chloromethyl)-2-methylbenzene	552-45-4	72.329	669.03	1.2222	231.20	501.77	2	298.15	35.17
13578	C8H9Cl	1-(chloromethyl)-3-methylbenzene	620-19-9	72.484	665.48	1.2222	231.20	499.11	2	298.15	35.06
13579	C8H9Cl	1-(chloromethyl)-4-methylbenzene	104-82-5	72.146	673.29	1.2222	231.20	504.97	2	298.15	35.30
13580	C8H9Cl	1-chloro-1-phenylethane	672-65-1	72.846	657.39	1.2222	231.20	493.04	2	298.15	34.81
13581	C8H9Cl	1-chloro-3,5-xylene	556-97-8	72.846	657.39	1.2222	231.20	493.04	2	298.15	34.81
13582	C8H9Cl	ethylchlorobenzene	1331-31-3	72.846	657.39	1.2222	210.55	493.04	2	298.15	34.81
13671	C8H9NO	acetanilide	103-84-4	77.803	825.00	1.2222	386.65	825.00	1,2	386.65	35.92
13789	C8H10	ethylbenzene	100-41-4	66.000	617.17	1.2680	178.20	617.17	1,2	298.15	28.59
13790	C8H10	o-xylene	95-47-6	66.100	630.37	1.2544	247.98	630.37	1,2	298.15	29.60
13791	C8H10	m-xylene	108-38-3	65.700	617.05	1.2780	225.27	617.05	1,2	298.15	28.26
13792	C8H10	p-xylene	106-42-3	64.850	616.26	1.2743	286.30	616.26	1,2	298.15	27.92
13793	C8H10	xylenes	1330-20-7	63.211	620.21	1.2222	243.75	620.21	2	298.15	28.38
13798	C8H10	2,6-octadiyne	764-73-8	64.350	590.56	1.2222	300.15	442.92	2	300.15	27.03
13799	C8H10	3,5-octadiyne	16387-70-5	62.858	620.04	1.2222	300.15	465.03	2	300.15	27.99
13800	C8H10	1,7-octadiyne	871-84-1	64.945	580.28	1.2222	300.15	435.21	2	300.15	26.67
13912	C8H10O	phenetole	103-73-1	69.090	647.15	1.2230	243.63	647.15	1,2	298.15	32.47
13913	C8H10O	2-phenylethanol	60-12-8	97.742	684.00	1.2222	247.00	684.00	2	298.15	48.55
13918	C8H10O	o-ethylphenol	90-00-6	68.683	703.00	1.2222	269.84	703.00	2	298.15	34.99
13919	C8H10O	m-ethylphenol	620-17-7	67.349	718.80	1.2222	269.15	718.80	2	298.15	34.99
13920	C8H10O	p-ethylphenol	123-07-9	66.708	716.45	1.2222	318.23	716.45	2	318.23	32.54
13921	C8H10O	2,3-xylenol	526-75-0	66.254	722.95	1.2222	346.00	722.95	2	346.00	29.89
13922	C8H10O	2,4-xylenol	105-67-9	60.408	707.65	1.1362	297.68	707.65	1,2	298.15	32.45
13923	C8H10O	2,5-xylenol	95-87-4	60.037	707.05	1.0065	348.00	707.05	1,2	348.00	30.35
13924	C8H10O	2,6-xylenol	576-26-1	69.075	701.05	1.2222	318.90	701.05	2	318.90	32.90
13925	C8H10O	3,4-xylenol	95-65-8	64.690	729.95	1.2430	334.00	729.95	1,2	334.00	30.24
13926	C8H10O	3,5-xylenol	108-68-9	57.270	715.65	1.0706	336.59	715.65	1,2	336.59	29.00
13934	C8H10O	dimethyl phenol	1300-71-6	72.024	713.62	1.2222	315.38	713.62	2	315.38	35.31
13985.1	C8H10O2	ethylbenzene hydroperoxide	3071-32-7	68.705	737.00	1.2148	290.00	737.00	2	298.15	36.60
14039	C8H10S	o-ethylthiophenol	4500-58-7	75.142	722.65	1.2222	264.38	722.65	2	298.15	39.22
14040	C8H10S	m-ethylthiophenol	62154-77-2	75.043	724.15	1.2222	264.38	724.15	2	298.15	39.24
14041	C8H10S	p-ethylthiophenol	4946-13-8	75.043	724.15	1.2222	264.38	724.15	2	298.15	39.24
14042	C8H10S	2,3-dimethylthiophenol	18800-51-6	74.623	730.98	1.2222	248.01	730.98	2	298.15	39.33
14043	C8H10S	2,4-dimethylthiophenol	13616-82-5	75.442	718.58	1.2222	248.01	718.58	2	298.15	39.18
14044	C8H10S	2,5-dimethylthiophenol	4001-61-0	75.753	714.10	1.2222	248.01	714.10	2	298.15	39.13
14045	C8H10S	2,6-dimethylthiophenol	118-72-9	74.623	730.98	1.2222	248.01	730.98	2	298.15	39.33
14046	C8H10S	3,4-dimethylthiophenol	18800-53-8	74.623	730.98	1.2222	248.01	730.98	2	298.15	39.33
14047	C8H10S	3,5-dimethylthiophenol	38360-81-5	74.623	730.98	1.2222	248.01	730.98	2	298.15	39.33
14048	C8H10S	(1-thiapropyl)-benzene	622-38-8	71.786	712.96	1.2222	128.17	712.96	1,2	298.15	37.03
14049	C8H10S	2-methyl-(1-thiaethyl)-benzene	---	68.954	718.95	1.2222	111.80	718.95	2	298.15	35.83
14050	C8H10S	3-methyl-(1-thiaethyl)-benzene	4886-77-5	68.954	718.95	1.2222	111.80	718.95	2	298.15	35.83
14051	C8H10S	4-methyl-(1-thiaethyl)-benzene	623-13-2	65.837	729.78	1.2222	111.80	729.78	2	298.15	34.65
14052	C8H10S	[(methylthio)methyl]benzene	766-92-7	74.909	725.28	1.2222	243.15	725.28	2	298.15	39.22
14053	C8H10S	alpha-methylbenzenemethanethiol, (S)	33877-11-1	74.543	725.28	1.2222	252.44	725.28	2	298.15	39.03
14054	C8H10S	2-phenylethanethiol	4410-99-5	75.159	725.28	1.2222	252.44	725.28	2	298.15	39.35
14082	C8H11N	N,N-dimethylaniline	121-69-7	71.698	687.15	1.2132	275.60	687.15	1,2	298.15	35.95
14083	C8H11N	o-ethylaniline	578-54-1	72.396	704.00	1.2222	226.55	704.00	2	298.15	36.93
14084	C8H11N	N,2-dimethylaniline	611-21-2	73.529	695.58	1.2222	263.07	695.58	2	298.15	37.10
14085	C8H11N	N,3-dimethylaniline	696-44-6	73.698	695.58	1.2222	263.07	695.58	2	298.15	37.18
14086	C8H11N	N,4-dimethylaniline	623-08-5	73.107	695.58	1.2222	263.07	695.58	2	298.15	36.89
14087	C8H11N	2,3-dimethylaniline	87-59-2	71.196	695.58	1.2222	263.07	695.58	2	298.15	35.92
14088	C8H11N	2,4-dimethylaniline	95-68-1	72.437	695.58	1.2222	258.85	695.58	2	298.15	36.55
14089	C8H11N	2,5-dimethylaniline	95-78-3	72.437	695.58	1.2222	288.65	695.58	2	298.15	36.55
14090	C8H11N	2,6-dimethylaniline	87-62-7	72.270	695.58	1.2222	284.35	695.58	2	298.15	36.46
14091	C8H11N	3,4-dimethylaniline	95-64-7	70.139	695.58	1.2222	324.15	695.58	2	324.15	32.58
14092	C8H11N	3,5-dimethylaniline	108-69-0	71.361	695.58	1.2222	282.95	695.58	2	298.15	36.00
14093	C8H11N	m-ethylaniline	587-02-0	72.437	695.58	1.2222	209.15	695.58	2	298.15	36.55
14094	C8H11N	p-ethylaniline	589-16-2	71.855	695.58	1.2222	270.75	695.58	2	298.15	36.25
14095	C8H11N	N-ethylaniline	103-69-5	73.057	695.58	1.2222	209.65	695.58	1,2	298.15	36.86
14096	C8H11N	2,4,6-trimethylpyridine	108-75-8	70.166	653.00	1.2222	229.00	653.00	2	298.15	33.30
14097	C8H11N	2-ethyl-4-methylpyridine	2150-18-7	69.963	653.00	1.2222	216.18	653.00	2	298.15	33.20
14098	C8H11N	2-ethyl-6-methylpyridine	1122-69-6	70.838	653.00	1.2222	216.18	653.00	2	298.15	33.62
14099	C8H11N	3-ethyl-4-methylpyridine	529-21-5	75.905	653.00	1.2222	216.18	653.00	1,2	298.15	36.02
14100	C8H11N	4-ethyl-2-methylpyridine	536-88-9	69.641	653.00	1.2222	216.18	653.00	2	298.15	33.05
14101	C8H11N	2-isopropylpyridine	644-98-4	70.884	653.00	1.2222	132.15	653.00	2	298.15	33.64
14102	C8H11N	3-isopropylpyridine	6304-18-3	69.738	653.00	1.2222	227.35	653.00	2	298.15	33.09
14103	C8H11N	4-isopropylpyridine	696-30-0	70.995	653.00	1.2222	218.25	653.00	1,2	298.15	33.69
14104	C8H11N	4-propylpyridine	1122-81-2	67.602	653.00	1.2222	216.18	653.00	1,2	298.15	32.08

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
14105	C8H11N	2-propylpyridine	622-39-9	66.085	653.00	1.2222	274.15	653.00	1,2	298.15	31.36
14106	C8H11N	2,3,4-trimethylpyridine	2233-29-6	68.781	653.00	1.2222	216.18	653.00	2	298.15	32.64
14107	C8H11N	2,3,5-trimethylpyridine	695-98-7	69.322	653.00	1.2222	216.18	653.00	2	298.15	32.90
14108	C8H11N	2,3,6-trimethylpyridine	1462-84-6	70.118	653.00	1.2222	216.18	653.00	2	298.15	33.27
14109	C8H11N	2,4,5-trimethylpyridine	1122-39-0	69.067	653.00	1.2222	216.18	653.00	2	298.15	32.77
14110	C8H11N	benzeneethanamine	64-04-0	82.175	668.32	1.2222	250.00	501.24	2	298.15	39.92
14111	C8H11N	2-methylbenzenemethanamine	89-93-0	81.841	680.39	1.2222	243.15	510.29	2	298.15	40.45
14112	C8H11N	3-methylbenzenemethanamine	100-81-2	81.938	676.84	1.2222	285.72	507.63	2	298.15	40.29
14113	C8H11N	4-methylbenzenemethanamine	104-84-7	82.274	664.77	1.2222	285.65	498.58	2	298.15	39.75
14114	C8H11N	N-methylbenzenemethanamine	103-67-3	82.873	644.18	1.2222	285.72	483.14	2	298.15	38.77
14115	C8H11N	alpha-methylbenzylamine, (±)	618-36-0	82.600	653.41	1.2222	305.15	490.06	2	305.15	38.28
14119	C8H11N	(S)-(-)-a-methylbenzylamine	2627-86-3	82.559	654.83	1.2222	285.72	491.12	2	298.15	39.29
14120	C8H11N	(R)-(+)-a-methylbenzylamine	3886-69-9	82.744	648.51	1.2222	332.20	486.39	2	332.20	34.41
14122	C8H11N	1-phenylethylamine	98-84-0	82.683	650.57	1.2222	298.15	487.93	2	298.15	39.09
14124	C8H11NO	p-phenetidine	156-43-4	82.487	754.00	1.2222	277.00	754.00	2	298.15	44.59
14228	C8H12	1,5-cyclooctadiene	111-78-4	66.974	645.00	1.2222	203.98	645.00	2	298.15	31.38
14229	C8H12	1,4-cyclooctadiene	1073-07-0	64.125	645.00	1.2222	220.15	645.00	2	298.15	30.04
14230	C8H12	cis,cis-1,5-cyclooctadiene	1552-12-1	67.476	645.00	1.2222	203.15	645.00	2	298.15	31.61
14230.1	C8H12	methylnorbornene	694-92-8	63.486	600.00	1.2680	220.00	600.00	2	298.15	26.57
14231	C8H12	vinylcyclohexene	100-40-3	61.732	599.00	1.2222	164.00	599.00	2	298.15	26.61
14245	C8H12	1-octen-3-yne	17679-92-4	67.373	570.00	1.2222	270.00	570.00	2	298.15	27.26
14247	C8H12	1,3-cyclooctadiene	1700-10-3	63.047	645.00	1.2222	220.25	645.00	2	298.15	29.54
14248	C8H12	cis,cis-1,3-cyclooctadiene	3806-59-5	28.812	645.00	1.2222	221.25	645.00	2	298.15	13.50
14252	C8H12	(Z,E)-1,3-cyclooctadiene	3806-60-8	58.124	645.00	1.2222	213.76	645.00	2	298.15	27.23
14379	C8H12O4	1,4-cyclohexanedicarboxylic acid	619-82-9	113.513	889.00	1.2222	585.65	889.00	2	585.65	30.50
14380	C8H12O4	diethyl maleate	141-05-9	66.300	680.00	1.2510	264.35	680.00	1,2	298.15	32.21
14410	C8H12S	2-butylthiophene	1455-20-5	61.550	665.00	1.2222	216.25	665.00	1,2	298.15	29.75
14411	C8H12S	3-butylthiophene	34722-01-5	62.075	665.00	1.2222	216.25	665.00	2	298.15	30.00
14412	C8H12S	2-(1,1-dimethylethyl)thiophene	1689-78-7	62.488	665.00	1.2222	214.05	665.00	2	298.15	30.20
14413	C8H12S	3-(1,1-dimethylethyl)thiophene	1689-79-8	62.373	665.00	1.2222	218.45	665.00	2	298.15	30.15
14413.1	C8H12S	3-ethyl-2,5-dimethylthiophene	55735-23-4	69.660	669.00	1.2958	195.00	669.00	2	298.15	32.43
14426	C8H13N	1-butyl-1H-pyrrole	589-33-3	67.362	670.00	1.2222	336.90	670.00	2	336.90	28.67
14427	C8H13N	3-ethyl-2,4-dimethyl-1H-pyrrole	517-22-6	85.416	670.00	1.2222	336.90	670.00	2	336.90	36.36
14428	C8H13N	4-ethyl-2,3-dimethyl-1H-pyrrole	491-18-9	86.144	670.00	1.2222	289.65	670.00	2	298.15	41.95
14429	C8H13N	2,3,4,5-tetramethyl-1H-pyrrole	1003-90-3	79.917	670.00	1.2222	384.15	670.00	2	384.15	28.22
14433	C8H13N	2,5-diethyl-1H-pyrrole	766-95-0	76.607	670.00	1.2222	336.90	670.00	2	336.90	32.61
14463	C8H14	1-propylcyclopentene	3074-61-1	48.865	602.71	1.2222	172.85	602.71	2	298.15	21.22
14464	C8H14	1,2,3-trimethylcyclopentene	473-91-6	48.941	602.71	1.2222	172.85	602.71	2	298.15	21.25
14465	C8H14	1,5,5-trimethylcyclopentene	62184-83-2	49.041	602.71	1.2222	172.85	602.71	2	298.15	21.29
14466	C8H14	1-ethylcyclohexene	1453-24-3	55.564	617.68	1.2222	163.19	617.68	2	298.15	24.83
14467	C8H14	3-ethylcyclohexene	2808-71-1	56.769	609.58	1.2222	175.81	609.58	2	298.15	24.98
14468	C8H14	4-ethylcyclohexene	3742-42-5	56.452	611.67	1.2222	175.81	611.67	2	298.15	24.94
14469	C8H14	1,2-dimethylcyclohexene	1674-10-8	55.156	621.08	1.2222	189.00	621.08	2	298.15	24.80
14470	C8H14	1,3-dimethylcyclohexene	2808-76-6	57.614	604.64	1.2222	159.44	604.64	2	298.15	25.11
14471	C8H14	1,4-dimethylcyclohexene	2808-79-9	57.368	606.00	1.2222	213.75	606.00	2	298.15	25.07
14472	C8H14	1,5-dimethylcyclohexene	2808-77-7	57.401	606.00	1.2222	159.44	606.00	2	298.15	25.09
14473	C8H14	1,6-dimethylcyclohexene	1759-64-4	56.682	610.68	1.2222	159.44	610.68	2	298.15	25.00
14474	C8H14	3,3-dimethylcyclohexene	695-28-3	58.720	599.77	1.2222	159.44	599.77	2	298.15	25.35
14475	C8H14	3,cis-4-dimethylcyclohexene	---	58.694	597.92	1.2222	159.44	597.92	2	298.15	25.24
14476	C8H14	3,trans-4-dimethylcyclohexene	---	58.694	597.92	1.2222	159.44	597.92	2	298.15	25.24
14477	C8H14	3,cis-5-dimethylcyclohexene	---	58.569	597.92	1.2222	159.44	597.92	2	298.15	25.19
14478	C8H14	3,trans-5-dimethylcyclohexene	56021-63-7	58.694	597.92	1.2222	159.44	597.92	2	298.15	25.24
14479	C8H14	3,cis-6-dimethylcyclohexene	---	58.535	597.92	1.2222	159.44	597.92	2	298.15	25.17
14480	C8H14	3,trans-6-dimethylcyclohexene	3685-00-5	58.694	597.92	1.2222	159.44	597.92	2	298.15	25.24
14481	C8H14	4,4-dimethylcyclohexene	14072-86-7	59.161	597.08	1.2222	198.68	597.08	2	298.15	25.40
14482	C8H14	4,cis-5-dimethylcyclohexene	---	57.446	605.71	1.2222	159.44	605.71	2	298.15	25.09
14483	C8H14	4,trans-5-dimethylcyclohexene	---	58.694	597.92	1.2222	159.44	597.92	2	298.15	25.24
14484	C8H14	1-octyne	629-05-0	58.402	574.20	1.2222	193.85	574.20	1,2	298.15	23.86
14485	C8H14	2-octyne	2809-67-8	56.861	607.45	1.2222	211.55	607.45	2	298.15	24.92
14486	C8H14	3-octyne	15232-76-5	57.140	600.66	1.2222	169.15	600.66	2	298.15	24.71
14487	C8H14	4-octyne	1942-45-6	57.742	594.10	1.2222	172.15	594.10	2	298.15	24.64
14488	C8H14	3-ethyl-3-methyl-1-pentyne	919-12-0	54.250	594.10	1.2222	186.68	594.10	2	298.15	23.15
14493	C8H14	1,7-octadiene	3710-30-3	49.715	586.00	1.2222	224.50	586.00	2	298.15	20.85
14494	C8H14	2,6-octadiene	4974-27-0	50.957	586.00	1.2222	197.15	586.00	2	298.15	21.37
14495	C8H14	3-methyl-1,5-heptadiene	4894-62-6	49.077	586.00	1.2222	216.15	586.00	2	298.15	20.58
14496	C8H14	2,5-dimethyl-1,5-hexadiene	627-58-7	49.546	586.00	1.2222	197.55	586.00	2	298.15	20.78
14497	C8H14	2,5-dimethyl-2,4-hexadiene	764-13-6	52.283	586.00	1.2222	287.15	586.00	2	298.15	21.93
14547	C8H14O	2,2-dimethylcyclohexanone	1193-47-1	63.421	670.00	1.2222	252.65	670.00	2	298.15	30.88
14548	C8H14O	cis-2,3-dimethylcyclohexanone	1551-88-8	61.550	670.00	1.2222	282.40	670.00	2	298.15	29.97
14549	C8H14O	trans-2,3-dimethylcyclohexanone	1551-89-9	63.957	670.00	1.2222	282.40	670.00	2	298.15	31.14
14550	C8H14O	cis-2,4-dimethylcyclohexanone	116783-29-0	61.977	670.00	1.2222	282.40	670.00	2	298.15	30.18
14551	C8H14O	trans-2,4-dimethylcyclohexanone, (2S)	93921-42-7	61.409	670.00	1.2222	282.40	670.00	2	298.15	29.90
14552	C8H14O	trans-2,5-dimethylcyclohexanone, (±)	66395-23-1	63.421	670.00	1.2222	282.40	670.00	2	298.15	30.88
14553	C8H14O	2,6-dimethylcyclohexanone	2816-57-1	62.551	670.00	1.2222	282.40	670.00	2	298.15	30.46
14554	C8H14O	3,3-dimethylcyclohexanone	2979-19-3	61.127	670.00	1.2222	282.40	670.00	2	298.15	29.76
14555	C8H14O	3,4-dimethylcyclohexanone	5465-09-8	59.188	670.00	1.2222	282.40	670.00	2	298.15	28.82
14556	C8H14O	3,5-dimethylcyclohexanone	2320-30-1	60.427	670.00	1.2222	282.40	670.00	2	298.15	29.42
14557	C8H14O	4,4-dimethylcyclohexanone	4255-62-3	63.957	670.00	1.2222	312.15	670.00	2	312.15	29.72
14558	C8H14O	3,4-dimethyl-3-hexen-2-one	1635-02-5	64.474	635.00	1.2222	270.00	635.00	2	298.15	29.71
14559	C8H14O	3,4-dimethyl-4-hexen-2-one	53252-21-4	64.178	635.00	1.2222	270.00	635.00	2	298.15	29.57

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
14560	C8H14O	3-methyl-5-hepten-2-one	38552-72-6	65.141	635.00	1.2222	270.00	635.00	2	298.15	30.01
14561	C8H14O	5-methyl-5-hepten-2-one	10339-67-0	65.141	635.00	1.2222	270.00	635.00	2	298.15	30.01
14562	C8H14O	6-methyl-3-hepten-2-one	2009-74-7	65.672	635.00	1.2222	270.00	635.00	2	298.15	30.26
14563	C8H14O	6-methyl-4-hepten-2-one	39273-81-9	64.712	635.00	1.2222	270.00	635.00	2	298.15	29.82
14564	C8H14O	6-methyl-5-hepten-2-one	110-93-0	64.712	635.00	1.2222	210.00	635.00	2	298.15	29.82
14565	C8H14O	2-methyl-5-hepten-3-one	77958-21-5	64.622	635.00	1.2222	270.00	635.00	2	298.15	29.78
14566	C8H14O	5-methyl-1-hepten-3-one	44829-76-7	65.141	635.00	1.2222	270.00	635.00	2	298.15	30.01
14567	C8H14O	5-methyl-4-hepten-3-one	1447-26-3	64.921	635.00	1.2222	270.00	635.00	2	298.15	29.91
14568	C8H14O	5-methyl-5-hepten-3-one	1190-34-7	65.141	635.00	1.2222	270.00	635.00	2	298.15	30.01
14569	C8H14O	5-methyl-2-hepten-4-one	81925-81-7	65.190	635.00	1.2222	270.00	635.00	2	298.15	30.04
14570	C8H14O	6-methyl-2-hepten-4-one	49852-35-9	65.130	635.00	1.2222	270.00	635.00	2	298.15	30.01
14571	C8H14O	4-ethylcyclohexanone	5441-51-0	57.575	670.00	1.2222	282.40	670.00	2	298.15	28.03
14588	C8H14O	2-ethyl-2-hexenal	645-62-5	69.991	630.00	1.2222	220.00	630.00	2	298.15	31.97
14589	C8H14O	methylheptenone	409-02-9	65.341	635.00	1.2222	206.25	635.00	2	298.15	30.11
14591	C8H14O	trans-2-octenal	2548-87-0	69.991	630.00	1.2222	220.00	630.00	2	298.15	31.97
14592	C8H14O	3-octen-2-one	1669-44-9	65.141	635.00	1.2222	220.00	635.00	2	298.15	30.01
14597	C8H14O	2-ethyl hexenal	26266-68-2	69.991	630.00	1.2222	220.00	630.00	2	298.15	31.97
14599	C8H14O2	butyl methacrylate	97-88-1	57.891	616.00	1.2222	196.80	616.00	2	298.15	25.79
14613	C8H14O2	ethyl 2,3-dimethyl-2-butenoate	13979-28-7	62.786	616.00	1.2222	207.63	616.00	2	298.15	27.97
14614	C8H14O2	ethyl 2-hexenoate	1552-67-6	65.306	616.00	1.2222	207.63	616.00	2	298.15	29.09
14615	C8H14O2	ethyl 3-hexenoate	2396-83-0	64.301	616.00	1.2222	207.63	616.00	2	298.15	28.64
14616	C8H14O2	ethyl 3-methyl-3-pentenoate	86623-80-5	66.142	616.00	1.2222	207.63	616.00	2	298.15	29.46
14617	C8H14O2	ethyl 4-methyl-2-pentenoate	2351-97-5	65.244	616.00	1.2222	207.63	616.00	2	298.15	29.06
14618	C8H14O2	ethyl 4-methyl-3-pentenoate	6849-18-9	66.142	616.00	1.2222	207.63	616.00	2	298.15	29.46
14620	C8H14O2	3-hydroxy-2,2-dimethylhexanoic acid, beta-lactone	90112-82-6	54.938	736.00	1.2222	416.65	736.00	2	416.65	19.80
14621	C8H14O2	2-methylbutyl acrylate	44914-03-6	63.455	616.00	1.2222	207.63	616.00	2	298.15	28.27
14624	C8H14O2	6-methyl-2-heptenoic acid	90112-75-7	55.079	736.00	1.2222	274.65	736.00	2	298.15	29.20
14627	C8H14O2	tert-butyl methacrylate	585-07-9	59.501	616.00	1.2222	207.63	616.00	2	298.15	26.50
14633	C8H14O2	2-ethyl-2-hexenoic acid	5309-52-4	54.938	736.00	1.2222	271.25	736.00	2	298.15	29.12
14634	C8H14O2	ethyl 4-methyl-4-pentenoate	4911-54-0	66.142	616.00	1.2222	207.63	616.00	2	298.15	29.46
14635	C8H14O2	ethyl 2-methyl-4-pentenoate	53399-81-8	62.651	616.00	1.2222	207.63	616.00	2	298.15	27.91
14636	C8H14O2	trans-2-hexenyl acetate	2497-18-9	64.167	616.00	1.2222	207.63	616.00	2	298.15	28.58
14637	C8H14O2	isoamyl acrylate	4245-35-6	63.190	616.00	1.2222	207.63	616.00	2	298.15	28.15
14642	C8H14O2	2-octenoic acid	1871-67-6	54.938	736.00	1.2222	278.65	736.00	2	298.15	29.12
14653	C8H14O2	isovaleric acid, allyl ester	2835-39-4	54.938	736.00	1.2222	310.30	736.00	2	310.30	28.14
14654.1	C8H14O2	2-oxolan-2-yloxolane	106538-38-9	112.421	738.00	1.2935	235.00	738.00	2	298.15	57.56
14659	C8H14O3	butyric anhydride	106-31-0	70.769	639.00	1.2222	199.85	639.00	2	298.15	32.83
14688	C8H14O4	diethyl succinate	123-25-1	71.039	660.00	1.2222	252.35	660.00	2	298.15	34.08
14736	C8H15Br	cis-1-bromo-1-octene	42843-49-2	59.150	643.03	1.2222	234.14	643.03	2	298.15	27.62
14737	C8H15Br	trans-1-bromo-1-octene	51751-87-2	59.150	643.03	1.2222	234.14	643.03	2	298.15	27.62
14748	C8H15Br3	1,1,1-tribromooctane	62127-65-5	85.904	767.84	1.2222	361.24	767.84	2	361.24	39.50
14749	C8H15Cl	cis-1-chloro-1-octene	64531-23-3	61.887	640.48	1.2222	204.26	640.48	2	298.15	28.78
14750	C8H15Cl	trans-1-chloro-1-octene	59871-24-8	61.887	640.48	1.2222	204.26	640.48	2	298.15	28.78
14751	C8H15Cl	1-chloro-4-ethyl-3-hexene	82507-04-8	61.532	640.48	1.2222	204.26	640.48	2	298.15	28.61
14752	C8H15Cl	6-chloro-2-methyl-2-heptene	80325-37-7	61.154	640.48	1.2222	204.26	640.48	2	298.15	28.44
14753	C8H15Cl	2-chloro-1-octene	31283-43-9	61.169	640.48	1.2222	204.26	640.48	2	298.15	28.45
14754	C8H15Cl	2-chloro-2-octene	90202-21-4	61.032	640.48	1.2222	204.26	640.48	2	298.15	28.38
14755	C8H15Cl	4-chloro-2-octene	116668-50-9	59.647	640.48	1.2222	204.26	640.48	2	298.15	27.74
14756	C8H15Cl	cis-4-chloro-4-octene	7321-48-4	60.828	640.48	1.2222	204.26	640.48	2	298.15	28.29
14765	C8H15Cl3	1,1,1-trichlorooctane	4905-79-7	71.118	693.91	1.2222	271.60	693.91	2	298.15	35.80
14766	C8H15F	cis-1-fluoro-1-octene	32814-16-7	55.117	548.71	1.2222	206.49	548.71	2	298.15	21.14
14767	C8H15F	trans-1-fluoro-1-octene	32814-17-8	55.117	548.71	1.2222	206.49	548.71	2	298.15	21.14
14770	C8H15F3	1,1,1-trifluorooctane	53392-86-2	51.876	554.50	1.2222	278.29	554.50	2	298.15	20.20
14772	C8H15I	cis-1-iodo-1-octene	52356-93-1	59.753	692.75	1.2222	232.40	692.75	2	298.15	30.03
14773	C8H15I	trans-1-iodo-1-octene	42599-17-7	59.753	692.75	1.2222	232.40	692.75	2	298.15	30.03
14774	C8H15I3	1,1,1-triiodooctane	---	68.707	928.58	1.2222	356.02	928.58	2	356.02	38.05
14775	C8H15N	octanenitrile	124-12-9	58.289	661.13	1.2222	227.55	661.13	1,2	298.15	28.01
14861	C8H16	propylcyclopentane	2040-96-2	56.934	603.00	1.2410	155.79	603.00	1,2	298.15	24.42
14862	C8H16	isopropylcyclopentane	3875-51-2	56.868	596.40	1.2222	161.78	596.40	1,2	298.15	24.38
14863	C8H16	1-methyl-1-ethylcyclopentane	16747-50-5	57.879	582.00	1.2222	129.35	582.00	2	298.15	24.07
14864	C8H16	1-methyl-cis-2-ethylcyclopentane	930-89-2	57.006	597.34	1.2222	167.20	597.34	2	298.15	24.49
14865	C8H16	1-methyl-trans-2-ethylcyclopentane	930-90-5	57.185	587.14	1.2222	167.25	587.14	2	298.15	24.04
14866	C8H16	1-methyl-cis-3-ethylcyclopentane	2613-66-3	57.188	586.99	1.2222	186.08	586.99	2	298.15	24.04
14867	C8H16	1-methyl-trans-3-ethylcyclopentane	2613-65-2	57.188	586.99	1.2222	165.15	586.99	2	298.15	24.04
14868	C8H16	1,1,2-trimethylcyclopentane	4259-00-1	56.308	584.65	1.2222	251.51	584.65	2	298.15	23.55
14869	C8H16	1,1,3-trimethylcyclopentane	4516-69-2	56.538	571.30	1.2222	130.71	571.30	2	298.15	22.94
14870	C8H16	1,cis-2,cis-3-trimethylcyclopentane	2613-69-6	56.926	591.57	1.2222	156.72	591.57	2	298.15	24.16
14871	C8H16	1,cis-2,trans-3-trimethylcyclopentane	15890-40-1	57.072	583.36	1.2222	161.15	583.36	2	298.15	23.80
14872	C8H16	1,trans-2,cis-3-trimethylcyclopentane	19374-46-0	57.284	572.46	1.2222	160.45	572.46	2	298.15	23.31
14873	C8H16	1,cis-2,cis-4-trimethylcyclopentane	2613-72-1	57.086	582.61	1.2222	140.85	582.61	2	298.15	23.77
14874	C8H16	1,cis-2,trans-4-trimethylcyclopentane	4850-28-6	57.093	582.21	1.2222	140.60	582.21	2	298.15	23.75
14875	C8H16	1,trans-2,cis-4-trimethylcyclopentane	16883-48-0	57.313	571.10	1.2222	142.37	571.10	2	298.15	23.25
14876	C8H16	1-methyl-3-ethylcyclopentane	3726-47-4	57.392	585.27	1.2222	142.85	585.27	2	298.15	24.03
14877	C8H16	ethylcyclohexane	1678-91-7	60.100	609.15	1.3020	161.84	609.15	1,2	298.15	25.05
14878	C8H16	1,1-dimethylcyclohexane	590-66-9	55.500	591.15	1.2153	239.66	591.15	1,2	298.15	23.65
14879	C8H16	1,2-dimethylcyclohexane, (cis+trans)	583-57-3	55.377	597.51	1.2222	201.53	597.51	2	298.15	23.79
14880	C8H16	cis-1,2-dimethylcyclohexane	2207-01-4	60.891	606.15	1.3037	223.16	606.15	1,2	298.15	25.19
14881	C8H16	trans-1,2-dimethylcyclohexane	6876-23-9	54.224	596.15	1.2017	184.99	596.15	1,2	298.15	23.57
14882	C8H16	1,3-dimethylcyclohexane, cis and trans	591-21-9	54.498	597.51	1.2222	201.53	597.51	2	298.15	23.42
14883	C8H16	cis-1,3-dimethylcyclohexane	638-04-0	54.170	591.15	1.2460	197.59	591.15	1,2	298.15	22.59

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
14884	C8H16	trans-1,3-dimethylcyclohexane	2207-03-6	58.130	598.00	1.2726	183.06	598.00	1,2	298.15	24.15
14885	C8H16	1,4-dimethylcyclohexane, (cis+trans)	589-90-2	54.914	597.51	1.2222	201.53	597.51	2	298.15	23.60
14886	C8H16	cis-1,4-dimethylcyclohexane	624-29-3	55.437	598.15	1.2167	185.72	598.15	1,2	298.15	23.94
14887	C8H16	trans-1,4-dimethylcyclohexane	2207-04-7	55.600	590.15	1.2846	236.22	590.15	1,2	298.15	22.52
14888	C8H16	cyclooctane	292-64-8	47.970	647.20	1.2222	287.60	647.20	1,2	298.15	22.55
14890	C8H16	1-octene	111-66-0	54.040	566.60	1.2468	171.46	566.60	1,2	298.15	21.29
14891	C8H16	oct-2-ene	111-67-1	53.552	564.74	1.2222	186.15	564.74	2	298.15	21.40
14892	C8H16	cis-2-octene	7642-04-8	52.250	576.06	1.2222	172.95	576.06	2	298.15	21.44
14893	C8H16	trans-2-octene	13389-42-9	52.050	577.00	1.2222	185.45	577.00	2	298.15	21.40
14894	C8H16	cis-3-octene	14850-22-7	52.344	572.11	1.2222	147.15	572.11	2	298.15	21.28
14895	C8H16	trans-3-octene	14919-01-8	52.171	574.00	1.2222	163.15	574.00	2	298.15	21.30
14896	C8H16	oct-4-ene	592-99-4	53.545	564.74	1.2222	183.25	564.74	2	298.15	21.39
14897	C8H16	cis-4-octene	7642-15-1	52.357	571.59	1.2222	154.45	571.59	2	298.15	21.26
14898	C8H16	trans-4-octene	14850-23-8	52.146	573.00	1.2222	179.37	573.00	2	298.15	21.25
14899	C8H16	2-methyl-1-heptene	15870-10-7	52.270	568.53	1.2222	183.15	568.53	2	298.15	21.07
14900	C8H16	3-methyl-1-heptene	4810-09-7	52.484	557.26	1.2222	162.66	557.26	2	298.15	20.58
14901	C8H16	4-methyl-1-heptene	13151-05-8	52.414	559.87	1.2222	162.66	559.87	2	298.15	20.69
14902	C8H16	5-methyl-1-heptene	13151-04-7	52.395	560.59	1.2222	162.66	560.59	2	298.15	20.72
14903	C8H16	6-methyl-1-heptene	5026-76-6	52.399	560.45	1.2222	162.66	560.45	2	298.15	20.72
14904	C8H16	2-methyl-2-heptene	627-97-4	51.928	575.22	1.2222	160.38	575.22	2	298.15	21.26
14905	C8H16	3-methyl-cis-2-heptene	22768-19-0	51.947	574.35	1.2222	160.38	574.35	2	298.15	21.23
14906	C8H16	3-methyl-trans-2-heptene	22768-20-3	51.947	574.35	1.2222	160.38	574.35	2	298.15	21.23
14907	C8H16	4-methyl-cis-2-heptene	66225-16-9	52.128	563.49	1.2222	159.34	563.49	2	298.15	20.76
14908	C8H16	4-methyl-trans-2-heptene	66225-17-0	52.128	563.49	1.2222	159.34	563.49	2	298.15	20.76
14909	C8H16	5-methyl-cis-2-heptene	24608-84-2	51.988	569.31	1.2222	159.34	569.31	2	298.15	21.00
14910	C8H16	5-methyl-trans-2-heptene	24608-85-3	51.988	569.31	1.2222	159.34	569.31	2	298.15	21.00
14911	C8H16	6-methyl-2-heptene	73548-72-8	52.412	564.74	1.2222	159.40	564.74	2	298.15	20.94
14912	C8H16	6-methyl-cis-2-heptene	66225-18-1	52.022	567.85	1.2222	159.34	567.85	2	298.15	20.94
14913	C8H16	6-methyl-trans-2-heptene	51065-65-7	52.022	567.85	1.2222	159.34	567.85	2	298.15	20.94
14914	C8H16	6-methyl-3-heptene	3404-57-7	52.118	564.74	1.2222	159.40	564.74	2	298.15	20.82
14915	C8H16	2-methyl-3-heptene	17618-76-7	51.672	564.74	1.2222	165.65	564.74	2	298.15	20.64
14916	C8H16	2-methyl-cis-3-heptene	20488-34-0	52.201	560.58	1.2222	159.34	560.58	2	298.15	20.64
14917	C8H16	2-methyl-trans-3-heptene	692-96-6	52.201	560.58	1.2222	159.34	560.58	2	298.15	20.64
14918	C8H16	3-methyl-3-heptene	7300-03-0	52.994	564.74	1.2222	159.40	564.74	2	298.15	21.17
14919	C8H16	3-methyl-cis-3-heptene	22768-17-8	51.981	572.89	1.2222	160.38	572.89	2	298.15	21.17
14920	C8H16	3-methyl-trans-3-heptene	22768-18-9	51.981	572.89	1.2222	160.38	572.89	2	298.15	21.17
14921	C8H16	4-methyl-3-heptene	4485-16-9	52.994	564.74	1.2222	159.40	564.74	2	298.15	21.17
14922	C8H16	4-methyl-cis-3-heptene	14255-24-4	51.947	574.35	1.2222	160.38	574.35	2	298.15	21.23
14923	C8H16	4-methyl-trans-3-heptene	13714-85-7	51.947	574.35	1.2222	160.38	574.35	2	298.15	21.23
14924	C8H16	5-methyl-3-heptene	13172-91-3	51.672	564.74	1.2222	159.40	564.74	2	298.15	20.64
14925	C8H16	5-methyl-cis-3-heptene	50422-80-5	52.201	560.58	1.2222	159.34	560.58	2	298.15	20.64
14926	C8H16	5-methyl-trans-3-heptene	53510-18-2	52.201	560.58	1.2222	159.34	560.58	2	298.15	20.64
14927	C8H16	6-methyl-cis-3-heptene	66225-19-2	52.092	564.94	1.2222	159.34	564.94	2	298.15	20.82
14928	C8H16	6-methyl-trans-3-heptene	66225-20-5	52.092	564.94	1.2222	159.34	564.94	2	298.15	20.82
14929	C8H16	2-ethyl-1-hexene	1632-16-2	51.707	574.00	1.2222	163.70	574.00	2	298.15	21.11
14930	C8H16	3-ethyl-1-hexene	3404-58-8	52.511	556.24	1.2222	162.66	556.24	2	298.15	20.54
14931	C8H16	4-ethyl-1-hexene	16746-85-3	52.523	555.81	1.2222	162.66	555.81	2	298.15	20.52
14932	C8H16	2,3-dimethyl-1-hexene	16746-86-4	52.043	560.04	1.2222	148.70	560.04	2	298.15	20.55
14933	C8H16	2,4-dimethyl-1-hexene	16746-87-5	52.018	561.06	1.2222	148.70	561.06	2	298.15	20.60
14934	C8H16	2,5-dimethyl-1-hexene	6975-92-4	52.003	561.65	1.2222	148.70	561.65	2	298.15	20.62
14935	C8H16	3,3-dimethyl-1-hexene	3404-77-1	51.614	555.62	1.2222	180.08	555.62	2	298.15	20.16
14936	C8H16	3,4-dimethyl-1-hexene	16745-94-1	51.890	563.01	1.2222	147.66	563.01	2	298.15	20.64
14937	C8H16	3,5-dimethyl-1-hexene	7423-69-0	52.190	551.31	1.2222	147.66	551.31	2	298.15	20.16
14938	C8H16	4,4-dimethyl-1-hexene	1647-08-1	51.501	560.33	1.2222	180.08	560.33	2	298.15	20.36
14939	C8H16	4,5-dimethyl-1-hexene	16106-59-5	51.998	558.62	1.2222	147.66	558.62	2	298.15	20.46
14940	C8H16	5,5-dimethyl-1-hexene	7116-86-1	51.669	553.41	1.2222	180.08	553.41	2	298.15	20.07
14941	C8H16	3-ethyl-cis-2-hexene	36880-72-5	51.981	572.89	1.2222	160.38	572.89	2	298.15	21.17
14942	C8H16	3-ethyl-trans-2-hexene	66225-15-8	51.981	572.89	1.2222	160.38	572.89	2	298.15	21.17
14943	C8H16	4-ethyl-cis-2-hexene	54616-49-8	52.165	562.03	1.2222	159.34	562.03	2	298.15	20.70
14944	C8H16	4-ethyl-trans-2-hexene	19781-63-6	52.165	562.03	1.2222	159.34	562.03	2	298.15	20.70
14945	C8H16	2,3-dimethyl-2-hexene	7145-20-2	51.525	577.66	1.2222	158.05	577.66	2	298.15	21.22
14946	C8H16	2,4-dimethyl-2-hexene	14255-23-3	51.794	562.10	1.2222	145.38	562.10	2	298.15	20.56
14947	C8H16	2,5-dimethyl-2-hexene	3404-78-2	51.738	564.45	1.2222	145.38	564.45	2	298.15	20.66
14948	C8H16	3,4-dimethyl-cis-2-hexene	19550-81-3	51.612	570.01	1.2222	145.38	570.01	2	298.15	20.88
14949	C8H16	3,4-dimethyl-trans-2-hexene	19550-82-4	51.612	570.01	1.2222	145.38	570.01	2	298.15	20.88
14950	C8H16	3,5-dimethyl-cis-2-hexene	66225-31-8	51.745	564.15	1.2222	145.38	564.15	2	298.15	20.64
14951	C8H16	3,5-dimethyl-trans-2-hexene	66225-12-5	51.745	564.15	1.2222	145.38	564.15	2	298.15	20.64
14952	C8H16	4,4-dimethyl-cis-2-hexene	19550-83-5	51.290	560.54	1.2222	176.76	560.54	2	298.15	20.28
14953	C8H16	4,4-dimethyl-trans-2-hexene	---	51.290	560.54	1.2222	176.76	560.54	2	298.15	20.28
14954	C8H16	4,5-dimethyl-2-hexene	73548-71-7	51.372	564.74	1.2222	159.40	564.74	2	298.15	20.52
14955	C8H16	4,5-dimethyl-cis-2-hexene	65036-71-7	51.715	562.01	1.2222	144.34	562.01	2	298.15	20.52
14956	C8H16	4,5-dimethyl-trans-2-hexene	66225-14-7	51.715	562.01	1.2222	144.34	562.01	2	298.15	20.52
14957	C8H16	5,5-dimethyl-cis-2-hexene	39761-61-0	51.260	561.87	1.2222	176.76	561.87	2	298.15	20.34
14958	C8H16	5,5-dimethyl-trans-2-hexene	39782-43-9	51.355	557.73	1.2222	176.76	557.73	2	298.15	20.17
14959	C8H16	3-ethyl-3-hexene	16789-51-8	52.153	565.63	1.2222	160.38	565.63	2	298.15	20.88
14960	C8H16	2,2-dimethyl-cis-3-hexene	690-92-6	51.309	559.69	1.2222	135.80	559.69	2	298.15	20.25
14961	C8H16	2,2-dimethyl-trans-3-hexene	690-93-7	51.470	552.92	1.2222	176.76	552.92	2	298.15	19.96
14962	C8H16	2,3-dimethyl-cis-3-hexene	59643-75-3	51.678	567.08	1.2222	145.38	567.08	2	298.15	20.76
14963	C8H16	2,3-dimethyl-trans-3-hexene	66225-30-7	51.678	567.08	1.2222	145.38	567.08	2	298.15	20.76
14964	C8H16	2,4-dimethyl-cis-3-hexene	37549-89-6	51.851	559.76	1.2222	145.38	559.76	2	298.15	20.46

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n							(sigma - dynes/cm, T - K)	
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
14965	C8H16	2,4-dimethyl-trans-3-hexene	61847-78-7	51.902	557.71	1.2222	145.38	557.71	2	298.15	20.38
14966	C8H16	2,5-dimethyl-cis-3-hexene	10557-44-5	52.012	550.28	1.2222	144.34	550.28	2	298.15	20.04
14967	C8H16	2,5-dimethyl-trans-3-hexene	692-70-6	52.012	550.28	1.2222	144.34	550.28	2	298.15	20.04
14968	C8H16	3,4-dimethyl-cis-3-hexene	19550-87-9	51.518	578.00	1.2222	146.42	578.00	2	298.15	21.23
14969	C8H16	3,4-dimethyl-trans-3-hexene	19550-88-0	51.518	578.00	1.2222	146.42	578.00	2	298.15	21.23
14970	C8H16	2-propyl-1-pentene	15918-08-8	52.328	566.22	1.2222	163.70	566.22	2	298.15	20.98
14971	C8H16	2-isopropyl-1-pentene	16746-02-4	51.953	563.69	1.2222	148.70	563.69	2	298.15	20.70
14972	C8H16	3-methyl-2-ethyl-1-pentene	3404-67-9	52.007	561.50	1.2222	148.70	561.50	2	298.15	20.61
14973	C8H16	4-methyl-2-ethyl-1-pentene	3404-80-6	52.050	559.75	1.2222	148.70	559.75	2	298.15	20.54
14974	C8H16	2-methyl-3-ethyl-1-pentene	19780-66-6	52.061	559.31	1.2222	160.25	559.31	2	298.15	20.52
14975	C8H16	3-methyl-3-ethyl-1-pentene	6196-60-7	51.342	567.40	1.2222	180.08	567.40	2	298.15	20.64
14976	C8H16	4-methyl-3-ethyl-1-pentene	61847-80-1	52.054	556.43	1.2222	147.66	556.43	2	298.15	20.37
14977	C8H16	2,3,3-trimethyl-1-pentene	560-23-6	50.997	565.71	1.2222	204.15	565.71	2	298.15	20.42
14978	C8H16	2,3,4-trimethyl-1-pentene	565-76-4	51.957	557.76	1.2222	130.96	557.76	2	298.15	20.40
14979	C8H16	2,4,4-trimethyl-1-pentene	107-39-1	51.554	553.00	1.2222	178.90	553.00	2	298.15	20.00
14980	C8H16	3,3,4-trimethyl-1-pentene	560-22-5	50.998	561.62	1.2222	165.08	561.62	2	298.15	20.22
14981	C8H16	3,4,4-trimethyl-1-pentene	564-03-4	51.031	560.14	1.2222	165.08	560.14	2	298.15	20.16
14982	C8H16	2-methyl-3-ethyl-2-pentene	19780-67-7	51.675	570.68	1.2222	146.42	570.68	2	298.15	20.94
14983	C8H16	4-methyl-3-ethyl-cis-2-pentene	42067-48-1	51.612	570.01	1.2222	145.38	570.01	2	298.15	20.88
14984	C8H16	4-methyl-3-ethyl-trans-2-pentene	42067-49-2	51.668	567.52	1.2222	145.38	567.52	2	298.15	20.78
14985	C8H16	2,3,4-trimethyl-2-pentene	565-77-5	51.159	574.12	1.2222	159.85	574.12	2	298.15	20.90
14986	C8H16	2,4,4-trimethyl-2-pentene	107-40-4	51.446	558.00	1.2222	166.84	558.00	2	298.15	20.22
14987	C8H16	3,4,4-trimethyl-cis-2-pentene	39761-64-3	50.643	573.25	1.2222	162.80	573.25	2	298.15	20.64
14988	C8H16	3,4,4-trimethyl-trans-2-pentene	39761-57-4	50.643	573.25	1.2222	162.80	573.25	2	298.15	20.64
14989	C8H16	3,4,4-trimethyl-2-pentene	598-96-9	51.672	564.74	1.2222	159.40	564.74	2	298.15	20.64
14990	C8H16	2,4,4-trimethylpentene	25167-70-8	50.304	564.74	1.2222	173.30	564.74	2	298.15	20.10
14991	C8H16	3-methyl-2-isopropyl-1-butene	111823-35-9	51.710	554.89	1.2222	133.70	554.89	2	298.15	20.16
14992	C8H16	3,3-dimethyl-2-ethyl-1-butene	18231-53-3	50.945	568.22	1.2222	166.12	568.22	2	298.15	20.52
14994	C8H16Br2	1,1-dibromooctane	62168-26-7	74.667	716.02	1.2222	284.02	716.02	2	298.15	38.66
14995	C8H16Br2	1,2-dibromooctane	6269-92-7	74.641	716.02	1.2222	286.34	716.02	2	298.15	38.65
14996	C8H16Br2	1,4-dibromooctane	70690-24-3	74.908	716.02	1.2222	286.34	716.02	2	298.15	38.79
14997	C8H16Br2	1,5-dibromooctane	17912-17-3	74.908	716.02	1.2222	286.34	716.02	2	298.15	38.79
14998	C8H16Br2	1,8-dibromooctane	4549-32-0	76.944	716.02	1.2222	288.65	716.02	1,2	298.15	39.84
14999	C8H16Br2	4,5-dibromooctane	61539-75-1	74.908	716.02	1.2222	286.34	716.02	2	298.15	38.79
15005	C8H16Cl2	1,1-dichlorooctane	20395-24-8	75.435	672.06	1.2222	224.26	672.06	2	298.15	36.84
15006	C8H16Cl2	2,5-dichloro-2,5-dimethylhexane	6223-78-5	76.307	672.06	1.2222	340.65	672.06	2	340.65	32.16
15007	C8H16Cl2	1,8-dichlorooctane	2162-99-4	73.936	672.06	1.2222	260.99	672.06	1,2	298.15	36.11
15008	C8H16Cl2	2,3-dichlorooctane	21948-47-0	75.260	672.06	1.2222	218.05	672.06	2	298.15	36.76
15016	C8H16F2	1,1-difluorooctane	61350-03-6	57.105	580.30	1.2222	228.72	580.30	2	298.15	23.65
15017	C8H16I2	1,1-diiodooctane	66225-22-7	78.632	799.06	1.2222	280.54	799.06	2	298.15	44.43
15018	C8H16I2	1,8-diiodooctane	24772-63-2	76.538	799.06	1.2222	291.65	799.06	1,2	298.15	43.25
15062	C8H16O	2-ethylhexanal	123-05-7	64.135	607.00	1.2222	246.00	607.00	2	298.15	28.08
15063	C8H16O	1-octanal	124-13-0	63.743	621.00	1.2222	246.00	621.00	2	298.15	28.66
15064	C8H16O	5-methylheptanal	75579-88-3	63.416	614.00	1.2222	246.00	614.00	2	298.15	28.14
15065	C8H16O	2-propylpentanal	18295-59-5	63.217	614.00	1.2222	246.00	614.00	2	298.15	28.05
15066	C8H16O	2-octanone	111-13-7	57.302	624.00	1.2222	252.86	624.00	2	298.15	25.90
15067	C8H16O	2,5-dimethyl-3-hexanone	1888-57-9	55.993	624.00	1.2222	248.50	624.00	2	298.15	25.31
15068	C8H16O	2,2-dimethyl-3-hexanone	5405-79-8	55.915	624.00	1.2222	248.50	624.00	2	298.15	25.27
15069	C8H16O	3,3-dimethyl-2-hexanone	26118-38-7	55.967	624.00	1.2222	248.50	624.00	2	298.15	25.30
15070	C8H16O	3,4-dimethyl-2-hexanone	19550-10-8	56.537	624.00	1.2222	248.50	624.00	2	298.15	25.55
15071	C8H16O	4,4-dimethyl-3-hexanone	19550-14-2	56.018	624.00	1.2222	248.50	624.00	2	298.15	25.32
15072	C8H16O	3-ethyl-4-methyl-2-pentanone	71172-57-1	56.355	624.00	1.2222	248.50	624.00	2	298.15	25.47
15073	C8H16O	2-methyl-3-heptanone	13019-20-0	56.537	624.00	1.2222	248.50	624.00	2	298.15	25.55
15074	C8H16O	2-methyl-4-heptanone	626-33-5	56.329	624.00	1.2222	248.50	624.00	2	298.15	25.46
15075	C8H16O	3-methyl-2-heptanone	2371-19-9	56.850	624.00	1.2222	248.50	624.00	2	298.15	25.70
15076	C8H16O	3-methyl-4-heptanone	15726-15-5	56.277	624.00	1.2222	248.50	624.00	2	298.15	25.44
15077	C8H16O	5-methyl-3-heptanone	541-85-5	56.745	624.00	1.2222	248.50	624.00	2	298.15	25.65
15078	C8H16O	6-methyl-2-heptanone	928-68-7	57.007	624.00	1.2222	248.50	624.00	2	298.15	25.77
15079	C8H16O	6-methyl-3-heptanone	624-42-0	56.850	624.00	1.2222	248.50	624.00	2	298.15	25.70
15080	C8H16O	3-octanone	106-68-3	57.944	624.00	1.2222	248.50	624.00	1,2	298.15	26.19
15081	C8H16O	4-octanone	589-63-9	56.904	624.00	1.2222	248.50	624.00	1,2	298.15	25.72
15082	C8H16O	2,2,4-trimethyl-3-pentanone	5857-36-3	55.357	624.00	1.2222	244.13	624.00	2	298.15	25.02
15095	C8H16O	2,2-dimethylcyclohexanol	1193-46-0	66.801	645.00	1.2222	281.15	645.00	2	298.15	31.30
15096	C8H16O	2,4-dimethylcyclohexanol	69542-91-2	67.055	645.00	1.2222	292.83	645.00	2	298.15	31.42
15097	C8H16O	2,6-dimethylcyclohexanol	5337-72-4	66.295	645.00	1.2222	305.65	645.00	2	305.65	30.24
15098	C8H16O	3,3-dimethylcyclohexanol	767-12-4	70.988	645.00	1.2222	284.65	645.00	2	298.15	33.26
15099	C8H16O	3,4-dimethylcyclohexanol	5715-23-1	73.179	645.00	1.2222	292.83	645.00	2	298.15	34.28
15100	C8H16O	3,5-dimethylcyclohexanol	5441-52-1	72.075	645.00	1.2222	284.75	645.00	2	298.15	33.77
15101	C8H16O	4,4-dimethylcyclohexanol	932-01-4	71.529	645.00	1.2222	289.15	645.00	2	298.15	33.51
15102	C8H16O	cis-1,2-dimethylcyclohexanol	19879-11-9	59.600	645.00	1.2222	296.35	645.00	2	298.15	27.92
15103	C8H16O	trans-1,2-dimethyl cyclohexanol	19879-12-0	59.600	645.00	1.2222	286.35	645.00	2	298.15	27.92
15104	C8H16O	cis-1,3-dimethylcyclohexanol	15466-94-1	59.600	645.00	1.2222	300.65	645.00	2	300.65	27.68
15105	C8H16O	trans-1,3-dimethylcyclohexanol	15466-93-0	59.600	645.00	1.2222	287.65	645.00	2	298.15	27.92
15106	C8H16O	cis-1,4-dimethylcyclohexanol	16980-61-3	59.600	645.00	1.2222	297.15	645.00	2	298.15	27.92
15107	C8H16O	2,2-dimethyl-4-hexen-3-ol	37674-67-2	59.575	615.00	1.2222	298.00	615.00	2	298.15	26.49
15108	C8H16O	2,5-dimethyl-4-hexen-3-ol	60703-31-3	59.577	615.00	1.2222	298.00	615.00	2	298.15	26.49
15109	C8H16O	3,5-dimethyl-1-hexen-3-ol	3329-48-4	57.607	615.00	1.2222	298.00	615.00	2	298.15	25.61
15110	C8H16O	3,5-dimethyl-4-hexen-3-ol	1569-43-3	59.575	615.00	1.2222	298.00	615.00	2	298.15	26.49
15111	C8H16O	2-methyl-3-hepten-2-ol	116668-45-2	59.575	615.00	1.2222	298.00	615.00	2	298.15	26.49
15112	C8H16O	2-methyl-4-hepten-2-ol	116668-44-1	45.025	615.00	0.8000	245.15	615.00	2	298.15	26.49

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
15113	C8H16O	2-methyl-6-hepten-2-ol	77437-98-0	59.575	615.00	1.2222	290.00	615.00	2	298.15	26.49
15114	C8H16O	3-methyl-4-hepten-3-ol	4048-30-0	59.575	615.00	1.2222	290.00	615.00	2	298.15	26.49
15115	C8H16O	3-methyl-6-hepten-1-ol	4048-32-2	59.575	615.00	1.2222	290.00	615.00	2	298.15	26.49
15116	C8H16O	4-methyl-1-hepten-4-ol	1186-31-8	59.269	615.00	1.2222	290.00	615.00	2	298.15	26.35
15117	C8H16O	4-methyl-4-hepten-3-ol	81280-12-8	59.575	615.00	1.2222	290.00	615.00	2	298.15	26.49
15118	C8H16O	5-methyl-2-hepten-4-ol	4048-31-1	59.575	615.00	1.2222	290.00	615.00	2	298.15	26.49
15119	C8H16O	6-methyl-2-hepten-4-ol	4798-62-3	59.575	615.00	1.2222	290.00	615.00	2	298.15	26.49
15120	C8H16O	6-methyl-5-hepten-2-ol	1569-60-4	61.118	615.00	1.2222	290.00	615.00	2	298.15	27.17
15121	C8H16O	1-octen-4-ol	40575-42-6	60.771	615.00	1.2222	290.00	615.00	2	298.15	27.02
15122	C8H16O	2-octen-1-ol	22104-78-5	59.575	615.00	1.2222	290.00	615.00	2	298.15	26.49
15123	C8H16O	2-octen-4-ol	4798-61-2	61.118	615.00	1.2222	290.00	615.00	2	298.15	27.17
15124	C8H16O	4-octen-1-ol	67700-26-9	63.196	615.00	1.2222	290.00	615.00	2	298.15	28.10
15125	C8H16O	5-octen-1-ol	90200-83-2	59.575	615.00	1.2222	290.00	615.00	2	298.15	26.49
15127	C8H16O	1-ethylcyclohexanol	1940-18-7	61.445	645.00	1.2222	307.65	645.00	2	307.65	27.83
15128	C8H16O	4-ethylcyclohexanol	4534-74-1	59.600	645.00	1.2222	292.83	645.00	2	298.15	27.92
15129	C8H16O	cis-2-ethylcyclohexanol, (±)	116697-35-9	68.863	645.00	1.2222	292.83	645.00	2	298.15	32.26
15130	C8H16O	trans-2-ethylcyclohexanol, (±)	89886-25-9	59.600	645.00	1.2222	292.83	645.00	2	298.15	27.92
15131	C8H16O	hexyl vinyl ether	5363-64-4	60.442	586.00	1.2222	166.00	586.00	2	298.15	25.35
15141	C8H16O	2-ethylcyclohexanol	3760-20-1	59.600	645.00	1.2222	292.83	645.00	2	298.15	27.92
15142	C8H16O	DL-6-methyl-5-hepten-2-ol	4630-06-2	59.575	615.00	1.2222	293.00	615.00	2	298.15	26.49
15143	C8H16O	trans-2-octen-1-ol	18409-17-1	59.575	615.00	1.2222	293.00	615.00	2	298.15	26.49
15144	C8H16O	1-octen-3-ol	3391-86-4	59.575	615.00	1.2222	293.00	615.00	2	298.15	26.49
15145	C8H16O	(R)-(-)-1-octen-3-ol	3687-48-7	59.575	615.00	1.2222	293.00	615.00	2	298.15	26.49
15147	C8H16O	3-ethyl-3-methyl-2-pentanone	19780-65-5	56.300	624.00	1.2222	248.50	624.00	2	298.15	25.45
15148	C8H16O	5-methyl-2-heptanone	18217-12-4	56.842	624.00	1.2222	248.50	624.00	2	298.15	25.69
15151	C8H16O	6-methyl-6-hepten-2-ol	1335-09-7	51.006	615.00	1.2222	270.00	615.00	2	298.15	22.68
15156	C8H16O2	octanoic acid	124-07-2	55.546	692.00	1.2222	289.65	692.00	2	298.15	27.89
15157	C8H16O2	2-ethylhexanoic acid	149-57-5	54.910	692.00	1.2222	289.65	692.00	2	298.15	27.57
15158	C8H16O2	3-ethylhexanoic acid	41065-91-2	51.575	692.00	1.2222	289.65	692.00	2	298.15	25.90
15159	C8H16O2	heptyl formate	112-23-2	62.260	633.60	1.2222	226.75	633.60	2	298.15	28.62
15160	C8H16O2	hexyl acetate	142-92-7	57.660	618.00	1.2111	192.25	618.00	1,2	298.15	25.97
15161	C8H16O2	1,1-dimethylbutyl acetate	34859-98-8	58.126	618.00	1.2222	192.25	618.00	2	298.15	25.99
15162	C8H16O2	2-ethylbutyl acetate	10031-87-5	59.307	618.00	1.2222	192.25	618.00	2	298.15	26.52
15163	C8H16O2	sec-hexyl acetate	108-84-9	57.418	618.00	1.2222	192.25	618.00	2	298.15	25.67
15164	C8H16O2	2-methyl-1-pentyl acetate	7789-99-3	59.367	618.00	1.2222	192.25	618.00	2	298.15	26.54
15165	C8H16O2	2-methyl-3-pentyl acetate	35897-16-6	57.613	618.00	1.2222	192.25	618.00	2	298.15	25.76
15166	C8H16O2	3-methyl-3-pentyl acetate	10250-47-2	57.483	618.00	1.2222	192.25	618.00	2	298.15	25.70
15167	C8H16O2	pentyl propanoate	624-54-4	60.076	617.80	1.2222	203.05	617.80	2	298.15	26.85
15168	C8H16O2	1-methylbutyl propanoate	54004-43-2	62.345	597.00	1.2222	206.75	597.00	2	298.15	26.76
15169	C8H16O2	2-methylbutyl propanoate	2438-20-2	60.879	609.00	1.2222	206.75	609.00	2	298.15	26.76
15170	C8H16O2	isopentyl propanoate	105-68-0	59.718	611.00	1.2222	206.75	611.00	2	298.15	26.35
15171	C8H16O2	1-ethylpropyl propanoate	---	62.345	597.00	1.2222	206.75	597.00	2	298.15	26.76
15172	C8H16O2	1,1-dimethylpropyl propanoate	34949-22-9	63.040	589.00	1.2222	224.17	589.00	2	298.15	26.61
15173	C8H16O2	1,2-dimethylpropyl propanoate	66576-70-3	62.806	593.00	1.2222	191.75	593.00	2	298.15	26.74
15174	C8H16O2	2,2-dimethylpropyl propanoate	3581-69-9	62.511	593.00	1.2222	224.17	593.00	2	298.15	26.61
15175	C8H16O2	butyl butanoate	109-21-7	55.899	616.00	1.2081	181.68	616.00	1,2	298.15	25.13
15176	C8H16O2	isobutyl butanoate	539-90-2	51.625	611.00	1.2222	206.75	611.00	1,2	298.15	22.78
15177	C8H16O2	isobutyl isobutyrate	97-85-8	55.894	602.00	1.2222	192.45	602.00	2	298.15	24.23
15178	C8H16O2	sec-butyl butanoate	819-97-6	57.810	596.00	1.2222	206.75	596.00	2	298.15	24.76
15179	C8H16O2	tert-butyl butanoate	2308-38-5	58.424	574.00	1.2222	224.17	574.00	2	298.15	23.86
15180	C8H16O2	sec-butyl butanoate, (S)	116836-55-6	57.429	599.25	1.2222	181.65	599.25	2	298.15	24.76
15181	C8H16O2	tert-butyl 2-methylpropanoate	16889-72-8	56.404	600.85	1.2222	208.77	600.85	2	298.15	24.40
15185	C8H16O2	ethyl hexanoate	123-66-0	59.527	602.00	1.2222	206.15	602.00	1,2	298.15	25.81
15186	C8H16O2	ethyl 4-methylpentanoate	25415-67-2	57.791	602.00	1.2222	204.55	602.00	2	298.15	25.06
15191	C8H16O2	isopropyl 3-methylbutanoate	32665-23-9	56.134	599.25	1.2222	200.20	599.25	2	298.15	24.21
15192	C8H16O2	isopropyl pentanoate	18362-97-5	57.815	602.00	1.2222	204.55	602.00	2	298.15	25.07
15193	C8H16O2	propyl 3-methylbutanoate	557-00-6	57.917	599.25	1.2222	200.20	599.25	2	298.15	24.97
15194	C8H16O2	propyl pentanoate	141-06-0	59.434	602.00	1.2222	202.45	602.00	1,2	298.15	25.77
15195	C8H16O2	methyl heptanoate	106-73-0	62.225	602.00	1.2222	217.15	602.00	1,2	298.15	26.98
15204	C8H16O2	2-methylheptanoic acid	1188-02-9	51.575	692.00	1.2222	289.65	692.00	2	298.15	25.90
15205	C8H16O2	2-propylpentanoic acid	99-66-1	54.540	692.00	1.2222	289.65	692.00	2	298.15	27.39
15207	C8H16O2	butyl isobutyrate	97-87-0	56.482	602.00	1.2222	204.55	602.00	1,2	298.15	24.49
15232	C8H16O4	diethylene glycol ethyl ether acetate	112-15-2	68.420	660.00	1.2222	248.15	660.00	2	298.15	32.82
15243	C8H16S	thiacyclononane	6007-54-1	64.063	751.38	1.2222	263.93	751.38	2	298.15	34.54
15248	C8H17Br	1-bromooctane	111-83-1	60.279	665.09	1.2222	218.15	665.09	1,2	298.15	29.14
15249	C8H17Br	2-bromooctane, (±)-	60251-57-2	57.589	665.09	1.2222	218.15	665.09	2	298.15	27.84
15250	C8H17Br	2-ethylhexyl bromide	18908-66-2	57.916	665.09	1.2222	218.15	665.09	2	298.15	28.00
15252	C8H17Cl	1-chlorooctane	111-85-3	59.419	642.41	1.2222	215.35	642.41	1,2	298.15	27.72
15253	C8H17Cl	2-chloro-2,5-dimethylhexane	29342-44-7	57.880	642.41	1.2222	231.25	642.41	2	298.15	27.00
15254	C8H17Cl	3-chloro-2,3-dimethylhexane	101654-30-2	57.880	642.41	1.2222	231.25	642.41	2	298.15	27.00
15255	C8H17Cl	2-chloro-2-methylheptane	4325-49-9	57.880	642.41	1.2222	231.25	642.41	2	298.15	27.00
15256	C8H17Cl	2-chloro-6-methylheptane	2350-19-8	57.880	642.41	1.2222	231.25	642.41	2	298.15	27.00
15257	C8H17Cl	3-chloro-3-methylheptane	5272-02-6	57.880	642.41	1.2222	231.25	642.41	2	298.15	27.00
15258	C8H17Cl	4-chloro-4-methylheptane	61764-94-1	57.880	642.41	1.2222	231.25	642.41	2	298.15	27.00
15259	C8H17Cl	3-(chloromethyl)heptane	123-04-6	58.112	642.41	1.2222	231.25	642.41	2	298.15	27.11
15260	C8H17Cl	2-chlorooctane	628-61-5	56.589	642.41	1.2222	231.25	642.41	1,2	298.15	26.40
15261	C8H17Cl	2-chloro-2,4,4-trimethylpentane	6111-88-2	58.112	642.41	1.2222	247.15	642.41	2	298.15	27.11
15262	C8H17Cl	(S)-2-chlorooctane	16844-08-9	57.880	642.41	1.2222	231.25	642.41	2	298.15	27.00
15263	C8H17Cl	(<+->)-2-chlorooctane	51261-14-4	58.116	642.41	1.2222	231.25	642.41	2	298.15	27.11
15264	C8H17Cl	2-ethylhexyl-6-chloride	2350-24-5	57.880	642.41	1.2222	231.25	642.41	2	298.15	27.00

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
15273	C8H17F	1-fluorooctane	463-11-6	57.987	580.50	1.2222	209.15	580.50	1,2	298.15	24.03
15276	C8H17I	1-iodooctane	629-27-6	63.381	665.98	1.2222	227.45	665.98	1,2	298.15	30.68
15277	C8H17I	2-iodooctane, (±)	36049-78-2	62.003	665.98	1.2222	227.45	665.98	2	298.15	30.01
15278	C8H17I	2-ethylhexyl iodide	1653-16-3	62.176	665.98	1.2222	227.45	665.98	2	298.15	30.10
15279	C8H17I	2-octyl iodide	557-36-8	62.176	665.98	1.2222	227.45	665.98	2	298.15	30.10
15282	C8H17N	cyclohexyldimethylamine	98-94-2	69.911	642.00	1.2222	258.15	642.00	2	298.15	32.59
15283	C8H17N	cyclohexylethylamine	5459-93-8	70.169	642.00	1.2222	258.15	642.00	2	298.15	32.71
15285	C8H17N	N,4-dimethylcyclohexylamine	90226-23-6	74.430	642.00	1.2222	258.15	642.00	2	298.15	34.70
15286	C8H17N	2-ethylcyclohexanamine	6850-36-8	71.014	642.00	1.2222	258.15	642.00	2	298.15	33.11
15287	C8H17N	1-isopropylpiperidine	766-79-0	62.440	600.16	1.2222	272.15	450.12	2	298.15	26.97
15288	C8H17N	1-propylpiperidine	5470-02-0	61.972	603.00	1.2222	272.15	452.25	2	298.15	26.92
15289	C8H17N	2-propylpiperidine, (S)	458-88-8	58.718	624.30	1.2222	272.15	468.23	2	298.15	26.55
15290	C8H17N	4-propylpiperidine	22398-09-0	56.860	637.79	1.2222	272.15	478.34	2	298.15	26.32
15291	C8H17N	2,2,4-trimethylpiperidine	101257-71-0	62.796	598.03	1.2222	272.15	448.52	2	298.15	27.01
15292	C8H17N	2,3,6-trimethylpiperidine	50402-72-7	58.484	625.95	1.2222	272.15	469.46	2	298.15	26.53
15293	C8H17N	2,4,6-trimethylpiperidine	21974-48-1	63.523	593.77	1.2222	272.15	445.33	2	298.15	27.09
15295	C8H17N	(S)-(+)-1-cyclohexylethylamine	17430-98-7	70.644	642.00	1.2222	258.15	642.00	2	298.15	32.93
15296	C8H17N	2,3-dimethylcyclohexylamine	42195-92-6	69.526	642.00	1.2222	258.15	642.00	2	298.15	32.41
15297	C8H17N	R-(-)-cyclohexylethylamine	5913-13-3	70.644	642.00	1.2222	258.15	642.00	2	298.15	32.93
15298	C8H17N	4-(1-methylethyl)piperidine	19678-58-1	58.106	628.63	1.2222	272.15	471.48	2	298.15	26.48
15299	C8H17N	cyclohexaneethylamine	4442-85-7	70.644	642.00	1.2222	258.15	642.00	2	298.15	32.93
15300	C8H17N	5-ethyl-2-methylpiperidine	104-89-2	58.484	625.95	1.2222	272.15	469.46	2	298.15	26.53
15301	C8H17N	N-methyl-N-(cyclohexylmethyl) amine	25756-29-0	70.644	642.00	1.2222	258.15	642.00	2	298.15	32.93
15328	C8H17NO2	1-nitrooctane	629-37-8	60.624	690.75	1.2222	288.15	690.75	2	298.15	30.39
15332	C8H17NO2	2-nitrooctane, (±)	116836-12-5	59.969	690.75	1.2222	288.15	690.75	2	298.15	30.06
15354	C8H18	octane	111-65-9	52.036	568.83	1.2168	216.38	568.83	1,2	298.15	21.08
15355	C8H18	2-methylheptane	592-27-8	50.283	559.64	1.2017	164.16	559.64	1,2	298.15	20.15
15356	C8H18	3-methylheptane	589-81-1	54.070	563.67	1.2720	152.60	563.67	1,2	298.15	20.75
15357	C8H18	4-methylheptane	589-53-7	50.767	561.74	1.1962	152.20	561.74	1,2	298.15	20.54
15358	C8H18	3-methyl-3-ethylpentane	1067-08-9	51.235	576.50	1.1910	182.28	576.50	1,2	298.15	21.53
15359	C8H18	3-ethylhexane	619-99-8	53.200	565.40	1.2355	158.20	565.40	1,2	298.15	21.08
15360	C8H18	3-ethyl-2-methylpentane	609-26-7	50.889	567.00	1.2222	158.20	567.00	2	298.15	20.44
15361	C8H18	2,2-dimethylhexane	590-73-8	48.360	549.80	1.1855	151.97	549.80	1,2	298.15	19.15
15362	C8H18	2,3-dimethylhexane	584-94-1	50.276	563.40	1.1887	149.42	563.40	1,2	298.15	20.53
15363	C8H18	2,4-dimethylhexane	589-43-5	49.322	553.50	1.1933	149.42	553.50	1,2	298.15	19.59
15364	C8H18	2,5-dimethylhexane	592-13-2	48.650	550.00	1.1851	182.00	550.00	1,2	298.15	19.28
15365	C8H18	3,3-dimethylhexane	563-16-6	49.385	562.00	1.1840	147.05	562.00	1,2	298.15	20.17
15366	C8H18	3,4-dimethylhexane	583-48-2	52.345	568.80	1.2166	160.89	568.80	1,2	298.15	21.21
15367	C8H18	2,2,3-trimethylpentane	564-02-3	49.108	563.50	1.1784	160.89	563.50	1,2	298.15	20.22
15368	C8H18	2,2,4-trimethylpentane	540-84-1	47.434	543.96	1.1975	165.79	543.96	1,2	298.15	18.32
15369	C8H18	2,3,3-trimethylpentane	560-21-4	50.400	573.50	1.1863	172.22	573.50	1,2	298.15	21.11
15370	C8H18	2,3,4-trimethylpentane	565-75-3	50.330	566.30	1.1898	163.95	566.30	1,2	298.15	20.68
15371	C8H18	2,2,3,3-tetramethylbutane	594-82-1	49.448	567.80	1.2222	373.97	567.80	2	373.97	13.29
15372	C8H18	octane, mixture	---	49.571	562.52	1.2222	168.25	562.52	2	298.15	19.70
15430	C8H18O	1-octanol	111-87-5	44.318	652.50	0.8000	257.65	652.50	1,2	298.15	27.19
15431	C8H18O	2-octanol	123-96-6	43.096	637.15	0.8000	241.55	637.15	1,2	298.15	26.01
15432	C8H18O	2-octanol, (±)	4128-31-8	47.459	600.92	0.8000	241.55	600.92	2	298.15	27.43
15433	C8H18O	3-octanol	589-98-0	46.947	601.72	0.8000	228.15	601.72	2	298.15	27.16
15434	C8H18O	4-octanol	589-62-8	46.958	604.27	0.8000	232.45	604.27	2	298.15	27.25
15435	C8H18O	4-octanol, (±)	74778-22-6	47.137	600.92	0.8000	232.45	600.92	2	298.15	27.24
15436	C8H18O	2-methyl-1-heptanol	60435-70-3	46.952	602.93	0.8000	161.15	602.93	2	298.15	27.20
15437	C8H18O	3-methyl-1-heptanol	1070-32-2	47.010	616.90	0.8000	183.15	616.90	2	298.15	27.72
15438	C8H18O	4-methyl-1-heptanol	817-91-4	46.995	613.14	0.8000	225.24	613.14	2	298.15	27.58
15439	C8H18O	5-methyl-1-heptanol	7212-53-5	47.013	617.71	0.8000	169.15	617.71	2	298.15	27.75
15440	C8H18O	6-methyl-1-heptanol	1653-40-3	47.019	619.19	0.8000	167.15	619.19	2	298.15	27.80
15441	C8H18O	2-methyl-2-heptanol	625-25-2	46.405	583.83	0.8000	222.75	583.83	2	298.15	26.20
15442	C8H18O	3-methyl-2-heptanol	31367-46-1	46.689	593.34	0.8000	159.15	593.34	2	298.15	26.71
15443	C8H18O	4-methyl-2-heptanol	56298-90-9	46.729	600.77	0.8000	171.15	600.77	2	298.15	27.00
15444	C8H18O	5-methyl-2-heptanol	54630-50-1	46.731	601.18	0.8000	153.15	601.18	2	298.15	27.01
15445	C8H18O	6-methyl-2-heptanol	4730-22-7	46.731	601.18	0.8000	168.15	601.18	2	298.15	27.01
15446	C8H18O	2-methyl-3-heptanol	18720-62-2	46.700	595.37	0.8000	188.15	595.37	2	298.15	26.79
15447	C8H18O	3-methyl-3-heptanol	5582-82-1	46.442	589.67	0.8000	190.15	589.67	2	298.15	26.43
15448	C8H18O	4-methyl-3-heptanol	14979-39-6	46.608	578.89	0.8000	150.15	578.89	2	298.15	26.12
15449	C8H18O	5-methyl-3-heptanol	18720-65-5	46.594	576.46	0.8000	181.95	576.46	2	298.15	26.02
15450	C8H18O	6-methyl-3-heptanol	18720-66-6	46.642	584.90	0.8000	210.24	584.90	2	298.15	26.37
15451	C8H18O	2-methyl-4-heptanol	21570-35-4	46.689	593.34	0.8000	192.15	593.34	2	298.15	26.71
15452	C8H18O	3-methyl-4-heptanol	1838-73-9	46.679	591.45	0.8000	210.24	591.45	2	298.15	26.63
15453	C8H18O	4-methyl-4-heptanol	598-01-6	46.443	589.80	0.8000	191.15	589.80	2	298.15	26.44
15454	C8H18O	2-ethyl-1-hexanol	104-76-7	45.654	640.25	0.8000	203.15	640.25	2	298.15	27.65
15455	C8H18O	3-ethyl-1-hexanol	41065-95-6	46.977	608.64	0.8000	225.24	608.64	2	298.15	27.42
15456	C8H18O	4-ethyl-1-hexanol	---	46.977	608.64	0.8000	225.24	608.64	2	298.15	27.42
15457	C8H18O	2,2-dimethyl-1-hexanol	2370-13-0	46.536	605.29	0.8000	221.15	605.29	2	298.15	27.05
15458	C8H18O	2,3-dimethyl-1-hexanol	---	46.745	603.81	0.8000	210.24	603.81	2	298.15	27.11
15459	C8H18O	2,4-dimethyl-1-hexanol	3965-59-1	46.752	605.36	0.8000	210.24	605.36	2	298.15	27.17
15460	C8H18O	2,5-dimethyl-1-hexanol	6886-16-4	46.779	610.77	0.8000	210.24	610.77	2	298.15	27.38
15461	C8H18O	3,3-dimethyl-1-hexanol	10524-70-6	46.599	616.63	0.8000	242.66	616.63	2	298.15	27.47
15462	C8H18O	3,4-dimethyl-1-hexanol	---	46.791	613.27	0.8000	210.24	613.27	2	298.15	27.47
15463	C8H18O	3,5-dimethyl-1-hexanol	13501-73-0	46.805	616.17	0.8000	210.24	616.17	2	298.15	27.57
15464	C8H18O	4,4-dimethyl-1-hexanol	6481-95-4	46.606	617.99	0.8000	242.66	617.99	2	298.15	27.52
15465	C8H18O	4,5-dimethyl-1-hexanol	---	46.797	614.62	0.8000	210.24	614.62	2	298.15	27.52

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
15466	C8H18O	5,5-dimethyl-1-hexanol	2768-18-5	46.606	617.99	0.8000	242.66	617.99	2	298.15	27.52
15467	C8H18O	3-ethyl-2-hexanol	24448-19-9	46.703	595.91	0.8000	210.24	595.91	2	298.15	26.81
15468	C8H18O	4-ethyl-2-hexanol	---	46.702	595.71	0.8000	210.24	595.71	2	298.15	26.80
15469	C8H18O	2,3-dimethyl-2-hexanol	19550-03-9	46.218	591.82	0.8000	227.66	591.82	2	298.15	26.38
15470	C8H18O	2,4-dimethyl-2-hexanol	42328-76-7	46.125	578.98	0.8000	227.66	578.98	2	298.15	25.86
15471	C8H18O	2,5-dimethyl-2-hexanol	3730-60-7	46.143	581.44	0.8000	227.66	581.44	2	298.15	25.96
15472	C8H18O	3,3-dimethyl-2-hexanol	22025-20-3	46.215	591.48	0.8000	227.66	591.48	2	298.15	26.37
15473	C8H18O	3,4-dimethyl-2-hexanol	19550-05-1	46.522	603.29	0.8000	195.24	603.29	2	298.15	26.97
15474	C8H18O	3,5-dimethyl-2-hexanol	66576-27-0	46.430	588.35	0.8000	195.24	588.35	2	298.15	26.38
15475	C8H18O	4,4-dimethyl-2-hexanol	---	46.234	594.21	0.8000	227.66	594.21	2	298.15	26.48
15476	C8H18O	4,5-dimethyl-2-hexanol	---	46.446	590.87	0.8000	195.24	590.87	2	298.15	26.48
15477	C8H18O	5,5-dimethyl-2-hexanol	31841-77-7	46.273	599.88	0.8000	227.66	599.88	2	298.15	26.70
15478	C8H18O	3-ethyl-3-hexanol	597-76-2	46.425	586.95	0.8000	242.66	586.95	2	298.15	26.32
15479	C8H18O	4-ethyl-3-hexanol	19780-44-0	46.674	590.50	0.8000	210.24	590.50	2	298.15	26.60
15480	C8H18O	2,2-dimethyl-3-hexanol	4209-90-9	46.179	586.35	0.8000	227.66	586.35	2	298.15	26.16
15481	C8H18O	2,3-dimethyl-3-hexanol	4166-46-5	46.199	589.22	0.8000	227.66	589.22	2	298.15	26.28
15482	C8H18O	2,4-dimethyl-3-hexanol	13432-25-2	46.430	588.35	0.8000	195.24	588.35	2	298.15	26.38
15483	C8H18O	2,5-dimethyl-3-hexanol	19550-07-3	46.422	587.00	0.8000	195.24	587.00	2	298.15	26.32
15484	C8H18O	3,4-dimethyl-3-hexanol	19550-08-4	46.138	580.75	0.8000	227.66	580.75	2	298.15	25.93
15485	C8H18O	3,5-dimethyl-3-hexanol	4209-91-0	46.138	580.75	0.8000	227.66	580.75	2	298.15	25.93
15486	C8H18O	4,4-dimethyl-3-hexanol	19550-09-5	46.207	590.31	0.8000	227.66	590.31	2	298.15	26.32
15487	C8H18O	4,5-dimethyl-3-hexanol	---	46.394	582.72	0.8000	195.24	582.72	2	298.15	26.15
15488	C8H18O	5,5-dimethyl-3-hexanol	66576-31-6	46.148	582.12	0.8000	227.66	582.12	2	298.15	25.99
15489	C8H18O	2-propyl-1-pentanol	58175-57-8	46.972	607.50	0.8000	225.24	607.50	2	298.15	27.38
15490	C8H18O	2-isopropyl-1-pentanol	---	46.901	639.93	0.8000	210.24	639.93	2	298.15	28.40
15491	C8H18O	2-methyl-2-ethyl-1-pentanol	5970-63-8	46.571	611.53	0.8000	242.66	611.53	2	298.15	27.28
15492	C8H18O	3-methyl-2-ethyl-1-pentanol	---	46.765	607.86	0.8000	210.24	607.86	2	298.15	27.27
15493	C8H18O	4-methyl-2-ethyl-1-pentanol	106-67-2	46.763	607.39	0.8000	210.24	607.39	2	298.15	27.25
15494	C8H18O	2-methyl-3-ethyl-1-pentanol	---	46.751	605.16	0.8000	210.24	605.16	2	298.15	27.17
15495	C8H18O	3-methyl-3-ethyl-1-pentanol	---	46.554	608.48	0.8000	242.66	608.48	2	298.15	27.17
15496	C8H18O	4-methyl-3-ethyl-1-pentanol	---	46.751	605.16	0.8000	210.24	605.16	2	298.15	27.17
15497	C8H18O	2,2,3-trimethyl-1-pentanol	57409-53-7	46.349	611.49	0.8000	227.66	611.49	2	298.15	27.15
15498	C8H18O	2,2,4-trimethyl-1-pentanol	123-44-4	46.294	603.02	0.8000	203.15	603.02	2	298.15	26.83
15499	C8H18O	2,3,3-trimethyl-1-pentanol	57409-53-7	46.360	613.33	0.8000	227.66	613.33	2	298.15	27.22
15500	C8H18O	2,3,4-trimethyl-1-pentanol	6570-88-3	46.611	619.59	0.8000	195.24	619.59	2	298.15	27.57
15501	C8H18O	2,4,4-trimethyl-1-pentanol	16325-63-6	46.318	606.71	0.8000	227.66	606.71	2	298.15	26.97
15502	C8H18O	3,3,4-trimethyl-1-pentanol	---	46.317	606.50	0.8000	227.66	606.50	2	298.15	26.96
15503	C8H18O	3,4,4-trimethyl-1-pentanol	16325-64-7	46.317	606.50	0.8000	227.66	606.50	2	298.15	26.96
15504	C8H18O	2-methyl-3-ethyl-2-pentanol	19780-63-3	46.196	588.68	0.8000	227.66	588.68	2	298.15	26.26
15505	C8H18O	3-methyl-3-ethyl-2-pentanol	66576-22-5	46.215	591.48	0.8000	227.66	591.48	2	298.15	26.37
15506	C8H18O	4-methyl-3-ethyl-2-pentanol	66576-23-6	46.464	593.79	0.8000	195.24	593.79	2	298.15	26.60
15507	C8H18O	2,3,3-trimethyl-2-pentanol	23171-85-9	45.778	598.76	0.8000	272.65	598.76	2	298.15	26.38
15508	C8H18O	2,3,4-trimethyl-2-pentanol	66576-26-9	45.976	592.43	0.8000	212.66	592.43	2	298.15	26.27
15509	C8H18O	2,4,4-trimethyl-2-pentanol	690-37-9	45.615	579.96	0.8000	253.15	579.96	2	298.15	25.61
15510	C8H18O	3,3,4-trimethyl-2-pentanol	19411-41-7	46.049	602.05	0.8000	212.66	602.05	2	298.15	26.65
15511	C8H18O	3,4,4-trimethyl-2-pentanol	10575-56-1	45.976	592.43	0.8000	300.15	592.43	2	300.15	26.13
15512	C8H18O	2-methyl-3-ethyl-3-pentanol	597-05-7	46.217	591.68	0.8000	227.66	591.68	2	298.15	26.38
15513	C8H18O	2,2,3-trimethyl-3-pentanol	7294-05-5	45.683	587.70	0.8000	267.15	587.70	2	298.15	25.93
15514	C8H18O	2,2,4-trimethyl-3-pentanol	5162-48-1	45.900	582.81	0.8000	261.85	582.81	2	298.15	25.87
15515	C8H18O	2,3,4-trimethyl-3-pentanol	3054-92-0	45.965	591.06	0.8000	212.66	591.06	2	298.15	26.21
15516	C8H18O	3-methyl-2-isopropyl-1-butanol	18593-92-5	46.537	606.01	0.8000	195.24	606.01	2	298.15	27.07
15517	C8H18O	2,2-diethyl-1-butanol	13023-60-4	46.539	605.76	0.8000	242.66	605.76	2	298.15	27.06
15518	C8H18O	2,3-dimethyl-2-ethyl-1-butanol	---	46.334	609.23	0.8000	227.66	609.23	2	298.15	27.06
15519	C8H18O	3,3-dimethyl-2-ethyl-1-butanol	66576-56-5	46.334	609.23	0.8000	227.66	609.23	2	298.15	27.06
15520	C8H18O	2,2,3,3-tetramethyl-1-butanol	66576-24-7	45.919	616.52	0.8000	423.15	616.52	2	423.15	18.16
15521	C8H18O	3,5-dimethyl-3-hexanol, (±)	19113-78-1	44.872	600.92	0.8000	216.48	600.92	2	298.15	25.93
15522	C8H18O	2-methyl-1-heptanol, (±)	111675-77-5	47.076	600.92	0.8000	161.15	600.92	2	298.15	27.20
15523	C8H18O	5-methyl-1-heptanol, (±)	111767-95-4	48.017	600.92	0.8000	169.15	600.92	2	298.15	27.75
15524	C8H18O	2-methyl-3-heptanol, (±)	100296-26-2	46.348	600.92	0.8000	188.15	600.92	2	298.15	26.78
15525	C8H18O	6-methyl-3-heptanol, (±)	100295-85-0	46.485	600.92	0.8000	212.15	600.92	2	298.15	26.86
15526	C8H18O	3-methyl-4-heptanol, (R*,S*)-(±)	92737-91-2	45.837	600.92	0.8000	216.48	600.92	2	298.15	26.49
15527	C8H18O	dibutyl ether	142-96-1	51.566	581.00	1.1560	177.95	581.00	1,2	298.15	22.44
15528	C8H18O	di-sec-butyl ether	6863-58-7	54.377	559.00	1.2222	173.15	559.00	2	298.15	21.42
15529	C8H18O	di-tert-butyl ether	6163-66-2	53.499	550.00	1.2222	195.00	550.00	2	298.15	20.59
15530	C8H18O	butyl isobutyl ether	17071-47-5	57.914	563.33	1.2222	182.03	563.33	2	298.15	23.06
15531	C8H18O	tert-butyl isobutyl ether	33021-02-2	59.866	563.33	1.2222	182.03	563.33	2	298.15	23.84
15532	C8H18O	di-sec-butyl ether, (±)	17226-28-7	53.718	563.33	1.2222	182.03	563.33	2	298.15	21.39
15533	C8H18O	ethyl hexyl ether	5756-43-4	56.868	563.33	1.2222	182.03	563.33	2	298.15	22.64
15534	C8H18O	1-methoxyheptane	629-32-3	57.914	563.33	1.2222	182.03	563.33	2	298.15	23.06
15535	C8H18O	isooctanol	26952-21-6	47.967	600.92	0.8000	156.05	600.92	2	298.15	27.72
15536	C8H18O	(R)-(-)-2-octanol	5978-70-1	47.089	600.92	0.8000	216.48	600.92	2	298.15	27.21
15537	C8H18O	(S)-(+)-2-octanol	6169-06-8	47.277	600.92	0.8000	216.48	600.92	2	298.15	27.32
15538	C8H18O	octyl alcohol; mixed isomers	29063-28-3	48.701	600.92	0.8000	257.25	600.92	2	298.15	28.14
15539	C8H18O	isobutyl ether	628-55-7	54.039	563.33	1.2222	182.03	563.33	2	298.15	21.52
15544	C8H18O2	1,2-octanediol	1117-86-8	102.044	672.79	1.2222	303.15	672.79	2	303.15	49.08
15545	C8H18O2	1,3-octanediol	23433-05-8	101.247	686.88	1.2222	286.06	686.88	2	298.15	50.49
15546	C8H18O2	1,4-octanediol	51916-47-3	99.839	713.79	1.2222	286.06	713.79	2	298.15	51.55
15547	C8H18O2	1,8-octanediol	629-41-4	101.016	694.71	1.2222	333.15	694.71	2	333.15	45.47
15548	C8H18O2	2,4-octanediol	90162-24-6	93.406	692.04	1.2222	310.71	692.04	2	310.71	45.08
15549	C8H18O2	4,5-octanediol, (±)	22520-40-7	93.406	692.04	1.2222	303.15	692.04	2	303.15	46.18

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
15550	C8H18O2	3-methyl-2,4-heptanediol	6964-04-1	93.406	692.04	1.2222	310.71	692.04	2	310.71	45.08
15551	C8H18O2	2-ethyl-1,3-hexanediol	94-96-2	98.438	692.04	1.2222	233.15	692.04	2	298.15	49.43
15552	C8H18O2	2,5-dimethyl-2,5-hexanediol	110-03-2	94.663	692.04	1.2222	361.65	692.04	2	361.65	38.35
15553	C8H18O2	2,2,4-trimethyl-1,4-pentanediol	80864-10-4	94.113	692.04	1.2222	359.15	692.04	2	359.15	38.48
15554	C8H18O2	2,2,4-trimethyl-1,3-pentanediol	144-19-4	97.367	692.04	1.2222	324.65	692.04	2	324.65	44.91
15555	C8H18O2	2-butyl-2-methyl-1,3-propanediol	3121-83-3	100.438	692.04	1.2222	316.95	692.04	2	316.95	47.51
15556	C8H18O2	di-t-butyl peroxide	110-05-4	51.658	547.00	1.2222	233.15	547.00	2	298.15	19.73
15558	C8H18O2	ethylene glycol monohexyl ether	112-25-4	56.102	636.00	1.2222	228.05	636.00	2	298.15	25.89
15561	C8H18O2	(3R,6R)-3,6-octanediol	129619-37-0	93.406	692.04	1.2222	310.71	692.04	2	310.71	45.08
15562	C8H18O2	(3S,6S)-3,6-octanediol	136705-66-3	93.406	692.04	1.2222	310.71	692.04	2	310.71	45.08
15567	C8H18O2	2-(2-ethylbutoxy)ethanol	4468-93-3	56.376	636.00	1.2222	228.05	636.00	2	298.15	26.02
15568	C8H18O2	ethylene glycol mono-2-methylpentyl ether	10137-96-9	57.120	636.00	1.2222	228.05	636.00	2	298.15	26.36
15570	C8H18O2S	diisobutyl sulfone	10495-45-1	59.057	767.00	1.2222	290.15	767.00	2	298.15	32.36
15571	C8H18O2S	dibutyl sulfone	598-04-9	72.064	767.00	1.2222	318.00	767.00	2	318.00	37.45
15572	C8H18O2S	di-tert-butylsulfone	1886-75-5	51.956	767.00	1.2222	403.05	767.00	2	403.05	20.89
15578	C8H18O3	diethylene glycol diethyl ether	112-36-7	70.276	624.00	1.4850	228.85	624.00	1,2	298.15	26.78
15579	C8H18O3	diethylene glycol monobutyl ether	112-34-5	85.956	654.00	1.2222	205.15	654.00	2	298.15	40.85
15587.1	C8H18O3	dipropylene glycol monoethyl ether	30025-38-8	64.414	617.00	1.2222	204.00	617.00	2	298.15	28.75
15588	C8H18O3S	dibutyl sulfite	626-85-7	54.940	714.47	1.2222	273.15	535.85	1,2	298.15	28.39
15589	C8H18O3S	diisobutyl sulfite	18748-27-1	53.558	686.07	1.2222	273.15	514.55	1,2	298.15	26.68
15591	C8H18O4	triethylene glycol dimethyl ether	112-49-2	68.242	651.00	1.2222	229.35	651.00	2	298.15	32.28
15595	C8H18O4S	dibutyl sulfate	625-22-9	58.150	745.50	1.2222	193.45	559.13	1,2	298.15	31.15
15596	C8H18O4S	2-ethylhexyl sulfate	72214-01-8	58.858	750.85	1.2222	193.45	563.14	2	298.15	31.71
15598	C8H18O5	tetraethylene glycol	112-60-7	112.918	722.00	1.2222	268.15	722.00	2	298.15	58.89
15602	C8H18S	octyl mercaptan	111-88-6	57.540	664.00	1.2222	223.95	664.00	1,2	298.15	27.77
15603	C8H18S	2-octanethiol	3001-66-9	58.672	653.00	1.2222	194.15	653.00	2	298.15	27.84
15604	C8H18S	tert-octyl mercaptan	141-59-3	58.567	627.00	1.2222	199.00	627.00	2	298.15	26.61
15605	C8H18S	2-octanethiol, (±)	10435-81-1	59.140	648.00	1.2222	194.15	648.00	2	298.15	27.84
15606	C8H18S	dibutyl sulfide	544-40-1	57.655	650.00	1.2222	198.13	650.00	1,2	298.15	27.23
15607	C8H18S	methyl heptyl sulfide	20291-61-6	54.971	660.72	1.2222	209.86	660.72	2	298.15	26.40
15608	C8H18S	ethyl hexyl sulfide	7309-44-6	54.896	660.72	1.2222	209.86	660.72	2	298.15	26.36
15609	C8H18S	propyl pentyl sulfide	42841-80-5	54.896	660.72	1.2222	209.86	660.72	2	298.15	26.36
15610	C8H18S	di-sec-butyl sulfide	626-26-6	53.965	658.04	1.2222	209.92	658.04	1,2	298.15	25.81
15611	C8H18S	di-tert-butyl sulfide	107-47-1	53.470	658.04	1.2222	264.15	658.04	2	298.15	25.57
15612	C8H18S	diisobutyl sulfide	592-65-4	52.083	658.04	1.2222	167.65	658.04	1,2	298.15	24.91
15614	C8H18S2	dibutyl disulfide	629-45-8	59.881	704.16	1.2222	202.16	704.16	1,2	298.15	30.55
15615	C8H18S2	di-tert-butyl disulfide	110-06-5	53.922	704.16	1.2222	270.65	704.16	1,2	298.15	27.51
15617	C8H18S2	disulfide, bis(2-methylpropyl)	1518-72-5	58.658	704.16	1.2222	236.41	704.16	2	298.15	29.93
15618	C8H18S2	disulfide, bis(1-methylpropyl)	5943-30-6	58.247	704.16	1.2222	236.41	704.16	2	298.15	29.72
15631	C8H19N	octylamine	111-86-4	61.573	627.00	1.2222	272.75	627.00	2	298.15	27.98
15632	C8H19N	2-ethylhexylamine	104-75-6	63.346	601.45	1.2222	284.58	601.45	2	298.15	27.44
15633	C8H19N	6-methyl-2-heptanamine, (±)	5984-58-7	61.525	601.45	1.2222	322.04	601.45	2	322.04	24.10
15634	C8H19N	2-octanamine, (±)	44855-57-4	62.694	601.45	1.2222	323.71	601.45	2	323.71	24.38
15635	C8H19N	methylheptylamine	36343-05-2	55.208	609.80	1.2222	207.15	609.80	2	298.15	24.31
15636	C8H19N	ethylhexylamine	20352-67-4	55.497	599.80	1.2222	207.15	599.80	2	298.15	23.96
15637	C8H19N	dibutylamine	111-92-2	55.910	607.50	1.2420	211.15	607.50	1,2	298.15	24.18
15638	C8H19N	diisobutylamine	110-96-3	53.582	580.00	1.2222	203.15	580.00	1,2	298.15	22.18
15639	C8H19N	di-sec-butylamine	626-23-3	52.412	601.45	1.2222	207.15	601.45	1,2	298.15	22.70
15640	C8H19N	N-methyl-2-heptanamine	540-43-2	54.961	601.45	1.2222	207.15	601.45	2	298.15	23.80
15641	C8H19N	dimethylhexylamine	4385-04-0	50.160	608.70	1.2222	200.00	608.70	2	298.15	22.04
15642	C8H19N	diethylbutylamine	4444-68-2	52.418	577.33	1.2222	200.00	577.33	2	298.15	21.57
15643	C8H19N	N-ethyl-N-isopropyl-2-propanamine	7087-68-5	48.612	601.45	1.2222	200.00	601.45	2	298.15	21.05
15644	C8H19N	N-ethyl-N-propyl-1-propanamine	20634-92-8	50.043	601.45	1.2222	200.00	601.45	2	298.15	21.67
15645	C8H19N	2-amino-6-methylheptane	543-82-8	61.525	601.45	1.2222	298.15	601.45	2	298.15	26.65
15646	C8H19N	(S)-2-amino-6-methylheptane	70419-10-2	61.525	601.45	1.2222	284.58	601.45	2	298.15	26.65
15647	C8H19N	(R)-2-amino-6-methylheptane	70419-11-3	61.525	601.45	1.2222	284.58	601.45	2	298.15	26.65
15648	C8H19N	(S)-2-aminooctane	34566-04-6	62.694	601.45	1.2222	284.58	601.45	2	298.15	27.15
15649	C8H19N	(R)-2-aminooctane	34566-05-7	62.694	601.45	1.2222	284.58	601.45	2	298.15	27.15
15650	C8H19N	2-aminooctane	693-16-3	62.821	601.45	1.2222	284.58	601.45	2	298.15	27.21
15651	C8H19N	N-isopropyl-N-methyl-tert-butylamine	85523-00-8	48.676	601.45	1.2222	200.00	601.45	2	298.15	21.08
15652	C8H19N	tert-octylamine	107-45-9	59.463	601.45	1.2222	206.25	601.45	2	298.15	25.75
15653	C8H19NO	N,N-diisopropylethanolamine	96-80-0	85.132	741.00	1.2222	270.00	741.00	2	298.15	45.38
15654	C8H19NO	2-(dipropylamino)ethanol	3238-75-3	83.964	741.00	1.2222	270.00	741.00	2	298.15	44.76
15655	C8H19NO	6-amino-2-methyl-2-heptanol	372-66-7	84.546	741.00	1.2222	270.00	741.00	2	298.15	45.07
15694	C8H20N2	2,5-dimethyl-2,5-hexanediamine	23578-35-0	67.561	715.00	1.2222	325.15	715.00	2	325.15	32.19
15695	C8H20N2	1,8-octanediamine	373-44-4	70.919	715.00	1.2222	325.15	715.00	2	325.15	33.79
15696	C8H20N2	N,N,N',N'-tetramethyl-1,4-butanediamine	111-51-3	66.033	715.00	1.2222	325.15	715.00	2	325.15	31.46
15697	C8H20N2	N,N'-diisopropylethylenediamine	4013-94-9	66.231	715.00	1.2222	325.15	715.00	2	325.15	31.56
15698	C8H20N2	N,N'-dimethyl-1,6-hexanediamine	13093-04-4	64.937	715.00	1.2222	325.15	715.00	2	325.15	30.94
15699	C8H20N2	N-hexylethylenediamine	7261-70-3	64.937	715.00	1.2222	325.15	715.00	2	325.15	30.94
15700	C8H20N2	N,N,N',N'-tetramethyl-1,3-butanediamine	97-84-7	65.687	715.00	1.2222	325.15	715.00	2	325.15	31.30
15701	C8H20N2	N,N,N'-triethylethylenediamine	105-04-4	51.656	715.00	1.2222	325.15	715.00	2	325.15	24.61
15703	C8H20N2	N,N-diisopropyl ethylenediamine	121-05-1	60.814	715.00	1.2222	325.15	715.00	2	325.15	28.98
15704	C8H20N2	N'-isopropyl-N,N'-dimethyl-1,3-propane-diamine	63905-13-5	64.937	715.00	1.2222	325.15	715.00	2	325.15	30.94
15729	C8H20Pb	tetraethyl lead	78-00-2	57.551	671.87	1.2222	139.41	503.90	1,2	298.15	28.10
15730	C8H20Si	tetraethylsilane	631-36-7	51.765	605.72	1.2222	190.65	454.29	1,2	298.15	22.61
15747	C8H23N5	tetraethylenepentamine	112-57-2	97.352	774.00	1.2222	243.00	774.00	2	298.15	53.72
15756	C8H24O4Si4	octamethylcyclotetrasiloxane	556-67-2	39.445	586.50	1.2222	290.25	586.50	2	298.15	16.56
15803	C9H4O5	trimellitic anhydride	552-30-7	128.991	890.00	1.2222	438.15	890.00	2	438.15	56.33
15903	C9H6N2O2	toluene diisocyanate	584-84-9	73.533	737.00	1.2222	287.04	737.00	2	298.15	39.02

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
16010	C9H7N	isoquinoline	119-65-3	75.198	803.15	1.2222	299.45	803.15	2	299.45	42.52
16011	C9H7N	quinoline	91-22-5	73.900	782.15	1.1510	258.25	782.15	1,2	298.15	42.53
16018	C9H7NO	8-hydroxyquinoline	148-24-3	93.855	788.00	1.2222	346.00	788.00	2	346.00	46.30
16090	C9H8	indene	95-13-6	41.266	687.00	1.3545	271.70	687.00	1,2	298.15	19.09
16246.1	C9H8S	2-methyl benzothiophene	1195-14-8	76.688	780.00	1.2222	324.65	780.00	2	324.65	39.72
16508	C9H10	indane	496-11-7	70.136	684.90	1.2222	221.77	684.90	2	298.15	34.88
16509	C9H10	cis-1-propenylbenzene	766-90-5	63.857	664.60	1.2222	211.47	664.60	2	298.15	30.85
16510	C9H10	trans-1-propenylbenzene	873-66-5	63.857	664.60	1.2222	243.82	664.60	2	298.15	30.85
16511	C9H10	2-propenylbenzene	300-57-2	66.829	640.92	1.2222	233.15	640.92	2	298.15	31.10
16512	C9H10	alpha-methylstyrene	98-83-9	68.506	654.00	1.2222	250.78	654.00	1,2	298.15	32.56
16513	C9H10	m-methylstyrene	100-80-1	66.044	657.00	1.2222	186.81	657.00	2	298.15	31.54
16514	C9H10	o-methylstyrene	611-15-4	65.909	659.00	1.2222	204.58	659.00	2	298.15	31.57
16515	C9H10	p-methylstyrene	622-97-9	65.202	665.00	1.2222	239.02	665.00	2	298.15	31.52
16516	C9H10	1-propenylbenzene	637-50-3	64.425	656.71	1.2222	246.05	656.71	2	298.15	30.75
16519	C9H10	methylstyrene	25013-15-4	65.946	658.75	1.2222	196.25	658.75	2	298.15	31.57
16520	C9H10	3(4)-methylstyrene, isomers	39294-88-7	65.927	658.75	1.2222	215.49	658.75	2	298.15	31.57
16538	C9H10Br2	2,4-dibromo-1,3,5-trimethylbenzene	6942-99-0	82.491	792.57	1.2222	338.65	594.43	2	338.65	41.74
16539	C9H10Cl2	2,4-dichloro-1,3,5-trimethylbenzene	57386-83-1	67.508	760.00	1.2222	332.15	760.00	2	332.15	33.45
16652	C9H10O2	2,4-dimethylbenzoic acid	611-01-8	77.253	768.43	1.2222	363.15	576.32	2	363.15	35.34
16653	C9H10O2	2,5-dimethylbenzoic acid	610-72-0	78.973	716.70	1.2222	405.15	537.52	2	405.15	28.53
16654	C9H10O2	2,6-dimethylbenzoic acid	632-46-2	77.032	777.66	1.2222	389.15	583.25	2	389.15	32.98
16655	C9H10O2	3,5-dimethylbenzoic acid	499-06-9	78.973	716.70	1.2222	444.25	537.52	2	444.25	24.21
16656	C9H10O2	2-ethylbenzoic acid	612-19-1	77.600	755.65	1.2222	341.15	566.74	2	341.15	37.25
16657	C9H10O2	3-ethylbenzoic acid	619-20-5	78.973	716.70	1.2222	320.15	537.52	2	320.15	38.31
16676	C9H10O2	ethyl benzoate	93-89-0	67.865	698.00	1.1940	238.45	698.00	1,2	298.15	34.89
16680	C9H10O2	benzyl acetate	140-11-4	69.945	699.00	1.2222	221.65	699.00	2	298.15	35.45
16691	C9H10O2	2,3-dimethylbenzoic acid	603-79-2	78.973	716.70	1.2222	418.15	537.52	2	418.15	27.08
16692	C9H10O2	3,4-dimethylbenzoic acid	619-04-5	78.973	716.70	1.2222	439.15	537.52	2	439.15	24.77
16693	C9H10O2	4-ethylbenzoic acid	619-64-7	78.973	716.70	1.2222	385.15	537.52	2	385.15	30.78
16707.1	C9H10O2	phenyl ethyl formate	7775-38-4	71.277	690.00	1.2417	238.00	690.00	2	298.15	35.30
16711	C9H10O3	ethyl vanillin	121-32-4	106.029	748.00	1.2222	350.65	748.00	2	350.65	48.94
16724	C9H10O3	ethyl salicylate	118-61-6	72.001	738.87	1.2222	318.15	554.15	1,2	318.15	36.18
16822	C9H11Br	1-bromo-4-isopropylbenzene	586-61-8	75.333	698.43	1.2222	250.65	523.82	2	298.15	38.15
16823	C9H11Br	1-(bromomethyl)-3,5-dimethylbenzene	27129-86-8	74.683	714.47	1.2222	313.15	535.85	2	313.15	36.90
16824	C9H11Br	(2-bromo-1-methylethyl)benzene	1459-00-3	77.252	655.54	1.2222	213.85	491.66	2	298.15	36.81
16825	C9H11Br	(1-bromopropyl)benzene, (±)	63790-14-7	75.268	700.00	1.2222	263.15	525.00	2	298.15	38.20
16826	C9H11Br	(2-bromopropyl)benzene	2114-39-8	75.268	700.00	1.2222	263.15	525.00	2	298.15	38.20
16827	C9H11Br	(3-bromopropyl)benzene	637-59-2	75.286	699.56	1.2222	263.15	524.67	2	298.15	38.18
16828	C9H11Br	1-bromo-2,3,5-trimethylbenzene	31053-99-3	74.240	725.83	1.2222	263.15	544.37	2	298.15	38.89
16829	C9H11Br	1-bromo-2,4,5-trimethylbenzene	5469-19-2	74.460	720.15	1.2222	346.15	540.11	2	346.15	33.43
16830	C9H11Br	2-bromo-1,3,5-trimethylbenzene	576-83-0	74.967	707.37	1.2222	272.15	530.53	2	298.15	38.40
16831	C9H11Br	1-bromo-2-(1-methylethyl)benzene	7073-94-1	75.838	686.50	1.2222	214.35	514.87	2	298.15	37.80
16832	C9H11Br	1-bromo-4-propylbenzene	588-93-2	74.967	707.37	1.2222	231.75	530.53	2	298.15	38.40
16833	C9H11Br	1-bromo-3-(1-methylethyl)benzene	5433-01-2	75.914	684.72	1.2222	263.15	513.54	2	298.15	37.75
16843	C9H11Cl	1-chloro-2-isopropylbenzene	2077-13-6	72.762	659.24	1.2222	198.75	494.43	2	298.15	34.86
16844	C9H11Cl	1-chloro-4-isopropylbenzene	2621-46-7	72.310	669.46	1.2222	260.85	502.09	2	298.15	35.18
16845	C9H11Cl	1-(chloromethyl)-2,4-dimethylbenzene	824-55-5	71.298	693.88	1.2222	229.80	520.41	2	298.15	35.89
16846	C9H11Cl	(1-chloro-1-methylethyl)benzene	934-53-2	71.681	684.39	1.2222	229.80	513.29	2	298.15	35.62
16847	C9H11Cl	(2-chloro-1-methylethyl)benzene	824-47-5	71.681	684.39	1.2222	229.80	513.29	2	298.15	35.62
16848	C9H11Cl	1-(chloromethyl)-4-ethylbenzene	1467-05-6	71.681	684.39	1.2222	229.80	513.29	2	298.15	35.62
16849	C9H11Cl	(2-chloropropyl)benzene, (R)	55449-46-2	71.681	684.39	1.2222	229.80	513.29	2	298.15	35.62
16850	C9H11Cl	(3-chloropropyl)benzene	104-52-9	71.075	699.56	1.2222	229.80	524.67	2	298.15	36.05
16851	C9H11Cl	2-chloro-1,3,5-trimethylbenzene	1667-04-5	71.906	678.97	1.2222	229.80	509.23	2	298.15	35.47
16852	C9H11Cl	3,4-dimethylbenzyl chloride	102-46-5	71.681	684.39	1.2222	229.80	513.29	2	298.15	35.62
16853	C9H11Cl	2,5-dimethylbenzyl chloride	824-45-3	70.855	705.24	1.2222	229.80	528.93	2	298.15	36.20
16905	C9H11NO	p-dimethylaminobenzaldehyde	100-10-7	75.960	832.00	1.2222	348.00	832.00	2	348.00	39.18
17004	C9H12	cumene	98-82-8	63.800	631.15	1.3056	177.14	631.15	1,2	298.15	27.69
17005	C9H12	m-ethyltoluene	620-14-4	67.358	637.15	1.3610	177.61	637.15	1,2	298.15	28.54
17006	C9H12	o-ethyltoluene	611-14-3	65.340	651.15	1.2899	192.35	651.15	1,2	298.15	29.66
17007	C9H12	p-ethyltoluene	622-96-8	65.730	640.15	1.3441	210.83	640.15	1,2	298.15	28.30
17008	C9H12	1,2,3-trimethylbenzene	526-73-8	65.040	664.53	1.2583	247.79	664.53	1,2	298.15	30.75
17009	C9H12	1,2,4-trimethylbenzene	95-63-6	63.374	649.13	1.2605	229.33	649.13	1,2	298.15	29.19
17010	C9H12	trimethyl benzene	25551-13-7	61.570	643.63	1.2222	204.65	643.63	2	298.15	28.78
17011	C9H12	mesitylene	108-67-8	59.519	637.36	1.2240	228.46	637.36	1,2	298.15	27.50
17012	C9H12	propylbenzene	103-65-1	63.487	638.38	1.2764	173.67	638.38	1,2	298.15	28.43
17014	C9H12	1,4-nonadiyne	6088-94-4	62.760	622.17	1.2222	261.65	466.63	2	298.15	28.27
17015	C9H12	1,8-nonadiyne	2396-65-8	62.956	617.91	1.2222	245.85	463.43	2	298.15	28.14
17016	C9H12	2,7-nonadiyne	31699-35-1	61.842	643.47	1.2222	277.45	482.60	2	298.15	28.90
17077	C9H12O	benzyl ethyl ether	539-30-0	65.589	662.00	1.2222	275.65	662.00	2	298.15	31.56
17090	C9H12O	2-phenyl-2-propanol	617-94-7	86.351	660.00	1.2222	309.15	660.00	2	309.15	39.89
17101	C9H12O	2-propylphenol	644-35-9	66.628	716.37	1.2222	280.15	716.37	2	298.15	34.51
17102	C9H12O	3-propylphenol	621-27-2	64.957	730.33	1.2222	299.15	730.33	2	299.15	34.11
17103	C9H12O	4-propylphenol	645-56-7	64.208	736.87	1.2222	295.15	736.87	2	298.15	34.07
17104	C9H12O	2-isopropylphenol	88-69-7	67.061	714.75	1.2222	288.65	714.75	2	298.15	34.67
17105	C9H12O	3-isopropylphenol	618-45-1	64.704	734.54	1.2222	299.15	734.54	2	299.15	34.14
17106	C9H12O	4-isopropylphenol	99-89-8	64.504	736.30	1.2222	335.15	736.30	2	335.15	30.71
17107	C9H12O	2-methyl-3-ethylphenol	1123-73-5	65.373	726.44	1.2222	344.15	726.44	2	344.15	29.83
17108	C9H12O	2-methyl-4-ethylphenol	2219-73-0	65.270	727.31	1.2222	315.11	727.31	2	315.11	32.61
17109	C9H12O	2-methyl-5-ethylphenol	1687-65-6	65.253	727.45	1.2222	288.15	727.45	2	298.15	34.25
17110	C9H12O	2-methyl-6-ethylphenol	1687-64-5	67.694	707.55	1.2222	315.11	707.55	2	315.11	32.94

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
17111	C9H12O	3-methyl-4-ethylphenol	1123-94-0	64.863	730.79	1.2222	299.15	730.79	2	299.15	34.08
17112	C9H12O	3-methyl-5-ethylphenol	698-71-5	63.871	739.51	1.2222	328.15	739.51	2	328.15	31.19
17113	C9H12O	3-methyl-6-ethylphenol	1687-61-2	65.857	722.37	1.2222	315.85	722.37	2	315.85	32.62
17114	C9H12O	4-methyl-2-ethylphenol	3855-26-3	66.172	719.75	1.2222	298.85	719.75	2	298.85	34.35
17115	C9H12O	4-methyl-3-ethylphenol	6161-67-7	63.871	739.51	1.2222	306.15	739.51	2	306.15	33.24
17116	C9H12O	2,3,4-trimethylphenol	526-85-2	63.780	739.96	1.2222	354.15	739.96	2	354.15	28.77
17117	C9H12O	2,3,5-trimethylphenol	697-82-5	64.040	737.64	1.2222	368.15	737.64	2	368.15	27.51
17118	C9H12O	2,3,6-trimethylphenol	2416-94-6	63.804	739.74	1.2222	335.15	739.74	2	335.15	30.52
17119	C9H12O	2,4,5-trimethylphenol	496-78-6	64.040	737.64	1.2222	345.15	737.64	2	345.15	29.62
17120	C9H12O	2,4,6-trimethylphenol	527-60-6	66.534	716.46	1.2222	345.15	716.46	2	345.15	29.80
17121	C9H12O	3,4,5-trimethylphenol	527-54-8	61.484	761.43	1.2222	381.15	761.43	2	381.15	26.32
17138	C9H12O2	cumene hydroperoxide	80-15-9	86.041	605.00	1.2222	264.26	605.00	2	298.15	37.53
17213	C9H12S	propyl phenyl sulfide	874-79-3	67.968	720.19	1.2222	228.15	720.19	1,2	298.15	35.37
17214	C9H12S	isopropyl phenyl sulfide	3019-20-3	65.249	708.21	1.2222	124.44	708.21	1,2	298.15	33.46
17215	C9H12S	3-methyl-(1-thiapropyl)-benzene	34786-24-8	66.168	717.74	1.2222	123.07	717.74	2	298.15	34.33
17216	C9H12S	4-methyl-(1-thiapropyl)-benzene	622-63-9	65.748	719.20	1.2222	123.07	719.20	2	298.15	34.17
17217	C9H12S	2-ethyl-(1-thiaethyl)-benzene	20760-06-9	62.506	730.87	1.2222	123.07	730.87	2	298.15	32.94
17218	C9H12S	3-ethyl-(1-thiaethyl)-benzene	---	60.726	737.59	1.2222	123.07	737.59	2	298.15	32.25
17219	C9H12S	4-ethyl-(1-thiaethyl)-benzene	---	60.726	737.59	1.2222	123.07	737.59	2	298.15	32.25
17220	C9H12S	2,3-dimethyl-(1-thiaethyl)-benzene	---	58.939	743.84	1.2222	106.70	743.84	2	298.15	31.52
17221	C9H12S	2,4-dimethyl-(1-thiaethyl)-benzene	---	58.939	743.84	1.2222	106.70	743.84	2	298.15	31.52
17222	C9H12S	2,5-dimethyl-(1-thiaethyl)-benzene	---	58.939	743.84	1.2222	106.70	743.84	2	298.15	31.52
17223	C9H12S	2,6-dimethyl-(1-thiaethyl)-benzene	---	58.939	743.84	1.2222	106.70	743.84	2	298.15	31.52
17224	C9H12S	3,4-dimethyl-(1-thiaethyl)-benzene	---	58.939	743.84	1.2222	106.70	743.84	2	298.15	31.52
17225	C9H12S	3,5-dimethyl-(1-thiaethyl)-benzene	---	58.939	743.84	1.2222	106.70	743.84	2	298.15	31.52
17226	C9H12S	benzenepropanethiol	24734-68-7	74.283	740.00	1.2222	252.70	740.00	2	298.15	39.55
17227	C9H12S	2-isopropylbenzenethiol	6262-87-9	73.986	740.00	1.2222	252.70	740.00	2	298.15	39.39
17228	C9H12S	[(ethylthio)methyl]benzene	6263-62-3	74.283	740.00	1.2222	252.70	740.00	2	298.15	39.55
17251	C9H13N	benzylethylamine	14321-27-8	82.315	663.35	1.2222	283.15	497.51	2	298.15	39.69
17252	C9H13N	alpha,alpha-dimethylbenzenemethanamine	585-32-0	82.214	666.90	1.2222	283.15	500.18	2	298.15	39.85
17253	C9H13N	N,N-dimethylbenzylamine	103-83-3	82.852	644.89	1.2222	283.15	483.67	2	298.15	38.81
17254	C9H13N	alpha-ethylbenzenemethanamine	2941-20-0	81.841	680.39	1.2222	283.15	510.29	2	298.15	40.45
17255	C9H13N	4-methylbenzeneethanamine	3261-62-9	81.535	691.75	1.2222	283.15	518.81	2	298.15	40.93
17256	C9H13N	beta-methylbenzeneethanamine	582-22-9	81.687	686.07	1.2222	283.15	514.55	2	298.15	40.69
17257	C9H13N	N-methylbenzeneethanamine	589-08-2	81.841	680.39	1.2222	283.15	510.29	2	298.15	40.45
17258	C9H13N	2-butylpyridine	5058-19-5	63.428	673.00	1.2222	370.15	673.00	1,2	370.15	23.90
17259	C9H13N	2-tert-butylpyridine	5944-41-2	68.136	673.00	1.2222	240.15	673.00	2	298.15	33.32
17260	C9H13N	3-tert-butylpyridine	38031-78-6	66.597	673.00	1.2222	229.15	673.00	2	298.15	32.57
17261	C9H13N	4-butylpyridine	5335-75-1	66.188	673.00	1.2222	304.48	673.00	1,2	304.48	31.70
17262	C9H13N	4-tert-butylpyridine	3978-81-2	68.662	673.00	1.2222	232.15	673.00	1,2	298.15	33.58
17263	C9H13N	2,4-diethylpyridine	626-21-1	67.047	673.00	1.2222	385.15	673.00	2	385.15	23.74
17264	C9H13N	2-ethyl-3,5-dimethylpyridine	1123-96-2	66.401	673.00	1.2222	304.48	673.00	2	304.48	31.80
17265	C9H13N	3-ethyl-2,6-dimethylpyridine	23580-52-1	67.016	673.00	1.2222	304.48	673.00	2	304.48	32.10
17266	C9H13N	4-ethyl-2,6-dimethylpyridine	36917-36-9	67.047	673.00	1.2222	370.15	673.00	2	370.15	25.27
17267	C9H13N	2,3,4,6-tetramethylpyridine	20820-82-0	66.096	673.00	1.2222	304.48	673.00	2	304.48	31.66
17268	C9H13N	2-ethyl-6-methylaniline	24549-06-2	68.761	705.58	1.2222	240.15	705.58	2	298.15	35.14
17269	C9H13N	N-ethyl-2-methylaniline	94-68-8	71.178	705.58	1.2222	266.28	705.58	2	298.15	36.38
17270	C9H13N	N-ethyl-3-methylaniline	102-27-2	70.363	705.58	1.2222	266.28	705.58	2	298.15	35.96
17271	C9H13N	N-ethyl-4-methylaniline	622-57-1	71.014	705.58	1.2222	266.28	705.58	2	298.15	36.30
17272	C9H13N	N-ethyl-N-methylaniline	613-97-8	73.172	705.58	1.2222	266.28	705.58	2	298.15	37.40
17273	C9H13N	2-isopropylaniline	643-28-7	70.363	705.58	1.2222	266.28	705.58	2	298.15	35.96
17274	C9H13N	4-isopropylaniline	99-88-7	69.718	705.58	1.2222	266.28	705.58	2	298.15	35.63
17275	C9H13N	N-isopropylaniline	768-52-5	73.341	705.58	1.2222	266.28	705.58	2	298.15	37.48
17276	C9H13N	2-methyl-N,N-dimethylaniline	609-72-3	74.859	705.58	1.2222	213.15	705.58	2	298.15	38.26
17277	C9H13N	3-methyl-N,N-dimethylaniline	121-72-2	71.836	705.58	1.2222	266.28	705.58	2	298.15	36.72
17278	C9H13N	4-methyl-N,N-dimethylaniline	99-97-8	72.002	705.58	1.2222	266.28	705.58	2	298.15	36.80
17279	C9H13N	2-propylaniline	1821-39-2	69.558	705.58	1.2222	266.28	705.58	2	298.15	35.55
17280	C9H13N	N-propylaniline	622-80-0	68.069	705.58	1.2222	266.28	705.58	1,2	298.15	34.79
17281	C9H13N	2,4,5-trimethylaniline	137-17-7	68.209	705.58	1.2222	341.15	705.58	2	341.15	30.42
17282	C9H13N	2,4,6-trimethylaniline	88-05-1	68.524	705.58	1.2222	270.65	705.58	2	298.15	35.02
17283	C9H13N	3-butylpyridine	539-32-2	65.227	673.00	1.2222	304.48	673.00	1,2	304.48	31.24
17284	C9H13N	dextroamphetamine	51-64-9	81.938	676.84	1.2222	298.15	507.63	2	298.15	40.29
17285	C9H13N	(S)-(-)-N,a-dimethylbenzylamine	19131-99-8	81.811	681.51	1.2222	283.15	511.13	2	298.15	40.50
17286	C9H13N	(S)-(-)-a,4-dimethylbenzylamine	27298-98-2	81.880	678.97	1.2222	283.15	509.23	2	298.15	40.39
17287	C9H13N	(R)-(+)-a,4-dimethylbenzylamine	4187-38-6	81.880	678.97	1.2222	283.15	509.23	2	298.15	40.39
17288	C9H13N	(R)-(+)-N,a-dimethylbenzylamine	5933-40-4	81.811	681.51	1.2222	283.15	511.13	2	298.15	40.50
17289	C9H13N	(S)-(-)-b-methylphenethylamine	17596-79-1	81.811	681.51	1.2222	480.15	511.13	2	480.15	18.44
17290	C9H13N	(R)-(+)-b-methylphenethylamine	28163-64-6	82.194	667.61	1.2222	283.15	500.71	2	298.15	39.88
17291	C9H13N	2-methylphenethylamine	55755-16-3	81.811	681.51	1.2222	283.15	511.13	2	298.15	40.50
17292	C9H13N	3-methylphenethylamine	55755-17-4	81.811	681.51	1.2222	283.15	511.13	2	298.15	40.50
17293	C9H13N	3-phenylpropylamine	2038-57-5	81.273	701.69	1.2222	283.15	526.27	2	298.15	41.33
17294	C9H13N	4-propylaniline	2696-84-6	64.830	673.00	1.2222	304.48	673.00	2	304.48	31.05
17295	C9H13N	2,6-diethylpyridine	935-28-4	65.866	673.00	1.2222	304.48	673.00	2	304.48	31.55
17296	C9H13N	2,4-dimethylbenzenemethanamine	94-98-4	81.365	698.21	1.2222	283.15	523.66	2	298.15	41.19
17297	C9H13N	2,3,5,6-tetramethylpyridine	3748-84-3	66.429	673.00	1.2222	304.48	673.00	2	304.48	31.82
17388	C9H14	1-nonen-3-yne	57223-18-4	65.513	595.00	1.2222	270.00	595.00	2	298.15	28.01
17389	C9H14	1-nonen-4-yne	31508-12-0	65.513	595.00	1.2222	270.00	595.00	2	298.15	28.01
17390	C9H14	2-nonen-4-yne	90644-60-3	65.513	595.00	1.2222	270.00	595.00	2	298.15	28.01
17391	C9H14	6,6-dimethyl-1-hepten-4-yne	31508-08-4	62.306	595.00	1.2222	270.00	595.00	2	298.15	26.63
17392	C9H14	3-propyl-3-hexen-1-yne	688-52-8	64.080	595.00	1.2222	270.00	595.00	2	298.15	27.39

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
17395.1	C9H14	ethylnorbene	15403-89-1	63.182	625.00	1.2794	200.00	625.00	2	298.15	27.57
17395.2	C9H14	1-methyl-4-vinylcyclohexene	17699-86-4	68.502	626.00	1.2482	223.00	626.00	2	298.15	30.56
17395.3	C9H14	propenyl cyclohexene	13511-13-2	63.608	636.00	1.2390	199.00	636.00	2	298.15	29.05
17436	C9H14O	isophorone	78-59-1	68.544	715.00	1.2222	265.05	715.00	2	298.15	35.45
17450	C9H14O	2-allylcyclohexanone	94-66-6	53.449	690.00	1.2222	290.00	690.00	2	298.15	26.77
17513	C9H14O6	glyceryl triacetate	102-76-1	72.052	704.00	1.2222	275.25	704.00	2	298.15	36.75
17518.1	C9H14O7	trilatic acid	78024-33-6	74.808	777.00	1.2353	312.15	777.00	2	312.15	39.66
17520	C9H14S	2-isopentylthiophene	26963-33-7	60.011	685.00	1.2222	280.00	685.00	2	298.15	29.85
17590	C9H16	1-butylcyclopentene	2423-01-0	46.545	626.53	1.2222	184.75	626.53	2	298.15	21.13
17591	C9H16	4-isopropyl-1-methylcyclopentene	90769-70-3	46.646	626.53	1.2222	184.75	626.53	2	298.15	21.18
17592	C9H16	3-methyl-1-isopropylcyclopentene	51115-02-7	46.677	626.53	1.2222	184.75	626.53	2	298.15	21.19
17593	C9H16	1-nonyne	3452-09-3	56.699	610.81	1.2222	223.16	610.81	1,2	298.15	25.01
17594	C9H16	2-nonyne	19447-29-1	56.797	630.31	1.2222	296.79	630.31	2	298.15	25.96
17595	C9H16	3-nonyne	20184-89-8	57.063	623.36	1.2222	296.79	623.36	2	298.15	25.76
17596	C9H16	4-nonyne	20184-91-2	56.966	621.49	1.2222	272.25	621.49	2	298.15	25.63
17597	C9H16	7-methyl-3-octyne	37050-06-9	56.391	621.49	1.2222	272.25	621.49	2	298.15	25.37
17598	C9H16	2,6-dimethyl-3-heptyne	19549-97-4	54.652	621.49	1.2222	272.25	621.49	2	298.15	24.59
17599	C9H16	5,5-dimethyl-3-heptyne	23097-98-5	56.391	621.49	1.2222	272.25	621.49	2	298.15	25.37
17605	C9H16	1,8-nonadiene	4900-30-5	50.192	616.00	1.2222	202.32	616.00	2	298.15	22.36
17606	C9H16	2,7-nonadiene	51333-70-1	51.233	616.00	1.2222	200.65	616.00	2	298.15	22.82
17607	C9H16	4-methyl-3,5-octadiene	36903-95-4	51.005	616.00	1.2222	202.32	616.00	2	298.15	22.72
17608	C9H16	7-methyl-2,4-octadiene	2216-70-8	50.948	616.00	1.2222	202.32	616.00	2	298.15	22.69
17609	C9H16	2,4-dimethyl-2,4-heptadiene	74421-05-9	49.656	616.00	1.2222	202.32	616.00	2	298.15	22.12
17610	C9H16	2,6-dimethyl-1,3-heptadiene	2436-84-2	50.015	616.00	1.2222	202.32	616.00	2	298.15	22.28
17611	C9H16	2,6-dimethyl-1,5-heptadiene	6709-39-3	50.251	616.00	1.2222	203.15	616.00	2	298.15	22.38
17612	C9H16	3,5-dimethyl-2,4-heptadiene	101935-28-8	49.896	616.00	1.2222	202.32	616.00	2	298.15	22.23
17613	C9H16	3-ethyl-2-methyl-1,5-hexadiene	73398-15-9	50.486	616.00	1.2222	203.15	616.00	2	298.15	22.49
17615	C9H16	1,2,3-trimethylcyclohexene	72312-48-2	54.505	620.00	1.2222	181.60	620.00	2	298.15	24.46
17616	C9H16	1,3,5-trimethylcyclohexene	3643-64-9	55.073	620.00	1.2222	181.60	620.00	2	298.15	24.71
17617	C9H16	1,4,4-trimethylcyclohexene	3419-71-4	55.136	620.00	1.2222	181.60	620.00	2	298.15	24.74
17618	C9H16	1,4,5-trimethylcyclohexene	20030-32-4	54.820	620.00	1.2222	181.60	620.00	2	298.15	24.60
17619	C9H16	1,5,5-trimethylcyclohexene	503-46-8	55.136	620.00	1.2222	181.60	620.00	2	298.15	24.74
17620	C9H16	1,5,6-trimethylcyclohexene	116724-18-6	55.136	620.00	1.2222	181.60	620.00	2	298.15	24.74
17621	C9H16	1,6,6-trimethylcyclohexene	69745-49-9	54.757	620.00	1.2222	181.60	620.00	2	298.15	24.57
17622	C9H16	1-ethyl-4-methylcyclohexene	62088-36-2	54.568	620.00	1.2222	181.60	620.00	2	298.15	24.49
17627	C9H16	1-isopropyl-1-cyclohexene	4292-04-0	54.186	620.00	1.2222	181.60	620.00	2	298.15	24.32
17628	C9H16	7-methyl-1,6-octadiene	42152-47-6	50.310	616.00	1.2222	202.32	616.00	2	298.15	22.41
17629	C9H16	3,5,5-trimethylcyclohexene	933-12-0	55.544	620.00	1.2222	181.60	620.00	2	298.15	24.92
17670	C9H16O	2-ethyl-2-methylcyclohexanone	17206-52-9	55.467	690.00	1.2222	305.72	690.00	2	305.72	27.12
17671	C9H16O	2-isopropylcyclohexanone	1004-77-9	58.518	690.00	1.2222	345.65	690.00	2	345.65	25.02
17672	C9H16O	4-isopropylcyclohexanone	5432-85-9	50.820	690.00	1.2222	305.72	690.00	2	305.72	24.85
17673	C9H16O	2-propylcyclohexanone	94-65-5	54.959	690.00	1.2222	305.72	690.00	2	305.72	26.88
17674	C9H16O	4-propylcyclohexanone	40649-36-3	51.055	690.00	1.2222	305.72	690.00	2	305.72	24.97
17675	C9H16O	2,2,3-trimethylcyclohexanone	39257-08-4	56.498	690.00	1.2222	305.72	690.00	2	305.72	27.63
17676	C9H16O	2,2,4-trimethylcyclohexanone	35413-38-8	58.518	690.00	1.2222	330.15	690.00	2	330.15	26.41
17677	C9H16O	2,2,5-trimethylcyclohexanone	933-36-8	58.619	690.00	1.2222	305.72	690.00	2	305.72	28.66
17678	C9H16O	2,2,6-trimethylcyclohexanone	2408-37-9	59.846	690.00	1.2222	241.35	690.00	2	298.15	29.97
17679	C9H16O	2,3,6-trimethylcyclohexanone	42185-47-7	56.759	690.00	1.2222	305.72	690.00	2	305.72	27.76
17680	C9H16O	2,4,4-trimethylcyclohexanone	2230-70-8	56.498	690.00	1.2222	305.72	690.00	2	305.72	27.63
17681	C9H16O	2,4,5-trimethylcyclohexanone	51299-55-9	55.980	690.00	1.2222	305.72	690.00	2	305.72	27.37
17682	C9H16O	2,4,6-trimethylcyclohexanone	90645-54-8	57.814	690.00	1.2222	305.72	690.00	2	305.72	28.27
17683	C9H16O	3,3,5-trimethylcyclohexanone	873-94-9	57.021	690.00	1.2222	305.72	690.00	2	305.72	27.88
17684	C9H16O	3,4,4-trimethylcyclohexanone	40441-35-8	58.518	690.00	1.2222	305.72	690.00	2	305.72	28.62
17690	C9H16O	2-methyl-5-octen-4-one	17577-93-4	63.801	655.00	1.2222	310.00	655.00	2	310.00	29.14
17691	C9H16O	2-methyl-7-octen-4-one	54298-97-4	63.823	655.00	1.2222	310.00	655.00	2	310.00	29.15
17692	C9H16O	5-methyl-1-octen-3-one	116836-13-6	63.823	655.00	1.2222	310.00	655.00	2	310.00	29.15
17693	C9H16O	7-methyl-5-octen-4-one	32064-78-1	63.823	655.00	1.2222	310.00	655.00	2	310.00	29.15
17698	C9H16O	2-nonenal	2463-53-8	68.979	650.00	1.2222	310.00	650.00	2	310.00	31.24
17699	C9H16O	trans-2-nonenal	18829-56-6	68.979	650.00	1.2222	310.00	650.00	2	310.00	31.24
17704	C9H16O	2,6-dimethyl-5-heptenal	106-72-9	68.979	650.00	1.2222	310.00	650.00	2	310.00	31.24
17705	C9H16O	(Z)-6-nonenal	2277-19-2	68.979	650.00	1.2222	310.00	650.00	2	310.00	31.24
17706	C9H16O	trans-3-nonen-2-one	18402-83-0	63.823	655.00	1.2222	310.00	655.00	2	310.00	29.15
17711	C9H16O2	allyl hexanoate	123-68-2	65.248	628.00	1.2222	215.70	628.00	2	298.15	29.70
17716	C9H16O2	ethyl 2-methyl-2-hexenoate	26311-33-1	66.222	628.00	1.2222	215.70	628.00	2	298.15	30.15
17717	C9H16O2	ethyl 2-methyl-3-hexenoate	21994-78-5	66.222	628.00	1.2222	215.70	628.00	2	298.15	30.15
17718	C9H16O2	ethyl 3-methyl-3-hexenoate	21994-77-4	66.222	628.00	1.2222	215.70	628.00	2	298.15	30.15
17719	C9H16O2	hexyl acrylate	2499-95-8	66.222	628.00	1.2222	228.15	628.00	2	298.15	30.15
17724	C9H16O2	2-nonenoic acid	3760-11-0	54.538	756.00	1.2222	272.20	756.00	2	298.15	29.55
17725	C9H16O2	3-nonenoic acid	4124-88-3	54.538	756.00	1.2222	268.75	756.00	2	298.15	29.55
17726	C9H16O2	8-nonenoic acid	31642-67-8	54.538	756.00	1.2222	275.65	756.00	2	298.15	29.55
17729	C9H16O2	2-ethylbutyl acrylate	3593-10-4	66.222	628.00	1.2222	203.25	628.00	2	298.15	30.15
17734	C9H16O2	3,5-dimethyl-3-hydroxyhexane-4-carboxylic acid b-lactone	69928-30-9	54.538	756.00	1.2222	272.20	756.00	2	298.15	29.55
17735	C9H16O2	2-ethylbutylacrylate	3953-10-4	70.501	628.00	1.2222	215.70	628.00	2	298.15	32.09
17736	C9H16O2	cis-3-hexenyl propionate	33467-74-2	67.043	628.00	1.2222	215.70	628.00	2	298.15	30.52
17737	C9H16O2	trans-2-hexenyl propionate	53398-80-4	66.222	628.00	1.2222	215.70	628.00	2	298.15	30.15
17755	C9H16O4	azelaic acid	123-99-9	98.638	811.00	1.2222	379.65	811.00	2	379.65	45.60
17785	C9H17Br	cis-1-bromo-1-nonene	39924-58-8	58.317	666.86	1.2222	245.41	666.86	2	298.15	28.27
17786	C9H17Br	trans-1-bromo-1-nonene	53434-75-6	58.317	666.86	1.2222	245.41	666.86	2	298.15	28.27
17790	C9H17Br3	1,1,1-tribromononane	62127-66-6	85.527	777.84	1.2222	372.51	777.84	2	372.51	38.56
17791	C9H17Cl	cis-1-chloro-1-nonene	66688-72-0	61.638	662.93	1.2222	215.53	662.93	2	298.15	29.70

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
17792	C9H17Cl	trans-1-chloro-1-nonene	66688-73-1	61.638	662.93	1.2222	215.53	662.93	2	298.15	29.70
17793	C9H17Cl	(3-chloropropyl)cyclohexane	1124-62-5	62.620	662.93	1.2222	220.35	662.93	2	298.15	30.17
17804	C9H17Cl3	1,1,1-trichlorononane	1071-84-7	70.984	710.31	1.2222	282.87	710.31	2	298.15	36.50
17805	C9H17F	cis-1-fluoro-1-nonene	66688-74-2	53.257	571.18	1.2222	217.76	571.18	2	298.15	21.61
17806	C9H17F	trans-1-fluoro-1-nonene	66688-75-3	53.257	571.18	1.2222	217.76	571.18	2	298.15	21.61
17808	C9H17F3	1,1,1-trifluorononane	55757-34-1	51.826	578.40	1.2222	289.56	578.40	2	298.15	21.38
17809	C9H17I	cis-1-iodo-1-nonene	27370-94-1	58.973	708.62	1.2222	243.67	708.62	2	298.15	30.26
17810	C9H17I	trans-1-iodo-1-nonene	26143-08-8	58.973	708.62	1.2222	243.67	708.62	2	298.15	30.26
17812	C9H17I3	1,1,1-triiodononane	---	67.389	944.80	1.2222	367.29	944.80	2	367.29	36.92
17813	C9H17N	nonanenitrile	2243-27-8	57.926	677.19	1.2222	238.95	677.19	1,2	298.15	28.50
17859	C9H18	butylcyclopentane	2040-95-1	57.128	625.05	1.2222	165.18	625.05	1,2	298.15	25.87
17860	C9H18	isobutylcyclopentane	3788-32-7	55.439	617.21	1.2222	157.93	617.21	1,2	298.15	24.75
17861	C9H18	sec-butylcyclopentane	4850-32-2	57.399	626.59	1.2222	186.59	626.59	2	298.15	26.06
17862	C9H18	tert-butylcyclopentane	3875-52-3	56.597	622.56	1.2222	177.35	622.56	2	298.15	25.52
17863	C9H18	1-methyl-1-propylcyclopentane	16631-63-3	57.218	618.03	1.2222	225.49	618.03	2	298.15	25.58
17864	C9H18	1-methyl-cis-2-propylcyclopentane	932-43-4	57.767	620.88	1.2222	169.15	620.88	2	298.15	25.96
17865	C9H18	1-methyl-trans-2-propylcyclopentane	932-44-5	57.936	611.82	1.2222	153.15	611.82	2	298.15	25.60
17866	C9H18	1-methyl-cis-3-propylcyclopentane	2443-04-1	57.891	614.20	1.2222	197.35	614.20	2	298.15	25.70
17867	C9H18	1-methyl-trans-3-propylcyclopentane	2443-03-0	57.891	614.20	1.2222	197.35	614.20	2	298.15	25.70
17868	C9H18	1-methyl-1-isopropylcyclopentane	61828-00-0	56.652	626.05	1.2222	210.49	626.05	2	298.15	25.70
17869	C9H18	1-methyl-cis-2-isopropylcyclopentane	61868-01-7	57.375	619.02	1.2222	182.35	619.02	2	298.15	25.70
17870	C9H18	1-methyl-trans-2-isopropylcyclopentane	61828-01-1	57.554	608.73	1.2222	182.35	608.73	2	298.15	25.29
17871	C9H18	1-methyl-cis-3-isopropylcyclopentane	61828-02-2	57.528	610.20	1.2222	182.35	610.20	2	298.15	25.35
17872	C9H18	1-methyl-trans-3-isopropylcyclopentane	61828-03-3	57.528	610.20	1.2222	182.35	610.20	2	298.15	25.35
17873	C9H18	1,1-diethylcyclopentane	2721-38-2	57.111	624.67	1.2222	177.55	624.67	2	298.15	25.84
17874	C9H18	1,cis-2-diethylcyclopentane	932-39-8	57.741	622.31	1.2222	155.15	622.31	2	298.15	26.02
17875	C9H18	1,trans-2-diethylcyclopentane	932-40-1	57.904	613.51	1.2222	178.15	613.51	2	298.15	25.67
17876	C9H18	1,3-diethylcyclopentane	19398-75-5	58.506	610.99	1.2222	195.55	610.99	2	298.15	25.82
17877	C9H18	1,cis-3-diethylcyclopentane	62016-59-5	57.836	617.12	1.2222	197.35	617.12	2	298.15	25.82
17878	C9H18	1,trans-3-diethylcyclopentane	62016-60-8	57.836	617.12	1.2222	197.35	617.12	2	298.15	25.82
17879	C9H18	1,1-dimethyl-2-ethylcyclopentane	54549-80-3	57.224	607.98	1.2222	221.25	607.98	2	298.15	25.10
17880	C9H18	1,1-dimethyl-3-ethylcyclopentane	62016-61-9	57.326	602.06	1.2222	221.25	602.06	2	298.15	24.86
17881	C9H18	1,cis-2-dimethyl-1-ethylcyclopentane	62016-63-1	57.079	616.85	1.2222	221.25	616.85	2	298.15	25.47
17882	C9H18	1,trans-2-dimethyl-1-ethylcyclopentane	62016-62-0	57.079	616.85	1.2222	221.25	616.85	2	298.15	25.47
17883	C9H18	1,cis-2-dimethyl-cis-3-ethylcyclopentane	---	57.603	621.75	1.2222	193.11	621.75	2	298.15	25.93
17884	C9H18	1,cis-2-dimethyl-trans-3-ethylcyclopentane	---	57.788	611.51	1.2222	193.11	611.51	2	298.15	25.52
17885	C9H18	1,trans-2-dimethyl-cis-3-ethylcyclopentane	---	57.984	601.27	1.2222	193.11	601.27	2	298.15	25.10
17886	C9H18	1,trans-2-dimethyl-trans-3-ethylcyclopentane	---	57.788	611.51	1.2222	193.11	611.51	2	298.15	25.52
17887	C9H18	1,cis-2-dimethyl-cis-4-ethylcyclopentane	62016-64-2	57.734	614.43	1.2222	193.11	614.43	2	298.15	25.64
17888	C9H18	1,cis-2-dimethyl-trans-4-ethylcyclopentane	62016-65-3	57.734	614.43	1.2222	193.11	614.43	2	298.15	25.64
17889	C9H18	1,trans-2-dimethyl-cis-4-ethylcyclopentane	62016-66-4	57.927	604.20	1.2222	193.11	604.20	2	298.15	25.23
17890	C9H18	1,cis-3-dimethyl-1-ethylcyclopentane	62016-68-6	57.275	605.02	1.2222	221.25	605.02	2	298.15	24.98
17891	C9H18	1,trans-3-dimethyl-1-ethylcyclopentane	62016-67-5	57.275	605.02	1.2222	221.25	605.02	2	298.15	24.98
17892	C9H18	1,cis-3-dimethyl-cis-2-ethylcyclopentane	19903-00-5	57.603	621.75	1.2222	193.11	621.75	2	298.15	25.93
17893	C9H18	1,cis-3-dimethyl-trans-2-ethylcyclopentane	19902-98-8	58.013	599.81	1.2222	193.11	599.81	2	298.15	25.04
17894	C9H18	1,trans-3-dimethyl-cis-2-ethylcyclopentane	19902-99-9	57.815	610.05	1.2222	193.11	610.05	2	298.15	25.47
17895	C9H18	1,cis-3-dimethyl-cis-4-ethylcyclopentane	---	57.788	611.51	1.2222	193.11	611.51	2	298.15	25.52
17896	C9H18	1,cis-3-dimethyl-trans-4-ethylcyclopentane	---	58.013	599.81	1.2222	193.11	599.81	2	298.15	25.04
17897	C9H18	1,trans-3-dimethyl-cis-4-ethylcyclopentane	---	51.016	678.78	1.2222	193.11	678.78	2	298.15	25.16
17898	C9H18	1,trans-3-dimethyl-trans-4-ethylcyclopentane	---	57.788	611.51	1.2222	193.11	611.51	2	298.15	25.52
17899	C9H18	1,1,2,2-tetramethylcyclopentane	52688-89-8	56.370	609.38	1.2222	245.15	609.38	2	298.15	24.80
17900	C9H18	1,1,cis-2,cis-3-tetramethylcyclopentane	62016-70-0	57.030	609.74	1.2222	217.01	609.74	2	298.15	25.10
17901	C9H18	1,1,cis-2,trans-3-tetramethylcyclopentane	---	57.230	597.88	1.2222	217.01	597.88	2	298.15	24.61
17902	C9H18	1,1,cis-2,cis-4-tetramethylcyclopentane	62016-72-2	57.230	597.88	1.2222	217.01	597.88	2	298.15	24.61
17903	C9H18	1,1,cis-2,trans-4-tetramethylcyclopentane	---	57.230	597.88	1.2222	217.01	597.88	2	298.15	24.61
17904	C9H18	1,1,3,3-tetramethylcyclopentane	50876-33-0	56.718	586.82	1.2222	184.86	586.82	2	298.15	23.83
17905	C9H18	1,1,cis-3,cis-4-tetramethylcyclopentane	20309-77-7	57.153	602.33	1.2222	166.75	602.33	2	298.15	24.80
17906	C9H18	1,1,cis-3,trans-4-tetramethylcyclopentane	---	57.460	585.42	1.2222	217.01	585.42	2	298.15	24.07
17907	C9H18	1,2,2,cis-3-tetramethylcyclopentane	62016-73-3	57.030	609.74	1.2222	217.01	609.74	2	298.15	25.10
17908	C9H18	1,2,2,trans-3-tetramethylcyclopentane	---	57.030	609.74	1.2222	217.01	609.74	2	298.15	25.10
17909	C9H18	1,cis-2,cis-3,cis-4-tetramethylcyclopentane	2532-65-2	57.602	613.22	1.2222	188.87	613.22	2	298.15	25.52
17910	C9H18	1,cis-2,cis-3,trans-4-tetramethylcyclopentane	2532-69-6	57.791	602.95	1.2222	188.87	602.95	2	298.15	25.10
17911	C9H18	1,cis-2,trans-3,cis-4-tetramethylcyclopentane	2532-68-5	57.993	592.68	1.2222	188.87	592.68	2	298.15	24.67
17912	C9H18	1,cis-2,trans-3,trans-4-tetramethylcyclopentane	2532-64-1	57.791	602.95	1.2222	188.87	602.95	2	298.15	25.10
17913	C9H18	1,trans-2,cis-3,trans-4-tetramethylcyclopentane	2532-67-4	58.104	587.41	1.2222	188.87	587.41	2	298.15	24.44
17914	C9H18	1,trans-2,trans-3,cis-4-tetramethylcyclopentane	19907-40-5	57.993	592.68	1.2222	188.87	592.68	2	298.15	24.67
17915	C9H18	1-methyl-2-isopropylcyclopentane	89223-57-4	57.577	610.99	1.2222	195.55	610.99	2	298.15	25.41
17916	C9H18	propylcyclohexane	1678-92-8	55.810	639.15	1.2117	178.28	639.15	1,2	298.15	26.07
17917	C9H18	isopropylcyclohexane	696-29-7	59.500	627.00	1.3010	183.76	627.00	1,2	298.15	25.70
17918	C9H18	1-methyl-1-ethylcyclohexane	4926-90-3	55.168	633.38	1.2222	221.97	633.38	2	298.15	25.35
17919	C9H18	1-methyl-cis-2-ethylcyclohexane	4923-77-7	55.772	632.03	1.2222	193.83	632.03	2	298.15	25.57
17920	C9H18	1-methyl-trans-2-ethylcyclohexane	4923-78-8	55.872	625.55	1.2222	193.83	625.55	2	298.15	25.32
17921	C9H18	1-methyl-cis-3-ethylcyclohexane	19489-10-2	55.959	620.10	1.2222	193.83	620.10	2	298.15	25.11
17922	C9H18	1-methyl-trans-3-ethylcyclohexane	4926-76-5	55.888	624.52	1.2222	193.83	624.52	2	298.15	25.28
17923	C9H18	1-methyl-cis-4-ethylcyclohexane	4926-78-7	55.888	624.52	1.2222	193.83	624.52	2	298.15	25.28
17924	C9H18	1-methyl-trans-4-ethylcyclohexane	6236-88-0	55.959	620.10	1.2222	192.35	620.10	2	298.15	25.11
17925	C9H18	1,1,2-trimethylcyclohexane	7094-26-0	55.125	624.87	1.2222	244.15	624.87	2	298.15	24.95
17926	C9H18	1,1,3-trimethylcyclohexane	3073-66-3	55.301	612.06	1.2222	207.40	612.06	2	298.15	24.45
17927	C9H18	1,1,4-trimethylcyclohexane	7094-27-1	55.336	609.63	1.2222	217.73	609.63	2	298.15	24.35
17928	C9H18	1,2,3-trimethylcyclohexane	1678-97-3	55.067	621.31	1.2222	197.59	621.31	2	298.15	24.77

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								
										(sigma - dynes/cm, T - K)	
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
17929	C9H18	1,cis-2,cis-3-trimethylcyclohexane	1839-88-9	55.666	629.26	1.2222	188.15	629.26	2	298.15	25.40
17930	C9H18	1,cis-2,trans-3-trimethylcyclohexane	7667-55-2	55.711	626.30	1.2222	187.45	626.30	2	298.15	25.28
17931	C9H18	1,trans-2,cis-3-trimethylcyclohexane	1678-81-5	55.871	615.97	1.2222	206.25	615.97	2	298.15	24.89
17932	C9H18	1,2,4-trimethylcyclohexane, isomers	2234-75-5	55.054	621.31	1.2222	186.85	621.31	2	298.15	24.76
17933	C9H18	1,cis-2,cis-4-trimethylcyclohexane	1678-80-4	55.779	621.87	1.2222	195.65	621.87	2	298.15	25.11
17934	C9H18	1,cis-2,trans-4-trimethylcyclohexane	7667-58-5	55.779	621.87	1.2222	181.35	621.87	2	298.15	25.11
17935	C9H18	1,trans-2,cis-4-trimethylcyclohexane	7667-59-6	55.848	617.44	1.2222	187.15	617.44	2	298.15	24.94
17936	C9H18	1,trans-2,trans-4-trimethylcyclohexane	7667-60-9	55.938	611.86	1.2222	187.15	611.86	2	298.15	24.72
17937	C9H18	1,3,5,-trimethylcyclohexane	1839-63-0	54.522	621.31	1.2222	197.59	621.31	2	298.15	24.52
17938	C9H18	cis,cis-1,3,5-trimethylcyclohexane	1795-27-3	56.004	607.86	1.2222	223.46	607.86	2	298.15	24.56
17939	C9H18	cis,trans-1,3,5-trimethylcyclohexane	1795-26-2	56.907	602.20	1.2222	188.76	602.20	2	298.15	24.68
17940	C9H18	1-ethyl-2-methylcyclohexane	3728-54-9	56.380	621.31	1.2222	197.59	621.31	2	298.15	25.36
17941	C9H18	cyclononane	293-55-0	60.298	682.00	1.2222	284.15	682.00	2	298.15	29.87
17942	C9H18	1-nonene	124-11-8	54.590	593.25	1.2652	191.78	593.25	1,2	298.15	22.56
17943	C9H18	trans-2-nonene	6434-78-2	52.696	593.62	1.2222	183.97	593.62	2	298.15	22.46
17944	C9H18	trans-3-nonene	20063-92-7	53.060	593.62	1.2222	183.97	593.62	2	298.15	22.62
17945	C9H18	4-nonene; (cis+trans)	2198-23-4	52.866	593.62	1.2222	183.97	593.62	2	298.15	22.53
17946	C9H18	2-methyl-1-octene	4588-18-5	52.673	594.00	1.2222	195.47	594.00	2	298.15	22.47
17947	C9H18	3-methyl-2-octene	113426-22-5	52.757	593.62	1.2222	183.97	593.62	2	298.15	22.49
17948	C9H18	7-methyl-3-octene	86668-33-9	52.388	593.62	1.2222	183.97	593.62	2	298.15	22.33
17948.1	C9H18	7-methyl-1-octene	13151-06-9	68.468	579.00	1.2814	194.00	579.00	2	298.15	27.09
17949	C9H18	2-methyl-4-octene	64501-77-5	52.015	593.62	1.2222	183.97	593.62	2	298.15	22.17
17950	C9H18	2,3-dimethyl-2-heptene	3074-64-4	52.781	593.62	1.2222	164.65	593.62	2	298.15	22.50
17951	C9H18	2,6-dimethylhept-3-ene	2738-18-3	49.758	593.62	1.2222	183.97	593.62	2	298.15	21.21
17955	C9H18Br2	1,1-dibromononane	62168-27-8	73.945	729.44	1.2222	295.29	729.44	2	298.15	38.90
17956	C9H18Br2	1,2-dibromononane	73642-91-8	74.264	729.44	1.2222	272.97	729.44	2	298.15	39.07
17957	C9H18Br2	1,9-dibromononane	4549-33-1	75.176	729.44	1.2222	250.65	729.44	1,2	298.15	39.55
17959	C9H18Cl2	1,1-dichlorononane	821-88-5	75.288	688.79	1.2222	235.53	688.79	2	298.15	37.64
17960	C9H18Cl2	2,6-dichloro-2,6-dimethylheptane	35951-36-1	76.436	688.79	1.2222	316.15	688.79	2	316.15	36.08
17961	C9H18Cl2	1,9-dichlorononane	821-99-8	73.023	688.79	1.2222	275.84	688.79	1,2	298.15	36.51
17964	C9H18F2	1,1-difluorononane	62127-42-8	57.107	602.20	1.2222	239.99	602.20	2	298.15	24.77
17967	C9H18I2	1,1-diiodononane	66703-05-7	76.629	817.53	1.2222	291.81	817.53	2	298.15	44.01
17997	C9H18O	1-nonanal	124-19-6	63.446	640.00	1.2222	255.15	640.00	2	298.15	29.48
17998	C9H18O	diisobutyl ketone	108-83-8	58.022	615.00	1.2222	227.17	615.00	2	298.15	25.80
17999	C9H18O	2-nonanone	821-55-6	56.393	644.29	1.2222	265.65	644.29	1,2	298.15	26.39
18000	C9H18O	di-tert-butyl ketone	815-24-7	55.666	629.65	1.2222	247.95	629.65	2	298.15	25.41
18001	C9H18O	3,5-dimethyl-4-heptanone	19549-84-9	56.181	629.65	1.2222	255.05	629.65	2	298.15	25.65
18002	C9H18O	3-methyl-2-octanone	6137-08-2	57.304	629.65	1.2222	255.05	629.65	2	298.15	26.16
18003	C9H18O	3-methyl-4-octanone	20754-04-5	56.806	629.65	1.2222	255.05	629.65	2	298.15	25.93
18004	C9H18O	4-methyl-3-octanone	6137-15-1	57.304	629.65	1.2222	255.05	629.65	2	298.15	26.16
18005	C9H18O	5-methyl-2-octanone	58654-67-4	57.304	629.65	1.2222	255.05	629.65	2	298.15	26.16
18006	C9H18O	7-methyl-3-octanone	5408-57-1	57.252	629.65	1.2222	255.05	629.65	2	298.15	26.14
18007	C9H18O	7-methyl-4-octanone	20809-46-5	57.015	629.65	1.2222	255.05	629.65	2	298.15	26.03
18008	C9H18O	3-nonanone	925-78-0	60.084	629.65	1.2222	265.15	629.65	1,2	298.15	27.43
18009	C9H18O	4-nonanone	4485-09-0	57.565	629.65	1.2222	255.05	629.65	1,2	298.15	26.28
18010	C9H18O	5-nonanone	502-56-7	57.565	629.65	1.2222	269.35	629.65	1,2	298.15	26.28
18011	C9H18O	1-ethyl-2-methylcyclohexanol	102370-18-3	68.291	655.00	1.2222	310.05	655.00	2	310.05	31.19
18012	C9H18O	1-ethyl-3-methylcyclohexanol	62067-44-1	69.059	655.00	1.2222	310.05	655.00	2	310.05	31.54
18013	C9H18O	1-isopropylcyclohexanol	3552-01-0	65.247	655.00	1.2222	299.15	655.00	2	299.15	30.95
18014	C9H18O	cis-2-isopropylcyclohexanol	10488-25-2	69.059	655.00	1.2222	325.65	655.00	2	325.65	29.80
18015	C9H18O	cis-4-isopropylcyclohexanol	22900-08-9	69.059	655.00	1.2222	311.15	655.00	2	311.15	31.42
18016	C9H18O	trans-4-isopropylcyclohexanol	15890-36-5	69.059	655.00	1.2222	283.15	655.00	2	298.15	32.87
18017	C9H18O	1-propylcyclohexanol	5445-24-9	69.059	655.00	1.2222	310.05	655.00	2	310.05	31.54
18018	C9H18O	cis-2-propylcyclohexanol	5857-86-3	78.897	655.00	1.2222	310.05	655.00	2	310.05	36.03
18019	C9H18O	trans-2-propylcyclohexanol	5846-43-5	69.059	655.00	1.2222	310.05	655.00	2	310.05	31.54
18020	C9H18O	cis-4-propylcyclohexanol	98790-22-8	69.059	655.00	1.2222	310.05	655.00	2	310.05	31.54
18021	C9H18O	trans-4-propylcyclohexanol	77866-58-1	83.208	655.00	1.2222	310.05	655.00	2	310.05	38.00
18022	C9H18O	1,2,2-trimethylcyclohexanol	31720-69-1	69.059	655.00	1.2222	310.05	655.00	2	310.05	31.54
18023	C9H18O	1,2,6-trimethylcyclohexanol	96244-13-2	69.059	655.00	1.2222	310.05	655.00	2	310.05	31.54
18024	C9H18O	1,3,5-trimethylcyclohexanol	90760-75-1	67.774	655.00	1.2222	310.05	655.00	2	310.05	30.95
18025	C9H18O	2,2,5-trimethylcyclohexanol	73210-25-0	71.476	655.00	1.2222	310.05	655.00	2	310.05	32.64
18026	C9H18O	2,2,6-trimethylcyclohexanol	10130-91-3	70.935	655.00	1.2222	324.15	655.00	2	324.15	30.79
18027	C9H18O	2,3,3-trimethylcyclohexanol	116724-17-5	76.536	655.00	1.2222	301.15	655.00	2	301.15	36.06
18028	C9H18O	2,3,6-trimethylcyclohexanol	58210-03-0	75.381	655.00	1.2222	310.05	655.00	2	310.05	34.43
18029	C9H18O	cis-3,3,5-trimethylcyclohexanol	933-48-2	79.499	655.00	1.2222	310.45	655.00	2	310.45	36.26
18030	C9H18O	trans-3,3,5-trimethylcyclohexanol	767-54-4	72.131	655.00	1.2222	328.95	655.00	2	328.95	30.75
18031	C9H18O	3-methyl-4-octen-3-ol	90676-55-4	45.087	629.00	0.8000	262.15	629.00	2	298.15	26.97
18032	C9H18O	4-methyl-1-octen-4-ol	62108-06-9	59.922	629.00	1.2222	310.00	629.00	2	310.00	26.13
18033	C9H18O	5-methyl-5-octen-4-ol	36903-92-1	60.517	629.00	1.2222	310.00	629.00	2	310.00	26.39
18034	C9H18O	7-methyl-2-octen-4-ol	4798-64-5	60.517	629.00	1.2222	310.00	629.00	2	310.00	26.39
18035	C9H18O	cis-2-methyl-3-octen-2-ol	18521-07-8	59.812	629.00	1.2222	310.00	629.00	2	310.00	26.09
18036	C9H18O	1-nonen-3-ol	21964-44-3	61.495	629.65	1.2222	310.00	629.65	2	310.00	26.85
18037	C9H18O	8-nonen-1-ol	13038-21-6	60.449	629.65	1.2222	310.00	629.65	2	310.00	26.40
18042	C9H18O	cis-3-nonen-1-ol	10340-23-5	60.449	629.65	1.2222	310.00	629.65	2	310.00	26.40
18043	C9H18O	3,5,5-trimethylcyclohexanol	116-02-9	75.668	655.00	1.2222	306.65	655.00	2	306.65	34.97
18044	C9H18O	3,5,5-trimethylhexanal	5435-64-3	62.496	640.00	1.2222	255.15	640.00	2	298.15	29.04
18045	C9H18O	2,6-dimethyl-3-heptanone	19549-83-8	56.693	629.65	1.2222	255.05	629.65	2	298.15	25.88
18046	C9H18O	4-(1-methylethyl)cyclohexanol	4621-04-9	43.618	655.00	1.2222	310.05	655.00	2	310.05	19.92
18047	C9H18O	2-methyl-3-octanone	923-28-4	57.271	629.65	1.2222	255.05	629.65	2	298.15	26.15
18048	C9H18O	2-methyloctanal	7786-29-0	62.496	640.00	1.2222	255.15	640.00	2	298.15	29.04

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
18049	C9H18O	3-methyl-1-octen-ol	24089-00-7	60.517	629.00	1.2222	270.00	629.00	2	298.15	27.60
18052	C9H18O2	nonanoic acid	112-05-0	55.590	703.00	1.2222	285.55	703.00	2	298.15	28.32
18053	C9H18O2	2-ethylheptanoic acid	3274-29-1	51.859	703.00	1.2222	285.55	703.00	2	298.15	26.42
18054	C9H18O2	3-ethyl-3-methylhexanoic acid	50902-82-4	51.859	703.00	1.2222	285.55	703.00	2	298.15	26.42
18055	C9H18O2	2-ethyl-3-methylhexanoic acid	74581-94-5	54.283	703.00	1.2222	285.55	703.00	2	298.15	27.65
18056	C9H18O2	3-methyloctanoic acid	6061-10-5	51.859	703.00	1.2222	285.55	703.00	2	298.15	26.42
18057	C9H18O2	2-methyloctanoic acid	3004-93-1	51.859	703.00	1.2222	285.55	703.00	2	298.15	26.42
18058	C9H18O2	octyl formate	112-32-3	63.289	645.00	1.2222	234.05	645.00	2	298.15	29.65
18059	C9H18O2	heptyl acetate	112-06-1	59.921	643.90	1.2222	222.95	643.90	2	298.15	28.02
18060	C9H18O2	4-heptyl acetate	5921-84-6	57.664	643.90	1.2222	222.95	643.90	2	298.15	26.97
18061	C9H18O2	hexyl propanoate	2445-76-3	60.066	640.00	1.2222	215.65	640.00	2	298.15	27.91
18062	C9H18O2	pentyl butanoate	540-18-1	56.504	636.70	1.2222	200.15	636.70	1,2	298.15	26.11
18063	C9H18O2	1-methylbutyl butanoate	60415-61-4	59.683	610.00	1.2222	218.02	610.00	2	298.15	26.29
18064	C9H18O2	2-methylbutyl butanoate	51115-64-1	58.261	620.00	1.2222	218.02	620.00	2	298.15	26.14
18065	C9H18O2	3-methylbutyl butanoate	106-27-4	58.367	619.00	1.2222	218.02	619.00	2	298.15	26.14
18066	C9H18O2	1-ethylpropyl butanoate	---	60.515	610.00	1.2222	218.02	610.00	2	298.15	26.65
18067	C9H18O2	1,1-dimethylpropyl butanoate	2050-00-2	61.054	603.00	1.2222	235.44	603.00	2	298.15	26.52
18068	C9H18O2	1,2-dimethylpropyl butanoate	88736-68-9	60.703	608.00	1.2222	203.02	608.00	2	298.15	26.63
18069	C9H18O2	2,2-dimethylpropyl butanoate	23361-69-5	60.577	607.00	1.2222	235.44	607.00	2	298.15	26.52
18070	C9H18O2	isopentyl 2-methylpropanoate	2050-01-3	57.755	640.00	1.2222	215.65	640.00	2	298.15	26.84
18071	C9H18O2	butyl valerate	591-68-4	57.499	629.00	1.2222	180.35	629.00	1,2	298.15	26.22
18072	C9H18O2	butyl 2-methylbutanoate	15706-73-7	58.888	614.21	1.2222	218.27	614.21	2	298.15	26.14
18073	C9H18O2	butyl 3-methylbutanoate	109-19-3	59.394	614.21	1.2222	218.27	614.21	2	298.15	26.37
18074	C9H18O2	sec-butyl pentanoate	116836-32-9	56.203	629.00	1.2222	206.25	629.00	2	298.15	25.63
18075	C9H18O2	isobutyl 3-methylbutanoate	589-59-3	57.728	614.21	1.2222	218.27	614.21	2	298.15	25.63
18076	C9H18O2	propyl hexanoate	626-77-7	57.486	629.00	1.2222	204.45	629.00	2	298.15	26.21
18077	C9H18O2	isobutyl pentanoate	10588-10-0	51.314	629.00	1.2222	206.25	629.00	1,2	298.15	23.40
18078	C9H18O2	ethyl heptanoate	106-30-9	57.981	629.00	1.2222	207.05	629.00	1,2	298.15	26.44
18079	C9H18O2	ethyl 3-methylhexanoate	41692-47-1	56.466	629.00	1.2222	206.25	629.00	2	298.15	25.75
18080	C9H18O2	ethyl 4-methylhexanoate	1561-10-0	56.777	629.00	1.2222	206.25	629.00	2	298.15	25.89
18081	C9H18O2	methyl octanoate	111-11-5	61.248	629.00	1.2222	233.15	629.00	1,2	298.15	27.93
18082	C9H18O2	3,5,5-trimethylhexanoic acid	3302-10-1	51.859	703.00	1.2222	285.55	703.00	2	298.15	26.42
18083	C9H18O2	7-methyloctanoic acid	693-19-6	51.859	703.00	1.2222	285.55	703.00	2	298.15	26.42
18087	C9H18O2	4-octanecarboxylic acid	3274-28-0	47.135	703.00	1.2222	285.55	703.00	2	298.15	24.01
18099.1	C9H18O3	triacetone alcohol	3682-91-5	29.128	618.00	1.0293	330.40	618.00	2	330.40	13.26
18111	C9H18S	thiacyclodecane	6048-83-5	62.041	771.03	1.2222	271.68	771.03	2	298.15	34.13
18115	C9H19Br	1-bromononane	693-58-3	59.642	682.65	1.2222	244.15	682.65	1,2	298.15	29.57
18117	C9H19Cl	1-chlorononane	2473-01-0	58.908	661.88	1.2222	233.75	661.88	1,2	298.15	28.34
18118	C9H19Cl	3-chloro-3-ethyl-2,2-dimethylpentane	86661-53-2	58.334	661.88	1.2222	233.75	661.88	2	298.15	28.06
18119	C9H19Cl	3-chloro-3-ethylheptane	28320-89-0	58.334	661.88	1.2222	233.75	661.88	2	298.15	28.06
18120	C9H19Cl	3-chloro-3-methyloctane	28320-88-9	58.334	661.88	1.2222	233.75	661.88	2	298.15	28.06
18121	C9H19Cl	4-chloro-4-methyloctane	36903-89-6	58.334	661.88	1.2222	233.75	661.88	2	298.15	28.06
18122	C9H19Cl	2-chlorononane	2216-36-6	57.773	661.88	1.2222	233.75	661.88	2	298.15	27.79
18123	C9H19Cl	5-chlorononane	28123-70-8	58.334	661.88	1.2222	233.75	661.88	2	298.15	28.06
18124	C9H19Cl	3-chloro-2,2,3-trimethylhexane	102449-95-6	58.334	661.88	1.2222	233.75	661.88	2	298.15	28.06
18127	C9H19F	1-fluorononane	463-18-3	62.686	602.90	1.2222	233.15	602.90	2	298.15	27.23
18129	C9H19I	1-iodononane	4282-42-2	61.220	683.84	1.2222	253.15	683.84	2	298.15	30.40
18130	C9H19N	1-tert-butylpiperidine	14446-69-6	58.820	623.59	1.2222	286.65	467.69	2	298.15	26.57
18131	C9H19N	3-butylpiperidine	13603-21-9	53.291	666.90	1.2222	293.90	500.18	2	298.15	25.83
18132	C9H19N	4-butylpiperidine	24152-39-4	53.697	663.35	1.2222	293.90	497.51	2	298.15	25.89
18133	C9H19N	N-butylpiperidine	4945-48-6	56.860	637.79	1.2222	293.90	478.34	2	298.15	26.32
18134	C9H19N	2,5-diethylpiperidine	116836-21-6	54.364	657.67	1.2222	293.90	493.25	2	298.15	25.99
18135	C9H19N	1-isobutylpiperidine	10315-89-6	59.970	615.78	1.2222	293.90	461.84	2	298.15	26.70
18136	C9H19N	1-methyl-2-propylpiperidine, (S)	35305-13-6	57.240	634.95	1.2222	293.90	476.21	2	298.15	26.37
18137	C9H19N	2,2,4,6-tetramethylpiperidine	6292-82-6	60.951	609.39	1.2222	293.90	457.04	2	298.15	26.81
18138	C9H19N	2,2,6,6-tetramethylpiperidine	768-66-1	60.951	609.39	1.2222	301.15	457.04	2	301.15	26.50
18139	C9H19N	cyclohexylisopropylamine	1195-42-2	68.462	662.00	1.2222	193.25	662.00	2	298.15	32.94
18143	C9H19N	3,3,5-trimethylcyclohexylamine	15901-42-5	70.020	662.00	1.2222	193.25	662.00	2	298.15	33.69
18155	C9H19NO2	1-nitrononane	2216-21-9	60.057	703.70	1.2222	334.30	703.70	2	334.30	27.32
18176	C9H20	nonane	111-84-2	55.400	595.65	1.3027	219.63	595.65	1,2	298.15	22.43
18177	C9H20	2-methyloctane	3221-61-2	53.220	586.75	1.2813	192.78	586.75	1,2	298.15	21.44
18178	C9H20	3-methyloctane	2216-33-3	53.410	590.15	1.2656	165.55	590.15	1,2	298.15	21.92
18179	C9H20	4-methyloctane	2216-34-4	53.280	587.65	1.2545	159.95	587.65	1,2	298.15	21.92
18180	C9H20	3-ethylheptane	15869-80-4	54.100	590.00	1.2544	158.25	590.00	1,2	298.15	22.37
18181	C9H20	4-ethylheptane	2216-32-2	52.193	584.95	1.2222	159.96	584.95	2	298.15	21.84
18182	C9H20	2,2-dimethylheptane	1071-26-7	51.630	576.80	1.2767	160.15	576.80	1,2	298.15	20.39
18183	C9H20	2,3-dimethylheptane	3074-71-3	51.589	589.60	1.2222	160.16	589.60	2	298.15	21.81
18184	C9H20	2,4-dimethylheptane	2213-23-2	52.078	576.80	1.2222	160.16	576.80	2	298.15	21.40
18185	C9H20	2,5-dimethylheptane	2216-30-0	51.979	581.10	1.2222	160.16	581.10	2	298.15	21.57
18186	C9H20	2,6-dimethylheptane	1072-05-5	50.170	579.00	1.2380	170.25	579.00	1,2	298.15	20.49
18187	C9H20	3,4-dimethylheptane	922-28-1	51.351	591.90	1.2222	170.26	591.90	2	298.15	21.81
18188	C9H20	3,5-dimethylheptane	926-82-9	51.739	583.20	1.2222	170.26	583.20	2	298.15	21.57
18189	C9H20	4,4-dimethylheptane	1068-19-5	51.390	585.40	1.2222	170.26	585.40	2	298.15	21.53
18190	C9H20	3-ethyl-2-methylhexane	16789-46-1	51.444	588.10	1.2222	160.16	588.10	2	298.15	21.67
18191	C9H20	4-ethyl-2-methylhexane	3074-75-7	51.823	580.00	1.2222	160.16	580.00	2	298.15	21.45
18192	C9H20	3-ethyl-3-methylhexane	3074-76-8	50.761	597.50	1.2222	160.16	597.50	2	298.15	21.81
18193	C9H20	3-ethyl-4-methylhexane	3074-77-9	51.135	593.70	1.2222	160.16	593.70	2	298.15	21.80
18194	C9H20	2,2,3-trimethylhexane	16747-25-4	50.899	588.00	1.2222	153.16	588.00	2	298.15	21.44
18195	C9H20	2,2,4-trimethylhexane	16747-26-5	51.624	573.50	1.2222	153.00	573.50	2	298.15	21.06
18196	C9H20	2,2,5-trimethylhexane	3522-94-9	47.943	568.05	1.2025	167.39	568.05	1,2	298.15	19.59

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
18197	C9H20	2,3,3-trimethylhexane	16747-28-7	50.560	596.00	1.2222	156.36	596.00	2	298.15	21.66
18198	C9H20	2,3,4-trimethylhexane	921-47-1	50.884	594.50	1.2222	156.36	594.50	2	298.15	21.73
18199	C9H20	2,3,5-trimethylhexane	1069-53-0	51.595	579.20	1.2222	145.36	579.20	2	298.15	21.32
18200	C9H20	2,4,4-trimethylhexane	16747-30-1	51.242	581.50	1.2222	159.78	581.50	2	298.15	21.28
18201	C9H20	3,3,4-trimethylhexane	16747-31-2	50.256	602.30	1.2222	171.96	602.30	2	298.15	21.80
18202	C9H20	3,3-diethylpentane	1067-20-5	53.366	610.05	1.2360	240.12	610.05	1,2	298.15	23.29
18203	C9H20	2,2-dimethyl-3-ethylpentane	16747-32-3	53.580	590.00	1.2701	173.68	590.00	1,2	298.15	21.92
18204	C9H20	2,3-dimethyl-3-ethylpentane	16747-33-4	50.311	606.80	1.2222	173.67	606.80	2	298.15	22.02
18205	C9H20	2,4-dimethyl-3-ethylpentane	1068-87-7	53.703	591.00	1.2494	150.79	591.00	1,2	298.15	22.34
18206	C9H20	2,2,3,3-tetramethylpentane	7154-79-2	51.726	610.85	1.2143	263.26	610.85	1,2	298.15	22.94
18207	C9H20	2,2,3,4-tetramethylpentane	1186-53-4	49.472	592.15	1.1857	152.06	592.15	1,2	298.15	21.57
18208	C9H20	2,2,4,4-tetramethylpentane	1070-87-7	50.150	571.35	1.2522	206.61	571.35	1,2	298.15	19.91
18209	C9H20	2,3,3,4-tetramethylpentane	16747-38-9	49.875	607.50	1.2222	171.10	607.50	2	298.15	21.86
18210	C9H20	3,3-dimethylheptane	4032-86-4	51.273	588.85	1.2222	170.97	588.85	2	298.15	21.64
18236	C9H20O	1-nonanol	143-08-8	44.673	673.00	0.8000	268.15	673.00	1,2	298.15	27.97
18237	C9H20O	2-nonanol	628-99-9	47.652	623.00	0.8000	238.15	623.00	2	298.15	28.30
18238	C9H20O	2-nonanol, (±)	74683-66-2	47.756	614.43	0.8000	238.15	614.43	2	298.15	28.07
18239	C9H20O	3-nonanol	624-51-1	47.506	620.40	0.8000	295.15	620.40	2	298.15	28.13
18240	C9H20O	3-nonanol, (±)	74742-08-8	47.873	614.43	0.8000	295.15	614.43	2	298.15	28.14
18241	C9H20O	4-nonanol	5932-79-6	47.501	618.15	0.8000	236.51	618.15	2	298.15	28.05
18242	C9H20O	4-nonanol, (S)	52708-03-9	47.676	614.43	0.8000	240.06	614.43	2	298.15	28.03
18243	C9H20O	5-nonanol	623-93-8	47.507	620.93	0.8000	278.75	620.93	2	298.15	28.15
18244	C9H20O	2-methyl-1-octanol	818-81-5	47.519	627.23	0.8000	236.51	627.23	2	298.15	28.36
18245	C9H20O	3-methyl-1-octanol	38514-02-2	47.519	627.23	0.8000	236.51	627.23	2	298.15	28.36
18246	C9H20O	4-methyl-1-octanol	38514-03-3	47.519	627.23	0.8000	236.51	627.23	2	298.15	28.36
18247	C9H20O	5-methyl-1-octanol	38514-04-4	47.519	627.23	0.8000	236.51	627.23	2	298.15	28.36
18248	C9H20O	6-methyl-1-octanol	38514-05-5	47.532	635.39	0.8000	236.51	635.39	2	298.15	28.64
18249	C9H20O	7-methyl-1-octanol	2430-22-0	47.532	635.39	0.8000	337.65	635.39	2	337.65	25.92
18250	C9H20O	2-methyl-2-octanol	628-44-4	47.082	604.24	0.8000	253.93	604.24	2	298.15	27.33
18251	C9H20O	3-methyl-2-octanol	27644-49-1	47.280	605.01	0.8000	221.51	605.01	2	298.15	27.47
18252	C9H20O	5-methyl-2-octanol	66793-81-5	47.280	605.01	0.8000	221.51	605.01	2	298.15	27.47
18253	C9H20O	7-methyl-2-octanol	66793-83-7	47.280	605.01	0.8000	221.51	605.01	2	298.15	27.47
18254	C9H20O	2-methyl-3-octanol	26533-34-6	47.293	609.21	0.8000	221.51	609.21	2	298.15	27.62
18255	C9H20O	3-methyl-3-octanol	5340-36-3	47.136	618.98	0.8000	253.93	618.98	2	298.15	27.86
18256	C9H20O	4-methyl-3-octanol	66793-80-4	47.301	611.68	0.8000	221.51	611.68	2	298.15	27.71
18257	C9H20O	6-methyl-3-octanol	40225-75-0	47.301	611.68	0.8000	221.51	611.68	2	298.15	27.71
18258	C9H20O	7-methyl-3-octanol	66793-84-8	47.301	611.68	0.8000	221.51	611.68	2	298.15	27.71
18259	C9H20O	2-methyl-4-octanol	40575-41-5	47.293	609.21	0.8000	221.51	609.21	2	298.15	27.62
18260	C9H20O	3-methyl-4-octanol	26533-35-7	47.276	603.88	0.8000	221.51	603.88	2	298.15	27.43
18261	C9H20O	4-methyl-4-octanol	23418-37-3	47.097	608.26	0.8000	253.93	608.26	2	298.15	27.47
18262	C9H20O	5-methyl-4-octanol	59734-23-5	47.284	606.35	0.8000	221.51	606.35	2	298.15	27.52
18263	C9H20O	6-methyl-4-octanol	66793-82-6	47.284	606.35	0.8000	221.51	606.35	2	298.15	27.52
18264	C9H20O	7-methyl-4-octanol	33933-77-6	47.284	606.35	0.8000	221.51	606.35	2	298.15	27.52
18265	C9H20O	2-ethyl-1-heptanol	817-60-7	47.516	625.91	0.8000	236.51	625.91	2	298.15	28.32
18266	C9H20O	3-ethyl-1-heptanol	3525-25-5	47.534	636.71	0.8000	236.51	636.71	2	298.15	28.68
18267	C9H20O	5-ethyl-1-heptanol	998-65-2	47.516	625.91	0.8000	236.51	625.91	2	298.15	28.32
18268	C9H20O	2,2-dimethyl-1-heptanol	14250-79-4	47.149	623.00	0.8000	253.93	623.00	2	298.15	28.00
18269	C9H20O	4,6-dimethyl-1-heptanol	820-05-3	47.284	606.35	0.8000	221.51	606.35	2	298.15	27.52
18270	C9H20O	6,6-dimethyl-1-heptanol	65769-10-0	47.101	609.40	0.8000	253.93	609.40	2	298.15	27.52
18271	C9H20O	2-ethyl-2-heptanol	5340-36-3	47.101	609.40	0.8000	253.93	609.40	2	298.15	27.52
18272	C9H20O	3-ethyl-2-heptanol	19780-39-3	47.284	606.35	0.8000	221.51	606.35	2	298.15	27.52
18273	C9H20O	2,3-dimethyl-2-heptanol	66794-00-1	46.913	612.62	0.8000	238.93	612.62	2	298.15	27.52
18274	C9H20O	2,4-dimethyl-2-heptanol	65822-93-7	46.913	612.62	0.8000	238.93	612.62	2	298.15	27.52
18275	C9H20O	2,5-dimethyl-2-heptanol	---	46.913	612.62	0.8000	238.93	612.62	2	298.15	27.52
18276	C9H20O	2,6-dimethyl-2-heptanol	13254-34-7	46.846	598.01	0.8000	238.93	598.01	2	298.15	26.97
18277	C9H20O	4,6-dimethyl-2-heptanol	51079-52-8	47.155	625.72	0.8000	206.51	625.72	2	298.15	28.10
18278	C9H20O	5,6-dimethyl-2-heptanol	58795-24-7	47.146	623.04	0.8000	206.51	623.04	2	298.15	28.00
18279	C9H20O	3-ethyl-3-heptanol	19780-41-7	47.103	609.87	0.8000	253.93	609.87	2	298.15	27.53
18280	C9H20O	2,2-dimethyl-3-heptanol	19549-70-3	46.889	607.23	0.8000	238.93	607.23	2	298.15	27.32
18281	C9H20O	2,3-dimethyl-3-heptanol	19549-71-4	46.865	602.05	0.8000	238.93	602.05	2	298.15	27.12
18282	C9H20O	2,6-dimethyl-3-heptanol	19549-73-6	47.063	600.27	0.8000	206.51	600.27	2	298.15	27.17
18283	C9H20O	3,5-dimethyl-3-heptanol	19549-74-7	46.883	605.89	0.8000	238.93	605.89	2	298.15	27.27
18284	C9H20O	3,6-dimethyl-3-heptanol	1573-28-0	46.545	605.89	0.8000	238.93	605.89	2	298.15	27.07
18285	C9H20O	4-ethyl-4-heptanol	597-90-0	47.087	605.58	0.8000	253.93	605.58	2	298.15	27.38
18286	C9H20O	2,2-dimethyl-4-heptanol	66793-99-5	46.865	602.05	0.8000	238.93	602.05	2	298.15	27.12
18287	C9H20O	2,4-dimethyl-4-heptanol	19549-77-0	46.848	598.55	0.8000	238.93	598.55	2	298.15	26.99
18288	C9H20O	2,6-dimethyl-4-heptanol	108-82-7	47.144	603.00	0.8000	208.00	603.00	2	298.15	27.32
18289	C9H20O	3,3-dimethyl-4-heptanol	19549-78-1	46.877	604.74	0.8000	238.93	604.74	2	298.15	27.22
18290	C9H20O	3,5-dimethyl-4-heptanol	19549-79-2	47.124	616.34	0.8000	206.51	616.34	2	298.15	27.77
18291	C9H20O	2-propyl-1-hexanol	817-46-9	47.489	612.65	0.8000	236.51	612.65	2	298.15	27.86
18292	C9H20O	3-propyl-1-hexanol	66793-85-9	47.489	612.65	0.8000	236.51	612.65	2	298.15	27.86
18293	C9H20O	1-methyl-2-ethyl-1-hexanol	---	47.312	615.67	0.8000	221.51	615.67	2	298.15	27.86
18294	C9H20O	1-methyl-3-ethyl-1-hexanol	---	47.324	619.87	0.8000	221.51	619.87	2	298.15	28.00
18295	C9H20O	3-methyl-2-ethyl-1-hexanol	66794-04-5	47.339	621.00	0.8000	221.51	621.00	2	298.15	28.05
18296	C9H20O	4-methyl-2-ethyl-1-hexanol	66794-06-7	47.334	623.87	0.8000	221.51	623.87	2	298.15	28.14
18297	C9H20O	5-methyl-2-ethyl-1-hexanol	66794-07-8	47.327	621.00	0.8000	221.51	621.00	2	298.15	28.04
18298	C9H20O	3,3,5-trimethyl-1-hexanol	1484-87-3	46.972	627.43	0.8000	238.93	627.43	2	298.15	28.04
18299	C9H20O	3,4,4-trimethyl-1-hexanol	66793-73-5	46.963	624.94	0.8000	238.93	624.94	2	298.15	27.96
18300	C9H20O	3,5,5-trimethyl-1-hexanol	3452-97-9	46.973	627.63	0.8000	238.93	627.63	2	298.15	28.05
18301	C9H20O	4,5,5-trimethyl-1-hexanol	66793-75-7	47.014	639.75	0.8000	238.93	639.75	2	298.15	28.46

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
18302	C9H20O	2-methyl-3-ethyl-2-hexanol	66794-02-3	46.890	607.43	0.8000	238.93	607.43	2	298.15	27.33
18303	C9H20O	2,3,4-trimethyl-2-hexanol	21102-13-6	46.788	630.85	0.8000	223.93	630.85	2	298.15	28.04
18304	C9H20O	2,4,4-trimethyl-2-hexanol	66793-91-7	46.604	634.35	0.8000	256.35	634.35	2	298.15	28.04
18305	C9H20O	2,4,5-trimethyl-2-hexanol	66793-93-9	46.788	630.85	0.8000	223.93	630.85	2	298.15	28.04
18306	C9H20O	2,5,5-trimethyl-2-hexanol	66793-71-3	46.604	634.35	0.8000	256.35	634.35	2	298.15	28.04
18307	C9H20O	2-methyl-3-ethyl-3-hexanol	66794-03-4	46.926	615.65	0.8000	238.93	615.65	2	298.15	27.63
18308	C9H20O	2-methyl-4-ethyl-3-hexanol	33943-21-4	47.083	605.43	0.8000	206.51	605.43	2	298.15	27.37
18309	C9H20O	3-methyl-4-ethyl-3-hexanol	66794-05-6	46.895	608.58	0.8000	238.93	608.58	2	298.15	27.37
18310	C9H20O	4-methyl-3-ethyl-3-hexanol	51200-80-7	46.895	608.58	0.8000	238.93	608.58	2	298.15	27.37
18311	C9H20O	5-methyl-3-ethyl-3-hexanol	597-77-3	46.852	599.36	0.8000	238.93	599.36	2	298.15	27.02
18312	C9H20O	2,2,3-trimethyl-3-hexanol	5340-41-0	46.460	607.47	0.8000	256.35	607.47	2	298.15	27.08
18313	C9H20O	2,2,4-trimethyl-3-hexanol	66793-89-3	46.630	598.56	0.8000	223.93	598.56	2	298.15	26.86
18314	C9H20O	2,2,5-trimethyl-3-hexanol	3970-60-3	46.559	586.38	0.8000	290.15	586.38	2	298.15	26.38
18315	C9H20O	2,3,4-trimethyl-3-hexanol	66793-90-6	46.605	594.30	0.8000	223.93	594.30	2	298.15	26.70
18316	C9H20O	2,3,5-trimethyl-3-hexanol	65927-60-8	46.605	594.30	0.8000	223.93	594.30	2	298.15	26.70
18317	C9H20O	2,4,4-trimethyl-3-hexanol	66793-92-8	46.644	601.27	0.8000	223.93	601.27	2	298.15	26.97
18318	C9H20O	2,5,5-trimethyl-3-hexanol	66793-72-4	46.628	598.36	0.8000	223.93	598.36	2	298.15	26.85
18319	C9H20O	3,4,4-trimethyl-3-hexanol	66793-74-6	46.401	597.80	0.8000	296.65	597.80	2	298.15	26.70
18320	C9H20O	3,5,5-trimethyl-3-hexanol	66810-87-5	46.399	597.60	0.8000	256.35	597.60	2	298.15	26.70
18321	C9H20O	4-methyl-2-propyl-1-pentanol	54004-41-0	47.263	620.94	0.8000	222.88	620.94	2	298.15	28.00
18322	C9H20O	4-methyl-2-isopropyl-1-pentanol	55505-24-3	47.186	615.26	0.8000	205.14	615.26	2	298.15	27.77
18323	C9H20O	2,2-dimethyl-3-ethyl-1-pentanol	66793-95-1	46.946	620.70	0.8000	238.93	620.70	2	298.15	27.81
18324	C9H20O	2,4-dimethyl-2-ethyl-1-pentanol	66793-98-4	46.947	620.90	0.8000	238.93	620.90	2	298.15	27.82
18325	C9H20O	3,3-diethyl-2-pentanol	66793-94-0	46.946	620.70	0.8000	238.93	620.70	2	298.15	27.81
18326	C9H20O	2,3-dimethyl-3-ethyl-2-pentanol	66793-97-3	46.571	627.54	0.8000	256.35	627.54	2	298.15	27.81
18327	C9H20O	4,4-dimethyl-3-ethyl-2-pentanol	21102-09-0	46.759	624.08	0.8000	223.93	624.08	2	298.15	27.81
18328	C9H20O	2,3,3,4-tetramethyl-2-pentanol	66793-86-0	46.313	620.23	0.8000	241.35	620.23	2	298.15	27.42
18329	C9H20O	2,3,4,4-tetramethyl-2-pentanol	66793-87-1	46.313	620.23	0.8000	241.35	620.23	2	298.15	27.42
18330	C9H20O	3,3,4,4-tetramethyl-2-pentanol	66793-88-2	46.314	620.44	0.8000	323.15	620.44	2	323.15	25.71
18331	C9H20O	2-methyl-3-isopropyl-3-pentanol	---	46.762	609.60	0.8000	222.56	609.60	2	298.15	27.33
18332	C9H20O	2,2-dimethyl-3-ethyl-3-pentanol	66793-96-2	46.467	608.69	0.8000	254.15	608.69	2	298.15	27.12
18333	C9H20O	2,4-dimethyl-3-ethyl-3-pentanol	3970-59-0	46.694	610.61	0.8000	257.15	610.61	2	298.15	27.32
18334	C9H20O	2,2,3,4-tetramethyl-3-pentanol	62185-29-9	46.264	612.50	0.8000	285.95	612.50	2	298.15	27.13
18335	C9H20O	2,2,4,4-tetramethyl-3-pentanol	14609-79-1	46.198	602.64	0.8000	323.15	602.64	2	323.15	24.98
18336	C9H20O	ethyl heptyl ether	1969-43-3	55.945	592.67	1.2222	204.85	592.67	2	298.15	23.80
18339	C9H20O2	1,2-nonanediol	42789-13-9	101.865	684.73	1.2222	297.33	684.73	2	298.15	50.65
18340	C9H20O2	1,3-nonanediol	23433-07-0	101.086	698.70	1.2222	297.33	698.70	2	298.15	51.21
18341	C9H20O2	1,4-nonanediol	2430-73-1	99.712	725.37	1.2222	297.33	725.37	2	298.15	52.21
18342	C9H20O2	1,9-nonanediol	3937-56-2	100.823	706.66	1.2222	318.15	706.66	2	318.15	48.53
18343	C9H20O2	2-butyl-2-ethyl-1,3-propanediol	115-84-4	98.900	703.86	1.2222	316.95	703.86	2	316.95	47.60
18347	C9H20O2	heptyloxyethanol	7409-44-1	51.118	654.00	1.2222	216.00	654.00	2	298.15	24.30
18348	C9H20O2	2-(1-ethylamyloxy)ethanol	10138-47-3	51.118	654.00	1.2222	216.00	654.00	2	298.15	24.30
18349	C9H20O2	2-ethylbutoxypropanol, mixed isomers	63716-41-6	51.118	654.00	1.2222	216.00	654.00	2	298.15	24.30
18361	C9H20O4S	methyl octyl sulfate	3539-29-5	56.401	766.86	1.2222	241.15	575.14	2	298.15	30.90
18365	C9H20S	nonyl mercaptan	1455-21-6	58.575	681.00	1.2222	253.05	681.00	2	298.15	28.97
18366	C9H20S	2-nonanethiol	13281-11-3	58.575	672.00	1.2222	204.15	672.00	2	298.15	28.61
18367	C9H20S	methyl octyl sulfide	3698-95-1	54.120	681.56	1.2222	231.16	681.56	2	298.15	26.79
18368	C9H20S	ethyl heptyl sulfide	24768-44-3	54.120	681.56	1.2222	231.16	681.56	2	298.15	26.79
18369	C9H20S	propyl hexyl sulfide	24768-43-2	54.120	681.56	1.2222	231.16	681.56	2	298.15	26.79
18370	C9H20S	butyl pentyl sulfide	24768-42-1	54.120	681.56	1.2222	231.16	681.56	2	298.15	26.79
18371	C9H20S	tert-nonyl mercaptan, isomers	25360-10-5	56.765	676.50	1.2222	228.60	676.50	2	298.15	27.90
18388	C9H21N	nonylamine	112-20-9	61.737	648.00	1.2222	273.15	648.00	2	298.15	29.06
18389	C9H21N	methyloctylamine	2439-54-5	55.350	630.60	1.2222	260.15	630.60	2	298.15	25.31
18390	C9H21N	ethylheptylamine	66793-76-8	55.588	622.20	1.2222	260.15	622.20	2	298.15	25.04
18391	C9H21N	dimethylheptylamine	5277-11-2	51.003	630.70	1.2222	195.45	630.70	2	298.15	23.33
18392	C9H21N	diethylpentylamine	2162-91-6	52.783	595.41	1.2222	195.45	595.41	2	298.15	22.58
18393	C9H21N	tripropylamine	102-69-2	50.127	577.50	1.1095	179.65	577.50	1,2	298.15	22.39
18394	C9H21N	tert-amyl-tert-butylamine	2085-66-7	52.004	617.40	1.2222	260.15	617.40	2	298.15	23.22
18395	C9H21N	N-methyldibutylamine	3405-45-6	50.952	617.40	1.2222	211.25	617.40	2	298.15	22.76
18396	C9H21NO	5-diethylamino-2-pentanol	5412-69-1	80.860	760.00	1.2222	270.00	760.00	2	298.15	43.99
18423	C9H22N2	N1,N1-diethyl-1,4-pentanediamine	140-80-7	66.988	741.00	1.2222	310.65	741.00	2	310.65	34.48
18424	C9H22N2	N,N,N',N'-tetraethylmethanediamine	102-53-4	63.849	741.00	1.2222	310.65	741.00	2	310.65	32.86
18425	C9H22N2	1,9-diaminononane	646-24-2	70.927	741.00	1.2222	310.65	741.00	2	310.65	36.51
18426	C9H22N2	N,N'-diisopropyl-1,3-propanediamine	63737-71-3	68.027	741.00	1.2222	310.65	741.00	2	310.65	35.01
18427	C9H22N2	2,2,4(2,4,4)-trimethyl-1,6-hexanediamine	25620-58-0	69.284	741.00	1.2222	310.65	741.00	2	310.65	35.66
18598	C10H6O8	pyromellitic acid	89-05-4	150.910	893.00	1.2222	554.00	893.00	2	554.00	46.19
18601	C10H7Br	1-bromonaphthalene	90-11-9	74.670	824.00	1.1580	279.35	824.00	1,2	298.15	44.39
18606	C10H7Cl	1-chloronaphthalene	90-13-1	70.332	785.00	1.2222	269.15	785.00	2	298.15	39.23
18607	C10H7Cl	2-chloronaphthalene	91-58-7	68.701	785.00	1.2222	331.15	785.00	2	331.15	35.17
18608	C10H7Cl	monochloronaphthalene	25586-43-0	70.182	785.00	1.2222	300.15	785.00	2	300.15	38.95
18669	C10H8	naphthalene	91-20-3	83.190	748.35	1.3896	354.10	748.35	1,2	354.10	34.14
18670	C10H8	azulene	275-51-4	75.029	773.48	1.2222	373.00	773.48	2	373.00	33.56
18849	C10H9N	2-methylquinoline	91-63-4	77.486	773.00	1.2222	272.15	773.00	2	298.15	42.71
18850	C10H9N	3-methylquinoline	612-58-8	77.839	770.99	1.2222	337.15	770.99	2	337.15	38.55
18851	C10H9N	4-methylquinoline	491-35-0	76.833	790.59	1.2222	282.15	790.59	2	298.15	43.08
18852	C10H9N	5-methylquinoline	7661-55-4	77.246	782.28	1.2222	292.15	782.28	2	298.15	42.97
18853	C10H9N	6-methylquinoline	91-62-3	76.873	789.75	1.2222	305.55	789.75	2	305.55	42.28
18854	C10H9N	7-methylquinoline	612-60-2	77.417	778.95	1.2222	311.15	778.95	2	311.15	41.51
18855	C10H9N	8-methylquinoline	611-32-5	78.193	764.56	1.2222	246.50	764.56	2	298.15	42.74
18856	C10H9N	1-methylisoquinoline	1721-93-3	77.109	778.59	1.2222	283.15	778.59	2	298.15	42.74

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
18857	C10H9N	3-methylisoquinoline	1125-80-0	77.143	778.59	1.2222	341.15	778.59	2	341.15	38.13
18858	C10H9N	4-methylisoquinoline	1196-39-0	77.384	778.59	1.2222	318.90	778.59	2	318.90	40.64
18859	C10H9N	6-methylisoquinoline	42398-73-2	77.713	778.59	1.2222	358.65	778.59	2	358.65	36.54
18860	C10H9N	8-methylisoquinoline	62882-00-2	77.453	778.59	1.2222	478.15	778.59	2	478.15	24.19
18958	C10H10	m-divinylbenzene	108-57-6	63.453	692.00	1.2222	206.25	692.00	2	298.15	31.86
18963	C10H10	1-methylindene	767-59-9	66.229	703.00	1.2222	353.15	703.00	2	353.15	28.22
18964	C10H10	2-methylindene	2177-47-1	65.148	684.00	1.2222	353.15	684.00	2	353.15	26.82
19195	C10H10O4	dimethyl phthalate	131-11-3	75.166	766.00	1.2222	274.18	766.00	2	298.15	41.15
19196	C10H10O4	dimethyl terephthalate	120-61-6	75.326	772.00	1.2222	415.40	772.00	2	415.40	29.31
19358	C10H12	1,3-dicyclopentadiene	77-73-6	57.296	660.00	1.2222	307.00	660.00	2	307.00	26.67
19359	C10H12	1,2,3,4-tetrahydronaphthalene	119-64-2	64.027	720.15	1.2312	237.36	720.15	1,2	298.15	33.16
19360	C10H12	cis-(1-butenyl)benzene	1560-09-4	61.896	678.55	1.2222	232.31	678.55	2	298.15	30.51
19361	C10H12	trans-(1-butenyl)benzene	1005-64-7	60.363	692.76	1.2222	230.15	692.76	2	298.15	30.34
19362	C10H12	cis-(1-methyl-1-propenyl)benzene	767-99-7	64.072	660.85	1.2222	232.31	660.85	2	298.15	30.78
19363	C10H12	trans-(1-methyl-1-propenyl)benzene	768-00-3	60.608	691.44	1.2222	249.65	691.44	2	298.15	30.41
19364	C10H12	(2-methyl-1-propenyl)benzene	768-49-0	61.686	681.41	1.2222	222.05	681.41	2	298.15	30.53
19365	C10H12	cis-1-methyl-2-(1-propenyl)benzene	2077-33-0	61.423	682.61	1.2222	232.31	682.61	2	298.15	30.45
19366	C10H12	cis-1-methyl-3-(1-propenyl)benzene	2077-31-8	61.423	682.61	1.2222	232.31	682.61	2	298.15	30.45
19367	C10H12	cis-1-methyl-4-(1-propenyl)benzene	2077-29-4	60.856	687.86	1.2222	232.31	687.86	2	298.15	30.39
19368	C10H12	trans-1-methyl-4-(1-propenyl)benzene	2077-30-7	60.089	695.19	1.2222	255.15	695.19	2	298.15	30.30
19369	C10H12	1-methyl-2-(1-methylethenyl)benzene	7399-49-7	67.060	647.11	1.2222	232.31	647.11	2	298.15	31.53
19370	C10H12	1-methyl-3-(1-methylethenyl)benzene	1124-20-5	64.676	665.71	1.2222	232.31	665.71	2	298.15	31.29
19371	C10H12	1-methyl-4-(1-methylethenyl)benzene	1195-32-0	64.499	667.16	1.2222	204.85	667.16	2	298.15	31.28
19372	C10H12	o-ethylstyrene	7564-63-8	63.924	672.78	1.2222	197.65	672.78	2	298.15	31.25
19373	C10H12	m-ethylstyrene	7525-62-4	63.455	676.81	1.2222	172.15	676.81	2	298.15	31.20
19374	C10H12	p-ethylstyrene	3454-07-7	63.079	680.10	1.2222	223.45	680.10	2	298.15	31.16
19375	C10H12	1-ethenyl-2,4-dimethylbenzene	2234-20-0	61.588	693.48	1.2222	208.85	693.48	2	298.15	30.99
19376	C10H12	1-ethenyl-3,5-dimethylbenzene	5379-20-4	63.142	679.34	1.2222	212.95	679.34	2	298.15	31.16
19377	C10H12	2-ethenyl-1,3-dimethylbenzene	2039-90-9	63.142	679.34	1.2222	234.55	679.34	2	298.15	31.16
19378	C10H12	2-ethenyl-1,4-dimethylbenzene	2039-89-6	63.041	680.23	1.2222	237.75	680.23	2	298.15	31.15
19379	C10H12	4-ethenyl-1,2-dimethylbenzene	27831-13-6	63.142	679.34	1.2222	232.75	679.34	2	298.15	31.16
19380	C10H12	2,3-dimethylstyrene	40243-75-2	63.142	679.34	1.2222	232.31	679.34	2	298.15	31.16
19381	C10H12	3,4-dimethylstyrene	---	63.142	679.34	1.2222	232.31	679.34	2	298.15	31.16
19382	C10H12	2,6-dimethylstyrene	2039-90-9	63.142	679.34	1.2222	232.31	679.34	2	298.15	31.16
19383	C10H12	3,5-dimethylstyrene	80648-26-6	63.142	679.34	1.2222	232.31	679.34	2	298.15	31.16
19384	C10H12	2-butenylbenzene	1560-06-1	61.494	682.45	1.2222	232.01	682.45	1,2	298.15	30.48
19385	C10H12	3-butenylbenzene	768-56-9	61.985	682.45	1.2222	203.15	682.45	2	298.15	30.72
19386	C10H12	1-methyl-2-allylbenzene	1587-04-8	61.789	682.45	1.2222	232.01	682.45	2	298.15	30.63
19387	C10H12	(1-methylenepropyl)benzene	2039-93-2	62.798	671.26	1.2222	232.31	671.26	2	298.15	30.63
19397	C10H12	trans-1-butenylbenzene	824-90-8	61.526	682.45	1.2222	230.15	682.45	2	298.15	30.50
19398	C10H12	a,2-dimethylstyrene	26444-18-8	64.004	675.92	1.2222	221.25	675.92	2	298.15	31.43
19484	C10H12O	anethole	104-46-1	67.035	723.00	1.2222	294.50	723.00	2	298.15	35.00
19562	C10H12O2	2-isopropylbenzoic acid	2438-04-2	78.980	716.55	1.2222	337.15	537.41	2	337.15	36.31
19563	C10H12O2	4-isopropylbenzoic acid	536-66-3	78.980	716.55	1.2222	390.65	537.41	2	390.65	30.15
19584	C10H12O2	2-propylbenzoic acid	2438-03-1	77.081	775.53	1.2222	331.15	581.65	2	331.15	39.03
19610	C10H12O2	4-propylbenzoic acid	2438-05-3	78.980	716.55	1.2222	416.15	537.41	2	416.15	27.29
19614	C10H12O2	2,4,6-trimethylbenzoic acid	480-63-7	78.980	716.55	1.2222	427.15	537.41	2	427.15	26.08
19618	C10H12O2	3-(1-methylethyl)benzoic acid	5651-47-8	78.980	716.55	1.2222	324.70	537.41	2	324.70	37.77
19619	C10H12O2	2,3,4-trimethylbenzoic acid	1076-47-7	78.980	716.55	1.2222	378.80	537.41	2	378.80	31.50
19620	C10H12O2	3,4,5-trimethylbenzoic acid	1076-88-6	78.980	716.55	1.2222	378.80	537.41	2	378.80	31.50
19621	C10H12O2	2,3,5-trimethylbenzoic acid	2437-66-3	78.980	716.55	1.2222	378.80	537.41	2	378.80	31.50
19622	C10H12O2	2,3,6-trimethylbenzoic acid	2529-36-4	78.980	716.55	1.2222	378.80	537.41	2	378.80	31.50
19623	C10H12O2	2,4,5-trimethylbenzoic acid	528-90-5	78.980	716.55	1.2222	424.65	537.41	2	424.65	26.35
19675	C10H12O4	diallyl maleate	999-21-3	69.860	693.00	1.2222	226.15	693.00	2	298.15	35.13
19707	C10H13Br	1-bromo-4-tert-butylbenzene	3972-65-4	74.599	716.60	1.2222	292.15	537.45	2	298.15	38.65
19708	C10H13Br	2-bromo-1-methyl-4-isopropylbenzene	2437-76-5	74.443	720.58	1.2222	291.32	540.43	2	298.15	38.76
19709	C10H13Br	1-bromo-4-butylbenzene	41492-05-1	73.926	734.07	1.2222	247.65	550.55	2	298.15	39.10
19710	C10H13Br	1-bromo-2,3,5,6-tetramethylbenzene	1646-53-3	74.320	723.75	1.2222	334.15	542.81	2	334.15	34.86
19718	C10H13Cl	1-chloro-4-tert-butylbenzene	3972-56-3	71.440	690.33	1.2222	309.15	517.75	2	309.15	34.57
19719	C10H13Cl	(2-chloro-1,1-dimethylethyl)benzene	515-40-2	70.882	704.53	1.2222	309.15	528.40	2	309.15	34.99
19720	C10H13Cl	2-chloro-1-methyl-4-isopropylbenzene	4395-79-3	71.242	695.30	1.2222	309.15	521.48	2	309.15	34.72
19721	C10H13Cl	2-chloro-4-methyl-1-isopropylbenzene	4395-80-6	71.270	694.59	1.2222	309.15	520.94	2	309.15	34.70
19722	C10H13Cl	a-2-chloroisodurene	1585-16-6	71.207	696.19	1.2222	309.15	522.14	2	309.15	34.74
19723	C10H13Cl	1-chloro-4-phenylbutane	4830-93-7	71.207	696.19	1.2222	309.15	522.14	2	309.15	34.74
19865	C10H14	butylbenzene	104-51-8	64.900	660.55	1.3630	185.30	660.55	1,2	298.15	28.63
19866	C10H14	isobutylbenzene	538-93-2	59.283	650.15	1.2833	221.70	650.15	1,2	298.15	26.98
19867	C10H14	sec-butylbenzene	135-98-8	61.160	664.54	1.3111	197.72	664.54	1,2	298.15	28.02
19868	C10H14	tert-butylbenzene	98-06-6	61.234	660.00	1.3242	215.00	660.00	1,2	298.15	27.63
19869	C10H14	cymene	25155-15-1	55.135	664.65	1.2222	205.25	664.65	1,2	298.15	26.64
19870	C10H14	m-cymene	535-77-3	60.360	657.00	1.2222	209.44	657.00	2	298.15	28.82
19871	C10H14	o-cymene	527-84-4	59.983	662.00	1.2222	201.64	662.00	2	298.15	28.86
19872	C10H14	p-cymene	99-87-6	60.779	653.15	1.2222	204.20	653.15	2	298.15	28.85
19873	C10H14	1-methyl-2-propylbenzene	1074-17-5	60.283	660.70	1.2222	212.85	660.70	2	298.15	28.95
19874	C10H14	1-methyl-3-propylbenzene	1074-43-7	60.603	656.40	1.2222	190.57	656.40	2	298.15	28.91
19875	C10H14	1-methyl-4-propylbenzene	1074-55-1	60.363	658.50	1.2222	212.46	658.50	2	298.15	28.89
19876	C10H14	(S)-(1-methylpropyl)benzene	5787-28-0	59.899	664.65	1.2222	221.30	664.65	2	298.15	28.94
19877	C10H14	diethylbenzene	25340-17-4	59.844	664.65	1.2222	221.30	664.65	2	298.15	28.91
19878	C10H14	o-diethylbenzene	135-01-3	64.546	668.00	1.3093	241.93	668.00	1,2	298.15	29.76
19879	C10H14	m-diethylbenzene	141-93-5	64.340	663.00	1.2905	189.26	663.00	1,2	298.15	29.77
19880	C10H14	p-diethylbenzene	105-05-5	63.820	657.96	1.3373	230.32	657.96	1,2	298.15	28.47

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
19881	C10H14	3-ethyl-o-xylene	933-98-2	58.843	680.00	1.2222	223.64	680.00	2	298.15	29.07
19882	C10H14	4-ethyl-o-xylene	934-80-5	59.845	667.00	1.2222	206.22	667.00	2	298.15	29.01
19883	C10H14	2-ethyl-m-xylene	2870-04-4	59.501	671.00	1.2222	256.89	671.00	2	298.15	29.02
19884	C10H14	4-ethyl-m-xylene	874-41-9	59.987	665.00	1.2222	210.27	665.00	2	298.15	28.99
19885	C10H14	5-ethyl-m-xylene	934-74-7	60.783	655.00	1.2222	188.82	655.00	2	298.15	28.93
19886	C10H14	2-ethyl-p-xylene	1758-88-9	60.124	663.00	1.2222	219.52	663.00	2	298.15	28.97
19887	C10H14	1,2,3,4-tetramethylbenzene	488-23-3	57.932	695.10	1.2222	265.40	695.10	2	298.15	29.21
19888	C10H14	1,2,3,5-tetramethylbenzene	527-53-7	59.032	679.00	1.2222	249.46	679.00	2	298.15	29.12
19889	C10H14	1,2,4,5-tetramethylbenzene	95-93-2	59.325	675.15	1.2222	352.05	675.15	2	352.05	24.10
19891	C10H14	2,7-dimethyl-3,5-octadiyne	14813-68-4	61.616	649.08	1.2222	266.80	486.81	2	298.15	29.06
19893	C10H14	1,9-decadiyne	1720-38-3	61.616	649.08	1.2222	266.80	486.81	2	298.15	29.06
19894	C10H14	4,6-decadiyne	16387-71-6	61.616	649.08	1.2222	266.80	486.81	2	298.15	29.06
19982	C10H14O	3-butylphenol	4074-43-5	63.037	742.23	1.2222	342.75	742.23	2	342.75	29.56
19983	C10H14O	4-butylphenol	1638-22-8	62.879	743.65	1.2222	295.15	743.65	2	298.15	33.62
19984	C10H14O	2-isobutylphenol	4167-75-3	64.292	733.00	1.2222	294.15	733.00	2	298.15	33.96
19985	C10H14O	3-isobutylphenol	30749-25-8	64.292	733.00	1.2222	327.75	733.00	2	327.75	31.16
19986	C10H14O	4-isobutylphenol	4167-74-2	64.267	733.21	1.2222	324.15	733.21	2	324.15	31.49
19987	C10H14O	2-sec-butylphenol	89-72-5	65.791	720.28	1.2222	289.15	720.28	2	298.15	34.24
19988	C10H14O	3-sec-butylphenol	3522-86-9	64.292	733.00	1.2222	327.75	733.00	2	327.75	31.16
19989	C10H14O	4-sec-butylphenol	99-71-8	63.440	740.54	1.2222	332.15	740.54	2	332.15	30.65
19990	C10H14O	2-tert-butylphenol	88-18-6	65.630	725.38	1.2222	267.53	725.38	2	298.15	34.36
19991	C10H14O	3-tert-butylphenol	585-34-2	63.003	748.61	1.2222	314.15	748.61	2	314.15	32.40
19992	C10H14O	4-tert-butylphenol	98-54-4	63.046	748.21	1.2222	371.56	748.21	2	371.56	27.25
19993	C10H14O	2-methyl-3-propylphenol	66142-78-7	63.927	733.95	1.2222	326.38	733.95	2	326.38	31.15
19994	C10H14O	2-methyl-4-propylphenol	18441-56-0	63.903	734.16	1.2222	316.15	734.16	2	316.15	32.10
19995	C10H14O	2-methyl-5-propylphenol	499-75-2	63.927	733.95	1.2222	326.38	733.95	2	326.38	31.15
19996	C10H14O	2-methyl-6-propylphenol	---	63.927	733.95	1.2222	326.38	733.95	2	326.38	31.15
19997	C10H14O	3-methyl-2-propylphenol	3228-01-1	60.853	762.45	1.2222	326.38	762.45	2	326.38	30.74
19998	C10H14O	3-methyl-4-propylphenol	30388-40-0	60.853	762.45	1.2222	289.15	762.45	2	298.15	33.19
19999	C10H14O	3-methyl-5-propylphenol	36186-96-6	61.418	756.97	1.2222	284.15	756.97	2	298.15	33.31
20000	C10H14O	4-methyl-2-propylphenol	4074-46-8	59.045	780.80	1.2222	326.38	780.80	2	326.38	30.47
20001	C10H14O	4-methyl-3-propylphenol	---	59.045	780.80	1.2222	326.38	780.80	2	326.38	30.47
20002	C10H14O	5-methyl-2-propylphenol	89-83-8	59.045	780.80	1.2222	326.38	780.80	2	326.38	30.47
20003	C10H14O	2-methyl-3-isopropylphenol	4371-48-6	58.788	785.78	1.2222	311.38	785.78	2	311.38	31.73
20004	C10H14O	2-methyl-4-isopropylphenol	1740-97-2	58.811	785.78	1.2222	281.75	785.78	2	298.15	32.82
20005	C10H14O	2-methyl-5-isopropylphenol	499-75-2	64.337	732.26	1.2222	273.65	732.26	2	298.15	33.96
20006	C10H14O	2-methyl-6-isopropylphenol	3228-04-4	64.003	746.40	1.2222	258.65	746.40	2	298.15	34.32
20007	C10H14O	3-methyl-2-isopropylphenol	3228-01-1	65.864	719.35	1.2222	342.15	719.35	2	342.15	29.92
20008	C10H14O	3-methyl-4-isopropylphenol	3228-02-2	64.362	732.05	1.2222	385.15	732.05	2	385.15	25.84
20009	C10H14O	3-methyl-5-isopropylphenol	3228-03-3	63.685	738.01	1.2222	322.15	738.01	2	322.15	31.59
20010	C10H14O	4-methyl-2-isopropylphenol	4427-56-9	65.864	719.35	1.2222	308.15	719.35	2	308.15	33.25
20011	C10H14O	5-methyl-2-isopropylphenol	89-83-8	65.090	725.81	1.2222	322.85	725.81	2	322.85	31.71
20012	C10H14O	2,3-diethylphenol	---	65.603	719.70	1.2222	326.38	719.70	2	326.38	31.35
20013	C10H14O	2,4-diethylphenol	936-89-0	66.276	714.21	1.2222	326.38	714.21	2	326.38	31.42
20014	C10H14O	2,5-diethylphenol	876-20-0	66.480	712.57	1.2222	326.38	712.57	2	326.38	31.45
20015	C10H14O	2,6-diethylphenol	1006-59-3	68.102	699.96	1.2222	310.65	699.96	2	310.65	33.25
20016	C10H14O	3,4-diethylphenol	875-85-4	59.045	780.80	1.2222	326.38	780.80	2	326.38	30.47
20017	C10H14O	3,5-diethylphenol	1197-34-8	62.944	742.72	1.2222	349.15	742.72	2	349.15	28.96
20018	C10H14O	2,3-dimethyl-4-ethylphenol	---	64.822	725.91	1.2222	310.01	725.91	2	310.01	32.82
20019	C10H14O	2,3-dimethyl-5-ethylphenol	---	64.822	725.91	1.2222	310.01	725.91	2	310.01	32.82
20020	C10H14O	2,3-dimethyl-6-ethylphenol	---	64.822	725.91	1.2222	326.15	725.91	2	326.15	31.27
20021	C10H14O	2,4-dimethyl-3-ethylphenol	62126-74-3	63.994	733.03	1.2222	343.15	733.03	2	343.15	29.58
20022	C10H14O	2,4-dimethyl-5-ethylphenol	18441-55-9	63.970	733.24	1.2222	312.15	733.24	2	312.15	32.48
20023	C10H14O	2,4-dimethyl-6-ethylphenol	2219-79-6	66.527	711.89	1.2222	310.01	711.89	2	310.01	33.08
20024	C10H14O	2,5-dimethyl-3-ethylphenol	---	66.554	711.68	1.2222	310.01	711.68	2	310.01	33.08
20025	C10H14O	2,5-dimethyl-4-ethylphenol	32018-76-1	66.554	711.68	1.2222	312.15	711.68	2	312.15	32.86
20026	C10H14O	2,5-dimethyl-6-ethylphenol	---	66.554	711.68	1.2222	310.01	711.68	2	310.01	33.08
20027	C10H14O	2,6-dimethyl-3-ethylphenol	---	66.554	711.68	1.2222	310.01	711.68	2	310.01	33.08
20028	C10H14O	2,6-dimethyl-4-ethylphenol	10570-69-1	66.349	713.32	1.2222	309.15	713.32	2	309.15	33.13
20029	C10H14O	3,4-dimethyl-2-ethylphenol	---	63.994	733.03	1.2222	310.01	733.03	2	310.01	32.68
20030	C10H14O	3,4-dimethyl-5-ethylphenol	62126-75-4	63.970	733.24	1.2222	351.15	733.24	2	351.15	28.84
20031	C10H14O	3,4-dimethyl-6-ethylphenol	2219-78-5	63.994	733.03	1.2222	324.15	733.03	2	324.15	31.35
20032	C10H14O	3,5-dimethyl-2-ethylphenol	62126-76-5	60.913	761.50	1.2222	353.15	761.50	2	353.15	28.44
20033	C10H14O	3,5-dimethyl-4-ethylphenol	62126-77-6	61.331	757.44	1.2222	363.65	757.44	2	363.65	27.57
20034	C10H14O	2,3,4,5-tetramethylphenol	488-70-0	61.244	757.92	1.2222	355.15	757.92	2	355.15	28.28
20035	C10H14O	2,3,4,6-tetramethylphenol	3238-38-8	62.760	743.70	1.2222	353.15	743.70	2	353.15	28.56
20036	C10H14O	2,3,5,6-tetramethylphenol	527-35-5	63.074	740.86	1.2222	390.15	740.86	2	390.15	25.29
20037	C10H14O	2-butylphenol	3180-09-4	65.893	713.69	1.2222	253.15	713.69	2	298.15	34.02
20089	C10H14O2	p-tert-butylcatechol	98-29-3	97.918	776.00	1.2222	325.00	776.00	2	325.00	50.44
20178	C10H14S	4-tert-butylthiophenol	2396-68-1	73.378	755.00	1.2222	262.25	755.00	2	298.15	39.71
20179	C10H14S	2,4,6-trimethylbenzyl mercaptan	21411-42-7	73.378	755.00	1.2222	320.15	755.00	2	320.15	37.39
20195	C10H15N	N,N-dietyhlaniline	91-66-7	67.830	702.00	1.2222	235.15	702.00	1,2	298.15	34.51
20196	C10H15N	2,6-diethylaniline	579-66-8	70.613	678.00	1.2222	276.65	678.00	2	298.15	34.78
20197	C10H15N	2-sec-butylaniline	55751-54-7	70.519	690.00	1.2222	274.23	690.00	2	298.15	35.32
20198	C10H15N	2-tert-butylaniline	6310-21-0	69.692	690.00	1.2222	274.23	690.00	2	298.15	34.90
20199	C10H15N	4-butylaniline	104-13-2	65.492	690.00	1.2222	274.23	690.00	2	298.15	32.80
20200	C10H15N	4-sec-butylaniline	30273-11-1	69.054	690.00	1.2222	274.23	690.00	2	298.15	34.58
20201	C10H15N	4-tert-butylaniline	769-92-6	68.578	690.00	1.2222	290.15	690.00	2	298.15	34.34
20202	C10H15N	N-sec-butylaniline	6068-69-5	71.152	690.00	1.2222	274.23	690.00	2	298.15	35.63
20203	C10H15N	N-tert-butylaniline	937-33-7	72.809	690.00	1.2222	274.23	690.00	2	298.15	36.46

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
20204	C10H15N	N-butylaniline	1126-78-9	67.712	690.00	1.2222	258.75	690.00	1,2	298.15	33.91
20205	C10H15N	4-isobutylaniline	30090-17-6	69.213	690.00	1.2222	274.23	690.00	2	298.15	34.66
20206	C10H15N	N-isobutylaniline	588-47-6	70.014	690.00	1.2222	274.23	690.00	2	298.15	35.06
20207	C10H15N	4-methyl-N-isopropylaniline	10436-75-6	71.976	690.00	1.2222	274.23	690.00	2	298.15	36.05
20208	C10H15N	2-methyl-5-isopropylaniline	2051-53-8	68.578	690.00	1.2222	257.15	690.00	2	298.15	34.34
20209	C10H15N	4-methyl-N-propylaniline	54837-90-0	69.532	690.00	1.2222	274.23	690.00	2	298.15	34.82
20210	C10H15N	2,3,4,5-tetramethylaniline	2217-45-0	65.718	690.00	1.2222	342.15	690.00	2	342.15	28.45
20211	C10H15N	2,3,4,6-tetramethylaniline	488-71-1	66.403	690.00	1.2222	296.65	690.00	2	298.15	33.25
20212	C10H15N	N,N,2,6-tetramethylaniline	769-06-2	76.065	690.00	1.2222	237.15	690.00	2	298.15	38.09
20213	C10H15N	benzylisopropylamine	102-97-6	82.076	671.87	1.2222	283.15	503.90	2	298.15	40.07
20214	C10H15N	alpha,alpha-dimethylbenzeneethanamine	122-09-8	81.880	678.97	1.2222	283.15	509.23	2	298.15	40.39
20215	C10H15N	N,beta-dimethylbenzeneethanamine	93-88-9	81.783	682.52	1.2222	283.15	511.89	2	298.15	40.54
20216	C10H15N	(4-isopropylbenzyl)amine	4395-73-7	81.053	710.21	1.2222	283.15	532.66	2	298.15	41.67
20217	C10H15N	methamphetamine	537-46-2	81.611	688.91	1.2222	283.15	516.68	2	298.15	40.81
20218	C10H15N	alpha-methylbenzenepropanamine	22374-89-6	81.200	704.53	1.2222	416.15	528.40	2	416.15	27.25
20219	C10H15N	alpha-propylbenzenemethanamine	2941-19-7	81.273	701.69	1.2222	283.15	526.27	2	298.15	41.33
20220	C10H15N	2-(1-ethylpropyl)pyridine	7399-50-0	64.740	693.00	1.2222	400.00	693.00	2	400.00	22.61
20221	C10H15N	4-(1-ethylpropyl)pyridine	35182-51-5	63.464	693.00	1.2222	398.65	693.00	2	398.65	22.29
20223	C10H15N	N,N-dimethylphenethylamine	1126-71-2	81.793	682.17	1.2222	283.15	511.63	2	298.15	40.53
20224	C10H15N	(S)-(-)-N,N-dimethyl-1-phenylethylamine	17279-31-1	80.984	712.88	1.2222	283.15	534.66	2	298.15	41.77
20225	C10H15N	(R)-(+)-N,N-dimethyl-1-phenylethylamine	19342-01-9	80.984	712.88	1.2222	283.15	534.66	2	298.15	41.77
20227	C10H15N	(S)-(+)-1-methyl-3-phenylpropylamine	4187-57-9	80.984	712.88	1.2222	283.15	534.66	2	298.15	41.77
20228	C10H15N	(R)-(-)-1-methyl-3-phenylpropylamine	937-52-0	80.984	712.88	1.2222	283.15	534.66	2	298.15	41.77
20229	C10H15N	4-phenylbutylamine	13214-66-9	80.984	712.88	1.2222	283.15	534.66	2	298.15	41.77
20230	C10H15N	3,5,N,N-tetramethylaniline	4913-13-7	70.825	690.00	1.2222	274.23	690.00	2	298.15	35.47
20231	C10H15N	aniline, p-isopropyl-N-methyl-,	6950-79-4	70.519	690.00	1.2222	274.23	690.00	2	298.15	35.32
20233	C10H15N	N,N-dimethyl-a-methylbenzylamine	2449-49-2	80.984	712.88	1.2222	283.15	534.66	2	298.15	41.77
20234	C10H15N	N-ethyl(a-methylbenzyl)amine	10137-87-8	80.984	712.88	1.2222	283.15	534.66	2	298.15	41.77
20315	C10H16	camphene	79-92-5	53.209	638.00	1.2222	320.15	638.00	2	320.15	22.71
20316	C10H16	D-limonene	5989-27-5	57.560	660.00	1.2750	199.00	660.00	1,2	298.15	26.75
20317	C10H16	limonene	138-86-3	55.006	660.00	1.2222	178.15	660.00	2	298.15	26.39
20318	C10H16	L-limonene	5989-54-8	55.006	660.00	1.2222	188.58	660.00	2	298.15	26.39
20321	C10H16	alpha-pinene	80-56-8	53.108	632.00	1.2222	209.15	632.00	2	298.15	24.34
20322	C10H16	alpha-pinene, (-)	7785-26-4	48.854	647.00	1.2222	209.15	647.00	2	298.15	22.96
20323	C10H16	beta-pinene	127-91-3	56.758	643.00	1.2012	211.61	643.00	1,2	298.15	26.85
20324	C10H16	beta-pinene, (1R)	19902-08-0	53.119	647.00	1.2222	223.15	647.00	2	298.15	24.97
20325	C10H16	alpha-terpinene	99-86-5	58.139	652.00	1.2222	214.12	652.00	2	298.15	27.55
20326	C10H16	gamma-terpinene	99-85-4	58.196	661.00	1.2222	214.12	661.00	2	298.15	27.96
20331	C10H16	1-decen-3-yne	33622-26-3	65.961	615.00	1.2222	270.00	615.00	2	298.15	29.33
20332	C10H16	1-decen-4-yne	24948-66-1	65.961	615.00	1.2222	270.00	615.00	2	298.15	29.33
20333	C10H16	2-decen-4-yne	116668-40-7	65.961	615.00	1.2222	270.00	615.00	2	298.15	29.33
20356	C10H16	(+)-camphene	5794-03-6	52.738	638.00	1.2222	319.15	638.00	2	319.15	22.59
20357	C10H16	(-)-camphene	5794-04-7	56.285	638.00	1.2222	310.15	638.00	2	310.15	24.95
20365	C10H16	(-)-a-pinene	1330-16-1	49.367	647.00	1.2222	218.25	647.00	2	298.15	23.20
20366	C10H16	(1S)-(-)-b-pinene	18172-67-3	53.773	647.00	1.2222	212.25	647.00	2	298.15	25.27
20367	C10H16	(±)-a-pinene	2437-95-8	49.110	647.00	1.2222	218.25	647.00	2	298.15	23.08
20368	C10H16	(+)-a-pinene	7785-70-8	49.067	647.00	1.2222	211.15	647.00	2	298.15	23.06
20423	C10H16O	camphor	76-22-2	59.464	709.00	1.2222	451.50	709.00	2	451.50	17.24
20540	C10H16S	3-hexylthiophene	1693-86-3	57.739	705.00	1.2222	400.00	705.00	2	400.00	20.74
20593	C10H18	1-decyne	764-93-2	56.519	632.49	1.2222	229.16	632.49	1,2	298.15	25.93
20594	C10H18	2-decyne	2384-70-5	56.735	650.86	1.2222	308.06	650.86	2	308.06	25.91
20595	C10H18	3-decyne	2384-85-2	57.012	643.32	1.2222	308.06	643.32	2	308.06	25.71
20596	C10H18	4-decyne	2384-86-3	56.396	642.22	1.2222	261.36	642.22	2	298.15	26.30
20597	C10H18	5-decyne	1942-46-7	56.931	642.22	1.2222	200.15	642.22	2	298.15	26.55
20598	C10H18	2,2-dimethyl-3-octyne	19482-57-6	56.396	642.22	1.2222	261.36	642.22	2	298.15	26.30
20599	C10H18	8-methyl-4-nonyne	70732-43-3	56.396	642.22	1.2222	261.36	642.22	2	298.15	26.30
20600	C10H18	5-ethyl-5-methyl-3-heptyne	61228-10-2	56.396	642.22	1.2222	261.36	642.22	2	298.15	26.30
20601	C10H18	cis-decahydronaphthalene	493-01-6	64.760	702.25	1.2950	242.78	702.25	1,2	298.15	31.66
20602	C10H18	trans-decahydronaphthalene	493-02-7	61.470	687.05	1.2970	242.40	687.05	1,2	298.15	29.38
20603	C10H18	1-pentylcyclopentene	4291-98-9	44.761	647.47	1.2222	190.15	647.47	2	298.15	21.05
20604	C10H18	1,5-dimethyl-4-isopropylcyclopentene	6912-05-6	44.877	647.47	1.2222	190.15	647.47	2	298.15	21.11
20608	C10H18	1,3-decadiene	2051-25-4	50.435	646.00	1.2222	203.55	646.00	2	298.15	23.67
20609	C10H18	1,9-decadiene	1647-16-1	50.236	646.00	1.2222	203.55	646.00	2	298.15	23.57
20610	C10H18	2,6-dimethyl-2,5-octadiene	116668-48-5	50.582	646.00	1.2222	203.55	646.00	2	298.15	23.74
20611	C10H18	2,7-dimethyl-2,6-octadiene	16736-42-8	50.136	646.00	1.2222	198.75	646.00	2	298.15	23.53
20612	C10H18	3,6-dimethyl-2,6-octadiene	116668-49-6	48.898	646.00	1.2222	203.55	646.00	2	298.15	22.95
20613	C10H18	3,7-dimethyl-2,4-octadiene	56523-26-3	50.086	646.00	1.2222	203.55	646.00	2	298.15	23.50
20614	C10H18	4,5-dimethyl-2,6-octadiene	18476-57-8	48.845	646.00	1.2222	208.35	646.00	2	298.15	22.92
20615	C10H18	cis-2,6-dimethyl-2,6-octadiene	2492-22-0	50.336	646.00	1.2222	203.55	646.00	2	298.15	23.62
20625	C10H18	1-methyl-4-isopropylcyclohexene	5502-88-5	51.173	640.00	1.2222	181.60	640.00	2	298.15	23.78
20626	C10H18	1-methyl-4-isopropylcyclohexene, (R)	1195-31-9	51.261	640.00	1.2222	181.60	640.00	2	298.15	23.82
20627	C10H18	4-methyl-1-isopropylcyclohexene, (R)	619-52-3	51.587	640.00	1.2222	181.60	640.00	2	298.15	23.97
20628	C10H18	trans-3-methyl-6-isopropylcyclohexene, (3R)	5113-93-9	51.617	640.00	1.2222	181.60	640.00	2	298.15	23.98
20635	C10H18	1-tert-butyl-1-cyclohexene	3419-66-7	51.587	640.00	1.2222	181.60	640.00	2	298.15	23.97
20636	C10H18	decahydronaphthalene; (cis+trans)	91-17-8	49.343	694.65	1.2222	242.59	694.65	2	298.15	24.87
20637	C10H18	3,7-dimethyl-1,6-octadiene	2436-90-0	49.157	646.00	1.2222	203.55	646.00	2	298.15	23.07
20638	C10H18	4-methyl-1-(1-methylethyl)cyclohexene	500-00-5	51.626	640.00	1.2222	181.60	640.00	2	298.15	23.99
20678	C10H18O	2-butylcyclohexanone	1126-18-7	50.907	710.00	1.2222	300.33	710.00	2	300.33	25.99
20679	C10H18O	4-isobutylcyclohexanone	42061-72-3	48.616	710.00	1.2222	300.33	710.00	2	300.33	24.82
20680	C10H18O	cis-5-methyl-2-isopropylcyclohexanone, (2R)	1196-31-2	51.854	710.00	1.2222	300.33	710.00	2	300.33	26.48

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
20681	C10H18O	trans-2-methyl-5-isopropylcyclohexanone, (2S)	13163-73-0	48.170	710.00	1.2222	300.33	710.00	2	300.33	24.60
20682	C10H18O	trans-5-methyl-2-isopropylcyclohexanone, (2S)	14073-97-3	51.142	710.00	1.2222	267.15	710.00	2	298.15	26.28
20688	C10H18O	2-decenal	3913-71-1	70.644	670.00	1.2222	350.00	670.00	2	350.00	28.63
20689	C10H18O	3-decenal	58474-80-9	68.991	670.00	1.2222	350.00	670.00	2	350.00	27.96
20690	C10H18O	3,7-dimethyl-6-octenal	106-23-0	68.991	670.00	1.2222	350.00	670.00	2	350.00	27.96
20691	C10H18O	3-decen-2-one	10519-33-2	63.355	675.00	1.2222	350.00	675.00	2	350.00	25.93
20692	C10H18O	3-ethyl-4-methyl-3-hepten-2-one	54244-90-5	62.323	675.00	1.2222	350.00	675.00	2	350.00	25.51
20693	C10H18O	3-ethyl-4-methyl-4-hepten-2-one	53252-08-7	63.355	675.00	1.2222	350.00	675.00	2	350.00	25.93
20694	C10H18O	4-ethyl-6-methyl-5-hepten-2-one	104035-66-7	63.355	675.00	1.2222	350.00	675.00	2	350.00	25.93
20695	C10H18O	5-ethyl-4-methyl-4-hepten-3-one	22319-28-4	63.355	675.00	1.2222	350.00	675.00	2	350.00	25.93
20696	C10H18O	5-ethyl-4-methyl-5-hepten-3-one	74764-56-0	63.355	675.00	1.2222	347.65	675.00	2	347.65	26.16
20697	C10H18O	6-methyl-5-nonen-4-one	7036-98-8	62.611	675.00	1.2222	350.00	675.00	2	350.00	25.63
20698	C10H18O	6-methyl-6-nonen-4-one	53252-20-3	63.355	675.00	1.2222	350.00	675.00	2	350.00	25.93
20716	C10H18O	2-tert-butylcyclohexanone	1728-46-7	50.947	710.00	1.2222	311.70	710.00	2	311.70	25.14
20717	C10H18O	4-tert-butylcyclohexanone	98-53-3	50.947	710.00	1.2222	322.15	710.00	2	322.15	24.33
20723	C10H18O	cis-4-decenal	21662-09-9	68.991	670.00	1.2222	350.00	670.00	2	350.00	27.96
20745	C10H18O	2,2,6,6-tetramethylcyclohexanone	1195-93-3	50.947	710.00	1.2222	300.33	710.00	2	300.33	26.01
20746	C10H18O	3,3,5,5-tetramethylcyclohexanone	14376-79-5	52.454	710.00	1.2222	300.33	710.00	2	300.33	26.78
20760	C10H18O	2-(1-methylpropyl)cyclohexanone	14765-30-1	50.947	710.00	1.2222	300.33	710.00	2	300.33	26.01
20769	C10H18O2	2-decenoic acid	3913-85-7	54.220	776.00	1.2222	285.15	776.00	2	298.15	29.98
20770	C10H18O2	3-decenoic acid	15469-77-9	54.220	776.00	1.2222	291.15	776.00	2	298.15	29.98
20771	C10H18O2	4-decenoic acid	26303-90-2	54.220	776.00	1.2222	291.98	776.00	2	298.15	29.98
20772	C10H18O2	9-decenoic acid	14436-32-9	54.220	776.00	1.2222	299.65	776.00	2	299.65	29.86
20788	C10H18O2	trans-2-decenoic acid	334-49-6	54.220	776.00	1.2222	291.98	776.00	2	298.15	29.98
20795	C10H18O2	vinyl 2-ethylhexanoate	94-04-2	62.346	650.00	1.2222	183.25	650.00	2	298.15	29.45
20800	C10H18O2	heptyl acrylate	2499-58-3	65.653	650.00	1.2222	183.25	650.00	2	298.15	31.01
20801	C10H18O2	3-hexenyl isobutyrate	57859-47-9	65.653	650.00	1.2222	183.25	650.00	2	298.15	31.01
20802	C10H18O2	cis-3-hexenyl isobutyrate	41519-23-7	65.653	650.00	1.2222	183.25	650.00	2	298.15	31.01
20803	C10H18O2	hexyl-2-butenoate	19089-92-0	65.653	650.00	1.2222	183.25	650.00	2	298.15	31.01
20805	C10H18O2	methyl nonylenate	111-79-5	65.653	650.00	1.2222	183.25	650.00	2	298.15	31.01
20806	C10H18O2	1-octen-3-ol acetate	2442-10-6	65.653	650.00	1.2222	183.25	650.00	2	298.15	31.01
20820	C10H18O4	sebacic acid	111-20-6	94.788	815.00	1.2222	407.65	815.00	2	407.65	40.61
20856	C10H19Br	cis-1-bromo-1-decene	66291-72-3	57.986	683.71	1.2222	256.68	683.71	2	298.15	28.79
20857	C10H19Br	trans-1-bromo-1-decene	66291-73-4	57.986	683.71	1.2222	256.68	683.71	2	298.15	28.79
20858	C10H19Br	1-bromo-2-decene	14304-30-4	57.986	683.71	1.2222	256.68	683.71	2	298.15	28.79
20859	C10H19Br	2-bromo-1-decene	3017-67-2	57.986	683.71	1.2222	256.68	683.71	2	298.15	28.79
20867	C10H19Br3	1,1,1-tribromodecane	62127-67-7	85.222	786.93	1.2222	383.78	786.93	2	383.78	37.63
20868	C10H19Cl	cis-1-chloro-1-decene	66291-47-2	61.410	682.53	1.2222	226.80	682.53	2	298.15	30.44
20869	C10H19Cl	trans-1-chloro-1-decene	66291-48-3	61.410	682.53	1.2222	226.80	682.53	2	298.15	30.44
20870	C10H19Cl	(1R)-(-)-menthyl chloride	16052-42-9	61.410	682.53	1.2222	255.00	682.53	2	298.15	30.44
20876	C10H19Cl3	1,1,1-trichlorodecane	62108-56-9	70.856	724.19	1.2222	294.14	724.19	2	298.15	37.05
20877	C10H19F	cis-1-fluoro-1-decene	66291-49-4	51.401	593.48	1.2222	229.03	593.48	2	298.15	21.90
20878	C10H19F	trans-1-fluoro-1-decene	66291-50-7	51.401	593.48	1.2222	229.03	593.48	2	298.15	21.90
20882	C10H19F3	1,1,1-trifluorodecane	26288-16-4	51.728	600.10	1.2222	300.83	600.10	2	300.83	22.10
20883	C10H19I	cis-1-iodo-1-decene	66291-51-8	58.411	721.89	1.2222	254.94	721.89	2	298.15	30.46
20884	C10H19I	trans-1-iodo-1-decene	66291-52-9	58.411	721.89	1.2222	254.94	721.89	2	298.15	30.46
20885	C10H19I3	1,1,1-triiododecane	---	66.109	961.43	1.2222	378.56	961.43	2	378.56	35.86
20886	C10H19N	decanenitrile	1975-78-6	58.161	692.64	1.2222	258.65	692.64	1,2	298.15	29.23
20922	C10H20	pentylcyclopentane	3741-00-2	58.367	647.49	1.2222	190.16	647.49	2	298.15	27.46
20923	C10H20	butylcyclohexane	1678-93-9	59.040	667.00	1.3513	198.42	667.00	1,2	298.15	26.51
20924	C10H20	tert-butylcyclohexane	3178-22-1	54.993	667.00	1.2222	231.95	667.00	1,2	298.15	26.66
20925	C10H20	sec-butylcyclohexane	7058-01-7	56.643	667.00	1.2222	191.06	667.00	1,2	298.15	27.46
20926	C10H20	isobutylcyclohexane	1678-98-4	53.302	667.00	1.2222	178.15	667.00	1,2	298.15	25.84
20927	C10H20	1-methyl-1-propylcyclohexane	4258-93-9	54.465	667.00	1.2222	191.06	667.00	2	298.15	26.40
20928	C10H20	1-methyl-2-propylcyclohexane	4291-79-6	54.879	667.00	1.2222	191.06	667.00	2	298.15	26.60
20929	C10H20	1-methyl-3-propylcyclohexane	4291-80-9	53.667	667.00	1.2222	191.06	667.00	2	298.15	26.02
20930	C10H20	1-methyl-4-propylcyclohexane	4291-81-0	54.828	667.00	1.2222	191.06	667.00	2	298.15	26.58
20931	C10H20	1-methyl-2-isopropylcyclohexane	16580-23-7	54.361	667.00	1.2222	191.06	667.00	2	298.15	26.35
20932	C10H20	1-methyl-3-isopropylcyclohexane	16580-24-8	53.883	667.00	1.2222	191.06	667.00	2	298.15	26.12
20933	C10H20	1-methyl-4-isopropylcyclohexane	99-82-1	54.329	667.00	1.2222	185.55	667.00	2	298.15	26.34
20934	C10H20	cis-1-methyl-4-isopropylcyclohexane	6069-98-3	54.465	667.00	1.2222	183.25	667.00	2	298.15	26.40
20935	C10H20	trans-1-methyl-4-isopropylcyclohexane	1678-82-6	54.319	667.00	1.2222	186.85	667.00	2	298.15	26.33
20936	C10H20	1,1,3,4-tetramethylcyclohexane	24612-75-7	53.174	667.00	1.2222	191.06	667.00	2	298.15	25.78
20937	C10H20	trans-1,1,3,5-tetramethylcyclohexane	50876-31-8	52.771	667.00	1.2222	191.06	667.00	2	298.15	25.58
20938	C10H20	cis-1,1,3,5-tetramethylcyclohexane	50876-32-9	52.328	667.00	1.2222	191.06	667.00	2	298.15	25.37
20939	C10H20	diethylcyclohexane; (mixed isomers)	1331-43-7	54.673	667.00	1.2222	173.25	667.00	2	298.15	26.50
20942	C10H20	cyclodecane	293-96-9	57.942	709.00	1.2222	284.15	709.00	2	298.15	29.74
20943	C10H20	1-decene	872-05-9	54.880	617.05	1.2818	206.89	617.05	1,2	298.15	23.55
20944	C10H20	4-decene	19689-18-0	53.202	616.98	1.2222	219.00	616.98	2	298.15	23.74
20945	C10H20	cis-5-decene	7433-78-5	53.243	616.98	1.2222	161.15	616.98	2	298.15	23.76
20946	C10H20	trans-5-decene	7433-56-9	53.243	616.98	1.2222	200.15	616.98	2	298.15	23.76
20947	C10H20	2-methyl-1-nonene	2980-71-4	52.981	616.91	1.2222	208.92	616.91	2	298.15	23.64
20947.1	C10H20	cis-2-decene	20348-51-0	75.972	621.00	1.3099	204.00	621.00	2	298.15	32.25
20947.2	C10H20	trans-2-decene	20063-97-2	74.656	619.00	1.2984	220.00	619.00	2	298.15	31.81
20947.3	C10H20	8-methyl-1-nonene	26741-24-2	80.421	619.00	1.3233	199.00	619.00	2	298.15	33.71
20947.4	C10H20	1,1-diethylcyclohexane	78-01-3	67.732	643.00	1.2827	173.15	643.00	2	298.15	30.46
20947.5	C10H20	1,2,3,4-tetramethylcyclohexane	3726-45-2	58.446	642.00	1.2709	195.00	642.00	2	298.15	26.43
20948	C10H20	2-methyl-3-nonene	53966-53-3	52.189	616.98	1.2222	219.00	616.98	2	298.15	23.29
20949	C10H20	5-methyl-4-nonene	15918-07-7	52.807	616.98	1.2222	219.00	616.98	2	298.15	23.57
20950	C10H20	3,7-dimethyl-1-octene	4984-01-4	51.420	616.98	1.2222	219.00	616.98	2	298.15	22.95

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
20951	C10H20	2,6-dimethyl-2-octene	4057-42-5	52.404	616.98	1.2222	219.00	616.98	2	298.15	23.39
20952	C10H20	4-propyl-3-heptene	4485-13-6	52.135	616.98	1.2222	219.00	616.98	2	298.15	23.27
20953	C10H20	2,4,6-trimethyl-3-heptene, isomer	123434-07-1	52.807	616.98	1.2222	219.00	616.98	2	298.15	23.57
20954	C10H20	2,2,5,5-tetramethylhex-3-ene	22808-06-6	47.870	616.98	1.2222	268.65	616.98	2	298.15	21.36
20955	C10H20	cis-1,2-di-tert-butylethene	692-47-7	52.807	616.98	1.2222	219.00	616.98	2	298.15	23.57
20956	C10H20	(E)-2,2,5,5-tetramethylhex-3-ene	692-48-8	47.984	616.98	1.2222	268.25	616.98	2	298.15	21.41
20958	C10H20Br2	1,1-dibromodecane	59104-80-2	73.345	741.82	1.2222	306.56	741.82	2	306.56	38.23
20959	C10H20Br2	1,10-dibromodecane	4101-68-2	73.345	741.82	1.2222	301.15	741.82	2	301.15	38.81
20960	C10H20Br2	5,6-dibromodecane	77928-86-0	73.345	741.82	1.2222	303.86	741.82	2	303.86	38.52
20962	C10H20Cl2	1,1-dichlorodecane	3162-62-7	75.091	704.32	1.2222	246.80	704.32	2	298.15	38.32
20963	C10H20Cl2	1,10-dichlorodecane	2162-98-3	75.091	704.32	1.2222	288.75	704.32	2	298.15	38.32
20966	C10H20F2	1,1-difluorodecane	62127-43-9	57.138	622.00	1.2222	251.26	622.00	2	298.15	25.73
20968	C10H20I2	1,1-diiododecane	66291-57-4	74.733	836.20	1.2222	303.08	836.20	2	303.08	43.11
20969	C10H20I2	1,10-diiododecane	16355-92-3	74.733	836.20	1.2222	304.65	836.20	2	304.65	42.96
20992	C10H20O	decanal	112-31-2	63.209	657.00	1.2222	269.47	657.00	2	298.15	30.18
20993	C10H20O	2-decanone	693-54-9	56.187	656.59	1.2222	276.25	656.59	2	298.15	26.81
20994	C10H20O	3-decanone	928-80-3	58.298	656.59	1.2222	274.45	656.59	1,2	298.15	27.82
20995	C10H20O	4-decanone	624-16-8	55.996	656.59	1.2222	264.15	656.59	2	298.15	26.72
20996	C10H20O	2-methyl-5-nonanone	22287-02-1	55.841	656.59	1.2222	269.70	656.59	2	298.15	26.65
20997	C10H20O	2-tert-butylcyclohexanol	13491-79-7	81.714	665.00	1.2222	318.15	665.00	2	318.15	36.88
20998	C10H20O	trans-2-butylcyclohexanol	35242-05-8	81.714	665.00	1.2222	339.96	665.00	2	339.96	34.07
20999	C10H20O	citronellol, (±)	26489-01-0	61.569	656.59	1.2222	350.00	656.59	2	350.00	24.27
21004	C10H20O	9-decen-1-ol	13019-22-2	63.902	643.00	1.2222	270.00	643.00	2	298.15	29.84
21005	C10H20O	3,7-dimethyl-6-octen-3-ol	18479-51-1	61.472	643.00	1.2222	270.00	643.00	2	298.15	28.71
21006	C10H20O	3,7-dimethyl-7-octen-1-ol, (S)	6812-78-8	61.472	643.00	1.2222	270.00	643.00	2	298.15	28.71
21007	C10H20O	2-ethylhexyl vinyl ether	103-44-6	75.593	636.00	1.2222	173.15	636.00	2	298.15	34.89
21008	C10H20O	octyl vinyl ether	929-62-4	61.470	636.00	1.2222	173.15	636.00	2	298.15	28.37
21011	C10H20O	1-methyl-4-isopropylcyclohexanol	21129-27-1	82.259	665.00	1.2222	339.96	665.00	2	339.96	34.29
21012	C10H20O	2-methyl-5-isopropylcyclohexanol, [1R-(1alpha,2alpha,5beta)]	5563-78-0	88.082	665.00	1.2222	339.96	665.00	2	339.96	36.72
21013	C10H20O	2-methyl-1-propylcyclohexanol	24580-48-1	81.714	665.00	1.2222	339.96	665.00	2	339.96	34.07
21014	C10H20O	3-methyl-1-propylcyclohexanol	24580-52-7	76.531	665.00	1.2222	339.96	665.00	2	339.96	31.91
21015	C10H20O	4-tert-butylcyclohexanol; (cis+trans)	98-52-2	81.714	665.00	1.2222	338.15	665.00	2	338.15	34.30
21016	C10H20O	(±)-b-citronellol	106-22-9	47.636	656.59	0.8000	298.15	656.59	2	298.15	29.35
21017	C10H20O	(R)-(+)-b-citronellol	1117-61-9	60.154	656.59	1.2222	298.15	656.59	2	298.15	28.71
21018	C10H20O	(-)-b-citronellol	7540-51-4	61.693	656.59	1.2222	298.15	656.59	2	298.15	29.44
21019	C10H20O	5-decanone	820-29-1	55.280	656.59	1.2222	263.95	656.59	1,2	298.15	26.38
21020	C10H20O	trans-5-decen-1-ol	56578-18-8	61.472	643.00	1.2222	298.15	643.00	2	298.15	28.71
21021	C10H20O	cis-4-decen-1-ol	57074-37-0	61.472	643.00	1.2222	298.15	643.00	2	298.15	28.71
21025	C10H20O	isodecanal	1321-89-7	61.894	657.00	1.2222	269.47	657.00	2	298.15	29.55
21031	C10H20O	trans-4-(1,1-dimethylethyl)cyclohexanol	21862-63-5	81.714	665.00	1.2222	348.45	665.00	2	348.45	32.98
21032	C10H20O	cis-4-(1,1-dimethylethyl)cyclohexanol	937-05-3	81.714	665.00	1.2222	355.10	665.00	2	355.10	32.14
21033	C10H20O	[1R-(1a,2a,5b)]-5-methyl-2-(1-methylethyl)cyclohexanol	20747-49-3	81.714	665.00	1.2222	339.96	665.00	2	339.96	34.07
21034	C10H20O	2-methyl-3-nonanone	5445-31-8	55.654	656.59	1.2222	269.70	656.59	2	298.15	26.56
21035	C10H20O	2,6-dimethyl-1-octen-8-ol	141-25-3	61.472	643.00	1.2222	270.00	643.00	2	298.15	28.71
21036	C10H20O	2-isopropyl-5-methyl-2-hexen-1-ol	40853-53-0	61.472	643.00	1.2222	270.00	643.00	2	298.15	28.71
21040	C10H20O2	decanoic acid	334-48-5	55.666	713.00	1.2222	304.40	713.00	2	304.40	28.19
21041	C10H20O2	2,2-dimethyloctanoic acid	29662-90-6	52.051	713.00	1.2222	314.78	713.00	2	314.78	25.54
21042	C10H20O2	3-methylnonanoic acid	35205-79-9	52.051	713.00	1.2222	314.78	713.00	2	314.78	25.54
21043	C10H20O2	nonyl formate	5451-92-3	62.191	669.90	1.2222	260.66	669.90	2	298.15	30.28
21044	C10H20O2	2-ethylhexyl acetate	103-09-3	61.023	639.00	1.2222	180.15	639.00	2	298.15	28.31
21045	C10H20O2	octyl acetate	112-14-1	59.965	662.20	1.2222	234.65	662.20	2	298.15	28.86
21046	C10H20O2	6-methyl-2-heptyl acetate	67952-57-2	58.737	650.60	1.2222	207.40	650.60	2	298.15	27.77
21047	C10H20O2	6-methyl-3-heptyl acetate	32764-34-4	58.481	650.60	1.2222	207.40	650.60	2	298.15	27.65
21048	C10H20O2	2-methylheptyl acetate, (±)	74112-36-0	59.532	650.60	1.2222	207.40	650.60	2	298.15	28.14
21049	C10H20O2	heptyl propanoate	2216-81-1	60.088	659.60	1.2222	222.25	659.60	2	298.15	28.81
21050	C10H20O2	hexyl butanoate	2639-63-6	57.252	657.20	1.2222	195.15	657.20	2	298.15	27.35
21051	C10H20O2	1-methylpentyl butanoate, (S)	116723-96-7	53.344	657.20	1.2222	195.15	657.20	1,2	298.15	25.48
21052	C10H20O2	isopentyl isovalerate	659-70-1	57.374	637.00	1.2222	215.00	637.00	2	298.15	26.53
21053	C10H20O2	1,1-dimethylpropyl 3-methylbutanoate	542-37-0	54.175	657.20	1.2222	195.15	657.20	2	298.15	25.88
21054	C10H20O2	isopentyl pentanoate	2050-09-1	57.985	637.00	1.2222	211.58	637.00	2	298.15	26.81
21055	C10H20O2	pentyl pentanoate	2173-56-0	58.267	637.00	1.2222	194.35	637.00	2	298.15	26.94
21056	C10H20O2	butyl hexanoate	626-82-4	58.649	637.00	1.2222	208.85	637.00	2	298.15	27.12
21057	C10H20O2	isobutyl 4-methylpentanoate	25415-70-7	55.172	637.00	1.2222	211.58	637.00	2	298.15	25.51
21058	C10H20O2	propyl heptanoate	7778-87-2	58.649	637.00	1.2222	209.65	637.00	2	298.15	27.12
21059	C10H20O2	ethyl 2-ethylhexanoate	2983-37-1	57.985	637.00	1.2222	211.58	637.00	2	298.15	26.81
21060	C10H20O2	ethyl octanoate	106-32-1	59.352	637.00	1.2222	230.05	637.00	1,2	298.15	27.44
21063	C10H20O2	methyl nonanoate	1731-84-6	59.125	637.00	1.2222	211.58	637.00	2	298.15	27.34
21066	C10H20O2	8-methylnonanoic acid	5963-14-4	52.051	713.00	1.2222	314.78	713.00	2	314.78	25.54
21067	C10H20O2	neodecanoic acid	26896-20-8	54.864	713.00	1.2222	314.78	713.00	2	314.78	26.92
21068	C10H20O2	tert-decanoic acid	52627-73-3	52.051	713.00	1.2222	314.78	713.00	2	314.78	25.54
21071	C10H20O2	n-hexyl isobutyrate	2349-07-7	57.985	637.00	1.2222	211.58	637.00	2	298.15	26.81
21073	C10H20O2	isobutyl hexanoate	105-79-3	53.170	637.00	1.2222	211.58	637.00	2	298.15	24.58
21074	C10H20O2	2-(4-isobutylphenyl)butyric acid	55837-18-8	52.051	713.00	1.2222	325.15	713.00	2	325.15	24.73
21077	C10H20O2	4-nonanecarboxylic acid	31080-39-4	52.051	713.00	1.2222	314.78	713.00	2	314.78	25.54
21088	C10H20S	thiacycloundecane	408-32-2	60.035	784.51	1.2222	279.43	784.51	2	298.15	33.47
21090	C10H21Br	1-bromodecane	112-29-8	58.350	698.43	1.2222	243.95	698.43	1,2	298.15	29.55
21091	C10H21Br	2-bromodecane	39563-53-6	57.675	698.43	1.2222	243.95	698.43	2	298.15	29.21
21093	C10H21Cl	1-chlorodecane	1002-69-3	58.496	679.88	1.2222	241.85	679.88	1,2	298.15	28.89
21094	C10H21Cl	decyl chloride (mixed isomers)	28519-06-4	58.656	679.88	1.2222	241.85	679.88	2	298.15	28.97
21097	C10H21F	1-fluorodecane	334-56-5	64.048	623.10	1.2222	238.15	623.10	2	298.15	28.90

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
21100	C10H21I	1-iododecane	2050-77-3	60.297	700.35	1.2222	256.85	700.35	2	298.15	30.61
21104	C10H21N	1,2,2,6,6-pentamethylpiperidine	79-55-0	63.036	596.61	1.2222	293.90	447.46	2	298.15	27.04
21105	C10H21N	1-pentylpiperidine	10324-58-0	53.018	669.32	1.2222	293.90	501.99	2	298.15	25.79
21117	C10H21NO2	1-nitrodecane	4609-87-4	59.523	716.97	1.2222	345.57	716.97	2	345.57	26.64
21133	C10H22	decane	124-18-5	55.777	618.45	1.3198	243.51	618.45	1,2	298.15	23.41
21134	C10H22	2-methylnonane	871-83-0	52.452	610.00	1.2222	198.80	610.00	2	298.15	23.10
21135	C10H22	3-methylnonane	5911-04-6	52.236	613.00	1.2222	188.50	613.00	2	298.15	23.14
21136	C10H22	4-methylnonane	17301-94-9	52.316	610.00	1.2222	174.70	610.00	2	298.15	23.04
21137	C10H22	5-methylnonane	15869-85-9	52.258	610.00	1.2222	186.70	610.00	2	298.15	23.02
21138	C10H22	3-ethyloctane	5881-17-4	52.043	613.60	1.2222	185.46	613.60	2	298.15	23.08
21139	C10H22	4-ethyloctane	15869-86-0	52.140	609.60	1.2222	185.46	609.60	2	298.15	22.95
21140	C10H22	2,2-dimethyloctane	15869-87-1	52.183	602.00	1.2222	204.38	602.00	2	298.15	22.63
21141	C10H22	2,3-dimethyloctane	7146-60-3	51.854	613.20	1.2222	219.16	613.20	2	298.15	22.98
21142	C10H22	2,4-dimethyloctane	4032-94-4	52.345	599.40	1.2222	219.16	599.40	2	298.15	22.58
21143	C10H22	2,5-dimethyloctane	15869-89-3	52.257	603.00	1.2222	219.16	603.00	2	298.15	22.70
21144	C10H22	2,6-dimethyloctane	2051-30-1	52.452	603.10	1.2222	219.16	603.10	2	298.15	22.79
21145	C10H22	2,7-dimethyloctane	1072-16-8	52.418	602.90	1.2222	219.16	602.90	2	298.15	22.77
21146	C10H22	3,3-dimethyloctane	4110-44-5	51.633	612.10	1.2222	219.16	612.10	2	298.15	22.83
21147	C10H22	3,4-dimethyloctane	15869-92-8	51.681	614.00	1.2222	219.16	614.00	2	298.15	22.93
21148	C10H22	3,5-dimethyloctane	15869-93-9	52.017	606.30	1.2222	219.16	606.30	2	298.15	22.75
21149	C10H22	3,6-dimethyloctane	15869-94-0	51.967	608.30	1.2222	219.16	608.30	2	298.15	22.81
21150	C10H22	4,4-dimethyloctane	15869-95-1	51.749	606.90	1.2222	219.16	606.90	2	298.15	22.66
21151	C10H22	4,5-dimethyloctane	15869-96-2	51.722	612.20	1.2222	219.16	612.20	2	298.15	22.88
21152	C10H22	4-propylheptane	3178-29-8	52.355	601.00	1.2222	219.16	601.00	2	298.15	22.66
21153	C10H22	4-isopropylheptane	52896-87-4	51.832	607.60	1.2222	219.16	607.60	2	298.15	22.72
21154	C10H22	3-ethyl-2-methylheptane	14676-29-0	51.751	610.90	1.2222	219.16	610.90	2	298.15	22.83
21155	C10H22	4-ethyl-2-methylheptane	52896-88-5	52.127	601.80	1.2222	219.16	601.80	2	298.15	22.59
21156	C10H22	5-ethyl-2-methylheptane	13475-78-0	52.009	606.70	1.2222	219.16	606.70	2	298.15	22.76
21157	C10H22	3-ethyl-3-methylheptane	17302-01-1	51.151	620.00	1.2222	219.16	620.00	2	298.15	22.95
21158	C10H22	4-ethyl-3-methylheptane	52896-89-6	51.525	614.30	1.2222	219.16	614.30	2	298.15	22.88
21159	C10H22	3-ethyl-5-methylheptane	52896-90-9	51.856	606.60	1.2222	219.16	606.60	2	298.15	22.69
21160	C10H22	3-ethyl-4-methylheptane	52896-91-0	51.494	615.50	1.2222	219.16	615.50	2	298.15	22.92
21161	C10H22	4-ethyl-4-methylheptane	17302-04-4	51.242	615.70	1.2222	219.16	615.70	2	298.15	22.81
21162	C10H22	2,2,3-trimethylheptane	52896-92-1	51.285	611.70	1.2222	219.16	611.70	2	298.15	22.66
21163	C10H22	2,2,4-trimethylheptane	14720-74-2	51.995	594.50	1.2222	219.16	594.50	2	298.15	22.20
21164	C10H22	2,2,5-trimethylheptane	20291-95-6	51.913	598.00	1.2222	219.16	598.00	2	298.15	22.33
21165	C10H22	2,2,6-trimethylheptane	1190-83-6	52.187	593.40	1.2222	219.16	593.40	2	298.15	22.24
21166	C10H22	2,3,3-trimethylheptane	52896-93-2	51.008	617.50	1.2222	219.16	617.50	2	298.15	22.78
21167	C10H22	2,3,4-trimethylheptane	52896-95-4	51.339	613.70	1.2222	219.16	613.70	2	298.15	22.77
21168	C10H22	2,3,5-trimethylheptane	20278-85-7	51.511	612.80	1.2222	219.16	612.80	2	298.15	22.81
21169	C10H22	2,3,6-trimethylheptane	4032-93-3	51.867	604.10	1.2222	219.16	604.10	2	298.15	22.58
21170	C10H22	2,4,4-trimethylheptane	4032-92-2	51.695	600.30	1.2222	219.16	600.30	2	298.15	22.34
21171	C10H22	2,4,5-trimethylheptane	20278-84-6	51.639	606.90	1.2222	219.16	606.90	2	298.15	22.61
21172	C10H22	2,4,6-trimethylheptane	2613-61-8	52.370	590.30	1.2222	219.16	590.30	2	298.15	22.17
21173	C10H22	2,5,5-trimethylheptane	1189-99-7	51.632	602.90	1.2222	219.16	602.90	2	298.15	22.43
21174	C10H22	3,3,4-trimethylheptane	20278-87-9	50.759	622.10	1.2222	219.16	622.10	2	298.15	22.86
21175	C10H22	3,3,5-trimethylheptane	7154-80-5	51.291	609.50	1.2222	219.16	609.50	2	298.15	22.57
21176	C10H22	3,4,4-trimethylheptane	20278-88-0	50.786	620.90	1.2222	219.16	620.90	2	298.15	22.83
21177	C10H22	3,4,5-trimethylheptane	20278-89-1	51.703	612.80	1.2222	219.16	612.80	2	298.15	22.89
21178	C10H22	3-isopropyl-2-methylhexane	62016-13-1	51.134	623.40	1.2222	219.16	623.40	2	298.15	23.09
21179	C10H22	3,3-diethylhexane	17302-02-2	50.695	627.80	1.2222	219.16	627.80	2	298.15	23.07
21180	C10H22	3,4-diethylhexane	19398-77-7	51.274	618.80	1.2222	219.16	618.80	2	298.15	22.96
21181	C10H22	3-ethyl-2,2-dimethylhexane	20291-91-2	51.121	611.70	1.2222	219.16	611.70	2	298.15	22.59
21182	C10H22	4-ethyl-2,2-dimethylhexane	52896-99-8	51.831	594.60	1.2222	219.16	594.60	2	298.15	22.14
21183	C10H22	3-ethyl-2,3-dimethylhexane	52897-00-4	50.520	626.80	1.2222	219.16	626.80	2	298.15	22.95
21184	C10H22	4-ethyl-2,3-dimethylhexane	52897-01-5	51.101	617.30	1.2222	219.16	617.30	2	298.15	22.82
21185	C10H22	3-ethyl-2,4-dimethylhexane	7220-26-0	51.130	616.10	1.2222	219.16	616.10	2	298.15	22.78
21186	C10H22	4-ethyl-2,4-dimethylhexane	52897-03-7	50.786	620.90	1.2222	219.16	620.90	2	298.15	22.83
21187	C10H22	3-ethyl-2,5-dimethylhexane	52897-04-8	51.717	603.50	1.2222	219.16	603.50	2	298.15	22.49
21188	C10H22	4-ethyl-3,3-dimethylhexane	52897-05-9	50.536	625.70	1.2222	219.16	625.70	2	298.15	22.91
21189	C10H22	3-ethyl-3,4-dimethylhexane	52897-06-0	50.561	624.50	1.2222	219.16	624.50	2	298.15	22.87
21190	C10H22	2,2,3,3-tetramethylhexane	13475-81-5	50.511	623.00	1.2222	219.16	623.00	2	298.15	22.79
21191	C10H22	2,2,3,4-tetramethylhexane	52897-08-2	50.589	620.40	1.2222	219.16	620.40	2	298.15	22.72
21192	C10H22	2,2,3,5-tetramethylhexane	52897-09-3	51.292	601.30	1.2222	219.16	601.30	2	298.15	22.21
21193	C10H22	2,2,4,4-tetramethylhexane	51750-65-3	51.014	610.20	1.2222	219.16	610.20	2	298.15	22.48
21194	C10H22	2,2,4,5-tetramethylhexane	16747-42-5	51.521	598.50	1.2222	219.16	598.50	2	298.15	22.18
21195	C10H22	2,2,5,5-tetramethylhexane	1071-81-4	52.131	581.40	1.2222	260.56	581.40	2	298.15	21.65
21196	C10H22	2,3,3,4-tetramethylhexane	52897-10-6	50.058	633.10	1.2222	260.56	633.10	2	298.15	22.99
21197	C10H22	2,3,3,5-tetramethylhexane	52897-11-7	50.946	610.10	1.2222	260.56	610.10	2	298.15	22.44
21198	C10H22	2,3,4,4-tetramethylhexane	52897-12-8	50.321	626.60	1.2222	260.56	626.60	2	298.15	22.85
21199	C10H22	2,3,4,5-tetramethylhexane	52897-15-1	50.987	613.20	1.2222	260.56	613.20	2	298.15	22.59
21200	C10H22	3,3,4,4-tetramethylhexane	5171-84-6	49.463	646.70	1.2222	260.56	646.70	2	298.15	23.24
21201	C10H22	2,4-dimethyl-3-isopropylpentane	13475-79-1	50.963	614.40	1.2222	191.46	614.40	2	298.15	22.63
21202	C10H22	3,3-diethyl-2-methylpentane	52897-16-2	49.989	639.90	1.2222	191.46	639.90	2	298.15	23.22
21203	C10H22	3-ethyl-2,2,3-trimethylpentane	52897-17-3	49.471	646.00	1.2222	191.46	646.00	2	298.15	23.21
21204	C10H22	3-ethyl-2,2,4-trimethylpentane	52897-18-4	50.688	615.30	1.2222	191.46	615.30	2	298.15	22.55
21205	C10H22	3-ethyl-2,3,4-trimethylpentane	52897-19-5	49.765	642.30	1.2222	191.46	642.30	2	298.15	23.21
21206	C10H22	2,2,3,3,4-pentamethylpentane	16747-44-7	49.312	643.80	1.2222	236.71	643.80	2	298.15	23.06
21207	C10H22	2,2,3,4,4-pentamethylpentane	16747-45-8	50.018	627.30	1.2222	234.41	627.30	2	298.15	22.74
21224	C10H22O	1-decanol	112-30-1	44.955	690.00	0.8000	280.05	690.00	1,2	298.15	28.59

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
21225	C10H22O	isodecanol	25339-17-7	48.041	644.00	0.8000	213.15	644.00	2	298.15	29.22
21226	C10H22O	2-decanol	1120-06-5	46.466	673.20	0.8000	270.75	673.20	2	298.15	29.10
21227	C10H22O	2-decanol, (±)	74742-10-2	48.235	629.00	0.8000	271.95	629.00	2	298.15	28.85
21228	C10H22O	3-decanol	1565-81-7	47.943	632.85	0.8000	268.15	632.85	2	298.15	28.80
21229	C10H22O	4-decanol	2051-31-2	47.943	633.05	0.8000	261.75	633.05	2	298.15	28.81
21230	C10H22O	5-decanol	5205-34-5	47.939	621.25	0.8000	281.85	621.25	2	298.15	28.42
21231	C10H22O	2-methyl-1-nonanol	40589-14-8	47.940	648.77	0.8000	247.78	648.77	2	298.15	29.30
21232	C10H22O	4-methyl-1-nonanol	1489-47-0	48.090	638.09	0.8000	247.78	638.09	2	298.15	29.06
21233	C10H22O	5-methyl-1-nonanol	2768-16-3	47.943	638.09	0.8000	247.78	638.09	2	298.15	28.97
21234	C10H22O	7-methyl-1-nonanol	33234-93-4	47.943	638.09	0.8000	247.78	638.09	2	298.15	28.97
21235	C10H22O	3-methyl-1-nonanol	22663-64-5	47.943	638.09	0.8000	247.78	638.09	2	298.15	28.97
21236	C10H22O	2-methyl-2-nonanol	10297-57-1	47.640	643.93	0.8000	265.20	643.93	2	298.15	28.97
21237	C10H22O	3-methyl-2-nonanol	60671-32-1	47.792	640.97	0.8000	232.78	640.97	2	298.15	28.97
21238	C10H22O	5-methyl-2-nonanol	66731-95-1	47.792	640.97	0.8000	232.78	640.97	2	298.15	28.97
21239	C10H22O	6-methyl-2-nonanol	66256-60-8	47.792	640.97	0.8000	232.78	640.97	2	298.15	28.97
21240	C10H22O	7-methyl-2-nonanol	66256-61-9	47.792	640.97	0.8000	232.78	640.97	2	298.15	28.97
21241	C10H22O	8-methyl-2-nonanol	14779-92-1	47.792	640.97	0.8000	232.78	640.97	2	298.15	28.97
21242	C10H22O	2-methyl-3-nonanol	26533-33-5	47.788	633.80	0.8000	232.78	633.80	2	298.15	28.74
21243	C10H22O	3-methyl-3-nonanol	21078-72-8	47.634	637.32	0.8000	265.20	637.32	2	298.15	28.76
21244	C10H22O	5-methyl-3-nonanol	66719-43-5	47.789	634.39	0.8000	232.78	634.39	2	298.15	28.76
21245	C10H22O	2-methyl-4-nonanol	26533-31-3	47.789	634.39	0.8000	232.78	634.39	2	298.15	28.76
21246	C10H22O	4-methyl-4-nonanol	23418-38-4	47.634	637.32	0.8000	265.20	637.32	2	298.15	28.76
21247	C10H22O	5-methyl-4-nonanol	66719-44-6	47.789	634.39	0.8000	232.78	634.39	2	298.15	28.76
21248	C10H22O	7-methyl-4-nonanol	26981-98-6	47.789	634.39	0.8000	232.78	634.39	2	298.15	28.76
21249	C10H22O	2-methyl-5-nonanol	29843-62-7	47.789	634.39	0.8000	232.78	634.39	2	298.15	28.76
21250	C10H22O	3-methyl-5-nonanol	66779-42-4	47.789	634.39	0.8000	232.78	634.39	2	298.15	28.76
21251	C10H22O	5-methyl-5-nonanol	33933-78-7	47.139	637.32	0.8000	265.20	637.32	2	298.15	28.46
21252	C10H22O	2-ethyl-1-octanol	20592-10-3	47.943	631.54	0.8000	247.78	631.54	2	298.15	28.76
21253	C10H22O	3-ethyl-1-octanol	66719-36-6	47.943	631.54	0.8000	247.78	631.54	2	298.15	28.76
21254	C10H22O	2,2-dimethyl-1-octanol	2370-14-1	47.632	636.20	0.8000	265.20	636.20	2	298.15	28.72
21255	C10H22O	2,6-dimethyl-1-octanol	62417-08-7	47.790	635.71	0.8000	232.78	635.71	2	298.15	28.80
21256	C10H22O	3,7-dimethyl-1-octanol	106-21-8	47.791	638.54	0.8000	232.78	638.54	2	298.15	28.89
21257	C10H22O	4,5-dimethyl-1-octanol	66719-32-2	47.791	638.34	0.8000	232.78	638.34	2	298.15	28.89
21258	C10H22O	4,6-dimethyl-1-octanol	66719-33-3	47.791	638.34	0.8000	232.78	638.34	2	298.15	28.89
21259	C10H22O	4,7-dimethyl-1-octanol	66719-34-4	47.791	638.34	0.8000	232.78	638.34	2	298.15	28.89
21260	C10H22O	7,7-dimethyl-1-octanol	66719-35-5	47.638	641.29	0.8000	265.20	641.29	2	298.15	28.89
21261	C10H22O	2,4-dimethyl-2-octanol	18675-20-2	47.479	644.39	0.8000	250.20	644.39	2	298.15	28.89
21262	C10H22O	2,6-dimethyt-2-octanol	18479-57-7	47.479	644.39	0.8000	250.20	644.39	2	298.15	28.89
21263	C10H22O	2,7-dimethyl-2-octanol	42007-73-8	47.479	644.39	0.8000	250.20	644.39	2	298.15	28.89
21264	C10H22O	3,7-dimethyl-2-octanol	15340-96-2	47.635	641.33	0.8000	217.78	641.33	2	298.15	28.89
21265	C10H22O	3-ethyl-3-octanol	2051-32-3	47.617	624.30	0.8000	265.20	624.30	2	298.15	28.33
21266	C10H22O	6-ethyl-3-octanol	19781-27-2	47.778	621.23	0.8000	232.78	621.23	2	298.15	28.32
21267	C10H22O	2,2-dimethyl-3-octanol	19841-72-6	47.435	620.48	0.8000	250.20	620.48	2	298.15	28.09
21268	C10H22O	2,3-dimethyl-3-octanol	19781-10-3	47.420	614.17	0.8000	250.20	614.17	2	298.15	27.87
21269	C10H22O	2,7-dimethyl-3-octanol	66719-55-9	47.604	617.73	0.8000	217.78	617.73	2	298.15	28.10
21270	C10H22O	3,5-dimethyl-3-octanol	56065-42-0	47.432	619.15	0.8000	250.20	619.15	2	298.15	28.04
21271	C10H22O	3,6-dimethyl-3-octanol	151-19-9	47.429	618.02	0.8000	205.65	618.02	2	298.15	28.00
21272	C10H22O	3,7-dimethyl-3-octanol	78-69-3	47.441	623.33	0.8000	250.20	623.33	2	298.15	28.19
21273	C10H22O	3-ethyl-4-octanol	63126-48-7	47.769	613.33	0.8000	232.78	613.33	2	298.15	28.04
21274	C10H22O	4-ethyl-4-octanol	38395-42-5	47.603	616.17	0.8000	265.20	616.17	2	298.15	28.04
21275	C10H22O	2,2-dimethyl-4-octanol	66719-52-6	47.423	615.36	0.8000	250.20	615.36	2	298.15	27.91
21276	C10H22O	2,4-dimethyl-4-octanol	33933-79-8	47.426	616.49	0.8000	250.20	616.49	2	298.15	27.95
21277	C10H22O	2,5-dimethyl-4-octanol	66719-53-7	47.596	613.56	0.8000	217.78	613.56	2	298.15	27.95
21278	C10H22O	2,6-dimethyl-4-octanol	66719-54-8	47.925	613.56	0.8000	217.78	613.56	2	298.15	28.14
21279	C10H22O	2,7-dimethyl-4-octanol	19781-11-4	48.464	613.56	0.8000	217.78	613.56	2	298.15	28.46
21280	C10H22O	3,4-dimethyl-4-octanol	66719-30-0	47.426	616.49	0.8000	250.20	616.49	2	298.15	27.95
21281	C10H22O	3,6-dimethyl-4-octanol	66719-31-1	47.596	613.56	0.8000	217.78	613.56	2	298.15	27.95
21282	C10H22O	4,6-dimethyl-4-octanol	56065-43-1	47.426	616.49	0.8000	250.20	616.49	2	298.15	27.95
21283	C10H22O	4,7-dimethyl-4-octanol	19781-13-6	47.429	618.02	0.8000	250.20	618.02	2	298.15	28.00
21284	C10H22O	2-propyl-1-heptanol	10042-59-8	47.942	643.40	0.8000	247.78	643.40	2	298.15	29.14
21285	C10H22O	3-isopropyl-1-heptanol	38514-15-7	47.793	642.75	0.8000	232.78	642.75	2	298.15	29.03
21286	C10H22O	2,4,6-trimethyl-2-heptanol	66256-47-1	47.257	622.25	0.8000	235.20	622.25	2	298.15	28.04
21287	C10H22O	2,5,6-trimethyl-2-heptanol	66256-48-2	47.258	622.45	0.8000	235.20	622.45	2	298.15	28.05
21288	C10H22O	4,6,6-trimethyl-2-heptanol	51079-79-9	47.257	622.25	0.8000	235.20	622.25	2	298.15	28.04
21289	C10H22O	2-methyl-3-ethyl-3-heptanol	66719-37-7	47.432	619.35	0.8000	250.20	619.35	2	298.15	28.05
21290	C10H22O	4-methyl-5-ethyl-3-heptanol	66731-94-0	47.601	616.21	0.8000	217.78	616.21	2	298.15	28.04
21291	C10H22O	5-methyl-3-ethyl-3-heptanol	---	47.432	619.15	0.8000	250.20	619.15	2	298.15	28.04
21292	C10H22O	2,2,3-trimethyl-3-heptanol	29772-40-5	47.048	616.23	0.8000	267.62	616.23	2	298.15	27.72
21293	C10H22O	2,2,6-trimethyl-3-heptanol	66256-43-7	47.245	618.25	0.8000	235.20	618.25	2	298.15	27.90
21294	C10H22O	2,3,6-trimethyl-3-heptanol	58046-40-5	47.245	618.25	0.8000	235.20	618.25	2	298.15	27.90
21295	C10H22O	3,5,5-trimethyl-3-heptanol	66256-50-6	47.093	629.12	0.8000	267.62	629.12	2	298.15	28.17
21296	C10H22O	4-propyl-4-heptanol	2198-72-3	47.606	617.69	0.8000	265.20	617.69	2	298.15	28.10
21297	C10H22O	4-isopropyl-4-heptanol	51200-82-9	47.423	615.36	0.8000	250.20	615.36	2	298.15	27.91
21298	C10H22O	2,2,4-trimethyl-4-heptanol	57233-31-5	47.022	609.52	0.8000	267.62	609.52	2	298.15	27.47
21299	C10H22O	2,2,5-trimethyl-4-heptanol	66256-42-6	47.211	607.56	0.8000	235.20	607.56	2	298.15	27.52
21300	C10H22O	2,2,6-trimethyl-4-heptanol	66256-44-8	47.211	607.56	0.8000	235.20	607.56	2	298.15	27.52
21301	C10H22O	2,4,5-trimethyl-4-heptanol	66256-46-0	47.211	607.56	0.8000	235.20	607.56	2	298.15	27.52
21302	C10H22O	2,4,6-trimethyl-4-heptanol	60836-07-9	47.212	607.76	0.8000	235.20	607.76	2	298.15	27.52
21303	C10H22O	3,3,6-trimethyl-4-heptanol	---	47.211	607.56	0.8000	235.20	607.56	2	298.15	27.52
21304	C10H22O	4-methyl-2-propyl-1-hexanol	66256-62-0	47.788	633.27	0.8000	232.78	633.27	2	298.15	28.72

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
21305	C10H22O	4-methyl-2-isopropyl-1-hexanol	66719-41-3	47.675	625.97	0.8000	216.41	625.97	2	298.15	28.42
21306	C10H22O	5-methyl-2-isopropyl-1-hexanol	2051-33-4	47.637	642.85	0.8000	217.78	642.85	2	298.15	28.93
21307	C10H22O	5,5-dimethyl-2-ethyl-1-hexanol	---	47.480	645.72	0.8000	250.20	645.72	2	298.15	28.93
21308	C10H22O	2,3,4,4-tetramethyl-2-hexanol	66256-66-4	46.884	624.93	0.8000	252.62	624.93	2	298.15	27.91
21309	C10H22O	3,3,5,5-tetramethyl-2-hexanol	66256-69-7	46.883	624.72	0.8000	252.62	624.72	2	298.15	27.90
21310	C10H22O	2-methyl-3-isopropyl-3-hexanol	51200-81-8	47.314	620.04	0.8000	233.83	620.04	2	298.15	28.00
21311	C10H22O	2,2-dimethyl-4-ethyl-3-hexanol	66719-47-9	47.234	614.44	0.8000	235.20	614.44	2	298.15	27.77
21312	C10H22O	2,4-dimethyl-4-ethyl-3-hexanol	66719-48-0	47.233	614.24	0.8000	235.20	614.24	2	298.15	27.76
21313	C10H22O	5,5-dimethyl-3-ethyl-3-hexanol	5340-62-5	47.053	617.38	0.8000	267.62	617.38	2	298.15	27.76
21314	C10H22O	2,2,3,4-tetramethyl-3-hexanol	66256-63-1	46.895	627.63	0.8000	252.62	627.63	2	298.15	28.00
21315	C10H22O	2,2,3,5-tetramethyl-3-hexanol	66256-64-2	47.056	692.84	0.8000	252.62	692.84	2	298.15	30.00
21316	C10H22O	2,2,4,4-tetramethyl-3-hexanol	66256-65-3	46.884	624.93	0.8000	277.15	624.93	2	298.15	27.91
21317	C10H22O	2,2,5,5-tetramethyl-3-hexanol	55073-86-4	46.759	597.94	0.8000	325.15	597.94	2	325.15	24.96
21318	C10H22O	2,3,4,4-tetramethyl-3-hexanol	66256-67-5	46.939	639.77	0.8000	252.62	639.77	2	298.15	28.42
21319	C10H22O	2,3,5,5-tetramethyl-3-hexanol	5396-09-8	46.943	640.92	0.8000	252.62	640.92	2	298.15	28.45
21320	C10H22O	2,4,4,5-tetramethyl-3-hexanol	66256-68-6	47.116	637.55	0.8000	220.20	637.55	2	298.15	28.45
21321	C10H22O	3,4,4,5-tetramethyl-3-hexanol	66256-39-1	46.944	641.12	0.8000	252.62	641.12	2	298.15	28.46
21322	C10H22O	3,4,5,5-tetramethyl-3-hexanol	66256-40-4	46.910	631.67	0.8000	252.62	631.67	2	298.15	28.14
21323	C10H22O	4-methyl-2-isobutyl-1-pentanol	22417-45-4	47.679	629.93	0.8000	216.41	629.93	2	298.15	28.55
21324	C10H22O	4,4-dimethyl-3-isopropyl-1-pentanol	66719-51-5	47.215	608.90	0.8000	235.20	608.90	2	298.15	27.57
21325	C10H22O	3,4-dimethyl-3-isopropyl-2-pentanol	66719-50-4	47.094	610.96	0.8000	218.83	610.96	2	298.15	27.57
21326	C10H22O	2,4-dimethyl-3-propyl-3-pentanol	---	47.221	610.43	0.8000	235.20	610.43	2	298.15	27.62
21327	C10H22O	2,4-dimethyl-3-isopropyl-3-pentanol	51200-83-0	47.147	626.57	0.8000	258.45	626.57	2	298.15	28.12
21328	C10H22O	2,2,4-trimethyl-3-ethyl-3-pentanol	66256-41-5	46.890	626.28	0.8000	252.62	626.28	2	298.15	27.96
21329	C10H22O	2,2,3,4,4-pentamethyl-3-pentanol	5857-69-2	46.539	637.91	0.8000	315.25	637.91	2	315.25	26.98
21330	C10H22O	2,3-dimethyl-2-tert-butyl-1-butanol	81931-81-9	46.899	628.77	0.8000	327.15	628.77	2	327.15	26.06
21331	C10H22O	3,7-dimethyl-3-octanol, (±)	57706-88-4	47.169	629.00	0.8000	304.65	629.00	2	304.65	27.77
21332	C10H22O	3,7-dimethyl-1-octanol, (±)	59204-02-3	48.340	629.00	0.8000	246.36	629.00	2	298.15	28.91
21333	C10H22O	3-ethyl-6-methyl-3-heptanol	66719-40-2	47.405	629.00	0.8000	246.36	629.00	2	298.15	28.35
21334	C10H22O	8-methyl-1-nonanol	55505-26-5	47.405	629.00	0.8000	246.36	629.00	2	298.15	28.35
21335	C10H22O	di-pentyl ether	693-65-2	55.370	622.00	1.2600	203.72	622.00	1,2	298.15	24.33
21336	C10H22O	diisopentyl ether	544-01-4	50.137	622.00	1.2222	244.69	622.00	1,2	298.15	22.58
21337	C10H22O	ethyl octyl ether	929-61-3	54.884	622.00	1.2222	285.65	622.00	2	298.15	24.72
21338	C10H22O	(S)-(+)-2-decanol	33758-16-6	48.235	629.00	0.8000	246.36	629.00	2	298.15	28.85
21339	C10H22O	(R)-3,7-dimethyl-1-octanol	1117-60-8	48.344	629.00	0.8000	246.36	629.00	2	298.15	28.92
21340	C10H22O	s-3,7-dimethyl-1-octanol	68680-98-8	48.295	629.00	0.8000	246.36	629.00	2	298.15	28.89
21341	C10H22O	decyl alcohol (mixed isomers)	85566-12-7	47.405	629.00	0.8000	246.36	629.00	2	298.15	28.35
21347	C10H22O2	1,2-decanediol	1119-86-4	101.592	697.08	1.2222	322.15	697.08	2	322.15	47.61
21348	C10H22O2	1,4-decanediol	37810-94-9	99.510	737.41	1.2222	301.15	737.41	2	301.15	52.39
21349	C10H22O2	1,10-decanediol	112-47-0	80.784	719.06	1.2222	345.15	719.06	1,2	345.15	36.33
21350	C10H22O2	2,9-decanediol	14021-92-2	93.861	716.12	1.2222	306.15	716.12	2	306.15	47.47
21351	C10H22O2	3,7-dimethyl-1,7-octanediol	107-74-4	97.706	716.12	1.2222	320.44	716.12	2	320.44	47.32
21352	C10H22O2	3,4-diethyl-3,4-hexanediol	6931-71-1	93.823	716.12	1.2222	301.15	716.12	2	301.15	48.16
21355	C10H22O2	ethylene glycol dibutyl ether	112-48-1	53.426	672.00	1.2222	204.05	672.00	2	298.15	26.09
21356	C10H22O2	ethylene glycol diisobutyl ether	54922-86-0	56.254	672.00	1.2222	204.05	672.00	2	298.15	27.47
21357	C10H22O2	(S)-1,2-decanediol	84276-14-2	93.861	716.12	1.2222	333.15	716.12	2	333.15	43.68
21358	C10H22O2	(R)-1,2-decanediol	87827-60-9	93.861	716.12	1.2222	334.15	716.12	2	334.15	43.54
21359	C10H22O2	2-(2-ethylhexyloxy)ethanol	1559-35-9	51.258	672.00	1.2222	204.05	672.00	2	298.15	25.03
21360	C10H22O2	2-(octyloxy)ethanol	10020-43-6	51.149	672.00	1.2222	204.05	672.00	2	298.15	24.98
21362	C10H22O2	1,3-decanediol	6071-27-8	94.460	710.95	1.2222	320.44	710.95	2	320.44	45.42
21375	C10H22O3S	dipentyl sulfite	2051-05-0	53.286	745.00	1.2222	273.15	558.75	1,2	298.15	28.53
21379	C10H22O4S	dipentyl sulfate	5867-98-1	54.095	782.86	1.2222	286.65	587.15	2	298.15	30.11
21380	C10H22O5	tetraethylene glycol dimethyl ether	143-24-8	68.870	705.00	1.3155	243.45	705.00	1,2	298.15	33.42
21385	C10H22S	decyl mercaptan	143-10-2	58.509	696.00	1.2222	247.56	696.00	2	298.15	29.54
21386	C10H22S	2-decanethiol	13402-60-3	58.364	690.00	1.2222	231.15	690.00	2	298.15	29.23
21387	C10H22S	dipentyl sulfide	872-10-6	54.710	701.03	1.2222	221.85	701.03	1,2	298.15	27.80
21388	C10H22S	methyl nonyl sulfide	59973-07-8	53.582	701.03	1.2222	238.16	701.03	2	298.15	27.23
21389	C10H22S	ethyl octyl sulfide	3698-94-0	53.582	701.03	1.2222	238.16	701.03	2	298.15	27.23
21390	C10H22S	propyl heptyl sulfide	24768-46-5	53.582	701.03	1.2222	238.16	701.03	2	298.15	27.23
21391	C10H22S	butyl hexyl sulfide	16967-04-7	53.582	701.03	1.2222	238.16	701.03	2	298.15	27.23
21392	C10H22S	bis(2-methylbutyl) sulfide	96034-00-3	50.977	701.03	1.2222	228.84	701.03	2	298.15	25.90
21393	C10H22S	diisopentyl sulfide	544-02-5	51.108	701.03	1.2222	198.55	701.03	1,2	298.15	25.97
21394	C10H22S2	dipentyl disulfide	112-51-6	56.447	726.94	1.2222	214.16	726.94	1,2	298.15	29.61
21395	C10H22S2	diisopentyl disulfide	2051-04-9	54.254	726.94	1.2222	214.16	726.94	1,2	298.15	28.46
21400	C10H23N	decylamine	2016-57-1	61.951	663.00	1.2222	288.85	663.00	2	298.15	29.85
21401	C10H23N	methylnonylamine	39093-27-1	55.433	649.40	1.2222	234.65	649.40	2	298.15	26.16
21402	C10H23N	dimethyloctylamine	7378-99-6	51.057	650.60	1.2222	198.15	650.60	2	298.15	24.14
21403	C10H23N	diethylhexylamine	44979-90-0	52.904	617.59	1.2222	198.15	617.59	2	298.15	23.63
21404	C10H23N	ethyloctylamine	4088-36-2	55.638	642.40	1.2222	234.65	642.40	2	298.15	25.96
21405	C10H23N	dipentylamine	2050-92-2	55.871	644.40	1.2222	240.15	644.40	1,2	298.15	26.15
21406	C10H23N	diisopentylamine	544-00-3	51.947	644.56	1.2222	229.15	644.56	1,2	298.15	24.32
21407	C10H23N	N,N-diisopropylisobutylamine	44976-81-0	49.812	644.56	1.2222	198.15	644.56	2	298.15	23.32
21408	C10H23NO	N,N-diisobutylethanolamine	4535-66-4	78.127	770.00	1.2222	270.00	770.00	2	298.15	42.94
21409	C10H23NO	2-dibutylaminoethanol	102-81-8	78.127	770.00	1.2222	270.00	770.00	2	298.15	42.94
21601	C11H10	1-methylnaphthalene	90-12-0	69.492	772.04	1.2222	242.67	772.04	2	298.15	38.27
21602	C11H10	2-methylnaphthalene	91-57-6	70.510	761.00	1.2222	307.20	761.00	2	307.20	37.48
21603	C11H10	methylnaphthalene	1321-94-4	70.051	766.52	1.2222	307.15	766.52	2	307.15	37.47
21702	C11H11N	3-ethylquinoline	1873-54-7	77.952	775.67	1.2222	305.55	775.67	2	305.55	42.27
21703	C11H11N	6-ethylquinoline	19655-60-8	78.194	771.14	1.2222	316.82	771.14	2	316.82	40.96
21704	C11H11N	8-ethylquinoline	19655-56-2	78.740	761.28	1.2222	316.82	761.28	2	316.82	40.79

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
21705	C11H11N	2,3-dimethylquinoline	1721-89-7	77.942	774.45	1.2222	343.15	774.45	2	343.15	38.11
21706	C11H11N	2,4-dimethylquinoline	1198-37-4	77.939	776.40	1.2222	288.00	776.40	2	298.15	43.11
21707	C11H11N	2,6-dimethylquinoline	877-43-0	78.075	773.81	1.2222	330.45	773.81	2	330.45	39.53
21708	C11H11N	2,7-dimethylquinoline	93-37-8	77.994	774.45	1.2222	334.15	774.45	2	334.15	39.11
21709	C11H11N	2,8-dimethylquinoline	1463-17-8	79.327	751.67	1.2222	334.15	751.67	2	334.15	38.67
21710	C11H11N	3,4-dimethylquinoline	2436-92-2	79.606	765.83	1.2222	347.15	765.83	2	347.15	38.06
21711	C11H11N	3,6-dimethylquinoline	20668-26-2	77.731	780.41	1.2222	330.15	780.41	2	330.15	39.69
21712	C11H11N	3,7-dimethylquinoline	20668-28-4	77.658	781.85	1.2222	352.15	781.85	2	352.15	37.36
21713	C11H11N	3,8-dimethylquinoline	20668-29-5	78.417	767.48	1.2222	300.45	767.48	2	300.45	42.73
21714	C11H11N	4,5-dimethylquinoline	59129-74-7	78.118	773.01	1.2222	351.15	773.01	2	351.15	37.26
21715	C11H11N	4,6-dimethylquinoline	826-77-7	77.585	783.28	1.2222	295.15	783.28	2	298.15	43.20
21716	C11H11N	4,8-dimethylquinoline	13362-80-6	77.524	784.50	1.2222	330.15	784.50	2	330.15	39.77
21717	C11H11N	5,6-dimethylquinoline	20668-30-8	77.524	784.50	1.2222	323.15	784.50	2	323.15	40.52
21718	C11H11N	5,7-dimethylquinoline	20150-89-4	77.442	786.16	1.2222	295.15	786.16	2	298.15	43.24
21719	C11H11N	6,7-dimethylquinoline	20668-33-1	77.452	785.94	1.2222	331.15	785.94	2	331.15	39.69
21720	C11H11N	2,5-dimethylquinoline	26190-82-9	77.944	775.10	1.2222	334.15	775.10	2	334.15	39.12
21721	C11H11N	5,8-dimethylquinoline	2623-50-9	77.996	775.10	1.2222	275.45	775.10	2	298.15	43.08
21722	C11H11N	6,8-dimethylquinoline	2436-93-3	78.083	775.10	1.2222	321.72	775.10	2	321.72	40.54
21723	C11H11N	2-ethylquinoline	1613-34-9	77.287	775.10	1.2222	321.72	775.10	2	321.72	40.13
21791.1	C11H12	p-isopropylenylstyrene	16262-48-9	71.275	741.00	1.3387	210.00	741.00	2	298.15	35.78
22025	C11H14	1-methyl-[1,2,3,4-tetrahydronaphthalene]	1559-81-5	63.405	722.13	1.2222	232.30	722.13	2	298.15	33.07
22026	C11H14	2-methyl-[1,2,3,4-tetrahydronaphthalene]	3877-19-8	63.487	721.27	1.2222	230.15	721.27	2	298.15	33.08
22027	C11H14	1,2,3,4-tetrahydro-5-methylnaphthalene	2809-64-5	63.060	721.70	1.2222	250.15	721.70	2	298.15	32.88
22028	C11H14	1,2,3,4-tetrahydro-6-methylnaphthalene	1680-51-9	63.200	721.70	1.2222	233.15	721.70	2	298.15	32.95
22035	C11H14	(1-ethylallyl)benzene	19947-22-9	59.808	703.00	1.2222	236.15	703.00	2	298.15	30.47
22036	C11H14	(1-ethyl-1-propenyl)benzene	4701-36-4	59.619	703.00	1.2222	236.15	703.00	2	298.15	30.37
22037	C11H14	4-isopropylstyrene	2055-40-5	63.128	685.00	1.2222	228.45	685.00	1,2	298.15	31.40
22038	C11H14	(1-methyl-1-butenyl)benzene	53172-84-2	59.447	703.00	1.2222	236.15	703.00	2	298.15	30.28
22039	C11H14	1-pentenylbenzene	826-18-6	58.936	703.00	1.2222	236.15	703.00	2	298.15	30.02
22040	C11H14	3-pentenylbenzene	1745-16-0	59.481	703.00	1.2222	236.15	703.00	2	298.15	30.30
22041	C11H14	4-pentenylbenzene	1075-74-7	59.481	703.00	1.2222	236.15	703.00	2	298.15	30.30
22042	C11H14	2-vinyl-1,3,5-trimethylbenzene	769-25-5	59.208	703.00	1.2222	236.15	703.00	2	298.15	30.16
22054	C11H14Cl2	2,4-bis(chloromethyl)-1,3,5-trimethylbenzene	1585-17-7	65.908	810.00	1.2222	378.65	810.00	2	378.65	30.51
22113	C11H14O2	butyl benzoate	136-60-7	76.990	724.00	1.3722	251.65	724.00	1,2	298.15	37.17
22119	C11H14O2	benzoic acid, p-tert-butyl-	98-73-7	80.699	681.83	1.2222	437.65	511.37	2	437.65	23.00
22137	C11H14O2	4-butylbenzoic acid	20651-71-2	80.699	681.83	1.2222	374.65	511.37	2	374.65	30.45
22153	C11H14O2	4-tert-butylbenzoic acid	1077-58-3	80.699	681.83	1.2222	347.70	511.37	2	347.70	33.75
22154	C11H14O2	3-tert-butylbenzoic acid	7498-54-6	80.699	681.83	1.2222	386.67	511.37	2	386.67	29.00
22208	C11H15Br	4-tert-butylbenzyl bromide	18880-00-7	73.293	751.18	1.2222	283.15	563.39	2	298.15	39.50
22216	C11H15Cl	4-tert-butylbenzyl chloride	19692-45-6	70.674	710.00	1.2222	332.40	532.50	2	332.40	32.67
22304	C11H16	pentylbenzene	538-68-1	60.140	679.90	1.2576	198.15	679.90	1,2	298.15	29.10
22305	C11H16	2-phenylpentane	2719-52-0	60.153	663.62	1.2222	224.65	663.62	2	298.15	29.01
22306	C11H16	3-phenylpentane	1196-58-3	60.051	665.05	1.2222	224.65	665.05	2	298.15	29.03
22307	C11H16	1-phenyl-2-methylbutane	3968-85-2	59.458	673.65	1.2222	224.65	673.65	2	298.15	29.11
22308	C11H16	1-phenyl-3-methylbutane	2049-94-7	59.276	676.37	1.2222	224.65	676.37	2	298.15	29.13
22309	C11H16	2-phenyl-2-methylbutane	2049-95-8	59.057	676.93	1.2222	242.07	676.93	2	298.15	29.05
22310	C11H16	2-phenyl-3-methylbutane	4481-30-5	59.922	665.60	1.2222	209.65	665.60	2	298.15	28.99
22311	C11H16	1-phenyl-2,2-dimethylpropane	1007-26-7	59.686	667.65	1.2222	242.07	667.65	2	298.15	28.96
22312	C11H16	1-methyl-2-butylbenzene	1595-11-5	58.910	683.67	1.2222	252.17	683.67	2	298.15	29.25
22313	C11H16	1-methyl-3-butylbenzene	1595-04-6	59.182	679.41	1.2222	252.17	679.41	2	298.15	29.21
22314	C11H16	1-methyl-4-butylbenzene	1595-05-7	59.000	682.25	1.2222	188.15	682.25	2	298.15	29.24
22315	C11H16	1-methyl-2-sec-butylbenzene	1595-06-8	59.629	671.35	1.2222	237.17	671.35	2	298.15	29.09
22316	C11H16	1-methyl-3-sec-butylbenzene	1772-10-7	59.826	668.49	1.2222	237.17	668.49	2	298.15	29.07
22317	C11H16	1-methyl-4-sec-butylbenzene	1595-16-0	59.532	672.78	1.2222	237.17	672.78	2	298.15	29.11
22318	C11H16	1-methyl-2-isobutylbenzene	36301-29-8	59.629	671.35	1.2222	199.85	671.35	2	298.15	29.09
22319	C11H16	1-methyl-3-isobutylbenzene	5160-99-6	59.826	668.49	1.2222	237.17	668.49	2	298.15	29.07
22320	C11H16	1-methyl-4-isobutylbenzene	5161-04-6	59.629	671.35	1.2222	237.17	671.35	2	298.15	29.09
22321	C11H16	1-methyl-2-tert-butyl benzene	1074-92-6	58.386	687.73	1.2222	222.83	687.73	2	298.15	29.15
22322	C11H16	1-methyl-3-tert-butylbenzene	1075-38-3	59.439	671.48	1.2222	231.78	671.48	2	298.15	29.01
22323	C11H16	1-methyl-4-tert-butylbenzene	98-51-1	59.098	676.56	1.2222	220.64	676.56	2	298.15	29.05
22324	C11H16	1-ethyl-2-propylbenzene	16021-20-8	59.368	676.56	1.2222	252.17	676.56	2	298.15	29.18
22325	C11H16	1-ethyl-3-propylbenzene	20024-91-3	59.557	673.72	1.2222	252.17	673.72	2	298.15	29.16
22326	C11H16	1-ethyl-4-propylbenzene	20024-90-2	59.182	679.41	1.2222	252.17	679.41	2	298.15	29.21
22327	C11H16	1-ethyl-2-isopropylbenzene	18970-44-0	60.230	662.77	1.2222	237.17	662.77	2	298.15	29.01
22328	C11H16	1-ethyl-3-isopropylbenzene	4920-99-4	60.026	665.63	1.2222	237.17	665.63	2	298.15	29.04
22329	C11H16	1-ethyl-4-isopropylbenzene	4218-48-8	59.570	672.21	1.2222	237.17	672.21	2	298.15	29.10
22330	C11H16	1,2-dimethyl-3-propylbenzene	17059-44-8	58.740	686.65	1.2222	264.69	686.65	2	298.15	29.28
22331	C11H16	1,2-dimethyl-4-propylbenzene	3982-66-9	58.899	684.10	1.2222	253.15	684.10	2	298.15	29.26
22332	C11H16	1,3-dimethyl-2-propylbenzene	17059-45-9	59.015	682.26	1.2222	264.69	682.26	2	298.15	29.24
22333	C11H16	1,3-dimethyl-4-propylbenzene	61827-85-8	59.106	680.84	1.2222	264.69	680.84	2	298.15	29.23
22334	C11H16	1,3-dimethyl-5-propylbenzene	3982-64-7	59.511	674.65	1.2222	214.05	674.65	2	298.15	29.17
22335	C11H16	1,4-dimethyl-2-propylbenzene	3042-50-0	59.317	677.57	1.2222	264.69	677.57	2	298.15	29.20
22336	C11H16	1,2-dimethyl-3-isopropylbenzene	22539-65-7	59.076	679.93	1.2222	249.69	679.93	2	298.15	29.18
22337	C11H16	1,2-dimethyl-4-isopropylbenzene	4132-77-8	59.150	678.79	1.2222	249.69	678.79	2	298.15	29.17
22338	C11H16	1,3-dimethyl-2-isopropylbenzene	14411-75-7	59.413	674.78	1.2222	249.69	674.78	2	298.15	29.13
22339	C11H16	1,3-dimethyl-4-isopropylbenzene	4706-89-2	59.404	674.93	1.2222	191.15	674.93	2	298.15	29.13
22340	C11H16	1,3-dimethyl-5-isopropylbenzene	4706-90-5	59.851	668.35	1.2222	249.69	668.35	2	298.15	29.07
22341	C11H16	1,4-dimethyl-2-isopropylbenzene	4132-72-3	59.683	670.78	1.2222	249.69	670.78	2	298.15	29.10
22342	C11H16	1-methyl-2,3-diethylbenzene	13632-93-4	59.106	680.84	1.2222	264.69	680.84	2	298.15	29.23
22343	C11H16	1-methyl-2,4-diethylbenzene	1758-85-6	59.253	678.57	1.2222	264.69	678.57	2	298.15	29.21

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
22344	C11H16	1-methyl-2,5-diethylbenzene	13632-94-5	59.061	681.55	1.2222	264.69	681.55	2	298.15	29.24
22345	C11H16	1-methyl-2,6-diethyl benzene	13632-95-6	58.908	683.96	1.2222	264.69	683.96	2	298.15	29.26
22346	C11H16	1-methyl-3,4-diethylbenzene	13732-80-4	59.383	676.58	1.2222	264.69	676.58	2	298.15	29.19
22347	C11H16	1-methyl-3,5-diethylbenzene	2050-24-0	59.657	672.46	1.2222	199.03	672.46	2	298.15	29.15
22348	C11H16	1,2,3-trimethyl-4-ethylbenzene	61827-86-9	57.989	699.56	1.2222	277.21	699.56	2	298.15	29.41
22349	C11H16	1,2,3-trimethyl-5-ethylbenzene	31366-00-4	58.369	693.04	1.2222	277.21	693.04	2	298.15	29.35
22350	C11H16	1,2,4-trimethyl-3-ethylbenzene	61827-87-0	58.302	694.17	1.2222	277.21	694.17	2	298.15	29.36
22351	C11H16	1,2,4-trimethyl-5-ethylbenzene	17851-27-3	58.607	689.07	1.2222	259.65	689.07	2	298.15	29.31
22352	C11H16	1,2,4-trimethyl-6-ethylbenzene	---	58.607	689.07	1.2222	259.65	689.07	2	298.15	29.31
22353	C11H16	1,3,5-trimethyl-2-ethylbenzene	3982-67-0	58.659	688.22	1.2222	257.65	688.22	2	298.15	29.31
22354	C11H16	pentamethylbenzene	700-12-9	57.173	714.84	1.2222	327.45	714.84	2	327.45	27.04
22355	C11H16	1-ethyl-2,3,5-trimethylbenzene	18262-85-6	59.509	678.03	1.2222	243.06	678.03	2	298.15	29.31
22356	C11H16	sec-pentylbenzene	29316-05-0	59.166	678.03	1.2222	203.25	678.03	2	298.15	29.14
22358	C11H16	1,10-undecadiyne	4117-15-1	60.645	674.90	1.2222	256.15	506.18	2	298.15	29.74
22399	C11H16O	p-tert-amylphenol	80-46-6	61.581	751.00	1.2222	366.00	751.00	2	366.00	27.21
22400	C11H16O	2-butyl-4-methylphenol	6891-45-8	63.540	751.00	1.2222	292.15	751.00	2	298.15	34.24
22401	C11H16O	2-tert-butyl-4-methylphenol	2409-55-4	63.015	751.00	1.2222	324.65	751.00	2	324.65	31.55
22402	C11H16O	2-tert-butyl-5-methylphenol	88-60-8	64.390	751.00	1.2222	319.65	751.00	2	319.65	32.70
22403	C11H16O	2-tert-butyl-6-methylphenol	2219-82-1	63.423	751.00	1.2222	304.15	751.00	2	304.15	33.62
22404	C11H16O	4-tert-butyl-2-methylphenol	98-27-1	63.015	751.00	1.2222	300.65	751.00	2	300.65	33.73
22405	C11H16O	4-isopentylphenol	1805-61-4	61.979	751.00	1.2222	302.15	751.00	2	302.15	33.04
22406	C11H16O	5-methyl-2-sec-butylphenol	29472-95-5	62.495	751.00	1.2222	322.97	751.00	2	322.97	31.44
22407	C11H16O	pentamethylphenol	2819-86-5	61.298	751.00	1.2222	401.15	751.00	2	401.15	24.10
22408	C11H16O	4-pentylphenol	14938-35-3	62.236	751.00	1.2222	296.15	751.00	2	298.15	33.54
22439	C11H16O	2-(1-methylbutyl)phenol	87-26-3	62.691	751.00	1.2222	322.97	751.00	2	322.97	31.53
22440	C11H16O	o-amylphenol	136-81-2	64.390	751.00	1.2222	322.97	751.00	2	322.97	32.39
22441	C11H16O	2-sec-amylphenol	26401-74-1	69.254	751.00	1.2222	322.97	751.00	2	322.97	34.84
22442	C11H16O	4-sec-amylphenol	25735-67-5	69.127	751.00	1.2222	322.97	751.00	2	322.97	34.77
22492	C11H17N	N,N-diethyl-2-methylaniline	606-46-2	72.853	700.00	1.2222	213.15	700.00	2	298.15	36.97
22493	C11H17N	N,N-diethyl-4-methylaniline	613-48-9	69.574	700.00	1.2222	319.40	700.00	2	319.40	33.04
22494	C11H17N	4-isopentylaniline	104177-72-2	65.230	700.00	1.2222	319.40	700.00	2	319.40	30.98
22495	C11H17N	N-isopentylaniline	2051-84-5	65.607	700.00	1.2222	319.40	700.00	2	319.40	31.15
22496	C11H17N	2,3,4,5,6-pentamethylaniline	2243-30-3	62.222	700.00	1.2222	425.65	700.00	2	425.65	19.80
22497	C11H17N	p-tert-pentylaniline	2049-92-5	64.706	700.00	1.2222	319.40	700.00	2	319.40	30.73
22498	C11H17N	N-ethyl-alpha-methylbenzeneethanamine	457-87-4	80.521	731.30	1.2222	283.15	548.48	2	298.15	42.45
22499	C11H17N	N-benzyl-tert-butylamine	3378-72-1	80.521	731.30	1.2222	283.15	548.48	2	298.15	42.45
22500	C11H17N	N-butylbenzylamine	2403-22-7	80.521	731.30	1.2222	283.15	548.48	2	298.15	42.45
22501	C11H17N	N,N-diethyl-m-toluidine	91-67-8	69.175	700.00	1.2222	319.40	700.00	2	319.40	32.85
22502	C11H17N	N-ethyl-N-isopropylaniline	54813-77-3	70.380	700.00	1.2222	319.40	700.00	2	319.40	33.42
22503	C11H17N	N,N,2,4,6-pentamethylaniline	13021-15-3	72.019	700.00	1.2222	319.40	700.00	2	319.40	34.20
22504	C11H17N	4-pentylaniline	33228-44-3	64.506	700.00	1.2222	319.40	700.00	2	319.40	30.63
22505	C11H17N	N-pentylaniline	2655-27-8	65.080	700.00	1.2222	319.40	700.00	2	319.40	30.90
22554	C11H18	1-undecen-3-yne	74744-28-8	67.053	640.00	1.2222	300.00	640.00	2	300.00	30.95
22634	C11H18S	3-heptylthiophene	65016-61-7	55.992	725.00	1.2222	330.00	725.00	2	330.00	26.65
22665	C11H20	1-methyl-cis-decahydronaphthalene	---	55.768	752.51	1.2222	225.04	752.51	2	298.15	30.10
22666	C11H20	1-methyl-trans-decahydronaphthalene	---	55.479	740.84	1.2222	237.65	740.84	2	298.15	29.57
22667	C11H20	2-methyl-cis-decahydronaphthalene	---	54.779	713.14	1.2222	225.04	713.14	2	298.15	28.26
22668	C11H20	2-methyl-trans-decahydronaphthalene	4683-94-7	54.478	701.48	1.2222	237.65	701.48	2	298.15	27.70
22669	C11H20	4a-methyl-cis-decahydronaphthalene	2547-26-4	54.741	711.69	1.2222	225.04	711.69	2	298.15	28.19
22670	C11H20	4a-methyl-trans-decahydronaphthalene	2547-27-5	54.365	697.11	1.2222	237.65	697.11	2	298.15	27.48
22671	C11H20	1-hexylcyclopentene	4291-99-0	43.382	665.48	1.2222	189.32	665.48	2	298.15	20.98
22672	C11H20	1-undecyne	2243-98-3	56.212	650.99	1.2222	248.16	650.99	1,2	298.15	26.59
22673	C11H20	2-undecyne	60212-29-5	56.648	669.50	1.2222	243.05	669.50	2	298.15	27.56
22674	C11H20	3-undecyne	60212-30-8	56.952	661.12	1.2222	319.33	661.12	2	319.33	25.43
22675	C11H20	4-undecyne	60212-31-9	56.898	660.54	1.2222	198.45	660.54	2	298.15	27.32
22676	C11H20	5-undecyne	2294-72-6	56.863	660.54	1.2222	199.05	660.54	2	298.15	27.30
22677	C11H20	3,3-dimethyl-4-nonyne	29022-31-9	57.689	660.54	1.2222	241.61	660.54	2	298.15	27.70
22701	C11H20O2	2-ethylhexyl acrylate	103-11-7	59.241	655.00	1.2222	183.15	655.00	2	298.15	28.20
22704	C11H20O2	cis-9-undecenoic acid	116836-30-7	53.457	796.00	1.2222	275.65	796.00	2	298.15	30.12
22705	C11H20O2	trans-9-undecenoic acid	37973-84-5	53.517	796.00	1.2222	292.15	796.00	2	298.15	30.16
22706	C11H20O2	10-undecenoic acid	112-38-9	53.620	796.00	1.2222	297.65	796.00	2	298.15	30.22
22707	C11H20O2	vinyl nonanoate	6280-03-1	65.751	672.00	1.2222	214.45	672.00	2	298.15	32.11
22708	C11H20O2	allyl octanoate	4230-97-1	64.553	672.00	1.2222	214.45	672.00	2	298.15	31.52
22713	C11H20O2	N-octyl acrylate	2499-59-4	65.751	672.00	1.2222	214.45	672.00	2	298.15	32.11
22714	C11H20O2	citronellyl formate	105-85-1	65.751	672.00	1.2222	214.45	672.00	2	298.15	32.11
22715	C11H20O2	cis-3-hexenyl 2-methylbutyrate	53398-85-9	65.751	672.00	1.2222	214.45	672.00	2	298.15	32.11
22716	C11H20O2	cis-3-hexenyl valerate	35852-46-1	65.751	672.00	1.2222	214.45	672.00	2	298.15	32.11
22718	C11H20O2	isooctyl acrylate	29590-42-9	65.751	672.00	1.2222	214.45	672.00	2	298.15	32.11
22749	C11H21Br	cis-1-bromo-1-undecene	66142-59-4	57.786	699.36	1.2222	267.95	699.36	2	298.15	29.30
22750	C11H21Br	trans-1-bromo-1-undecene	66142-60-7	57.786	699.36	1.2222	267.95	699.36	2	298.15	29.30
22751	C11H21Br	11-bromo-1-undecene	7766-50-9	57.786	699.36	1.2222	267.95	699.36	2	298.15	29.30
22755	C11H21Br3	1,1,1-tribromoundecane	62127-68-8	84.976	795.21	1.2222	395.05	795.21	2	395.05	36.71
22756	C11H21Cl	cis-1-chloro-1-undecene	66172-73-4	61.147	700.84	1.2222	238.07	700.84	2	298.15	31.06
22757	C11H21Cl	trans-1-chloro-1-undecene	66142-61-8	61.147	700.84	1.2222	238.07	700.84	2	298.15	31.06
22762	C11H21Cl3	1,1,1-trichloroundecane	3922-25-6	70.630	738.37	1.2222	305.41	738.37	2	305.41	36.78
22764	C11H21F	cis-1-fluoro-1-undecene	66172-74-5	49.790	615.67	1.2222	240.30	615.67	2	298.15	22.16
22765	C11H21F	trans-1-fluoro-1-undecene	66142-62-9	49.790	615.67	1.2222	240.30	615.67	2	298.15	22.16
22767	C11H21F3	1,1,1-trifluoroundecane	62126-97-0	51.646	620.00	1.2222	312.10	620.00	2	312.10	21.95
22768	C11H21I	cis-1-iodo-1-undecene	66142-63-0	57.880	735.45	1.2222	266.21	735.45	2	298.15	30.66
22769	C11H21I	trans-1-iodo-1-undecene	66142-64-1	57.880	735.45	1.2222	266.21	735.45	2	298.15	30.66

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
22770	C11H21I3	1,1,1-triiodoundecane	---	64.863	978.49	1.2222	389.83	978.49	2	389.83	34.85
22771	C11H21N	undecanenitrile	2244-07-7	56.812	706.20	1.2222	267.35	706.20	2	298.15	29.06
22791	C11H22	hexylcyclopentane	4457-00-5	58.749	667.67	1.2222	200.16	667.67	2	298.15	28.51
22792	C11H22	pentylcyclohexane	4292-92-6	56.937	674.01	1.2222	215.66	674.01	2	298.15	27.89
22793	C11H22	isopentylcyclohexane	54105-76-9	56.291	674.01	1.2222	215.66	674.01	2	298.15	27.57
22794	C11H22	cycloundecane	294-41-7	54.859	728.78	1.2222	251.45	728.78	2	298.15	28.84
22795	C11H22	1-undecene	821-95-4	55.086	638.00	1.2928	223.99	638.00	1,2	298.15	24.40
22796	C11H22	cis-2-undecene	821-96-5	53.653	637.84	1.2222	206.65	637.84	2	298.15	24.84
22797	C11H22	trans-2-undecene	693-61-8	53.336	637.84	1.2222	224.85	637.84	2	298.15	24.69
22798	C11H22	3-undecene	60669-40-1	53.425	637.84	1.2222	211.15	637.84	2	298.15	24.73
22799	C11H22	cis-4-undecene	821-98-7	53.345	637.84	1.2222	176.15	637.84	2	298.15	24.70
22800	C11H22	trans-4-undecene	693-62-9	53.381	637.84	1.2222	209.45	637.84	2	298.15	24.71
22801	C11H22	cis-5-undecene	764-96-5	53.318	637.84	1.2222	166.65	637.84	2	298.15	24.69
22802	C11H22	trans-5-undecene	764-97-6	53.292	637.84	1.2222	212.05	637.84	2	298.15	24.67
22803	C11H22	2-methyl-1-decene	13151-27-4	53.190	637.68	1.2222	221.67	637.68	2	298.15	24.62
22805	C11H22Br2	1,1-dibromoundecane	62168-28-9	72.766	754.56	1.2222	317.83	754.56	2	317.83	37.30
22806	C11H22Br2	1,11-dibromoundecane	16696-65-4	72.766	754.56	1.2222	439.15	754.56	2	439.15	25.06
22807	C11H22Cl2	1,1-dichloroundecane	822-01-5	74.788	720.08	1.2222	258.07	720.08	2	298.15	38.91
22809	C11H22F2	1,1-difluoroundecane	62127-44-0	57.142	640.20	1.2222	262.53	640.20	2	298.15	26.56
22810	C11H22I2	1,1-diiodoundecane	66142-53-8	72.933	855.13	1.2222	314.35	855.13	2	314.35	41.66
22813	C11H22N2	(S)-1-[(1-methyl-2-pyrrolidinyl)methyl]piperidine	84466-85-3	48.464	714.47	1.2222	283.15	535.85	2	298.15	25.05
22822	C11H22O	undecanal	112-44-7	62.962	672.00	1.2222	273.15	672.00	2	298.15	30.75
22823	C11H22O	2-undecanone	112-12-9	55.325	678.01	1.2222	285.95	678.01	2	298.15	27.25
22824	C11H22O	3-undecanone	2216-87-7	55.283	678.01	1.2222	285.15	678.01	2	298.15	27.23
22825	C11H22O	4-undecanone	14476-37-0	55.665	678.01	1.2222	275.45	678.01	2	298.15	27.42
22826	C11H22O	5-undecanone	33083-83-9	55.283	678.01	1.2222	274.15	678.01	2	298.15	27.23
22827	C11H22O	6-undecanone	927-49-1	55.058	678.01	1.2222	287.65	678.01	1,2	298.15	27.12
22828	C11H22O	10-undecen-1-ol	112-43-6	49.222	657.00	0.8000	272.15	657.00	2	298.15	30.34
22829	C11H22O	2-undecen-4-ol	22381-86-8	62.373	657.00	1.2222	280.00	657.00	2	298.15	29.78
22830	C11H22O	9-undecen-1-ol	112-46-9	49.138	657.00	0.8000	279.15	657.00	2	298.15	30.29
22831	C11H22O	4-tert-amylcyclohexanol	5349-51-9	98.753	675.00	1.2222	298.65	675.00	2	298.65	48.36
22834	C11H22O	2-methyl-1-decanal	19009-56-4	63.052	672.00	1.2222	273.15	672.00	2	298.15	30.79
22835	C11H22O2	undecanoic acid	112-37-8	55.626	725.00	1.2222	301.65	725.00	2	301.65	28.82
22836	C11H22O2	decyl formate	5451-52-5	62.725	685.60	1.2222	271.93	685.60	2	298.15	31.23
22837	C11H22O2	nonyl acetate	143-13-5	58.426	678.70	1.2222	247.15	678.70	2	298.15	28.81
22838	C11H22O2	octyl propanoate	142-60-9	60.034	677.20	1.2222	231.55	677.20	2	298.15	29.54
22839	C11H22O2	heptyl butanoate	5870-93-9	57.251	675.50	1.2222	215.65	675.50	2	298.15	28.10
22840	C11H22O2	butyl heptanoate	5454-28-4	58.716	652.00	1.2222	205.65	652.00	2	298.15	27.82
22841	C11H22O2	ethyl nonanoate	123-29-5	58.778	652.00	1.2222	236.45	652.00	2	298.15	27.85
22842	C11H22O2	hexyl pentanoate	1117-59-5	58.724	652.00	1.2222	210.05	652.00	2	298.15	27.82
22843	C11H22O2	isopentyl hexanoate	2198-61-0	58.662	652.00	1.2222	226.73	652.00	2	298.15	27.79
22844	C11H22O2	pentyl hexanoate	540-07-8	58.701	652.00	1.2222	226.15	652.00	2	298.15	27.81
22845	C11H22O2	isobutyl heptanoate	7779-80-8	57.230	652.00	1.2222	226.73	652.00	2	298.15	27.12
22846	C11H22O2	isopropyl octanoate	5458-59-3	57.949	652.00	1.2222	226.73	652.00	2	298.15	27.46
22847	C11H22O2	propyl octanoate	624-13-5	58.732	652.00	1.2222	226.95	652.00	2	298.15	27.83
22848	C11H22O2	methyl decanoate	110-42-9	60.174	652.00	1.2222	255.15	652.00	1,2	298.15	28.51
22851	C11H22O2	6-methyldecanoic acid	53696-14-3	52.104	725.00	1.2222	301.65	725.00	2	301.65	27.00
22853	C11H22O2	hexyl 2,2-dimethylpropanoate	5434-57-1	59.109	677.20	1.2222	231.55	677.20	2	298.15	29.08
22854	C11H22O2	hexyl isovalerate	10032-13-0	57.949	652.00	1.2222	226.73	652.00	2	298.15	27.46
22855	C11H22O2	hexyl 2-methylbutyrate	10032-15-2	57.949	652.00	1.2222	226.73	652.00	2	298.15	27.46
22856	C11H22O2	3,5,5-trimethylhexyl acetate	58430-94-7	58.152	678.70	1.2222	247.15	678.70	2	298.15	28.67
22866	C11H22S	thiacyclododecane	294-65-5	58.157	796.44	1.2222	287.18	796.44	2	298.15	32.78
22870	C11H23Br	1-bromoundecane	693-67-4	57.571	713.07	1.2222	263.45	713.07	2	298.15	29.70
22872	C11H23Cl	1-chloroundecane	2473-03-2	58.008	696.43	1.2222	256.25	696.43	1,2	298.15	29.30
22875	C11H23F	1-fluoroundecane	506-05-8	65.271	641.60	1.2222	257.15	641.60	2	298.15	30.41
22876	C11H23I	1-iodoundecane	4282-44-4	59.514	715.99	1.2222	275.15	715.99	2	298.15	30.81
22878	C11H23N	1-(1-ethyl-1-methylpropyl)piperidine	14045-26-2	50.635	691.75	1.2222	293.90	518.81	2	298.15	25.42
22879	C11H23N	1-hexylpiperidine	7335-01-5	49.905	699.14	1.2222	293.90	524.35	2	298.15	25.30
22885	C11H23NO2	1-nitroundecane	2216-25-3	59.081	729.26	1.2222	356.84	729.26	2	356.84	25.99
22890	C11H24	undecane	1120-21-4	55.723	638.76	1.3237	247.57	638.76	1,2	298.15	24.24
22891	C11H24	2-methyldecane	6975-98-0	52.516	631.76	1.2222	224.31	631.76	2	298.15	24.06
22892	C11H24	3-methyldecane	13151-34-3	52.488	632.86	1.2222	180.25	632.86	2	298.15	24.10
22893	C11H24	4-methyldecane	2847-72-5	52.561	629.99	1.2222	181.15	629.99	2	298.15	24.01
22894	C11H24	5-methyldecane	13151-35-4	52.628	627.40	1.2222	198.23	627.40	2	298.15	23.93
22895	C11H24	3-ethylnonane	17302-11-3	52.558	630.13	1.2222	198.23	630.13	2	298.15	24.01
22896	C11H24	4-ethylnonane	5911-05-7	52.699	624.66	1.2222	198.23	624.66	2	298.15	23.85
22897	C11H24	5-ethylnonane	17302-12-4	52.843	619.20	1.2222	198.23	619.20	2	298.15	23.68
22898	C11H24	2,2-dimethylnonane	17302-14-6	52.142	626.62	1.2222	215.65	626.62	2	298.15	23.68
22899	C11H24	2,3-dimethylnonane	2884-06-2	52.287	631.11	1.2222	183.23	631.11	2	298.15	23.93
22900	C11H24	2,4-dimethylnonane	17302-24-8	52.562	620.12	1.2222	183.23	620.12	2	298.15	23.59
22901	C11H24	2,5-dimethylnonane	17302-27-1	52.527	621.49	1.2222	183.23	621.49	2	298.15	23.63
22902	C11H24	2,6-dimethylnonane	17302-28-2	52.527	621.49	1.2222	183.23	621.49	2	298.15	23.63
22903	C11H24	2,7-dimethylnonane	17302-29-3	52.492	622.87	1.2222	183.23	622.87	2	298.15	23.68
22904	C11H24	2,8-dimethylnonane	17302-30-6	52.389	626.99	1.2222	183.23	626.99	2	298.15	23.81
22905	C11H24	3,3-dimethylnonane	17302-15-7	52.076	629.38	1.2222	215.65	629.38	2	298.15	23.76
22906	C11H24	3,4-dimethylnonane	17302-22-6	52.321	629.74	1.2222	183.23	629.74	2	298.15	23.89
22907	C11H24	3,5-dimethylnonane	17302-25-9	52.492	622.87	1.2222	183.23	622.87	2	298.15	23.68
22908	C11H24	3,6-dimethylnonane	17302-31-7	52.423	625.61	1.2222	183.23	625.61	2	298.15	23.76
22909	C11H24	3,7-dimethylnonane	17302-32-8	52.355	628.36	1.2222	183.23	628.36	2	298.15	23.85
22910	C11H24	4,4-dimethylnonane	17302-18-0	52.208	623.85	1.2222	215.65	623.85	2	298.15	23.59

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
22911	C11H24	4,5-dimethylnonane	17302-23-7	52.423	625.61	1.2222	183.23	625.61	2	298.15	23.76
22912	C11H24	4,6-dimethylnonane	17302-26-0	52.527	621.49	1.2222	183.23	621.49	2	298.15	23.63
22913	C11H24	5,5-dimethylnonane	6414-96-6	52.242	622.47	1.2222	215.65	622.47	2	298.15	23.55
22914	C11H24	4-propyloctane	17302-13-5	52.843	619.20	1.2222	198.23	619.20	2	298.15	23.68
22915	C11H24	4-isopropyloctane	62016-15-3	52.562	620.12	1.2222	183.23	620.12	2	298.15	23.59
22916	C11H24	2-methyl-3-ethyloctane	62016-16-4	52.423	625.61	1.2222	183.23	625.61	2	298.15	23.76
22917	C11H24	2-methyl-4-ethyloctane	62016-17-5	52.633	617.37	1.2222	183.23	617.37	2	298.15	23.50
22918	C11H24	2-methyl-5-ethyloctane	62016-18-6	52.562	620.12	1.2222	183.23	620.12	2	298.15	23.59
22919	C11H24	2-methyl-6-ethyloctane	62016-19-7	52.423	625.61	1.2222	183.23	625.61	2	298.15	23.76
22920	C11H24	3-methyl-3-ethyloctane	17302-16-8	51.956	634.50	1.2222	215.65	634.50	2	298.15	23.92
22921	C11H24	3-methyl-4-ethyloctane	62016-20-0	52.423	625.61	1.2222	183.23	625.61	2	298.15	23.76
22922	C11H24	3-methyl-5-ethyloctane	62016-21-1	52.633	617.37	1.2222	183.23	617.37	2	298.15	23.50
22923	C11H24	3-methyl-6-ethyloctane	62016-22-2	52.423	625.61	1.2222	183.23	625.61	2	298.15	23.76
22924	C11H24	4-methyl-3-ethyloctane	62016-23-3	52.389	626.99	1.2222	183.23	626.99	2	298.15	23.81
22925	C11H24	4-methyl-4-ethyloctane	17302-19-1	52.142	626.62	1.2222	215.65	626.62	2	298.15	23.68
22926	C11H24	4-methyl-5-ethyloctane	62016-24-4	52.492	622.87	1.2222	183.23	622.87	2	298.15	23.68
22927	C11H24	4-methyl-6-ethyloctane	62016-25-5	52.492	622.87	1.2222	183.23	622.87	2	298.15	23.68
22928	C11H24	2,2,3-trimethyloctane	62016-26-6	51.814	629.17	1.2222	200.65	629.17	2	298.15	23.63
22929	C11H24	2,2,4-trimethyloctane	18932-14-4	52.055	618.73	1.2222	200.65	618.73	2	298.15	23.30
22930	C11H24	2,2,5-trimethyloctane	62016-27-7	52.072	618.03	1.2222	200.65	618.03	2	298.15	23.28
22931	C11H24	2,2,6-trimethyloctane	62016-28-8	51.974	622.21	1.2222	200.65	622.21	2	298.15	23.42
22932	C11H24	2,2,7-trimethyloctane	62016-29-9	52.105	616.64	1.2222	200.65	616.64	2	298.15	23.24
22933	C11H24	2,3,3-trimethyloctane	62016-30-2	51.720	633.34	1.2222	200.65	633.34	2	298.15	23.76
22934	C11H24	2,3,4-trimethyloctane	62016-31-3	52.137	626.67	1.2222	168.23	626.67	2	298.15	23.68
22935	C11H24	2,3,5-trimethyloctane	62016-32-4	52.237	622.52	1.2222	168.23	622.52	2	298.15	23.55
22936	C11H24	2,3,6-trimethyloctane	62016-33-5	52.137	626.67	1.2222	168.23	626.67	2	298.15	23.68
22937	C11H24	2,3,7-trimethyloctane	62016-34-6	52.170	625.29	1.2222	168.23	625.29	2	298.15	23.63
22938	C11H24	2,4,4-trimethyloctane	62016-35-7	52.072	618.03	1.2222	200.65	618.03	2	298.15	23.28
22939	C11H24	2,4,5-trimethyloctane	62016-36-8	52.271	621.14	1.2222	168.23	621.14	2	298.15	23.50
22940	C11H24	2,4,6-trimethyloctane	62016-37-9	52.339	618.37	1.2222	168.23	618.37	2	298.15	23.42
22941	C11H24	2,4,7-trimethyloctane	62016-38-0	52.442	614.22	1.2222	168.23	614.22	2	298.15	23.28
22942	C11H24	2,5,5-trimethyloctane	62016-39-1	52.039	619.43	1.2222	200.65	619.43	2	298.15	23.33
22943	C11H24	2,5,6-trimethyloctane	62016-14-2	52.203	623.90	1.2222	168.23	623.90	2	298.15	23.59
22944	C11H24	2,6,6-trimethyloctane	54166-32-4	51.909	624.99	1.2222	200.65	624.99	2	298.15	23.50
22945	C11H24	3,3,4-trimethyloctane	62016-40-4	51.720	633.34	1.2222	200.65	633.34	2	298.15	23.76
22946	C11H24	3,3,5-trimethyloctane	62016-41-5	51.974	622.21	1.2222	200.65	622.21	2	298.15	23.42
22947	C11H24	3,3,6-trimethyloctane	62016-42-6	51.877	626.38	1.2222	200.65	626.38	2	298.15	23.55
22948	C11H24	3,4,4-trimethyloctane	62016-43-7	51.751	631.95	1.2222	200.65	631.95	2	298.15	23.72
22949	C11H24	3,4,5-trimethyloctane	62016-44-8	52.104	628.05	1.2222	168.23	628.05	2	298.15	23.72
22950	C11H24	3,4,6-trimethyloctane	62016-45-9	52.170	625.29	1.2222	168.23	625.29	2	298.15	23.63
22951	C11H24	3,5,5-trimethyloctane	61868-94-8	52.105	616.64	1.2222	200.65	616.64	2	298.15	23.24
22952	C11H24	4,4,5-trimethyloctane	61868-95-9	51.782	630.56	1.2222	200.65	630.56	2	298.15	23.68
22953	C11H24	4-tert-butylheptane	60302-21-8	51.974	622.21	1.2222	200.65	622.21	2	298.15	23.42
22954	C11H24	2-methyl-4-propylheptane	61868-96-0	52.705	614.62	1.2222	183.23	614.62	2	298.15	23.42
22955	C11H24	3-methyl-4-propylheptane	61868-97-1	52.527	621.49	1.2222	183.23	621.49	2	298.15	23.63
22956	C11H24	4-methyl-4-propylheptane	17302-20-4	52.208	623.85	1.2222	215.65	623.85	2	298.15	23.59
22957	C11H24	2-methyl-3-isopropylheptane	6876-18-2	52.193	624.32	1.2222	168.23	624.32	2	298.15	23.60
22958	C11H24	2-methyl-4-isopropylheptane	61868-98-2	52.407	615.61	1.2222	168.23	615.61	2	298.15	23.33
22959	C11H24	3-methyl-4-isopropylheptane	61868-99-3	52.237	622.52	1.2222	168.23	622.52	2	298.15	23.55
22960	C11H24	4-methyl-4-isopropylheptane	61869-00-9	51.782	630.56	1.2222	200.65	630.56	2	298.15	23.68
22961	C11H24	3,3-diethylheptane	17302-17-9	51.918	636.16	1.2222	215.65	636.16	2	298.15	23.97
22962	C11H24	3,4-diethylheptane	61869-01-0	52.492	622.87	1.2222	183.23	622.87	2	298.15	23.68
22963	C11H24	3,5-diethylheptane	61869-02-1	52.527	621.49	1.2222	183.23	621.49	2	298.15	23.63
22964	C11H24	4,4-diethylheptane	17302-21-5	52.132	627.03	1.2222	215.65	627.03	2	298.15	23.69
22965	C11H24	2,2-dimethyl-3-ethylheptane	61869-03-2	51.909	624.99	1.2222	200.65	624.99	2	298.15	23.50
22966	C11H24	2,2-dimethyl-4-ethylheptane	62016-46-0	52.172	613.86	1.2222	200.65	613.86	2	298.15	23.15
22967	C11H24	2,2-dimethyl-5-ethylheptane	62016-47-1	52.039	619.43	1.2222	200.65	619.43	2	298.15	23.33
22968	C11H24	2,3-dimethyl-3-ethylheptane	61868-21-1	51.782	630.56	1.2222	200.65	630.56	2	298.15	23.68
22969	C11H24	2,3-dimethyl-4-ethylheptane	61868-22-2	52.170	625.29	1.2222	168.23	625.29	2	298.15	23.63
22970	C11H24	2,3-dimethyl-5-ethylheptane	61868-23-3	52.203	623.90	1.2222	168.23	623.90	2	298.15	23.59
22971	C11H24	2,4-dimethyl-3-ethylheptane	61868-24-4	52.170	625.29	1.2222	168.23	625.29	2	298.15	23.63
22972	C11H24	2,4-dimethyl-4-ethylheptane	61868-25-5	52.105	616.64	1.2222	247.15	616.64	2	298.15	23.24
22973	C11H24	2,4-dimethyl-5-ethylheptane	61868-26-6	52.271	621.14	1.2222	168.23	621.14	2	298.15	23.50
22974	C11H24	2,5-dimethyl-3-ethylheptane	61868-27-7	52.271	621.14	1.2222	168.23	621.14	2	298.15	23.50
22975	C11H24	2,5-dimethyl-4-ethylheptane	61868-28-8	52.304	619.75	1.2222	168.23	619.75	2	298.15	23.46
22976	C11H24	2,5-dimethyl-5-ethylheptane	61868-29-9	51.845	627.77	1.2222	200.65	627.77	2	298.15	23.59
22977	C11H24	2,6-dimethyl-3-ethylheptane	61868-30-2	52.271	621.14	1.2222	168.23	621.14	2	298.15	23.50
22978	C11H24	2,6-dimethyl-4-ethylheptane	61868-31-3	52.477	612.84	1.2222	168.23	612.84	2	298.15	23.24
22979	C11H24	3,3-dimethyl-4-ethylheptane	61868-32-4	51.782	630.56	1.2222	200.65	630.56	2	298.15	23.68
22980	C11H24	3,3-dimethyl-5-ethylheptane	61868-33-5	51.941	623.60	1.2222	200.65	623.60	2	298.15	23.46
22981	C11H24	3,4-dimethyl-3-ethylheptane	61868-34-6	51.628	637.52	1.2222	200.65	637.52	2	298.15	23.89
22982	C11H24	3,4-dimethyl-4-ethylheptane	61868-35-7	51.751	631.95	1.2222	200.65	631.95	2	298.15	23.72
22983	C11H24	3,4-dimethyl-5-ethylheptane	61868-36-8	52.071	629.43	1.2222	168.23	629.43	2	298.15	23.76
22984	C11H24	3,5-dimethyl-3-ethylheptane	61868-37-9	51.782	630.56	1.2222	200.65	630.56	2	298.15	23.68
22985	C11H24	3,5-dimethyl-4-ethylheptane	61868-38-0	52.104	628.05	1.2222	168.23	628.05	2	298.15	23.72
22986	C11H24	4,4-dimethyl-3-ethylheptane	61868-39-1	51.909	624.99	1.2222	200.65	624.99	2	298.15	23.50
22987	C11H24	2,2,3,3-tetramethylheptane	61868-40-4	51.057	638.82	1.2222	218.07	638.82	2	298.15	23.68
22988	C11H24	2,2,3,4-tetramethylheptane	61868-41-5	51.539	629.04	1.2222	185.65	629.04	2	298.15	23.50
22989	C11H24	2,2,3,5-tetramethylheptane	61868-42-6	51.600	626.24	1.2222	185.65	626.24	2	298.15	23.42
22990	C11H24	2,2,3,6-tetramethylheptane	61868-43-7	51.724	620.64	1.2222	185.65	620.64	2	298.15	23.24

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
22991	C11H24	2,2,4,4-tetramethylheptane	61868-44-8	51.344	624.72	1.2222	218.07	624.72	2	298.15	23.24
22992	C11H24	2,2,4,5-tetramethylheptane	61868-45-9	51.755	619.24	1.2222	185.65	619.24	2	298.15	23.19
22993	C11H24	2,2,4,6-tetramethylheptane	61868-46-0	51.974	609.72	1.2222	185.65	609.72	2	298.15	22.88
22994	C11H24	2,2,5,5-tetramethylheptane	61868-47-1	51.463	619.08	1.2222	218.07	619.08	2	298.15	23.05
22995	C11H24	2,2,5,6-tetramethylheptane	61868-48-2	51.755	619.24	1.2222	185.65	619.24	2	298.15	23.19
22996	C11H24	2,2,6,6-tetramethylheptane	40117-45-1	51.555	614.86	1.2222	218.07	614.86	2	298.15	22.92
22997	C11H24	2,3,3,4-tetramethylheptane	61868-49-3	51.360	637.45	1.2222	185.65	637.45	2	298.15	23.76
22998	C11H24	2,3,3,5-tetramethylheptane	61868-50-6	51.539	629.04	1.2222	185.65	629.04	2	298.15	23.50
22999	C11H24	2,3,3,6-tetramethylheptane	61868-51-7	51.569	627.64	1.2222	185.65	627.64	2	298.15	23.46
23000	C11H24	2,3,4,4-tetramethylheptane	61868-52-8	51.479	631.84	1.2222	185.65	631.84	2	298.15	23.59
23001	C11H24	2,3,4,5-tetramethylheptane	61868-53-9	51.809	629.22	1.2222	153.23	629.22	2	298.15	23.63
23002	C11H24	2,3,4,6-tetramethylheptane	61868-54-0	51.969	622.26	1.2222	153.23	622.26	2	298.15	23.42
23003	C11H24	2,3,5,5-tetramethylheptane	61868-55-1	51.661	623.44	1.2222	185.65	623.44	2	298.15	23.33
23004	C11H24	2,3,5,6-tetramethylheptane	52670-32-3	51.936	623.65	1.2222	153.23	623.65	2	298.15	23.46
23005	C11H24	2,4,4,5-tetramethylheptane	61868-56-2	51.600	626.24	1.2222	185.65	626.24	2	298.15	23.42
23006	C11H24	2,4,4,6-tetramethylheptane	61868-57-3	51.915	612.24	1.2222	185.65	612.24	2	298.15	22.96
23007	C11H24	2,4,5,5-tetramethylheptane	61868-58-4	51.539	629.04	1.2222	185.65	629.04	2	298.15	23.50
23008	C11H24	3,3,4,4-tetramethylheptane	61868-59-5	50.947	644.46	1.2222	218.07	644.46	2	298.15	23.85
23009	C11H24	3,3,4,5-tetramethylheptane	61868-60-8	51.390	636.04	1.2222	185.65	636.04	2	298.15	23.72
23010	C11H24	3,3,5,5-tetramethylheptane	61868-61-9	51.057	638.82	1.2222	218.07	638.82	2	298.15	23.68
23011	C11H24	3,4,4,5-tetramethylheptane	61868-62-0	51.273	641.65	1.2222	185.65	641.65	2	298.15	23.89
23012	C11H24	2,2-dimethyl-3-isopropylhexane	61868-63-1	51.661	623.44	1.2222	185.65	623.44	2	298.15	23.33
23013	C11H24	2,3-dimethyl-3-isopropylhexane	61868-64-2	51.419	634.64	1.2222	185.65	634.64	2	298.15	23.68
23014	C11H24	2,4-dimethyl-3-isopropylhexane	61868-65-3	51.936	623.65	1.2222	153.23	623.65	2	298.15	23.46
23015	C11H24	2,5-dimethyl-3-isopropylhexane	61868-66-4	52.100	616.70	1.2222	153.23	616.70	2	298.15	23.24
23016	C11H24	2-methyl-3,3-diethylhexane	61868-67-5	51.597	638.91	1.2222	200.65	638.91	2	298.15	23.93
23017	C11H24	2-methyl-3,4-diethylhexane	61868-68-6	52.170	625.29	1.2222	168.23	625.29	2	298.15	23.63
23018	C11H24	2-methyl-4,4-diethylhexane	61868-69-7	51.814	629.17	1.2222	200.65	629.17	2	298.15	23.63
23019	C11H24	3-methyl-3,4-diethylhexane	61868-70-0	51.597	638.91	1.2222	200.65	638.91	2	298.15	23.93
23020	C11H24	3-methyl-4,4-diethylhexane	61868-71-1	51.477	644.47	1.2222	200.65	644.47	2	298.15	24.10
23021	C11H24	2,2,3-trimethyl-3-ethylhexane	61868-72-2	51.057	638.82	1.2222	218.07	638.82	2	298.15	23.68
23022	C11H24	2,2,3-trimethyl-4-ethylhexane	61868-73-3	51.539	629.04	1.2222	185.65	629.04	2	298.15	23.50
23023	C11H24	2,2,4-trimethyl-3-ethylhexane	61868-74-4	51.569	627.64	1.2222	185.65	627.64	2	298.15	23.46
23024	C11H24	2,2,4-trimethyl-4-ethylhexane	61868-75-5	51.113	636.00	1.2222	218.07	636.00	2	298.15	23.59
23025	C11H24	2,2,5-trimethyl-3-ethylhexane	61868-76-6	51.724	620.64	1.2222	185.65	620.64	2	298.15	23.24
23026	C11H24	2,2,5-trimethyl-4-ethylhexane	61868-77-7	51.851	615.04	1.2222	185.65	615.04	2	298.15	23.05
23027	C11H24	2,3,3-trimethyl-4-ethylhexane	61868-78-8	51.331	638.85	1.2222	185.65	638.85	2	298.15	23.81
23028	C11H24	2,3,4-trimethyl-3-ethylhexane	61868-79-9	51.215	644.45	1.2222	185.65	644.45	2	298.15	23.97
23029	C11H24	2,3,4-trimethyl-4-ethylhexane	61868-80-2	51.419	634.64	1.2222	185.65	634.64	2	298.15	23.68
23030	C11H24	2,3,5-trimethyl-3-ethylhexane	61868-81-3	51.539	629.04	1.2222	185.65	629.04	2	298.15	23.50
23031	C11H24	2,3,5-trimethyl-4-ethylhexane	61868-82-4	51.872	626.44	1.2222	153.23	626.44	2	298.15	23.55
23032	C11H24	2,4,4-trimethyl-3-ethylhexane	61868-83-5	51.479	631.84	1.2222	185.65	631.84	2	298.15	23.59
23033	C11H24	3,3,4-trimethyl-4-ethylhexane	61868-84-6	50.785	652.92	1.2222	218.07	652.92	2	298.15	24.10
23034	C11H24	2,2,3,3,4-pentamethylhexane	61868-85-7	50.583	648.89	1.2222	203.07	648.89	2	298.15	23.85
23035	C11H24	2,2,3,3,5-pentamethylhexane	61868-86-8	50.942	629.72	1.2222	203.07	629.72	2	298.15	23.26
23036	C11H24	2,2,3,4,4-pentamethylhexane	61868-87-9	50.532	651.73	1.2222	203.07	651.73	2	298.15	23.93
23037	C11H24	2,2,3,4,5-pentamethylhexane	61868-88-0	51.222	630.42	1.2222	170.65	630.42	2	298.15	23.42
23038	C11H24	2,2,3,5,5-pentamethylhexane	14739-73-2	51.067	623.34	1.2222	203.07	623.34	2	298.15	23.05
23039	C11H24	2,2,4,4,5-pentamethylhexane	60302-23-0	50.793	637.53	1.2222	203.07	637.53	2	298.15	23.50
23040	C11H24	2,3,3,4,4-pentamethylhexane	61868-89-1	50.507	653.15	1.2222	203.07	653.15	2	298.15	23.97
23041	C11H24	2,3,3,4,5-pentamethylhexane	52670-33-4	51.025	640.29	1.2222	170.65	640.29	2	298.15	23.72
23042	C11H24	2,2,4-trimethyl-3-isopropylpentane	61868-90-4	51.339	624.78	1.2222	170.65	624.78	2	298.15	23.24
23043	C11H24	2,3,4-trimethyl-3-isopropylpentane	61868-91-5	50.887	647.34	1.2222	170.65	647.34	2	298.15	23.93
23044	C11H24	2,2-dimethyl-3,3-diethylpentane	60302-28-5	50.811	651.51	1.2222	218.07	651.51	2	298.15	24.06
23045	C11H24	2,4-dimethyl-3,3-diethylpentane	61868-92-6	51.158	647.25	1.2222	185.65	647.25	2	298.15	24.06
23046	C11H24	2,2,3,4-tetramethyl-3-ethylpentane	61868-93-7	50.532	651.73	1.2222	203.07	651.73	2	298.15	23.93
23047	C11H24	2,2,4,4-tetramethyl-3-ethylpentane	---	50.687	643.21	1.2222	203.07	643.21	2	298.15	23.68
23048	C11H24	2,2,3,3,4,4-hexamethylpentane	60302-27-4	49.632	672.56	1.2222	220.49	672.56	2	298.15	24.26
23055	C11H24O	1-undecanol	112-42-5	46.870	704.00	0.8000	289.05	704.00	2	298.15	30.17
23056	C11H24O	2-undecanol	1653-30-1	46.877	689.70	0.8000	273.15	689.70	2	298.15	29.80
23057	C11H24O	2-undecanol, (±)	113666-64-1	46.171	696.85	0.8000	285.15	696.85	2	298.15	29.54
23058	C11H24O	3-undecanol, (R)-	107494-37-1	46.231	696.85	0.8000	290.15	696.85	2	298.15	29.58
23059	C11H24O	5-undecanol	37493-70-2	46.231	696.85	0.8000	271.35	696.85	2	298.15	29.58
23060	C11H24O	6-undecanol	23708-56-7	46.171	696.85	0.8000	298.15	696.85	2	298.15	29.54
23061	C11H24O	2,8-dimethyl-5-nonanol	19780-96-2	46.468	696.85	0.8000	285.15	696.85	2	298.15	29.73
23062	C11H24O	undecanol	30207-98-8	47.154	696.85	0.8000	289.05	696.85	2	298.15	30.17
23063	C11H24O	5-ethyl-2-nonanol	103-08-2	45.979	696.85	0.8000	285.15	696.85	2	298.15	29.41
23064	C11H24O	1-methoxydecane	7289-52-3	53.803	640.00	1.2222	290.00	640.00	2	298.15	25.00
23065	C11H24O2	1,2-undecanediol	13006-29-6	101.241	709.89	1.2222	319.87	709.89	2	319.87	48.69
23066	C11H24O2	1,3-undecanediol	6071-32-5	100.516	723.65	1.2222	319.87	723.65	2	319.87	49.27
23067	C11H24O2	1,4-undecanediol	---	99.249	749.94	1.2222	319.87	749.94	2	319.87	50.30
23068	C11H24O2	1,11-undecanediol	765-04-8	100.214	731.93	1.2222	335.15	731.93	2	335.15	47.41
23069	C11H24O2	2,2-dibutyl-1,3-propanediol	24765-57-9	99.207	728.85	1.2222	315.15	728.85	2	315.15	49.65
23071	C11H24O2	2-(isobutyl-3-methylbutoxy)ethanol	10086-50-7	46.011	690.00	1.2222	330.00	690.00	2	330.00	20.77
23076	C11H24O3	2-(2-(1-ethylamyloxy)ethoxy)ethanol	10138-87-1	46.011	690.00	1.2222	350.00	690.00	2	350.00	19.37
23077	C11H24O3	2-(2-(heptyloxy)ethoxy)ethanol	25961-87-9	46.011	690.00	1.2222	350.00	690.00	2	350.00	19.37
23081.1	C11H24O4	tripropylene glycol monoethyl ether	75899-69-3	77.620	664.00	1.2222	256.50	664.00	2	298.15	37.46
23084	C11H24S	1-undecanethiol	5332-52-5	58.380	710.00	1.2222	270.15	710.00	2	298.15	30.00
23085	C11H24S	2-undecanethiol	62155-02-6	58.180	706.00	1.2222	239.15	706.00	2	298.15	29.75
23086	C11H24S	methyl decyl sulfide	22438-39-7	53.317	717.91	1.2222	254.66	717.91	2	298.15	27.67

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
23087	C11H24S	ethyl nonyl sulfide	59973-08-9	53.317	717.91	1.2222	254.66	717.91	2	298.15	27.67
23088	C11H24S	propyl octyl sulfide	3698-93-9	53.317	717.91	1.2222	254.66	717.91	2	298.15	27.67
23089	C11H24S	butyl heptyl sulfide	40813-84-1	53.317	717.91	1.2222	254.66	717.91	2	298.15	27.67
23090	C11H25N	undecylamine	7307-55-3	61.156	692.40	1.2222	288.26	692.40	2	298.15	30.73
23091	C11H25N	methyldecylamine	7516-82-7	55.469	666.60	1.2222	277.15	666.60	2	298.15	26.87
23092	C11H25N	ethylnonylamine	66563-84-6	55.640	660.80	1.2222	277.15	660.80	2	298.15	26.72
23093	C11H25N	dimethylnonylamine	17373-27-2	51.547	668.70	1.2222	215.00	668.70	2	298.15	25.05
23094	C11H25N	diethylheptylamine	26981-81-7	53.052	634.32	1.2222	215.00	634.32	2	298.15	24.42
23095	C11H25N	4-ethyl-1-methyloctylamine	10024-78-9	61.834	664.56	1.2222	288.26	664.56	2	298.15	29.87
23335	C12H8O	dibenzofuran	132-64-9	63.043	837.80	1.2222	355.65	837.80	2	355.65	32.09
23394	C12H9N	dibenzopyrrole	86-74-8	78.983	899.00	1.2222	517.95	899.00	2	517.95	27.66
23437.1	C12H9N3O4	4,4'-dinitrodiphenylamine	1821-27-8	73.882	926.00	1.2025	491.05	926.00	2	491.05	29.78
23444	C12H10	acenaphthene	83-32-9	73.260	803.15	1.2246	366.56	803.15	1,2	366.56	34.73
23445	C12H10	phenylbenzene (biphenyl)	92-52-4	74.151	789.26	1.3110	342.37	789.26	1,2	342.37	35.18
23519	C12H10O	diphenyl ether	101-84-8	71.001	763.00	1.2222	300.03	763.00	2	300.03	38.55
23607	C12H11N	p-aminodiphenyl	92-67-1	79.631	817.00	1.2222	326.00	817.00	2	326.00	42.74
23609	C12H11N	diphenylamine	122-39-4	78.280	817.00	1.3173	326.15	817.00	1,2	326.15	40.01
23656	C12H11N3	p-aminoazobenzene	60-09-3	79.626	877.00	1.2222	401.00	877.00	2	401.00	37.73
23657	C12H11N3	1,3-diphenyltriazene	136-35-6	76.650	845.00	1.2222	372.00	845.00	2	372.00	37.72
23675	C12H12	1,2-dimethylnaphthalene	573-98-8	67.899	775.34	1.2222	272.16	775.34	2	298.15	37.52
23676	C12H12	1,3-dimethylnaphthalene	575-41-7	68.074	773.76	1.2222	269.16	773.76	2	298.15	37.55
23677	C12H12	1,4-dimethylnaphthalene	571-58-4	67.740	776.78	1.2222	280.82	776.78	2	298.15	37.48
23678	C12H12	1,5-dimethylnaphthalene	571-61-9	68.106	773.47	1.2222	355.16	773.47	2	355.16	32.13
23679	C12H12	1,6-dimethylnaphthalene	575-43-9	68.427	770.60	1.2222	259.16	770.60	2	298.15	37.63
23680	C12H12	1,7-dimethylnaphthalene	575-37-1	68.427	770.60	1.2222	260.16	770.60	2	298.15	37.63
23681	C12H12	1,8-dimethylnaphthalene	569-41-5	66.597	792.00	1.2222	337.15	792.00	2	337.15	33.81
23682	C12H12	2,3-dimethylnaphthalene	581-40-8	67.630	777.78	1.2222	378.16	777.78	2	378.16	29.97
23683	C12H12	2,6-dimethylnaphthalene	581-42-0	68.058	777.00	1.2222	384.55	777.00	2	384.55	29.53
23684	C12H12	2,7-dimethylnaphthalene	582-16-1	67.929	778.00	1.2222	368.81	778.00	2	368.81	30.97
23685	C12H12	1-ethylnaphthalene	1127-76-0	71.249	776.00	1.2990	259.34	776.00	1,2	298.15	37.95
23686	C12H12	2-ethylnaphthalene	939-27-5	68.429	774.90	1.2222	265.76	774.90	2	298.15	37.79
23687	C12H12	dimethylnaphthalene, isomers	28804-88-8	67.968	776.35	1.2222	307.53	776.35	2	307.53	36.69
23718	C12H12N2	p-aminodiphenylamine	101-54-2	88.173	867.00	1.2222	341.15	867.00	2	341.15	47.85
23719	C12H12N2	hydrazobenzene	122-66-7	82.911	792.00	1.2222	404.15	792.00	2	404.15	34.65
23821	C12H13N	2-ethyl-3-methylquinoline	27356-52-1	78.509	769.85	1.2222	330.15	577.39	2	330.15	39.59
23822	C12H13N	2-ethyl-4-methylquinoline	33357-44-7	78.244	774.82	1.2222	341.90	581.12	2	341.90	38.41
23823	C12H13N	3-ethyl-6-methylquinoline	105688-74-2	77.388	791.86	1.2222	341.90	593.90	2	341.90	38.78
23824	C12H13N	2-propylquinoline	1613-32-7	77.073	798.57	1.2222	341.90	598.93	2	341.90	38.93
23825	C12H13N	2,3,6-trimethylquinoline	2437-73-2	77.354	792.57	1.2222	359.65	594.43	2	359.65	36.94
23826	C12H13N	2,3,8-trimethylquinoline	4945-28-2	77.491	789.73	1.2222	341.90	592.30	2	341.90	38.74
23827	C12H13N	2,4,6-trimethylquinoline	2243-89-2	77.700	785.47	1.2222	341.15	589.10	2	341.15	38.73
23828	C12H13N	2,4,7-trimethylquinoline	71633-43-7	77.664	786.18	1.2222	336.65	589.64	2	336.65	39.22
23829	C12H13N	2,5,7-trimethylquinoline	102871-67-0	77.220	795.41	1.2222	341.90	596.56	2	341.90	38.86
23887	C12H14	1,2,3-trimethylindene	4773-83-5	63.248	726.00	1.2222	344.65	726.00	2	344.65	28.79
24002	C12H14O4	diethyl phthalate	84-66-2	69.530	757.00	1.2605	269.15	757.00	1,2	298.15	36.99
24022.1	C12H14O6	terephthalic acid diethylene glycol ester	959-26-2	111.660	846.00	1.1930	385.15	846.00	2	385.15	54.10
24111	C12H16	cyclohexylbenzene	827-52-1	62.248	744.00	1.2222	280.50	744.00	2	298.15	33.29
24112	C12H16	1-ethyl-[1,2,3,4-tetrahydronaphthalene]	13556-58-6	61.907	735.44	1.2222	243.57	735.44	2	298.15	32.79
24113	C12H16	2-ethyl-[1,2,3,4-tetrahydronaphthalene]	32367-54-7	61.522	739.79	1.2222	224.75	739.79	2	298.15	32.75
24114	C12H16	5-ethyl-1,2,3,4-tetrahydronaphthalene	42775-75-7	61.606	737.62	1.2222	228.65	737.62	2	298.15	32.71
24115	C12H16	6-ethyl-1,2,3,4-tetrahydronaphthalene	22531-20-0	61.633	737.62	1.2222	203.15	737.62	2	298.15	32.73
24116	C12H16	1,2,3,4-tetrahydro-1,3-dimethylnaphthalene	5195-37-9	61.909	737.62	1.2222	253.92	737.62	2	298.15	32.88
24117	C12H16	1,2,3,4-tetrahydro-1,4-dimethylnaphthalene	4175-54-6	62.130	737.62	1.2222	253.92	737.62	2	298.15	32.99
24118	C12H16	1,2,3,4-tetrahydro-1,5-dimethylnaphthalene	21564-91-0	61.771	737.62	1.2222	253.92	737.62	2	298.15	32.80
24119	C12H16	1,2,3,4-tetrahydro-2,2-dimethylnaphthalene	13556-55-3	62.019	737.62	1.2222	253.92	737.62	2	298.15	32.93
24120	C12H16	1,2,3,4-tetrahydro-2,3-dimethylnaphthalene	21564-92-1	61.920	737.62	1.2222	270.65	737.62	2	298.15	32.88
24121	C12H16	1,2,3,4-tetrahydro-2,5-dimethylnaphthalene	25419-37-8	61.853	737.62	1.2222	253.92	737.62	2	298.15	32.85
24122	C12H16	1,2,3,4-tetrahydro-2,6-dimethylnaphthalene	7524-63-2	61.743	737.62	1.2222	293.15	737.62	2	298.15	32.79
24123	C12H16	1,2,3,4-tetrahydro-2,7-dimethylnaphthalene	13065-07-1	61.826	737.62	1.2222	253.92	737.62	2	298.15	32.83
24124	C12H16	1,2,3,4-tetrahydro-2,8-dimethylnaphthalene	25419-36-7	61.853	737.62	1.2222	253.92	737.62	2	298.15	32.85
24125	C12H16	1,2,3,4-tetrahydro-5,6-dimethylnaphthalene	20027-77-4	61.414	737.62	1.2222	253.92	737.62	2	298.15	32.61
24126	C12H16	1,2,3,4-tetrahydro-5,7-dimethylnaphthalene	21693-54-9	61.387	737.62	1.2222	267.15	737.62	2	298.15	32.60
24127	C12H16	1,2,3,4-tetrahydro-5,8-dimethylnaphthalene	14108-88-4	61.359	737.62	1.2222	271.05	737.62	2	298.15	32.58
24128	C12H16	1,2,3,4-tetrahydro-6,7-dimethylnaphthalene	1076-61-5	61.414	737.62	1.2222	283.15	737.62	2	298.15	32.61
24129	C12H16	1,2,3,4-tetrahydro-1,1-dimethylnaphthalene	1985-59-7	62.268	737.62	1.2222	253.92	737.62	2	298.15	33.07
24130	C12H16	1,2,3,4-tetrahydro-1,2-dimethylnaphthalene	5195-40-4	61.881	737.62	1.2222	253.92	737.62	2	298.15	32.86
24134	C12H16	2-hexenylbenzene	67590-77-6	56.955	723.00	1.2222	242.55	723.00	2	298.15	29.74
24135	C12H16	3-hexenylbenzene	35008-86-7	57.336	723.00	1.2222	242.55	723.00	2	298.15	29.94
24136	C12H16	5-hexenylbenzene	1588-44-9	57.534	723.00	1.2222	242.55	723.00	2	298.15	30.04
24137	C12H16	p-isopropenylisopropylbenzene	2388-14-9	57.376	723.00	1.2222	242.55	723.00	2	298.15	29.96
24138	C12H16	(1-methyl-1-pentenyl)benzene	20247-89-6	57.303	723.00	1.2222	242.55	723.00	2	298.15	29.92
24139	C12H16	4-tert-butylstyrene	1746-23-2	60.361	695.00	1.2222	270.00	695.00	2	298.15	30.43
24139.1	C12H16	4-isobutylstyrene	63444-56-4	58.445	735.00	1.3057	250.00	735.00	2	298.15	29.63
24223	C12H16O2	pentamethylbenzoic acid	2243-32-5	78.320	733.43	1.2222	483.65	550.07	2	483.65	21.00
24227	C12H16O2	4-pentylbenzoic acid	26311-45-5	77.531	758.07	1.2222	359.65	568.55	2	359.65	35.32
24276	C12H17Br	1-bromo-4-n-hexylbenzene	23703-22-2	72.289	779.58	1.2222	283.15	584.69	2	298.15	40.11
24280	C12H17Cl	pentamethylbenzyl chloride	484-65-1	70.146	724.20	1.2222	355.65	543.15	2	355.65	30.72
24357	C12H18	hexylbenzene	1077-16-3	58.255	698.00	1.2222	212.00	698.00	2	298.15	29.49
24358	C12H18	1,4-dipropylbenzene	4815-57-0	57.867	697.15	1.2222	249.75	697.15	2	298.15	29.26
24359	C12H18	diisopropylbenzene	25321-09-9	57.657	697.15	1.2222	249.75	697.15	2	298.15	29.15

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
24360	C12H18	1,2-diisopropylbenzene	577-55-9	57.748	697.15	1.2222	216.15	697.15	2	298.15	29.20
24361	C12H18	m-diisopropylbenzene	99-62-7	58.757	684.00	1.2222	210.02	684.00	2	298.15	29.19
24362	C12H18	p-diisopropylbenzene	100-18-5	58.548	689.00	1.2222	256.08	689.00	2	298.15	29.28
24363	C12H18	triethylbenzene; (mixed isomers)	25340-18-5	58.098	697.15	1.2222	249.75	697.15	2	298.15	29.37
24364	C12H18	1,2,3-triethylbenzene	42205-08-3	59.103	684.37	1.2222	206.66	684.37	2	298.15	29.37
24365	C12H18	1,2,4-triethylbenzene	877-44-1	59.103	684.37	1.2222	206.66	684.37	2	298.15	29.37
24366	C12H18	1,3,5-triethylbenzene	102-25-0	59.235	682.28	1.2222	206.66	682.28	2	298.15	29.35
24367	C12H18	1-tert-butyl-3,5-dimethylbenzene	98-19-1	57.826	697.15	1.2222	255.15	697.15	2	298.15	29.24
24368	C12H18	(1,1-dimethylbutyl)benzene	1985-57-5	57.787	697.15	1.2222	249.75	697.15	2	298.15	29.22
24369	C12H18	2,4-dimethyl-1-sec-butylbenzene	1483-60-9	57.867	697.15	1.2222	249.75	697.15	2	298.15	29.26
24370	C12H18	(1-ethylbutyl)benzene	4468-42-2	57.877	697.15	1.2222	217.75	697.15	2	298.15	29.26
24371	C12H18	(1-ethyl-1-methylpropyl)benzene	1985-97-3	57.774	697.15	1.2222	249.75	697.15	2	298.15	29.21
24372	C12H18	(1-methylpentyl)benzene	6031-02-3	57.851	697.15	1.2222	249.75	697.15	2	298.15	29.25
24373	C12H18	(3-methylpentyl)benzene	54410-69-4	58.162	697.15	1.2222	249.75	697.15	2	298.15	29.41
24374	C12H18	(4-methylpentyl)benzene	4215-86-5	58.084	697.15	1.2222	249.75	697.15	2	298.15	29.37
24375	C12H18	1,2,4-trimethyl-5-isopropylbenzene	10222-95-4	58.188	697.15	1.2222	294.15	697.15	2	298.15	29.42
24376	C12H18	4-tert-butyl-o-xylene	7397-06-0	57.774	697.15	1.2222	249.75	697.15	2	298.15	29.21
24377	C12H18	hexamethyldewarbenzene	7641-77-2	56.800	697.15	1.2222	277.00	697.15	2	298.15	28.72
24378	C12H18	hexamethylbenzene	87-85-4	55.223	758.00	1.2222	438.66	758.00	2	438.66	19.20
24378.1	C12H18	p-tert-butyl ethylbenzene	7364-19-4	61.591	684.00	1.2701	234.80	684.00	2	298.15	29.77
24378.2	C12H18	1,5,9-cyclododecatriene	706-31-0	65.328	745.00	1.2166	256.35	745.00	2	298.15	35.08
24378.3	C12H18	1,2,3-triethylebenzene	42205-08-3	74.560	683.00	1.2868	215.00	683.00	2	298.15	35.64
24383	C12H18	3,9-dodecadiyne	61827-89-2	60.322	684.11	1.2222	263.90	513.08	2	298.15	29.97
24384	C12H18	5,7-dodecadiyne	1120-29-2	60.322	684.11	1.2222	263.90	513.08	2	298.15	29.97
24433	C12H18O	2-tert-butyl-4,5-dimethylphenol	1445-23-4	61.474	755.67	1.2222	319.15	755.67	2	319.15	31.43
24434	C12H18O	2-tert-butyl-4,6-dimethylphenol	1879-09-0	62.014	755.67	1.2222	295.45	755.67	2	298.15	33.58
24435	C12H18O	4-tert-butyl-2,5-dimethylphenol	17696-37-6	61.163	755.67	1.2222	344.35	755.67	2	344.35	29.08
24436	C12H18O	4-tert-butyl-2,6-dimethylphenol	879-97-0	62.071	755.67	1.2222	355.55	755.67	2	355.55	28.54
24446	C12H18O	4-(1,1-dimethylpropyl)-2-methylphenol	71745-63-6	61.389	755.67	1.2222	288.15	755.67	2	298.15	33.25
24447	C12H18O	2,6-dipropylphenol	6626-32-0	61.616	755.67	1.2222	300.15	755.67	2	300.15	33.19
24448	C12H18O	5-methyl-2-pentylphenol	1300-94-3	61.893	755.67	1.2222	297.15	755.67	2	298.15	33.52
24451	C12H18O	6-n-amyl-m-cresol	53043-14-4	61.502	755.67	1.2222	297.15	755.67	2	298.15	33.31
24452	C12H18O	2-tert-butyl-4-ethylphenol	96-70-8	61.957	755.67	1.2222	303.15	755.67	2	303.15	33.11
24457	C12H18O	3,5-bis(1-methylethyl)phenol	26886-05-5	61.893	755.67	1.2222	311.14	755.67	2	311.14	32.36
24458	C12H18O	2,4-bis(1-methylethyl)phenol	2934-05-6	61.893	755.67	1.2222	311.14	755.67	2	311.14	32.36
24461	C12H18O	2-hexylphenol	3226-32-2	61.893	755.67	1.2222	311.14	755.67	2	311.14	32.36
24477.1	C12H18O2	m-diisopropylbenzene hydroperoxide	26762-93-6	46.417	812.00	1.2020	264.00	812.00	2	298.15	26.78
24477.2	C12H18O2	p-diisopropylbenzene hydroperoxide	98-49-7	59.108	810.00	1.2749	264.00	810.00	2	298.15	32.92
24505	C12H19N	2,6-diisopropylaniline	24544-04-5	64.406	710.00	1.2222	228.15	710.00	2	298.15	33.10
24506	C12H19N	N,N-dipropylaniline	2217-07-4	66.670	710.00	1.2222	228.15	710.00	2	298.15	34.26
24507	C12H19N	4-tert-butyl-N,N-dimethylaniline	2909-79-7	65.227	710.00	1.2222	228.15	710.00	2	298.15	33.52
24508	C12H19N	N,N-diisopropylaniline	4107-98-6	64.240	710.00	1.2222	228.15	710.00	2	298.15	33.02
24509	C12H19N	4-hexylaniline	33228-45-4	60.804	710.00	1.2222	228.15	710.00	2	298.15	31.25
24510	C12H19N	n-butyl-a-methylbenzylamine	5412-64-6	79.961	754.41	1.2222	283.15	565.81	2	298.15	43.25
24531	C12H20	1-dodecen-3-yne	74744-36-8	65.130	655.00	1.2222	298.00	655.00	2	298.15	31.00
24594	C12H20O4	dibutyl maleate	105-76-0	65.701	716.00	1.2222	188.15	716.00	2	298.15	34.02
24619	C12H20S	3-octylthiophene	65016-62-8	54.393	745.00	1.2222	350.00	745.00	2	350.00	25.05
24652	C12H22	bicyclohexyl	92-51-3	62.810	727.00	1.2676	276.78	727.00	1,2	298.15	32.17
24653	C12H22	1-dodecyne	765-03-7	56.155	668.16	1.2222	254.16	668.16	1,2	298.15	27.27
24654	C12H22	2-dodecyne	629-49-2	56.539	686.26	1.2222	264.15	686.26	2	298.15	28.17
24655	C12H22	3-dodecyne	6790-27-8	56.867	677.19	1.2222	330.60	677.19	2	330.60	25.08
24656	C12H22	6-dodecyne	6975-99-1	56.281	677.20	1.2222	282.97	677.20	2	298.15	27.69
24657	C12H22	3,3-dimethyl-4-decyne	70732-45-5	57.359	677.20	1.2222	282.97	677.20	2	298.15	28.22
24658	C12H22	4a-ethyl-cis-decahydronaphthalene	66553-61-5	53.734	723.87	1.2222	236.31	723.87	2	298.15	28.09
24659	C12H22	4a-ethyl-trans-decahydronaphthalene	66553-62-6	53.449	712.43	1.2222	248.92	712.43	2	298.15	27.55
24660	C12H22	1-ethyl,cis-decahydronaphthalene	---	54.673	762.49	1.2222	236.31	762.49	2	298.15	29.82
24661	C12H22	1-ethyl-trans-decahydronaphthalene	---	54.501	755.34	1.2222	248.92	755.34	2	298.15	29.51
24662	C12H22	2-ethyl-cis-decahydronaphthalene	---	53.805	726.73	1.2222	236.31	726.73	2	298.15	28.22
24663	C12H22	2-ethyl-trans-decahydronaphthalene	---	53.556	716.72	1.2222	248.92	716.72	2	298.15	27.75
24664	C12H22	1,4a-dimethyl-cis-decahydronaphthalene	---	51.009	707.09	1.2222	219.94	707.09	2	298.15	26.12
24665	C12H22	1,4a-dimethyl-trans-decahydronaphthalene	---	50.766	697.05	1.2222	232.55	697.05	2	298.15	25.66
24666	C12H22	1-heptylcyclopentene	4292-00-6	42.304	680.78	1.2222	200.59	680.78	2	298.15	20.92
24669	C12H22	1,11-dodecadiene	5876-87-9	50.165	696.00	1.2222	270.00	696.00	2	298.15	25.32
24700	C12H22O2	2-dodecenoic acid	4412-16-2	53.281	816.00	1.2222	290.25	816.00	2	298.15	30.56
24701	C12H22O2	4-dodecenoic acid	505-92-0	53.281	816.00	1.2222	273.85	816.00	2	298.15	30.56
24702	C12H22O2	5-dodecenoic acid	2761-84-4	53.281	816.00	1.2222	273.85	816.00	2	298.15	30.56
24703	C12H22O2	11-dodecenoic acid	65423-25-8	53.281	816.00	1.2222	293.15	816.00	2	298.15	30.56
24704	C12H22O2	2-ethylhexyl methacrylate	688-84-6	63.461	694.00	1.2222	291.03	694.00	2	298.15	31.95
24708	C12H22O2	methyl 10-undecenoate	111-81-9	59.485	694.00	1.2222	245.65	694.00	1,2	298.15	29.95
24712	C12H22O2	citronellyl acetate	150-84-5	62.944	694.00	1.2222	291.03	694.00	2	298.15	31.69
24714	C12H22O2	cis-5-dodecenoic acid	2430-94-6	53.281	816.00	1.2222	282.78	816.00	2	298.15	30.56
24716	C12H22O2	menthyl acetate	89-48-5	62.862	694.00	1.2222	298.15	694.00	2	298.15	31.65
24717	C12H22O2	(1R)-(-)-neomenthyl acetate	146502-80-9	63.461	694.00	1.2222	310.15	694.00	2	310.15	30.77
24718	C12H22O2	(1S)-(+)-neomenthyl acetate	2552-91-2	63.461	694.00	1.2222	310.15	694.00	2	310.15	30.77
24722	C12H22O2	vinyl decanoate	4704-31-8	63.461	694.00	1.2222	291.03	694.00	2	298.15	31.95
24723	C12H22O2	acetic acid 2-isopropyl-5-methyl-2-hexen-1-yl ester	40853-56-3	53.281	816.00	1.2222	282.78	816.00	2	298.15	30.56
24724	C12H22O2	allyl 3,5,5-trimethylhexanoate	71500-21-5	63.461	694.00	1.2222	291.03	694.00	2	298.15	31.95
24731	C12H22O2	cis-3-hexenyl caproate	31501-11-8	63.461	694.00	1.2222	291.03	694.00	2	298.15	31.95
24782.1	C12H22S	dicyclohexyl sulfide	7133-46-2	63.524	802.00	1.3089	283.05	802.00	2	298.15	34.57
24787	C12H23Br	cis-1-bromo-1-dodecene	66553-39-7	57.725	712.56	1.2222	279.22	712.56	2	298.15	29.76

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
24788	C12H23Br	trans-1-bromo-1-dodecene	66553-40-0	57.725	712.56	1.2222	279.22	712.56	2	298.15	29.76
24791	C12H23Br3	1,1,1-tribromododecane	62127-69-9	84.707	804.01	1.2222	406.32	804.01	2	406.32	35.83
24792	C12H23Cl	cis-1-chloro-1-dodecene	66553-41-1	60.904	716.62	1.2222	249.34	716.62	2	298.15	31.56
24793	C12H23Cl	trans-1-chloro-1-dodecene	66553-42-2	60.904	716.62	1.2222	249.34	716.62	2	298.15	31.56
24795	C12H23Cl3	1,1,1-trichlorododecane	62108-57-0	70.377	751.55	1.2222	316.68	751.55	2	316.68	36.06
24796	C12H23F	cis-1-fluoro-1-dodecene	66553-43-3	48.573	637.82	1.2222	251.57	637.82	2	298.15	22.49
24797	C12H23F	trans-1-fluoro-1-dodecene	66553-44-4	48.573	637.82	1.2222	251.57	637.82	2	298.15	22.49
24799	C12H23F3	1,1,1-trifluorododecane	764-84-1	51.568	638.20	1.2222	323.37	638.20	2	323.37	21.74
24800	C12H23I	cis-1-iodo-1-dodecene	66553-45-5	57.441	747.98	1.2222	277.48	747.98	2	298.15	30.85
24801	C12H23I	trans-1-iodo-1-dodecene	66553-46-6	57.441	747.98	1.2222	277.48	747.98	2	298.15	30.85
24802	C12H23I3	1,1,1-triiododododecane	---	63.650	996.02	1.2222	401.10	996.02	2	401.10	33.90
24804	C12H23N	dicyclohexylamine	101-83-7	63.520	737.00	1.2222	273.05	737.00	2	298.15	33.71
24805	C12H23N	dodecanenitrile	2437-25-4	56.397	720.09	1.2222	277.15	720.09	2	298.15	29.35
24818	C12H24	heptylcyclopentane	5617-42-5	59.577	679.00	1.2222	220.00	679.00	2	298.15	29.39
24819	C12H24	hexylcyclohexane	4292-75-5	57.248	691.81	1.2222	263.60	691.81	2	298.15	28.74
24820	C12H24	1-methyl-2-pentylcyclohexane	54411-01-7	56.686	691.81	1.2222	263.60	691.81	2	298.15	28.46
24821	C12H24	cyclododecane	294-62-2	53.445	747.23	1.2222	333.85	747.23	2	333.85	25.92
24823	C12H24	1-dodecene	112-41-4	55.320	657.00	1.3038	237.93	657.00	1,2	298.15	25.14
24823.1	C12H24	cis-2-dodecene	7206-26-0	87.122	663.00	1.3298	233.00	663.00	2	298.15	39.37
24823.2	C12H24	trans-2-dodecene	7206-13-5	86.646	663.00	1.3239	243.00	663.00	2	298.15	39.29
24824	C12H24	2-methyl-1-undecene	18516-37-5	53.316	656.53	1.2222	232.38	656.53	2	298.15	25.44
24825	C12H24	4,4-dimethyl-2-neopentyl-1-pentene	141-70-8	53.623	656.77	1.2222	271.55	656.77	2	298.15	25.60
24826	C12H24	2,2,4,6,6-pentamethyl-3-heptene	123-48-8	50.671	656.77	1.2222	234.75	656.77	2	298.15	24.19
24827	C12H24	trans-2,2,4,6,6-pentamethyl-3-heptene	27656-50-4	50.671	656.77	1.2222	234.75	656.77	2	298.15	24.19
24828	C12H24	isobutene, trimer	7756-94-7	50.621	656.77	1.2222	197.15	656.77	2	298.15	24.16
24831	C12H24Br2	1,1-dibromododecane	62168-29-0	72.279	766.37	1.2222	329.10	766.37	2	329.10	36.41
24832	C12H24Br2	1,12-dibromododecane	3344-70-5	72.279	766.37	1.2222	314.15	766.37	2	314.15	37.93
24833	C12H24Cl2	1,1-dichlorododecane	62017-17-8	74.520	733.47	1.2222	269.34	733.47	2	298.15	39.39
24834	C12H24Cl2	1,12-dichlorododecane	3922-28-9	75.270	733.47	1.2222	302.15	733.47	2	302.15	39.34
24838	C12H24F2	1,1-difluorododecane	62127-45-1	57.041	656.90	1.2222	273.80	656.90	2	298.15	27.23
24839	C12H24I2	1,1-diiododododecane	66553-33-1	71.218	874.36	1.2222	325.62	874.36	2	325.62	40.30
24852	C12H24O	dodecanal	112-54-9	62.779	685.00	1.2222	285.15	685.00	2	298.15	31.23
24853	C12H24O	2-methylundecanal	110-41-8	62.567	685.00	1.2222	285.15	685.00	2	298.15	31.12
24854	C12H24O	2-dodecanone	6175-49-1	55.561	687.46	1.2222	293.65	687.46	2	298.15	27.73
24855	C12H24O	6-dodecanone	6064-27-3	55.530	687.46	1.2222	283.15	687.46	2	298.15	27.71
24856	C12H24O	decyl vinyl ether	765-05-9	49.777	686.00	1.2222	232.15	686.00	2	298.15	24.79
24860	C12H24O	trimethyl nonanone	1331-50-6	53.962	687.46	1.2222	198.25	687.46	2	298.15	26.93
24861	C12H24O	3-dodecanone	1534-27-6	55.530	687.46	1.2222	292.58	687.46	2	298.15	27.71
24862	C12H24O	5-dodecanone	19780-10-0	55.530	687.46	1.2222	282.85	687.46	2	298.15	27.71
24863	C12H24O	4-dodecanone	6137-26-4	55.530	687.46	1.2222	284.65	687.46	2	298.15	27.71
24864	C12H24O	(Z)-7-dodecen-1-ol	20056-92-2	48.332	671.00	0.8000	285.00	671.00	2	298.15	30.21
24867	C12H24O2	dodecanoic acid	143-07-7	55.826	734.00	1.2222	316.90	734.00	2	316.90	27.98
24868	C12H24O2	undecyl formate	5454-24-0	63.190	700.00	1.2222	283.20	700.00	2	298.15	32.07
24869	C12H24O2	decyl acetate	112-17-4	59.861	693.80	1.2222	258.12	693.80	2	298.15	30.13
24870	C12H24O2	nonyl propanoate	53184-67-1	60.941	693.10	1.2222	266.83	693.10	2	298.15	30.65
24871	C12H24O2	octyl butanoate	110-39-4	57.319	691.80	1.2222	217.15	691.80	2	298.15	28.78
24872	C12H24O2	heptyl pentanoate	5451-80-9	58.759	667.00	1.2222	226.75	667.00	2	298.15	28.49
24873	C12H24O2	hexyl hexanoate	6378-65-0	58.814	667.00	1.2222	218.15	667.00	2	298.15	28.51
24874	C12H24O2	pentyl heptanoate	7493-82-5	58.773	667.00	1.2222	223.15	667.00	2	298.15	28.49
24875	C12H24O2	butyl octanoate	589-75-3	58.432	667.00	1.2222	230.25	667.00	2	298.15	28.33
24876	C12H24O2	ethyl decanoate	110-38-3	58.809	667.00	1.2222	253.15	667.00	1,2	298.15	28.51
24877	C12H24O2	ethyl 3-methylnonanoate	86051-37-8	59.102	667.00	1.2222	230.29	667.00	2	298.15	28.65
24878	C12H24O2	methyl undecanoate	1731-86-8	59.102	667.00	1.2222	230.29	667.00	2	298.15	28.65
24879	C12H24O2	2-butyloctanoic acid	27610-92-0	52.238	734.00	1.2222	316.90	734.00	2	316.90	26.18
24880	C12H24O2	3,7-dimethyloctanyl acetate	20780-49-8	58.975	693.80	1.2222	258.12	693.80	2	298.15	29.68
24885.1	C12H24O3	2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	77-68-9	62.823	662.00	1.2242	261.00	662.00	2	298.15	30.19
24892	C12H24S	thiacyclotridecane	295-05-6	56.425	808.34	1.2222	294.93	808.34	2	298.15	32.15
24894	C12H25Br	1-bromododecane	143-15-7	57.636	726.55	1.2222	263.65	726.55	1,2	298.15	30.22
24895	C12H25Br	2-bromododecane	13187-99-0	57.547	726.55	1.2222	177.25	726.55	2	298.15	30.17
24897	C12H25Cl	1-chlorododecane	112-52-7	58.195	711.02	1.2222	263.85	711.02	2	298.15	29.95
24899	C12H25F	1-fluorododecane	334-68-9	66.448	658.60	1.2222	260.15	658.60	2	298.15	31.81
24900	C12H25I	1-iododododecane	4292-19-7	58.855	730.57	1.2222	273.45	730.57	2	298.15	31.00
24905	C12H25NO2	1-nitrododecane	16891-99-9	58.714	740.64	1.2222	368.11	740.64	2	368.11	25.35
24914	C12H26	dodecane	112-40-3	55.717	658.20	1.3325	263.59	658.20	1,2	298.15	24.94
24915	C12H26	3-methylundecane	1002-43-3	52.600	650.71	1.2222	215.15	650.71	2	298.15	24.87
24916	C12H26	4-methylundecane	2980-69-0	52.635	649.36	1.2222	209.50	649.36	2	298.15	24.83
24917	C12H26	5-methylundecane	1632-70-8	52.741	645.32	1.2222	209.50	645.32	2	298.15	24.72
24918	C12H26	6-methylundecane	17302-33-9	52.741	645.32	1.2222	209.50	645.32	2	298.15	24.72
24919	C12H26	3-ethyldecane	17085-96-0	52.646	648.96	1.2222	209.50	648.96	2	298.15	24.82
24920	C12H26	4-ethyldecane	1636-44-8	52.812	642.63	1.2222	209.50	642.63	2	298.15	24.65
24921	C12H26	5-ethyldecane	17302-36-2	52.885	639.94	1.2222	209.50	639.94	2	298.15	24.57
24922	C12H26	2,2-dimethyldecane	17302-37-3	52.308	645.65	1.2222	226.92	645.65	2	298.15	24.53
24923	C12H26	2,3-dimethyldecane	17312-44-6	52.442	648.85	1.2222	194.50	648.85	2	298.15	24.72
24924	C12H26	2,4-dimethyldecane	2801-84-5	52.650	640.72	1.2222	194.50	640.72	2	298.15	24.49
24925	C12H26	2,5-dimethyldecane	17312-50-4	52.721	638.02	1.2222	194.50	638.02	2	298.15	24.42
24926	C12H26	2,6-dimethyldecane	13150-81-7	52.721	638.02	1.2222	194.50	638.02	2	298.15	24.42
24927	C12H26	2,7-dimethyldecane	17312-51-5	52.580	643.43	1.2222	194.50	643.43	2	298.15	24.57
24928	C12H26	2,8-dimethyldecane	17312-52-6	52.511	646.14	1.2222	194.50	646.14	2	298.15	24.65
24929	C12H26	2,9-dimethyldecane	1002-17-1	52.511	646.14	1.2222	194.50	646.14	2	298.15	24.65
24930	C12H26	3,3-dimethyldecane	17302-38-4	52.241	648.37	1.2222	226.92	648.37	2	298.15	24.61

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
24931	C12H26	3,4-dimethyldecane	17312-45-7	52.476	647.49	1.2222	194.50	647.49	2	298.15	24.68
24932	C12H26	3,5-dimethyldecane	17312-48-0	52.650	640.72	1.2222	194.50	640.72	2	298.15	24.49
24933	C12H26	3,6-dimethyldecane	17312-53-7	52.615	642.08	1.2222	194.50	642.08	2	298.15	24.53
24934	C12H26	3,7-dimethyldecane	17312-54-8	52.580	643.43	1.2222	194.50	643.43	2	298.15	24.57
24935	C12H26	3,8-dimethyldecane	17312-55-9	52.476	647.49	1.2222	194.50	647.49	2	298.15	24.68
24936	C12H26	4,4-dimethyldecane	17312-39-9	52.376	642.92	1.2222	226.92	642.92	2	298.15	24.45
24937	C12H26	4,5-dimethyldecane	17312-46-8	52.580	643.43	1.2222	194.50	643.43	2	298.15	24.57
24938	C12H26	4,6-dimethyldecane	17312-49-1	52.721	638.02	1.2222	194.50	638.02	2	298.15	24.42
24939	C12H26	4,7-dimethyldecane	17312-56-0	52.685	639.37	1.2222	194.50	639.37	2	298.15	24.45
24940	C12H26	5,5-dimethyldecane	17453-92-8	52.444	640.20	1.2222	226.92	640.20	2	298.15	24.38
24941	C12H26	5,6-dimethyldecane	1636-43-7	52.615	642.08	1.2222	194.50	642.08	2	298.15	24.53
24942	C12H26	4-propylnonane	6165-37-3	52.994	635.90	1.2222	209.50	635.90	2	298.15	24.45
24943	C12H26	5-propylnonane	998-35-6	53.068	633.20	1.2222	209.50	633.20	2	298.15	24.38
24944	C12H26	4-isopropylnonane	62184-71-8	52.721	638.02	1.2222	194.50	638.02	2	298.15	24.42
24945	C12H26	5-isopropylnonane	62184-72-9	52.721	638.02	1.2222	194.50	638.02	2	298.15	24.42
24946	C12H26	2-methyl-3-ethylnonane	62184-73-0	52.615	642.08	1.2222	194.50	642.08	2	298.15	24.53
24947	C12H26	2-methyl-4-ethylnonane	62184-37-6	52.721	638.02	1.2222	194.50	638.02	2	298.15	24.42
24948	C12H26	2-methyl-5-ethylnonane	62184-38-7	52.792	635.31	1.2222	194.50	635.31	2	298.15	24.34
24949	C12H26	2-methyl-6-ethylnonane	62184-39-8	52.721	638.02	1.2222	194.50	638.02	2	298.15	24.42
24950	C12H26	2-methyl-7-ethylnonane	62184-40-1	52.580	643.43	1.2222	194.50	643.43	2	298.15	24.57
24951	C12H26	3-methyl-3-ethylnonane	17302-39-5	52.208	649.73	1.2222	226.92	649.73	2	298.15	24.65
24952	C12H26	3-methyl-4-ethylnonane	62184-41-2	52.615	642.08	1.2222	194.50	642.08	2	298.15	24.53
24953	C12H26	3-methyl-5-ethylnonane	62184-42-3	52.828	633.95	1.2222	194.50	633.95	2	298.15	24.30
24954	C12H26	3-methyl-6-ethylnonane	62184-43-4	52.685	639.37	1.2222	194.50	639.37	2	298.15	24.45
24955	C12H26	3-methyl-7-ethylnonane	62184-44-5	52.650	640.72	1.2222	194.50	640.72	2	298.15	24.49
24956	C12H26	4-methyl-3-ethylnonane	62184-45-6	52.650	640.72	1.2222	194.50	640.72	2	298.15	24.49
24957	C12H26	4-methyl-4-ethylnonane	17312-40-2	52.376	642.92	1.2222	226.92	642.92	2	298.15	24.45
24958	C12H26	4-methyl-5-ethylnonane	62184-46-7	52.721	638.02	1.2222	194.50	638.02	2	298.15	24.42
24959	C12H26	4-methyl-6-ethylnonane	62184-47-8	52.792	635.31	1.2222	194.50	635.31	2	298.15	24.34
24960	C12H26	4-methyl-7-ethylnonane	62184-48-9	52.650	640.72	1.2222	194.50	640.72	2	298.15	24.49
24961	C12H26	5-methyl-3-ethylnonane	62184-49-0	52.685	639.37	1.2222	194.50	639.37	2	298.15	24.45
24962	C12H26	5-methyl-4-ethylnonane	1632-71-9	52.685	639.37	1.2222	194.50	639.37	2	298.15	24.45
24963	C12H26	5-methyl-5-ethylnonane	14531-16-9	52.410	641.56	1.2222	226.92	641.56	2	298.15	24.42
24964	C12H26	2,2,3-trimethylnonane	55499-04-2	52.025	648.03	1.2222	211.92	648.03	2	298.15	24.49
24965	C12H26	2,2,4-trimethylnonane	62184-50-3	52.322	635.70	1.2222	211.92	635.70	2	298.15	24.14
24966	C12H26	2,2,5-trimethylnonane	62184-51-4	52.322	635.70	1.2222	211.92	635.70	2	298.15	24.14
24967	C12H26	2,2,6-trimethylnonane	62184-52-5	52.356	634.33	1.2222	211.92	634.33	2	298.15	24.10
24968	C12H26	2,2,7-trimethylnonane	62184-53-6	52.189	641.18	1.2222	211.92	641.18	2	298.15	24.30
24969	C12H26	2,2,8-trimethylnonane	62184-54-7	52.189	641.18	1.2222	211.92	641.18	2	298.15	24.30
24970	C12H26	2,3,3-trimethylnonane	62184-55-8	51.961	650.77	1.2222	211.92	650.77	2	298.15	24.57
24971	C12H26	2,3,4-trimethylnonane	62184-56-9	52.338	644.34	1.2222	179.50	644.34	2	298.15	24.49
24972	C12H26	2,3,5-trimethylnonane	62184-57-0	52.474	638.89	1.2222	179.50	638.89	2	298.15	24.34
24973	C12H26	2,3,6-trimethylnonane	62184-58-1	52.405	641.61	1.2222	179.50	641.61	2	298.15	24.42
24974	C12H26	2,3,7-trimethylnonane	62184-59-2	52.304	645.70	1.2222	179.50	645.70	2	298.15	24.53
24975	C12H26	2,3,8-trimethylnonane	62184-60-5	52.338	644.34	1.2222	179.50	644.34	2	298.15	24.49
24976	C12H26	2,4,4-trimethylnonane	62184-61-6	52.356	634.33	1.2222	211.92	634.33	2	298.15	24.10
24977	C12H26	2,4,5-trimethylnonane	62184-62-7	52.508	637.53	1.2222	179.50	637.53	2	298.15	24.30
24978	C12H26	2,4,6-trimethylnonane	62184-10-5	52.613	633.44	1.2222	179.50	633.44	2	298.15	24.18
24979	C12H26	2,4,7-trimethylnonane	62184-11-6	52.543	636.16	1.2222	179.50	636.16	2	298.15	24.26
24980	C12H26	2,4,8-trimethylnonane	49542-74-7	52.648	632.08	1.2222	179.50	632.08	2	298.15	24.14
24981	C12H26	2,5,5-trimethylnonane	62184-12-7	52.356	634.33	1.2222	211.92	634.33	2	298.15	24.10
24982	C12H26	2,5,6-trimethylnonane	62184-13-8	52.474	638.89	1.2222	179.50	638.89	2	298.15	24.34
24983	C12H26	2,5,7-trimethylnonane	62184-14-9	52.543	636.16	1.2222	179.50	636.16	2	298.15	24.26
24984	C12H26	2,5,8-trimethylnonane	49557-09-7	52.613	633.44	1.2222	179.50	633.44	2	298.15	24.18
24985	C12H26	2,6,6-trimethylnonane	62184-15-0	52.356	634.33	1.2222	211.92	634.33	2	298.15	24.10
24986	C12H26	2,6,7-trimethylnonane	62184-16-1	52.371	642.97	1.2222	179.50	642.97	2	298.15	24.45
24987	C12H26	2,7,7-trimethylnonane	62184-17-2	52.123	643.92	1.2222	211.92	643.92	2	298.15	24.38
24988	C12H26	3,3,4-trimethylnonane	62184-18-3	51.961	650.77	1.2222	211.92	650.77	2	298.15	24.57
24989	C12H26	3,3,5-trimethylnonane	62184-19-4	52.356	634.33	1.2222	211.92	634.33	2	298.15	24.10
24990	C12H26	3,3,7-trimethylnonane	62184-21-8	52.189	641.18	1.2222	211.92	641.18	2	298.15	24.30
24991	C12H26	3,3,6-trimethylnonane	62184-20-7	52.090	645.29	1.2222	211.92	645.29	2	298.15	24.42
24992	C12H26	3,4,4-trimethylnonane	62184-22-9	52.025	648.03	1.2222	211.92	648.03	2	298.15	24.49
24993	C12H26	3,4,5-trimethylnonane	62184-23-0	52.338	644.34	1.2222	179.50	644.34	2	298.15	24.49
24994	C12H26	3,4,6-trimethylnonane	62184-24-1	52.440	640.25	1.2222	179.50	640.25	2	298.15	24.38
24995	C12H26	3,4,7-trimethylnonane	27802-85-3	52.338	644.34	1.2222	179.50	644.34	2	298.15	24.49
24996	C12H26	3,5,5-trimethylnonane	62184-25-2	52.322	635.70	1.2222	211.92	635.70	2	298.15	24.14
24997	C12H26	3,5,6-trimethylnonane	62184-26-3	52.440	640.25	1.2222	179.50	640.25	2	298.15	24.38
24998	C12H26	3,5,7-trimethylnonane	62184-27-4	52.508	637.53	1.2222	179.50	637.53	2	298.15	24.30
24999	C12H26	3,6,6-trimethylnonane	62184-28-5	52.356	634.33	1.2222	211.92	634.33	2	298.15	24.10
25000	C12H26	4,4,5-trimethylnonane	62184-29-6	52.090	645.29	1.2222	211.92	645.29	2	298.15	24.42
25001	C12H26	4,4,6-trimethylnonane	62184-30-9	52.322	635.70	1.2222	211.92	635.70	2	298.15	24.14
25002	C12H26	4,5,5-trimethylnonane	62184-31-0	52.090	645.29	1.2222	211.92	645.29	2	298.15	24.42
25003	C12H26	4,5,6-trimethylnonane	62211-85-2	52.405	641.61	1.2222	179.50	641.61	2	298.15	24.42
25004	C12H26	4-tert-butyloctane	62184-32-1	52.322	635.70	1.2222	211.92	635.70	2	298.15	24.14
25005	C12H26	2-methyl-4-propyloctane	62184-33-2	52.974	628.54	1.2222	194.50	628.54	2	298.15	24.14
25006	C12H26	2-methyl-5-propyloctane	62184-34-3	52.974	628.54	1.2222	194.50	628.54	2	298.15	24.14
25007	C12H26	3-methyl-4-propyloctane	62184-35-4	52.756	636.66	1.2222	194.50	636.66	2	298.15	24.38
25008	C12H26	3-methyl-5-propyloctane	62184-36-5	52.864	632.60	1.2222	194.50	632.60	2	298.15	24.26
25009	C12H26	4-methyl-4-propyloctane	17312-41-3	52.513	637.48	1.2222	226.92	637.48	2	298.15	24.30
25010	C12H26	4-methyl-5-propyloctane	62183-85-1	52.792	635.31	1.2222	194.50	635.31	2	298.15	24.34

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
25011	C12H26	2-methyl-3-isopropyloctane	13287-19-9	52.474	638.89	1.2222	179.50	638.89	2	298.15	24.34
25012	C12H26	2-methyl-4-isopropyloctane	62183-86-2	52.683	630.72	1.2222	179.50	630.72	2	298.15	24.10
25013	C12H26	2-methyl-5-isopropyloctane	62183-87-3	52.648	632.08	1.2222	179.50	632.08	2	298.15	24.14
25014	C12H26	3-methyl-4-isopropyloctane	62183-88-4	52.508	637.53	1.2222	179.50	637.53	2	298.15	24.30
25015	C12H26	3-methyl-5-isopropyloctane	62183-89-5	52.613	633.44	1.2222	179.50	633.44	2	298.15	24.18
25016	C12H26	4-methyl-4-isopropyloctane	62183-90-8	52.090	645.29	1.2222	211.92	645.29	2	298.15	24.42
25017	C12H26	4-methyl-5-isopropyloctane	62183-91-9	52.543	636.16	1.2222	179.50	636.16	2	298.15	24.26
25018	C12H26	3,3-diethyloctane	17302-40-8	52.175	651.09	1.2222	226.92	651.09	2	298.15	24.68
25019	C12H26	3,4-diethyloctane	62183-92-0	52.685	639.37	1.2222	194.50	639.37	2	298.15	24.45
25020	C12H26	3,5-diethyloctane	62183-93-1	52.756	636.66	1.2222	194.50	636.66	2	298.15	24.38
25021	C12H26	3,6-diethyloctane	62183-94-2	52.580	643.43	1.2222	194.50	643.43	2	298.15	24.57
25022	C12H26	4,4-diethyloctane	17312-42-4	52.342	644.29	1.2222	226.92	644.29	2	298.15	24.49
25023	C12H26	4,5-diethyloctane	1636-41-5	52.756	636.66	1.2222	194.50	636.66	2	298.15	24.38
25024	C12H26	2,2-dimethyl-3-ethyloctane	62183-95-3	52.156	642.55	1.2222	211.92	642.55	2	298.15	24.34
25025	C12H26	2,2-dimethyl-4-ethyloctane	62183-96-4	52.458	630.23	1.2222	211.92	630.23	2	298.15	23.97
25026	C12H26	2,2-dimethyl-5-ethyloctane	62183-97-5	52.390	632.97	1.2222	211.92	632.97	2	298.15	24.06
25027	C12H26	2,2-dimethyl-6-ethyloctane	62183-98-6	52.255	638.44	1.2222	211.92	638.44	2	298.15	24.22
25028	C12H26	2,3-dimethyl-3-ethyloctane	62183-99-7	51.961	650.77	1.2222	211.92	650.77	2	298.15	24.57
25029	C12H26	2,3-dimethyl-4-ethyloctane	62184-00-3	52.440	640.25	1.2222	179.50	640.25	2	298.15	24.38
25030	C12H26	2,3-dimethyl-5-ethyloctane	62184-01-4	52.543	636.16	1.2222	179.50	636.16	2	298.15	24.26
25031	C12H26	2,3-dimethyl-6-ethyloctane	62184-02-5	52.371	642.97	1.2222	179.50	642.97	2	298.15	24.45
25032	C12H26	2,4-dimethyl-3-ethyloctane	62184-03-6	52.440	640.25	1.2222	179.50	640.25	2	298.15	24.38
25033	C12H26	2,4-dimethyl-4-ethyloctane	62184-04-7	52.322	635.70	1.2222	211.92	635.70	2	298.15	24.14
25034	C12H26	2,4-dimethyl-5-ethyloctane	62184-05-8	52.578	634.80	1.2222	179.50	634.80	2	298.15	24.22
25035	C12H26	2,4-dimethyl-6-ethyloctane	62184-06-9	52.613	633.44	1.2222	179.50	633.44	2	298.15	24.18
25036	C12H26	2,5-dimethyl-3-ethyloctane	62184-07-0	52.543	636.16	1.2222	179.50	636.16	2	298.15	24.26
25037	C12H26	2,5-dimethyl-4-ethyloctane	62184-08-1	52.613	633.44	1.2222	179.50	633.44	2	298.15	24.18
25038	C12H26	2,5-dimethyl-5-ethyloctane	62184-09-2	52.255	638.44	1.2222	211.92	638.44	2	298.15	24.22
25039	C12H26	2,5-dimethyl-6-ethyloctane	62183-50-0	52.440	640.25	1.2222	179.50	640.25	2	298.15	24.38
25040	C12H26	2,6-dimethyl-3-ethyloctane	62183-51-1	52.440	640.25	1.2222	179.50	640.25	2	298.15	24.38
25041	C12H26	2,6-dimethyl-4-ethyloctane	62183-52-2	52.683	630.72	1.2222	179.50	630.72	2	298.15	24.10
25042	C12H26	2,6-dimethyl-5-ethyloctane	62183-53-3	52.508	637.53	1.2222	179.50	637.53	2	298.15	24.30
25043	C12H26	2,6-dimethyl-6-ethyloctane	62183-54-4	52.090	645.29	1.2222	211.92	645.29	2	298.15	24.42
25044	C12H26	2,7-dimethyl-3-ethyloctane	62183-55-5	52.474	638.89	1.2222	179.50	638.89	2	298.15	24.34
25045	C12H26	2,7-dimethyl-4-ethyloctane	62183-56-6	52.683	630.72	1.2222	179.50	630.72	2	298.15	24.10
25046	C12H26	3,3-dimethyl-4-ethyloctane	62183-57-7	52.090	645.29	1.2222	211.92	645.29	2	298.15	24.42
25047	C12H26	3,3-dimethyl-5-ethyloctane	62183-58-8	52.322	635.70	1.2222	211.92	635.70	2	298.15	24.14
25048	C12H26	3,3-dimethyl-6-ethyloctane	62183-59-9	52.156	642.55	1.2222	211.92	642.55	2	298.15	24.34
25049	C12H26	3,4-dimethyl-3-ethyloctane	62212-28-6	52.025	648.03	1.2222	211.92	648.03	2	298.15	24.49
25050	C12H26	3,4-dimethyl-4-ethyloctane	62183-60-2	51.993	649.40	1.2222	211.92	649.40	2	298.15	24.53
25051	C12H26	3,4-dimethyl-5-ethyloctane	62183-61-3	52.405	641.61	1.2222	179.50	641.61	2	298.15	24.42
25052	C12H26	3,4-dimethyl-6-ethyloctane	62183-62-4	52.405	641.61	1.2222	179.50	641.61	2	298.15	24.42
25053	C12H26	3,5-dimethyl-3-ethyloctane	62183-63-5	52.156	642.55	1.2222	211.92	642.55	2	298.15	24.34
25054	C12H26	3,5-dimethyl-4-ethyloctane	62183-64-6	52.440	640.25	1.2222	179.50	640.25	2	298.15	24.38
25055	C12H26	3,5-dimethyl-5-ethyloctane	62183-65-7	52.356	634.33	1.2222	211.92	634.33	2	298.15	24.10
25056	C12H26	3,5-dimethyl-6-ethyloctane	62183-66-8	52.440	640.25	1.2222	179.50	640.25	2	298.15	24.38
25057	C12H26	3,6-dimethyl-3-ethyloctane	62183-67-9	52.058	646.66	1.2222	211.92	646.66	2	298.15	24.45
25058	C12H26	3,6-dimethyl-4-ethyloctane	62183-68-0	52.474	638.89	1.2222	179.50	638.89	2	298.15	24.34
25059	C12H26	4,4-dimethyl-3-ethyloctane	62183-69-1	52.090	645.29	1.2222	211.92	645.29	2	298.15	24.42
25060	C12H26	4,4-dimethyl-5-ethyloctane	62183-70-4	52.156	642.55	1.2222	211.92	642.55	2	298.15	24.34
25061	C12H26	4,4-dimethyl-6-ethyloctane	62183-71-5	52.322	635.70	1.2222	211.92	635.70	2	298.15	24.14
25062	C12H26	4,5-dimethyl-3-ethyloctane	62183-72-6	52.371	642.97	1.2222	179.50	642.97	2	298.15	24.45
25063	C12H26	4,5-dimethyl-4-ethyloctane	62183-73-7	52.025	648.03	1.2222	211.92	648.03	2	298.15	24.49
25064	C12H26	2,2,3,3-tetramethyloctane	62183-74-8	51.383	655.89	1.2222	229.34	655.89	2	298.15	24.49
25065	C12H26	2,2,3,4-tetramethyloctane	62183-75-9	51.860	645.03	1.2222	196.92	645.03	2	298.15	24.30
25066	C12H26	2,2,3,5-tetramethyloctane	62183-76-0	51.955	640.89	1.2222	196.92	640.89	2	298.15	24.18
25067	C12H26	2,2,3,6-tetramethyloctane	62183-77-1	51.892	643.65	1.2222	196.92	643.65	2	298.15	24.26
25068	C12H26	2,2,3,7-tetramethyloctane	62183-78-2	51.892	643.65	1.2222	196.92	643.65	2	298.15	24.26
25069	C12H26	2,2,4,4-tetramethyloctane	62183-79-3	51.623	644.80	1.2222	229.34	644.80	2	298.15	24.18
25070	C12H26	2,2,4,5-tetramethyloctane	62183-80-6	52.117	634.00	1.2222	196.92	634.00	2	298.15	23.97
25071	C12H26	2,2,4,6-tetramethyloctane	62183-81-7	52.183	631.25	1.2222	196.92	631.25	2	298.15	23.89
25072	C12H26	2,2,4,7-tetramethyloctane	62183-82-8	52.190	630.97	1.2222	196.92	630.97	2	298.15	23.88
25073	C12H26	2,2,5,5-tetramethyloctane	62183-83-9	51.871	633.71	1.2222	229.34	633.71	2	298.15	23.85
25074	C12H26	2,2,5,6-tetramethyloctane	62183-84-0	52.020	638.14	1.2222	196.92	638.14	2	298.15	24.10
25075	C12H26	2,2,5,7-tetramethyloctane	62199-19-3	52.183	631.25	1.2222	196.92	631.25	2	298.15	23.89
25076	C12H26	2,2,6,6-tetramethyloctane	62199-20-6	51.840	635.10	1.2222	229.34	635.10	2	298.15	23.89
25077	C12H26	2,2,6,7-tetramethyloctane	62199-21-7	51.987	639.52	1.2222	196.92	639.52	2	298.15	24.14
25078	C12H26	2,2,7,7-tetramethyloctane	1071-31-4	51.840	635.10	1.2222	229.34	635.10	2	298.15	23.89
25079	C12H26	2,3,3,4-tetramethyloctane	62199-22-8	51.673	653.29	1.2222	196.92	653.29	2	298.15	24.53
25080	C12H26	2,3,3,5-tetramethyloctane	62199-23-9	51.892	643.65	1.2222	196.92	643.65	2	298.15	24.26
25081	C12H26	2,3,3,6-tetramethyloctane	62199-24-0	51.829	646.41	1.2222	196.92	646.41	2	298.15	24.34
25082	C12H26	2,3,3,7-tetramethyloctane	62199-25-1	51.829	646.41	1.2222	196.92	646.41	2	298.15	24.34
25083	C12H26	2,3,4,4-tetramethyloctane	62199-26-2	51.829	646.41	1.2222	196.92	646.41	2	298.15	24.34
25084	C12H26	2,3,4,5-tetramethyloctane	62199-27-3	52.118	643.97	1.2222	164.50	643.97	2	298.15	24.38
25085	C12H26	2,3,4,6-tetramethyloctane	62199-28-4	52.184	641.23	1.2222	164.50	641.23	2	298.15	24.30
25086	C12H26	2,3,4,7-tetramethyloctane	62199-29-5	52.217	639.86	1.2222	164.50	639.86	2	298.15	24.26
25087	C12H26	2,3,5,5-tetramethyloctane	62199-30-8	51.860	645.03	1.2222	196.92	645.03	2	298.15	24.30
25088	C12H26	2,3,5,6-tetramethyloctane	62199-31-9	52.184	641.23	1.2222	164.50	641.23	2	298.15	24.30
25089	C12H26	2,3,5,7-tetramethyloctane	62199-32-0	52.351	634.39	1.2222	164.50	634.39	2	298.15	24.10
25090	C12H26	2,3,6,6-tetramethyloctane	62199-33-1	51.923	642.27	1.2222	196.92	642.27	2	298.15	24.22

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
25091	C12H26	2,3,6,7-tetramethyloctane	52670-34-5	52.151	642.60	1.2222	164.50	642.60	2	298.15	24.34
25092	C12H26	2,4,4,5-tetramethyloctane	62199-34-2	51.987	639.52	1.2222	196.92	639.52	2	298.15	24.14
25093	C12H26	2,4,4,6-tetramethyloctane	62199-35-3	52.183	631.25	1.2222	196.92	631.25	2	298.15	23.89
25094	C12H26	2,4,4,7-tetramethyloctane	35866-96-7	52.217	629.87	1.2222	196.92	629.87	2	298.15	23.85
25095	C12H26	2,4,5,5-tetramethyloctane	62199-36-4	51.955	640.89	1.2222	196.92	640.89	2	298.15	24.18
25096	C12H26	2,4,5,6-tetramethyloctane	62199-37-5	52.217	639.86	1.2222	164.50	639.86	2	298.15	24.26
25097	C12H26	2,4,5,7-tetramethyloctane	2217-17-6	52.478	629.32	1.2222	164.50	629.32	2	298.15	23.94
25098	C12H26	2,4,6,6-tetramethyloctane	62199-38-6	52.117	634.00	1.2222	196.92	634.00	2	298.15	23.97
25099	C12H26	2,5,5,6-tetramethyloctane	62199-39-7	51.892	643.65	1.2222	196.92	643.65	2	298.15	24.26
25100	C12H26	2,5,6,6-tetramethyloctane	62199-40-0	51.829	646.41	1.2222	196.92	646.41	2	298.15	24.34
25101	C12H26	3,3,4,4-tetramethyloctane	62199-41-1	51.325	658.66	1.2222	229.34	658.66	2	298.15	24.57
25102	C12H26	3,3,4,5-tetramethyloctane	62199-42-2	51.766	649.16	1.2222	196.92	649.16	2	298.15	24.42
25103	C12H26	3,3,4,6-tetramethyloctane	62199-43-3	51.829	646.41	1.2222	196.92	646.41	2	298.15	24.34
25104	C12H26	3,3,5,5-tetramethyloctane	62199-44-4	51.472	651.73	1.2222	229.34	651.73	2	298.15	24.38
25105	C12H26	3,3,5,6-tetramethyloctane	62199-45-5	51.923	642.27	1.2222	196.92	642.27	2	298.15	24.22
25106	C12H26	3,3,6,6-tetramethyloctane	62199-46-6	51.693	641.61	1.2222	199.87	641.61	2	298.15	24.08
25107	C12H26	3,4,4,5-tetramethyloctane	62199-47-7	51.673	653.29	1.2222	196.92	653.29	2	298.15	24.53
25108	C12H26	3,4,4,6-tetramethyloctane	62185-19-7	51.860	645.03	1.2222	196.92	645.03	2	298.15	24.30
25109	C12H26	3,4,5,5-tetramethyloctane	62185-20-0	51.797	647.78	1.2222	196.92	647.78	2	298.15	24.38
25110	C12H26	3,4,5,6-tetramethyloctane	62185-21-1	52.053	646.71	1.2222	164.50	646.71	2	298.15	24.45
25111	C12H26	4,4,5,5-tetramethyloctane	62185-22-2	51.383	655.89	1.2222	229.34	655.89	2	298.15	24.49
25112	C12H26	2-methyl-4-tert-butylheptane	62185-23-3	52.183	631.25	1.2222	196.92	631.25	2	298.15	23.89
25113	C12H26	3-methyl-4-tert-butylheptane	62185-24-4	52.020	638.14	1.2222	196.92	638.14	2	298.15	24.10
25114	C12H26	4-methyl-4-tert-butylheptane	62185-25-5	51.442	653.12	1.2222	229.34	653.12	2	298.15	24.42
25115	C12H26	3-ethyl-4-propylheptane	62185-26-6	52.792	635.31	1.2222	194.50	635.31	2	298.15	24.34
25116	C12H26	4-ethyl-4-propylheptane	17312-43-5	52.444	640.20	1.2222	226.92	640.20	2	298.15	24.38
25117	C12H26	3-ethyl-4-isopropylheptane	62185-27-7	52.508	637.53	1.2222	179.50	637.53	2	298.15	24.30
25118	C12H26	4-ethyl-4-isopropylheptane	62185-28-8	52.025	648.03	1.2222	211.92	648.03	2	298.15	24.49
25119	C12H26	2,2-dimethyl-4-propylheptane	---	52.563	626.12	1.2222	211.92	626.12	2	298.15	23.85
25120	C12H26	2,3-dimethyl-4-propylheptane	62185-30-2	52.543	636.16	1.2222	179.50	636.16	2	298.15	24.26
25121	C12H26	2,4-dimethyl-4-propylheptane	62185-31-3	52.390	632.97	1.2222	211.92	632.97	2	298.15	24.06
25122	C12H26	2,5-dimethyl-4-propylheptane	62185-32-4	52.683	630.72	1.2222	179.50	630.72	2	298.15	24.10
25123	C12H26	2,6-dimethyl-4-propylheptane	62185-33-5	52.878	623.36	1.2222	179.50	623.36	2	298.15	23.87
25124	C12H26	3,3-dimethyl-4-propylheptane	62185-34-6	52.156	642.55	1.2222	211.92	642.55	2	298.15	24.34
25125	C12H26	3,4-dimethyl-4-propylheptane	62185-35-7	52.090	645.29	1.2222	211.92	645.29	2	298.15	24.42
25126	C12H26	3,5-dimethyl-4-propylheptane	62185-36-8	52.474	638.89	1.2222	179.50	638.89	2	298.15	24.34
25127	C12H26	2,2-dimethyl-3-isopropylheptane	62185-37-9	52.020	638.14	1.2222	196.92	638.14	2	298.15	24.10
25128	C12H26	2,2-dimethyl-4-isopropylheptane	62185-38-0	52.284	627.12	1.2222	196.92	627.12	2	298.15	23.76
25129	C12H26	2,3-dimethyl-3-isopropylheptane	62185-39-1	51.673	653.29	1.2222	196.92	653.29	2	298.15	24.53
25130	C12H26	2,3-dimethyl-4-isopropylheptane	62185-40-4	52.284	637.13	1.2222	164.50	637.13	2	298.15	24.18
25131	C12H26	2,4-dimethyl-3-isopropylheptane	62185-41-5	52.284	637.13	1.2222	164.50	637.13	2	298.15	24.18
25132	C12H26	2,4-dimethyl-4-isopropylheptane	62185-42-6	51.955	640.89	1.2222	196.92	640.89	2	298.15	24.18
25133	C12H26	2,5-dimethyl-3-isopropylheptane	62185-43-7	52.351	634.39	1.2222	164.50	634.39	2	298.15	24.10
25134	C12H26	2,5-dimethyl-4-isopropylheptane	62185-44-8	52.385	633.02	1.2222	164.50	633.02	2	298.15	24.06
25135	C12H26	2,6-dimethyl-3-isopropylheptane	62185-45-9	52.324	635.48	1.2222	164.50	635.48	2	298.15	24.13
25136	C12H26	2,6-dimethyl-4-isopropylheptane	35866-89-8	52.593	624.80	1.2222	164.50	624.80	2	298.15	23.81
25137	C12H26	3,3-dimethyl-4-isopropylheptane	62185-46-0	51.892	643.65	1.2222	196.92	643.65	2	298.15	24.26
25138	C12H26	3,4-dimethyl-4-isopropylheptane	62185-47-1	51.673	653.29	1.2222	196.92	653.29	2	298.15	24.53
25139	C12H26	3,5-dimethyl-4-isopropylheptane	62198-89-4	52.217	639.86	1.2222	164.50	639.86	2	298.15	24.26
25140	C12H26	2-methyl-3,3-diethylheptane	62198-90-7	51.929	652.14	1.2222	211.92	652.14	2	298.15	24.61
25141	C12H26	2-methyl-3,4-diethylheptane	62198-91-8	52.508	637.53	1.2222	179.50	637.53	2	298.15	24.30
25142	C12H26	2-methyl-3,5-diethylheptane	62198-92-9	52.508	637.53	1.2222	179.50	637.53	2	298.15	24.30
25143	C12H26	2-methyl-4,4-diethylheptane	62198-93-0	52.222	639.81	1.2222	211.92	639.81	2	298.15	24.26
25144	C12H26	2-methyl-4,5-diethylheptane	62198-94-1	52.578	634.80	1.2222	179.50	634.80	2	298.15	24.22
25145	C12H26	2-methyl-5,5-diethylheptane	62198-95-2	52.090	645.29	1.2222	211.92	645.29	2	298.15	24.42
25146	C12H26	3-methyl-3,4-diethylheptane	62198-96-3	51.993	649.40	1.2222	211.92	649.40	2	298.15	24.53
25147	C12H26	3-methyl-3,5-diethylheptane	62198-97-4	52.123	643.92	1.2222	211.92	643.92	2	298.15	24.38
25148	C12H26	3-methyl-4,4-diethylheptane	62198-98-5	51.897	653.51	1.2222	211.92	653.51	2	298.15	24.65
25149	C12H26	3-methyl-4,5-diethylheptane	62198-99-6	52.405	641.61	1.2222	179.50	641.61	2	298.15	24.42
25150	C12H26	3-methyl-5,5-diethylheptane	62199-00-2	52.058	646.66	1.2222	211.92	646.66	2	298.15	24.45
25151	C12H26	4-methyl-3,3-diethylheptane	62199-01-3	51.865	654.88	1.2222	211.92	654.88	2	298.15	24.68
25152	C12H26	4-methyl-3,4-diethylheptane	62199-02-4	51.993	649.40	1.2222	211.92	649.40	2	298.15	24.53
25153	C12H26	4-methyl-3,5-diethylheptane	62199-03-5	52.338	644.34	1.2222	179.50	644.34	2	298.15	24.49
25154	C12H26	2,2,3-trimethyl-3-ethylheptane	62199-04-6	51.383	655.89	1.2222	229.34	655.89	2	298.15	24.49
25155	C12H26	2,2,3-trimethyl-4-ethylheptane	62199-05-7	51.923	642.27	1.2222	196.92	642.27	2	298.15	24.22
25156	C12H26	2,2,3-trimethyl-5-ethylheptane	62199-06-8	51.955	640.89	1.2222	196.92	640.89	2	298.15	24.18
25157	C12H26	2,2,4-trimethyl-3-ethylheptane	62199-07-9	51.955	640.89	1.2222	196.92	640.89	2	298.15	24.18
25158	C12H26	2,2,4-trimethyl-4-ethylheptane	62199-08-0	51.562	647.57	1.2222	229.34	647.57	2	298.15	24.26
25159	C12H26	2,2,4-trimethyl-5-ethylheptane	62199-09-1	52.117	634.00	1.2222	196.92	634.00	2	298.15	23.97
25160	C12H26	2,2,5-trimethyl-3-ethylheptane	62199-10-4	52.020	638.14	1.2222	196.92	638.14	2	298.15	24.10
25161	C12H26	2,2,5-trimethyl-4-ethylheptane	62199-11-5	52.150	632.63	1.2222	196.92	632.63	2	298.15	23.93
25162	C12H26	2,2,5-trimethyl-5-ethylheptane	62199-12-6	51.715	640.64	1.2222	229.34	640.64	2	298.15	24.06
25163	C12H26	2,2,6-trimethyl-3-ethylheptane	62199-13-7	52.020	638.14	1.2222	196.92	638.14	2	298.15	24.10
25164	C12H26	2,2,6-trimethyl-4-ethylheptane	62199-14-8	52.351	624.36	1.2222	196.92	624.36	2	298.15	23.68
25165	C12H26	2,2,6-trimethyl-5-ethylheptane	62199-15-9	52.117	634.00	1.2222	196.92	634.00	2	298.15	23.97
25166	C12H26	2,3,3-trimethyl-4-ethylheptane	62199-16-0	51.735	650.54	1.2222	196.92	650.54	2	298.15	24.45
25167	C12H26	2,3,3-trimethyl-5-ethylheptane	62199-17-1	51.892	643.65	1.2222	196.92	643.65	2	298.15	24.26
25168	C12H26	2,3,4-trimethyl-3-ethylheptane	62199-18-2	51.612	656.05	1.2222	196.92	656.05	2	298.15	24.61
25169	C12H26	2,3,4-trimethyl-4-ethylheptane	62198-55-4	51.766	649.16	1.2222	196.92	649.16	2	298.15	24.42
25170	C12H26	2,3,4-trimethyl-5-ethylheptane	62198-56-5	52.118	643.97	1.2222	164.50	643.97	2	298.15	24.38

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
25171	C12H26	2,3,5-trimethyl-3-ethylheptane	62198-57-6	51.782	648.47	1.2222	196.92	648.47	2	298.15	24.40
25172	C12H26	2,3,5-trimethyl-4-ethylheptane	62198-58-7	52.151	642.60	1.2222	164.50	642.60	2	298.15	24.34
25173	C12H26	2,3,5-trimethyl-5-ethylheptane	62198-59-8	51.892	643.65	1.2222	196.92	643.65	2	298.15	24.26
25174	C12H26	2,3,6-trimethyl-3-ethylheptane	62198-60-1	51.829	646.41	1.2222	196.92	646.41	2	298.15	24.34
25175	C12H26	2,3,6-trimethyl-4-ethylheptane	62198-61-2	52.351	634.39	1.2222	164.50	634.39	2	298.15	24.10
25176	C12H26	2,3,6-trimethyl-5-ethylheptane	62198-62-3	52.250	638.50	1.2222	164.50	638.50	2	298.15	24.22
25177	C12H26	2,4,4-trimethyl-3-ethylheptane	62198-63-4	51.892	643.65	1.2222	196.92	643.65	2	298.15	24.26
25178	C12H26	2,4,4-trimethyl-5-ethylheptane	62198-64-5	51.955	640.89	1.2222	196.92	640.89	2	298.15	24.18
25179	C12H26	2,4,5-trimethyl-3-ethylheptane	62198-65-6	52.151	642.60	1.2222	164.50	642.60	2	298.15	24.34
25180	C12H26	2,4,5-trimethyl-4-ethylheptane	62198-66-7	51.860	645.03	1.2222	196.92	645.03	2	298.15	24.30
25181	C12H26	2,4,5-trimethyl-5-ethylheptane	62198-67-8	51.797	647.78	1.2222	196.92	647.78	2	298.15	24.38
25182	C12H26	2,4,6-trimethyl-3-ethylheptane	62198-68-9	52.318	635.76	1.2222	164.50	635.76	2	298.15	24.14
25183	C12H26	2,4,6-trimethyl-4-ethylheptane	62198-69-0	52.183	631.25	1.2222	196.92	631.25	2	298.15	23.89
25184	C12H26	2,5,5-trimethyl-3-ethylheptane	62198-70-3	52.020	638.14	1.2222	196.92	638.14	2	298.15	24.10
25185	C12H26	2,5,5-trimethyl-4-ethylheptane	62198-71-4	51.955	640.89	1.2222	196.92	640.89	2	298.15	24.18
25186	C12H26	3,3,4-trimethyl-4-ethylheptane	62198-72-5	51.238	662.82	1.2222	229.34	662.82	2	298.15	24.68
25187	C12H26	3,3,4-trimethyl-5-ethylheptane	62198-73-6	51.735	650.54	1.2222	196.92	650.54	2	298.15	24.45
25188	C12H26	3,3,5-trimethyl-4-ethylheptane	62198-74-7	51.797	647.78	1.2222	196.92	647.78	2	298.15	24.38
25189	C12H26	3,3,5-trimethyl-5-ethylheptane	62198-75-8	51.325	658.66	1.2222	229.34	658.66	2	298.15	24.57
25190	C12H26	3,4,4-trimethyl-3-ethylheptane	62198-76-9	51.238	662.82	1.2222	229.34	662.82	2	298.15	24.68
25191	C12H26	3,4,4-trimethyl-5-ethylheptane	62198-77-0	51.643	654.67	1.2222	196.92	654.67	2	298.15	24.57
25192	C12H26	3,4,5-trimethyl-3-ethylheptane	62198-78-1	51.643	654.67	1.2222	196.92	654.67	2	298.15	24.57
25193	C12H26	3,4,5-trimethyl-4-ethylheptane	62198-79-2	51.551	658.81	1.2222	196.92	658.81	2	298.15	24.68
25194	C12H26	2,2,3,3,4-pentamethylheptane	62198-80-5	51.054	660.06	1.2222	214.34	660.06	2	298.15	24.49
25195	C12H26	2,2,3,3,5-pentamethylheptane	62198-81-6	51.224	651.69	1.2222	214.34	651.69	2	298.15	24.26
25196	C12H26	2,2,3,3,6-pentamethylheptane	62198-82-7	51.253	650.30	1.2222	214.34	650.30	2	298.15	24.22
25197	C12H26	2,2,3,4,4-pentamethylheptane	62198-83-8	50.998	662.85	1.2222	214.34	662.85	2	298.15	24.57
25198	C12H26	2,2,3,4,5-pentamethylheptane	62198-84-9	51.557	647.63	1.2222	181.92	647.63	2	298.15	24.26
25199	C12H26	2,2,3,4,6-pentamethylheptane	62198-85-0	51.741	639.31	1.2222	181.92	639.31	2	298.15	24.01
25200	C12H26	2,2,3,5,5-pentamethylheptane	62198-86-1	51.428	641.93	1.2222	214.34	641.93	2	298.15	23.97
25201	C12H26	2,2,3,5,6-pentamethylheptane	62198-87-2	51.716	640.42	1.2222	181.92	640.42	2	298.15	24.05
25202	C12H26	2,2,3,6,6-pentamethylheptane	62198-88-3	51.487	639.14	1.2222	214.34	639.14	2	298.15	23.89
25203	C12H26	2,2,4,4,5-pentamethylheptane	62199-61-5	51.167	654.48	1.2222	214.34	654.48	2	298.15	24.34
25204	C12H26	2,2,4,4,6-pentamethylheptane	62199-62-6	51.469	639.98	1.2222	214.34	639.98	2	298.15	23.91
25205	C12H26	2,2,4,5,5-pentamethylheptane	62199-63-7	51.457	640.53	1.2222	214.34	640.53	2	298.15	23.93
25206	C12H26	2,2,4,5,6-pentamethylheptane	62199-64-8	51.835	635.15	1.2222	181.92	635.15	2	298.15	23.89
25207	C12H26	2,2,4,6,6-pentamethylheptane	13475-82-6	51.702	629.30	1.2222	206.15	629.30	2	298.15	23.59
25208	C12H26	2,2,5,5,6-pentamethylheptane	62199-65-9	51.457	640.53	1.2222	214.34	640.53	2	298.15	23.93
25209	C12H26	2,3,3,4,4-pentamethylheptane	62199-66-0	50.971	664.25	1.2222	214.34	664.25	2	298.15	24.61
25210	C12H26	2,3,3,4,5-pentamethylheptane	62199-67-1	51.379	655.95	1.2222	181.92	655.95	2	298.15	24.49
25211	C12H26	2,3,3,4,6-pentamethylheptane	62199-68-2	51.527	649.01	1.2222	181.92	649.01	2	298.15	24.30
25212	C12H26	2,3,3,5,5-pentamethylheptane	62199-69-3	51.054	660.06	1.2222	214.34	660.06	2	298.15	24.49
25213	C12H26	2,3,3,5,6-pentamethylheptane	52670-35-6	51.618	644.85	1.2222	181.92	644.85	2	298.15	24.18
25214	C12H26	2,3,4,4,5-pentamethylheptane	62199-70-6	51.379	655.95	1.2222	181.92	655.95	2	298.15	24.49
25215	C12H26	2,3,4,4,6-pentamethylheptane	62199-71-7	51.679	642.08	1.2222	181.92	642.08	2	298.15	24.10
25216	C12H26	2,3,4,5,5-pentamethylheptane	62199-72-8	51.468	651.79	1.2222	181.92	651.79	2	298.15	24.38
25217	C12H26	2,3,4,5,6-pentamethylheptane	27574-98-7	51.855	645.08	1.2222	149.50	645.08	2	298.15	24.30
25218	C12H26	2,4,4,5,5-pentamethylheptane	62199-73-9	51.167	654.48	1.2222	214.34	654.48	2	298.15	24.34
25219	C12H26	3,3,4,4,5-pentamethylheptane	62199-74-0	50.888	668.43	1.2222	214.34	668.43	2	298.15	24.72
25220	C12H26	3,3,4,5,5-pentamethylheptane	62199-75-1	50.807	672.62	1.2222	214.34	672.62	2	298.15	24.83
25221	C12H26	2,2-dimethyl-3-tert-butylhexane	62199-76-2	51.167	654.48	1.2222	214.34	654.48	2	298.15	24.34
25222	C12H26	2-methyl-3-ethyl-3-isopropylhexane	62199-77-3	52.025	648.03	1.2222	211.92	648.03	2	298.15	24.49
25223	C12H26	2-methyl-4-ethyl-3-isopropylhexane	62199-78-4	52.683	630.72	1.2222	179.50	630.72	2	298.15	24.10
25224	C12H26	2,2,3-trimethyl-3-isopropylhexane	62199-79-5	51.026	661.46	1.2222	214.34	661.46	2	298.15	24.53
25225	C12H26	2,2,4-trimethyl-3-isopropylhexane	62199-80-8	51.710	640.70	1.2222	181.92	640.70	2	298.15	24.06
25226	C12H26	2,2,5-trimethyl-3-isopropylhexane	62199-81-9	51.995	628.22	1.2222	181.92	628.22	2	298.15	23.68
25227	C12H26	2,2,5-trimethyl-4-isopropylhexane	62199-82-0	51.995	628.22	1.2222	181.92	628.22	2	298.15	23.68
25228	C12H26	2,3,4-trimethyl-3-isopropylhexane	62199-83-1	51.262	661.49	1.2222	181.92	661.49	2	298.15	24.65
25229	C12H26	2,3,5-trimethyl-3-isopropylhexane	62199-84-2	51.557	647.63	1.2222	181.92	647.63	2	298.15	24.26
25230	C12H26	2,3,5-trimethyl-4-isopropylhexane	62199-85-3	52.015	638.19	1.2222	149.50	638.19	2	298.15	24.10
25231	C12H26	2,4,4-trimethyl-3-isopropylhexane	62199-86-4	51.618	644.85	1.2222	181.92	644.85	2	298.15	24.18
25232	C12H26	3,3,4-triethylhexane	62199-87-5	51.834	656.25	1.2222	211.92	656.25	2	298.15	24.72
25233	C12H26	2,2-dimethyl,3,3-diethylhexane	62199-88-6	51.383	655.89	1.2222	229.34	655.89	2	298.15	24.49
25234	C12H26	2,2-dimethyl-3,4-diethylhexane	62199-89-7	52.020	638.14	1.2222	196.92	638.14	2	298.15	24.10
25235	C12H26	2,2-dimethyl-4,4-diethylhexane	62184-89-8	51.383	655.89	1.2222	229.34	655.89	2	298.15	24.49
25236	C12H26	2,3-dimethyl-3,4-diethylhexane	62184-90-1	51.582	657.43	1.2222	196.92	657.43	2	298.15	24.65
25237	C12H26	2,3-dimethyl-4,4-diethylhexane	62184-91-2	51.582	657.43	1.2222	196.92	657.43	2	298.15	24.65
25238	C12H26	2,4-dimethyl-3,3-diethylhexane	62184-92-3	51.704	651.92	1.2222	196.92	651.92	2	298.15	24.49
25239	C12H26	2,4-dimethyl-3,4-diethylhexane	62184-93-4	51.704	651.92	1.2222	196.92	651.92	2	298.15	24.49
25240	C12H26	2,5-dimethyl-3,3-diethylhexane	62184-94-5	52.020	638.14	1.2222	196.92	638.14	2	298.15	24.10
25241	C12H26	2,5-dimethyl-3,4-diethylhexane	62184-95-6	52.351	634.39	1.2222	164.50	634.39	2	298.15	24.10
25242	C12H26	3,3-dimethyl-4,4-diethylhexane	62184-96-7	51.095	669.75	1.2222	229.34	669.75	2	298.15	24.87
25243	C12H26	3,4-dimethyl-3,4-diethylhexane	62184-97-8	51.095	669.75	1.2222	229.34	669.75	2	298.15	24.87
25244	C12H26	2,2,3,3-tetramethyl-4-ethylhexane	62184-98-9	51.026	661.46	1.2222	214.34	661.46	2	298.15	24.53
25245	C12H26	2,2,3,4-tetramethyl-3-ethylhexane	62184-99-0	50.943	665.64	1.2222	214.34	665.64	2	298.15	24.65
25246	C12H26	2,2,3,4-tetramethyl-4-ethylhexane	62185-00-6	50.834	671.22	1.2222	214.34	671.22	2	298.15	24.80
25247	C12H26	2,2,3,5-tetramethyl-3-ethylhexane	62185-01-7	51.224	651.69	1.2222	214.34	651.69	2	298.15	24.26
25248	C12H26	2,2,3,5-tetramethyl-4-ethylhexane	62185-02-8	51.649	643.47	1.2222	181.92	643.47	2	298.15	24.14
25249	C12H26	2,2,4,4-tetramethyl-3-ethylhexane	62185-03-9	51.054	660.06	1.2222	214.34	660.06	2	298.15	24.49
25250	C12H26	2,2,4,5-tetramethyl-3-ethylhexane	62185-04-0	51.679	642.08	1.2222	181.92	642.08	2	298.15	24.10

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
25251	C12H26	2,2,4,5-tetramethyl-4-ethylhexane	62185-05-1	51.138	655.88	1.2222	214.34	655.88	2	298.15	24.38
25252	C12H26	2,2,5,5-tetramethyl-3-ethylhexane	62185-06-2	51.639	632.16	1.2222	214.34	632.16	2	298.15	23.68
25253	C12H26	2,3,3,4-tetramethyl-4-ethylhexane	62185-07-3	50.834	671.22	1.2222	214.34	671.22	2	298.15	24.80
25254	C12H26	2,3,3,5-tetramethyl-4-ethylhexane	62185-08-4	51.468	651.79	1.2222	181.92	651.79	2	298.15	24.38
25255	C12H26	2,3,4,4-tetramethyl-3-ethylhexane	62185-09-5	50.834	671.22	1.2222	214.34	671.22	2	298.15	24.80
25256	C12H26	2,3,4,5-tetramethyl-3-ethylhexane	62185-10-8	51.349	657.33	1.2222	181.92	657.33	2	298.15	24.53
25257	C12H26	2,2,3,3,4,4-hexamethylhexane	62185-11-9	49.999	691.43	1.2222	231.76	691.43	2	298.15	25.09
25258	C12H26	2,2,3,3,4,5-hexamethylhexane	62185-12-0	50.748	662.99	1.2222	199.34	662.99	2	298.15	24.45
25259	C12H26	2,2,3,3,5,5-hexamethylhexane	60302-24-1	50.516	661.75	1.2222	231.76	661.75	2	298.15	24.30
25260	C12H26	2,2,3,4,4,5-hexamethylhexane	62185-13-1	50.564	672.82	1.2222	199.34	672.82	2	298.15	24.72
25261	C12H26	2,2,3,4,5,5-hexamethylhexane	62185-14-2	50.991	650.35	1.2222	199.34	650.35	2	298.15	24.10
25262	C12H26	2,3,3,4,4,5-hexamethylhexane	52670-36-7	50.564	672.82	1.2222	199.34	672.82	2	298.15	24.72
25263	C12H26	2,4-dimethyl-3-ethyl-3-isopropylpentane	62185-16-4	51.205	664.26	1.2222	181.92	664.26	2	298.15	24.72
25264	C12H26	2,2,4-trimethyl-3,3-diethylpentane	62185-15-3	50.888	668.43	1.2222	214.34	668.43	2	298.15	24.72
25265	C12H26	2,2,3,4-tetramethyl-3-isopropylpentane	62185-17-5	50.616	670.01	1.2222	199.34	670.01	2	298.15	24.65
25266	C12H26	2,2,4,4-tetramethyl-3-isopropylpentane	62185-18-6	50.882	655.97	1.2222	199.34	655.97	2	298.15	24.26
25267	C12H26	2,2,3,4,4-pentamethyl-3-ethylpentane	66576-21-4	50.046	688.61	1.2222	231.76	688.61	2	298.15	25.02
25268	C12H26	2-methylundecane	7045-71-8	52.666	650.71	1.2222	227.00	650.71	2	298.15	24.90
25277	C12H26O	1-dodecanol	112-53-8	47.107	721.00	0.8000	296.95	721.00	2	298.15	30.74
25278	C12H26O	2-dodecanol	10203-28-8	47.217	704.80	0.8000	292.15	704.80	2	298.15	30.41
25279	C12H26O	3-dodecanol	10203-30-2	46.218	712.90	0.8000	298.15	712.90	2	298.15	29.96
25280	C12H26O	6-dodecanol	6836-38-0	45.378	712.90	0.8000	303.15	712.90	2	303.15	29.14
25281	C12H26O	2-methyl-1-undecanol	10522-26-6	46.218	712.90	0.8000	280.73	712.90	2	298.15	29.96
25282	C12H26O	2-methyl-3-undecanol	60671-36-5	46.218	712.90	0.8000	280.73	712.90	2	298.15	29.96
25283	C12H26O	2-methyl-5-undecanol	33978-71-1	46.218	712.90	0.8000	280.73	712.90	2	298.15	29.96
25284	C12H26O	2-butyl-1-octanol	3913-02-8	46.610	712.90	0.8000	280.73	712.90	2	298.15	30.22
25285	C12H26O	dihexyl ether	112-58-3	53.657	658.00	1.2424	230.15	658.00	1,2	298.15	25.35
25286	C12H26O	2,6,8-trimethylnonanol-4	123-17-1	45.393	712.90	0.8000	213.25	712.90	2	298.15	29.43
25287	C12H26O2	1,2-dodecanediol	1119-87-5	100.828	723.16	1.2222	334.15	723.16	2	334.15	47.26
25288	C12H26O2	1,3-dodecanediol	39516-24-0	100.138	736.85	1.2222	331.14	736.85	2	331.14	48.29
25289	C12H26O2	1,4-dodecanediol	38146-95-1	98.942	762.98	1.2222	320.15	762.98	2	320.15	50.89
25290	C12H26O2	1,12-dodecanediol	5675-51-4	99.827	745.30	1.2222	352.35	745.30	2	352.35	45.65
25291	C12H26O2	(R)-1,2-dodecanediol	85514-84-7	99.910	742.07	1.2222	336.29	742.07	2	336.29	47.78
25292	C12H26O2	(S)-1,2-dodecanediol	85514-85-8	99.910	742.07	1.2222	343.65	742.07	2	343.65	46.72
25294	C12H26O3	diethylene glycol dibutyl ether	112-73-2	61.775	680.00	1.2222	212.95	680.00	2	298.15	30.51
25310	C12H26S	1-dodecanethiol	112-55-0	58.149	724.00	1.2222	265.15	724.00	2	298.15	30.40
25311	C12H26S	2-dodecanethiol	14402-50-7	58.025	720.00	1.2222	256.15	720.00	2	298.15	30.19
25312	C12H26S	dihexyl sulfide	6294-31-1	53.739	733.68	1.2222	259.16	733.68	1,2	298.15	28.41
25313	C12H26S	methyl undecyl sulfide	7289-44-3	53.060	733.68	1.2222	259.16	733.68	2	298.15	28.05
25314	C12H26S	ethyl decyl sulfide	19313-61-2	53.060	733.68	1.2222	259.16	733.68	2	298.15	28.05
25315	C12H26S	propyl nonyl sulfide	62103-66-6	53.060	733.68	1.2222	259.16	733.68	2	298.15	28.05
25316	C12H26S	butyl octyl sulfide	16900-07-5	53.060	733.68	1.2222	259.16	733.68	2	298.15	28.05
25317	C12H26S	tert-dodecylmercaptan	25103-58-6	56.546	722.00	1.2222	265.75	722.00	2	298.15	29.49
25318	C12H26S2	dihexyl disulfide	10496-15-8	54.367	747.10	1.2222	225.16	747.10	2	298.15	29.17
25327	C12H27BO3	tributyl borate	688-74-4	40.121	743.15	1.2222	203.15	743.15	2	298.15	21.44
25340	C12H27N	dodecylamine	124-22-1	61.990	696.00	1.2222	301.47	696.00	2	301.47	30.97
25341	C12H27N	methylundecylamine	66553-53-5	55.454	682.30	1.2222	260.09	682.30	2	298.15	27.48
25342	C12H27N	ethyldecylamine	66553-52-4	55.613	677.70	1.2222	260.09	677.70	2	298.15	27.38
25343	C12H27N	dihexylamine	143-16-8	55.712	678.20	1.2222	260.09	678.20	1,2	298.15	27.45
25344	C12H27N	dimethyldecylamine	1120-24-7	51.709	685.30	1.2222	229.15	685.30	2	298.15	25.73
25345	C12H27N	diethyloctylamine	4088-37-3	53.243	645.88	1.2222	227.83	645.88	2	298.15	24.98
25346	C12H27N	tributylamine	102-82-9	51.502	644.00	1.2014	203.00	644.00	1,2	298.15	24.40
25347	C12H27N	triisobutylamine	1116-40-1	45.613	672.77	1.2222	251.35	672.77	1,2	298.15	22.30
25348	C12H27NO	N,N-diisopentylethanolamine	3574-43-4	68.982	820.00	1.2222	350.00	820.00	2	350.00	34.94
25575	C13H10	fluorene	86-73-7	88.829	870.00	1.2222	387.00	870.00	2	387.00	43.27
25623	C13H10O	benzophenone	119-61-9	74.300	816.00	1.2040	321.03	816.00	1,2	321.03	40.70
25738	C13H12	diphenylmethane	101-81-5	66.580	768.00	1.2222	298.30	768.00	2	298.30	36.50
25739	C13H12	1-methylbiphenyl	28652-72-4	72.593	775.80	1.2222	273.15	775.80	2	298.15	40.13
25740	C13H12	3-methylbiphenyl	643-93-6	71.842	801.00	1.2222	277.85	801.00	2	298.15	40.67
25741	C13H12	4-methylbiphenyl	644-08-6	72.202	793.40	1.2222	321.15	793.40	2	321.15	38.30
25742	C13H12	2-methylbiphenyl	643-58-3	71.617	790.07	1.2222	272.95	790.07	2	298.15	40.13
25745	C13H12	methylbiphenyl	28652-72-4	72.074	790.07	1.2222	297.20	790.07	2	298.15	40.39
25903	C13H14	1-propylnaphthalene	2765-18-6	67.754	771.45	1.2222	264.69	771.45	2	298.15	37.29
25904	C13H14	2-propylnaphthalene	2027-19-2	67.644	772.44	1.2222	270.16	772.44	2	298.15	37.27
25905	C13H14	1-isopropylnaphthalene	6158-45-8	68.191	769.66	1.2222	257.61	769.66	2	298.15	37.46
25906	C13H14	2-isopropylnaphthalene	2027-17-0	68.125	770.24	1.2222	288.31	770.24	2	298.15	37.45
25907	C13H14	1-methyl-2-ethylnaphthalene	25607-16-3	67.317	775.02	1.2222	338.14	775.02	2	338.14	33.41
25908	C13H14	1-methyl-3-ethylnaphthalene	17179-41-8	67.788	770.78	1.2222	338.14	770.78	2	338.14	33.47
25909	C13H14	1-methyl-4-ethylnaphthalene	27424-87-9	67.630	772.19	1.2222	338.14	772.19	2	338.14	33.45
25910	C13H14	1-methyl-5-ethylnaphthalene	17057-92-0	68.266	766.55	1.2222	313.15	766.55	2	313.15	35.93
25911	C13H14	1-methyl-6-ethylnaphthalene	17059-53-9	67.788	770.78	1.2222	338.14	770.78	2	338.14	33.47
25912	C13H14	1-methyl-7-ethylnaphthalene	2451-00-5	68.105	767.96	1.2222	370.15	767.96	2	370.15	30.48
25913	C13H14	1-methyl-8-ethylnaphthalene	61886-71-3	67.473	773.61	1.2222	338.14	773.61	2	338.14	33.43
25914	C13H14	2-methyl-1-ethylnaphthalene	---	67.788	770.78	1.2222	338.14	770.78	2	338.14	33.47
25915	C13H14	2-methyl-3-ethylnaphthalene	31032-94-7	67.160	776.44	1.2222	344.16	776.44	2	344.16	32.83
25916	C13H14	2-methyl-4-ethylnaphthalene	17057-94-2	67.630	772.19	1.2222	338.14	772.19	2	338.14	33.45
25917	C13H14	2-methyl-5-ethylnaphthalene	---	68.266	766.55	1.2222	338.14	766.55	2	338.14	33.53
25918	C13H14	2-methyl-6-ethylnaphthalene	7372-86-3	68.264	766.56	1.2222	318.16	766.56	2	318.16	35.45
25919	C13H14	2-methyl-7-ethylnaphthalene	17059-55-1	68.264	766.56	1.2222	318.16	766.56	2	318.16	35.45
25920	C13H14	2-methyl-8-ethylnaphthalene	---	68.266	766.55	1.2222	338.14	766.55	2	338.14	33.53

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
25921	C13H14	1,2,3-trimethylnaphthalene	879-12-9	66.306	783.95	1.2222	301.15	783.95	2	301.15	36.67
25922	C13H14	1,2,4-trimethylnaphthalene	2717-42-2	66.457	782.54	1.2222	325.15	782.54	2	325.15	34.47
25923	C13H14	1,2,5-trimethylnaphthalene	641-91-8	66.761	779.72	1.2222	306.65	779.72	2	306.65	36.25
25924	C13H14	1,2,6-trimethylnaphthalene	3031-05-8	66.761	779.72	1.2222	287.15	779.72	2	298.15	37.05
25925	C13H14	1,2,7-trimethylnaphthalene	486-34-0	67.068	776.90	1.2222	416.15	776.90	2	416.15	26.26
25926	C13H14	1,2,8-trimethylnaphthalene	3876-97-9	66.007	786.77	1.2222	417.15	786.77	2	417.15	26.22
25927	C13H14	1,3,5-trimethylnaphthalene	2131-39-7	66.081	786.07	1.2222	319.15	786.07	2	319.15	34.96
25928	C13H14	1,3,6-trimethylnaphthalene	3031-08-1	66.761	779.72	1.2222	338.14	779.72	2	338.14	33.32
25929	C13H14	1,3,7-trimethylnaphthalene	2131-38-6	66.761	779.72	1.2222	286.15	779.72	2	298.15	37.05
25930	C13H14	1,3,8-trimethylnaphthalene	17057-91-9	66.007	786.77	1.2222	321.15	786.77	2	321.15	34.77
25931	C13H14	1,4,5-trimethylnaphthalene	2131-41-1	66.007	786.77	1.2222	335.15	786.77	2	335.15	33.49
25932	C13H14	1,4,6-trimethylnaphthalene	2131-42-2	67.068	776.90	1.2222	338.14	776.90	2	338.14	33.36
25933	C13H14	1,6,7-trimethylnaphthalene	2245-38-7	66.761	779.72	1.2222	298.15	779.72	2	298.15	37.05
25934	C13H14	2,3,6-trimethylnaphthalene	829-26-5	67.223	775.49	1.2222	375.15	775.49	2	375.15	29.96
26008	C13H15N	2-butylquinoline	7661-39-4	77.560	788.31	1.2222	341.90	591.23	2	341.90	38.71
26013	C13H15N	a-isobutylquinoline	93-19-6	80.209	740.98	1.2222	341.90	555.73	2	341.90	37.65
26158	C13H18	1-propyl-[1,2,3,4-tetrahydronaphthalene]	66324-83-2	60.729	745.97	1.2222	254.84	745.97	2	298.15	32.55
26159	C13H18	2-propyl-[1,2,3,4-tetrahydronaphthalene]	66324-84-3	60.183	752.45	1.2222	265.65	752.45	2	298.15	32.48
26160	C13H18	1,2,3,4-tetrahydro-1,1,6-trimethylnaphthalene	475-03-6	60.960	749.21	1.2222	260.25	749.21	2	298.15	32.79
26161	C13H18	2,3-dihydro-1,1,4,7-tetramethyl-1H-indene	1078-04-2	60.622	749.21	1.2222	260.25	749.21	2	298.15	32.61
26162	C13H18	2,3-dihydro-1,1,4,6-tetramethyl-1H-indene	941-60-6	60.622	749.21	1.2222	260.25	749.21	2	298.15	32.61
26163	C13H18	1,2,3,4-tetrahydro-2,5,8-trimethylnaphthalene	30316-17-7	60.622	749.21	1.2222	260.25	749.21	2	298.15	32.61
26215	C13H18O2	4-hexylbenzoic acid	21643-38-9	82.239	657.71	1.2222	369.65	493.28	2	369.65	29.98
26283	C13H20	heptylbenzene	1078-71-3	60.630	714.00	1.3117	225.15	714.00	1,2	298.15	29.84
26284	C13H20	1-methyl-2,4-diisopropylbenzene	1460-98-6	57.033	714.00	1.2222	228.72	714.00	2	298.15	29.46
26285	C13H20	1-methyl-3,5-diisopropylbenzene	3055-14-9	56.843	714.00	1.2222	212.35	714.00	2	298.15	29.36
26286	C13H20	[2-methyl-1-isopropylpropyl]benzene	21777-84-4	56.950	714.00	1.2222	248.65	714.00	2	298.15	29.41
26287	C13H20	1,12-tridecadiyne	38628-39-6	59.537	707.75	1.2222	271.65	530.81	2	298.15	30.51
26288	C13H20	(2,4-dimethylpentyl)benzene	54518-00-2	56.907	714.00	1.2222	228.72	714.00	2	298.15	29.39
26315	C13H20O	4-heptylphenol	1987-50-4	67.231	760.33	1.2222	297.15	760.33	2	298.15	36.59
26318	C13H20O	2-sec-butyl-6-isopropylphenol	74926-97-9	63.711	762.67	1.2222	297.15	762.67	2	298.15	34.76
26319	C13H20O	o-heptylphenol	5284-22-0	66.928	763.83	1.2222	297.15	763.83	2	298.15	36.55
26344	C13H21N	4-heptylaniline	37529-27-4	59.809	720.00	1.2222	245.15	720.00	2	298.15	31.12
26402	C13H24	1-tridecyne	26186-02-7	55.476	684.11	1.2222	268.16	684.11	1,2	298.15	27.56
26403	C13H24	2-tridecyne	28467-75-6	56.391	701.82	1.2222	341.87	701.82	2	341.87	24.93
26404	C13H24	3-tridecyne	60186-78-9	56.734	692.34	1.2222	341.87	692.34	2	341.87	24.69
26405	C13H24	dicyclohexylmethane	3178-23-2	58.577	749.48	1.2222	254.51	749.48	2	298.15	31.51
26406	C13H24	1-octylcyclopentene	52315-44-3	41.380	694.89	1.2222	211.86	694.89	2	298.15	20.86
26420	C13H24O2	ethyl 10-undecenoate	692-86-4	63.792	716.00	1.2222	235.15	716.00	2	298.15	33.03
26421	C13H24O2	methyl 11-dodecenoate	29972-79-0	63.792	716.00	1.2222	204.15	716.00	2	298.15	33.03
26422	C13H24O2	isodecyl acrylate	1330-61-6	63.792	716.00	1.2222	173.15	716.00	2	298.15	33.03
26423	C13H24O2	2-tridecenoic acid	6969-16-0	53.163	836.00	1.2222	309.15	836.00	2	309.15	30.24
26424	C13H24O2	12-tridecenoic acid	6006-06-0	53.163	836.00	1.2222	311.65	836.00	2	311.65	30.06
26426	C13H24O2	citronellyl propionate	76444-23-0	63.792	716.00	1.2222	204.15	716.00	2	298.15	33.03
26427	C13H24O2	decyl acrylate	2156-96-9	63.792	716.00	1.2222	204.15	716.00	2	298.15	33.03
26428	C13H24O2	undecenyl acetate	112-19-6	63.792	716.00	1.2222	204.15	716.00	2	298.15	33.03
26439	C13H25Br	cis-1-bromo-1-tridecene	66324-50-3	57.689	726.09	1.2222	290.49	726.09	2	298.15	30.23
26440	C13H25Br	trans-1-bromo-1-tridecene	66324-51-4	57.689	726.09	1.2222	290.49	726.09	2	298.15	30.23
26442	C13H25Br3	1,1,1-tribromotridecane	62127-70-2	84.418	813.37	1.2222	417.59	813.37	2	417.59	35.00
26443	C13H25Cl	cis-1-chloro-1-tridecene	66324-52-5	60.638	731.35	1.2222	260.61	731.35	2	298.15	31.97
26444	C13H25Cl	trans-1-chloro-1-tridecene	66324-53-6	60.638	731.35	1.2222	260.61	731.35	2	298.15	31.97
26445	C13H25Cl3	1,1,1-trichlorotridecane	3922-24-5	70.107	763.82	1.2222	327.95	763.82	2	327.95	35.32
26446	C13H25F	cis-1-fluoro-1-tridecene	66324-54-7	47.815	659.99	1.2222	262.84	659.99	2	298.15	22.94
26447	C13H25F	trans-1-fluoro-1-tridecene	66324-55-8	47.815	659.99	1.2222	262.84	659.99	2	298.15	22.94
26448	C13H25F3	1,1,1-trifluorotridecane	62126-98-1	51.415	654.90	1.2222	334.64	654.90	2	334.64	21.45
26449	C13H25I	cis-1-iodo-1-tridecene	66324-56-9	57.075	759.56	1.2222	288.75	759.56	2	298.15	31.04
26450	C13H25I	trans-1-iodo-1-tridecene	66324-57-0	57.075	759.56	1.2222	288.75	759.56	2	298.15	31.04
26451	C13H25I3	1,1,1-triiodotridecane	---	62.469	1014.03	1.2222	412.37	1014.03	2	412.37	33.01
26452	C13H25N	tridecanenitrile	629-60-7	56.062	733.04	1.2222	283.05	733.04	2	298.15	29.62
26465	C13H26	octylcyclopentane	1795-20-6	59.198	702.06	1.2222	229.16	702.06	2	298.15	30.12
26466	C13H26	heptylcyclohexane	5617-41-4	57.452	708.63	1.2222	242.66	708.63	2	298.15	29.48
26467	C13H26	2-butyl-1,1,3-trimethylcyclohexane	54676-39-0	56.933	708.63	1.2222	242.66	708.63	2	298.15	29.21
26468	C13H26	cyclotridecane	295-02-3	52.095	764.06	1.2222	298.05	764.06	2	298.15	28.46
26469	C13H26	1-tridecene	2437-56-1	55.800	675.00	1.3240	250.08	675.00	1,2	298.15	25.79
26470	C13H26	2-methyl-1-dodecene	16435-49-7	53.373	673.88	1.2222	241.94	673.88	2	298.15	26.14
26471	C13H26	5-butyl-4-nonene	7367-38-6	52.204	674.44	1.2222	246.01	674.44	2	298.15	25.58
26472	C13H26Br2	1,1-dibromotridecane	62168-30-3	71.866	777.32	1.2222	340.37	777.32	2	340.37	35.54
26473	C13H26Br2	1,13-dibromotridecane	31772-05-1	71.866	777.32	1.2222	282.15	777.32	2	298.15	39.79
26474	C13H26Cl2	1,1-dichlorotridecane	821-93-2	74.231	745.93	1.2222	280.61	745.93	2	298.15	39.78
26475	C13H26F2	1,1-difluorotridecane	62127-02-0	57.001	672.30	1.2222	285.07	672.30	2	298.15	27.85
26476	C13H26I2	1,1-diiodotridecane	66324-43-4	69.581	893.94	1.2222	336.89	893.94	2	336.89	39.03
26486	C13H26O	1-tridecanal	10486-19-8	62.378	700.00	1.2222	288.15	700.00	2	298.15	31.65
26487	C13H26O	2-tridecanone	593-08-8	54.937	707.26	1.2222	300.65	707.26	2	300.65	27.93
26488	C13H26O	3-tridecanone	1534-26-5	55.076	707.26	1.2222	304.15	707.26	2	304.15	27.70
26489	C13H26O	7-tridecanone	462-18-0	54.857	707.26	1.2222	306.15	707.26	2	306.15	27.43
26492	C13H26O2	tridecanoic acid	638-53-9	55.767	746.59	1.2222	314.95	746.59	2	314.95	28.55
26493	C13H26O2	2-methyldodecanoic acid	2874-74-0	53.494	746.59	1.2222	295.15	746.59	2	298.15	28.69
26494	C13H26O2	dodecyl formate	28303-42-6	63.602	713.20	1.2222	294.47	713.20	2	298.15	32.82
26495	C13H26O2	undecyl acetate	1731-81-3	59.000	707.60	1.2222	266.35	707.60	2	298.15	30.23
26496	C13H26O2	decyl propanoate	5454-19-3	61.205	707.60	1.2222	278.10	707.60	2	298.15	31.36

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
26497	C13H26O2	nonyl butanoate	2639-64-7	57.363	706.70	1.2222	278.10	706.70	2	298.15	29.36
26498	C13H26O2	octyl pentanoate	5451-85-4	58.569	682.00	1.2222	230.85	682.00	2	298.15	29.01
26499	C13H26O2	heptyl hexanoate	6976-72-3	58.531	682.00	1.2222	238.75	682.00	2	298.15	28.99
26500	C13H26O2	hexyl heptanoate	1119-06-8	58.531	682.00	1.2222	225.15	682.00	2	298.15	28.99
26501	C13H26O2	pentyl octanoate	638-25-5	58.481	682.00	1.2222	238.35	682.00	2	298.15	28.97
26502	C13H26O2	butyl nonanoate	50623-57-9	58.997	652.00	1.2222	235.15	652.00	2	298.15	27.95
26503	C13H26O2	propyl decanoate	30673-60-0	57.112	682.00	1.2222	243.51	682.00	1,2	298.15	28.29
26504	C13H26O2	isopropyl decanoate	2311-59-3	59.024	682.00	1.2222	243.51	682.00	2	298.15	29.24
26505	C13H26O2	methyl dodecanoate	111-82-0	57.412	712.00	1.2222	278.15	712.00	1,2	298.15	29.58
26506	C13H26O2	ethyl undecanoate	627-90-7	59.024	682.00	1.2222	258.15	682.00	2	298.15	29.24
26507	C13H26O2	isoamyl caprylate	2035-99-6	59.024	682.00	1.2222	243.51	682.00	2	298.15	29.24
26514	C13H26S	thiacyclotetradecane	295-20-5	54.789	818.79	1.2222	302.68	818.79	2	302.68	31.17
26515	C13H27Br	1-bromotridecane	765-09-3	57.576	739.06	1.2222	279.35	739.06	2	298.15	30.62
26516	C13H27Cl	1-chlorotridecane	822-13-9	57.951	724.59	1.2222	273.85	724.59	2	298.15	30.32
26517	C13H27F	1-fluorotridecane	1536-21-6	67.408	674.20	1.2222	276.15	674.20	2	298.15	33.02
26518	C13H27I	1-iodotridecane	35599-77-0	58.285	744.41	1.2222	285.45	744.41	2	298.15	31.18
26522	C13H27NO2	1-nitrotridecane	26817-31-2	58.405	751.18	1.2222	379.38	751.18	2	379.38	24.73
26526	C13H28	tridecane	629-50-5	55.610	675.80	1.3363	267.76	675.80	1,2	298.15	25.55
26527	C13H28	2-methyldodecane	1560-97-0	52.626	668.02	1.2222	247.15	668.02	2	298.15	25.55
26528	C13H28	3-methyldodecane	17312-57-1	52.598	669.09	1.2222	220.15	669.09	2	298.15	25.58
26529	C13H28	2,2-dimethylundecane	17312-64-0	52.393	663.40	1.2222	238.19	663.40	2	298.15	25.26
26530	C13H28	2,3-dimethylundecane	17312-77-5	52.419	669.37	1.2222	205.77	669.37	2	298.15	25.50
26531	C13H28	2,4-dimethylundecane	17312-80-0	52.839	653.35	1.2222	205.77	653.35	2	298.15	25.09
26532	C13H28	5-butylnonane	17312-63-9	51.897	666.51	1.2222	230.80	666.51	2	298.15	25.14
26535	C13H28O	1-tridecanol	112-70-9	47.331	731.00	0.8000	303.75	731.00	2	303.75	30.80
26536	C13H28O	2-tridecanol	1653-31-2	47.499	718.60	0.8000	295.15	718.60	2	298.15	30.94
26537	C13H28O	3-tridecanol	10289-68-6	46.775	724.80	0.8000	305.15	724.80	2	305.15	30.21
26538	C13H28O	5-butyl-5-nonanol	597-93-3	46.775	724.80	0.8000	293.15	724.80	2	298.15	30.61
26539	C13H28O2	1,2-tridecanediol	---	100.367	736.93	1.2222	342.41	736.93	2	342.41	46.77
26540	C13H28O2	1,3-tridecanediol	---	99.718	750.55	1.2222	342.41	750.55	2	342.41	47.36
26541	C13H28O2	1,4-tridecanediol	61828-34-0	98.600	776.55	1.2222	319.15	776.55	2	319.15	51.63
26542	C13H28O2	1,13-tridecanediol	13362-52-2	99.404	759.19	1.2222	349.75	759.19	2	349.75	46.74
26543	C13H28O2	1,12-tridecanediol	99706-68-0	99.498	755.80	1.2222	333.65	755.80	2	333.65	48.83
26549	C13H28S	1-tridecanethiol	19484-26-5	57.576	742.13	1.2222	282.04	742.13	2	298.15	30.73
26550	C13H28S	2-tridecanethiol	62155-03-7	57.773	734.00	1.2222	263.15	734.00	2	298.15	30.55
26551	C13H28S	methyl dodecyl sulfide	---	52.876	748.42	1.2222	271.16	748.42	2	298.15	28.42
26552	C13H28S	ethyl undecyl sulfide	66577-30-8	52.876	748.42	1.2222	271.16	748.42	2	298.15	28.42
26553	C13H28S	propyl decyl sulfide	66577-31-9	52.876	748.42	1.2222	271.16	748.42	2	298.15	28.42
26554	C13H28S	butyl nonyl sulfide	66577-32-0	52.876	748.42	1.2222	271.16	748.42	2	298.15	28.42
26555	C13H29N	tridecylamine	2869-34-3	51.842	721.70	1.2222	299.15	721.70	2	299.15	26.95
26556	C13H29N	methyldodecylamine	7311-30-0	55.425	696.80	1.2222	291.15	696.80	2	298.15	28.01
26557	C13H29N	ethylundecylamine	59570-04-6	55.577	693.10	1.2222	291.15	693.10	2	298.15	27.95
26558	C13H29N	dimethylundecylamine	17373-28-3	51.762	700.50	1.2222	299.15	700.50	2	299.15	26.20
26559	C13H29N	diethylnonylamine	45124-35-4	53.229	661.69	1.2222	299.15	661.69	2	299.15	25.51
26560	C13H29N	6-methyl-N-isopentyl-2-heptanamine	502-59-0	54.737	694.76	1.2222	291.15	694.76	2	298.15	27.59
26561	C13H29N	tert-amyl-tert-octylamine	150285-07-7	51.339	694.76	1.2222	291.15	694.76	2	298.15	25.87
26562	C13H29N	N-methyldihexylamine	37615-53-5	51.817	694.76	1.2222	299.15	694.76	2	299.15	26.03
26654	C14H8O2	anthraquinone	84-65-1	89.326	900.00	1.2222	559.15	900.00	2	559.15	27.26
26728	C14H10	anthracene	120-12-7	71.971	873.00	1.2222	489.25	873.00	2	489.25	26.36
26729	C14H10	diphenylacetylene	501-65-5	64.639	832.00	1.2222	335.65	832.00	2	335.65	34.38
26730	C14H10	phenanthrene	85-01-8	72.304	869.25	1.2222	372.38	869.25	2	372.38	36.50
26866	C14H12	cis-stilbene	645-49-8	65.519	757.00	1.2222	268.15	757.00	2	298.15	35.53
26867	C14H12	trans-stilbene	103-30-0	67.348	820.00	1.2222	397.35	820.00	2	397.35	29.96
26868	C14H12	1,1-diphenylethene	530-48-3	66.218	791.64	1.2222	281.41	791.64	2	298.15	37.16
26873	C14H12	stilbene	588-59-0	78.519	788.50	1.2222	397.55	788.50	2	397.55	33.31
26942	C14H12O2	benzyl benzoate	120-51-4	78.905	820.00	1.2222	292.55	820.00	1,2	298.15	45.42
26987.1	C14H12O4	dimethyl-2,6-naphthalenedicarboxylate	840-65-3	82.126	883.00	1.2478	464.50	883.00	2	464.50	32.35
27052	C14H14	1,1-diphenylethane	612-00-0	65.862	775.00	1.2222	255.20	775.00	2	298.15	36.38
27053	C14H14	1,2-diphenylethane	103-29-7	65.100	780.00	1.2100	324.34	780.00	1,2	324.34	33.97
27054	C14H14	2-methyldiphenylmethane	713-36-0	65.043	784.15	1.2222	279.79	784.15	2	298.15	36.25
27055	C14H14	3-methyldiphenylmethane	620-47-3	65.192	782.37	1.2222	245.35	782.37	2	298.15	36.27
27056	C14H14	4-methyldiphenylmethane	620-83-7	64.872	786.22	1.2222	277.76	786.22	2	298.15	36.22
27057	C14H14	2,2'-dimethylbiphenyl	605-39-0	73.800	761.60	1.2222	291.15	761.60	2	298.15	40.22
27058	C14H14	2,3'-trimethylbiphenyl	611-43-8	73.217	781.70	1.2222	322.15	781.70	2	322.15	38.25
27059	C14H14	2,4'-dimethlbiphenyl	611-61-0	72.765	788.20	1.2222	322.15	788.20	2	322.15	38.28
27060	C14H14	3,3'-dimethylbiphenyl	612-75-9	72.824	796.10	1.2222	280.15	796.10	2	298.15	41.04
27061	C14H14	3,4'-dimethylbiphenyl	7383-90-6	71.886	808.30	1.2222	288.15	808.30	2	298.15	40.96
27062	C14H14	4,4'-dimethylbiphenyl	613-33-2	71.758	817.70	1.2222	394.15	817.70	2	394.15	32.11
27063	C14H14	2-ethylbiphenyl	1812-51-7	73.091	777.40	1.2222	267.05	777.40	2	298.15	40.47
27064	C14H14	3-ethylbiphenyl	5668-93-9	72.497	801.00	1.2222	245.65	801.00	2	298.15	41.04
27065	C14H14	4-ethylbiphenyl	5707-44-8	72.032	806.00	1.2222	320.15	806.00	2	320.15	38.80
27066	C14H14	2,3-dimethylbiphenyl	3864-18-4	72.046	802.00	1.2222	315.15	802.00	2	315.15	39.14
27067	C14H14	3,4-dimethylbiphenyl	4433-11-8	72.295	801.20	1.2222	302.65	801.20	2	302.65	40.48
27068	C14H14	2,6-dimethylbiphenyl	3976-34-9	73.602	768.10	1.2222	270.65	768.10	2	298.15	40.37
27069	C14H14	1,3-dimethyl-4-phenyl benzene	---	69.248	783.20	1.2222	322.15	783.20	2	322.15	36.24
27070	C14H14	1,3-dimethyl-5-phenyl benzene	---	71.214	785.00	1.2222	322.15	785.00	2	322.15	37.34
27071	C14H14	1,4-dimethyl-2-phenyl benzene	---	65.056	796.00	1.2222	322.15	796.00	2	322.15	34.51
27072	C14H14	2,5-dimethylbiphenyl	7372-85-2	72.595	792.44	1.2222	301.14	792.44	2	301.14	40.47
27073	C14H14	2,4-dimethylbiphenyl	4433-10-7	72.372	792.44	1.2222	301.14	792.44	2	301.14	40.35
27074	C14H14	3,5-dimethylbiphenyl	17057-88-4	72.502	792.44	1.2222	295.65	792.44	2	298.15	40.72

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
27138	C14H14O	dibenzyl ether	103-50-4	67.609	777.00	1.2222	276.75	777.00	2	298.15	37.42
27267	C14H16	1-butylnaphthalene	1634-09-9	64.118	792.00	1.2675	253.43	792.00	1,2	298.15	35.24
27268	C14H16	2-butylnaphthalene	1134-62-9	66.130	780.96	1.2222	268.16	780.96	2	298.15	36.74
27269	C14H16	1-sec-butylnaphthalene	1680-58-6	63.160	818.49	1.2222	333.04	818.49	2	333.04	33.35
27270	C14H16	2-sec-butylnaphthalene	4614-03-3	62.557	818.49	1.2222	333.04	818.49	2	333.04	33.04
27271	C14H16	1-isobutylnaphthalene	16727-91-6	67.256	772.68	1.2222	263.75	772.68	2	298.15	37.06
27272	C14H16	2-isobutylnaphthalene	26490-07-3	62.557	818.49	1.2222	333.04	818.49	2	333.04	33.04
27273	C14H16	1-tert-butylnaphthalene	17085-91-5	66.762	781.33	1.2222	262.15	781.33	2	298.15	37.10
27274	C14H16	2-tert-butylnaphthalene	2876-35-9	66.488	783.88	1.2222	268.15	783.88	2	298.15	37.04
27275	C14H16	1-methyl-2-propylnaphthalene	39036-65-2	62.890	812.35	1.2222	333.04	812.35	2	333.04	33.00
27276	C14H16	2-methyl-1-propylnaphthalene	54774-89-9	62.890	812.35	1.2222	333.04	812.35	2	333.04	33.00
27277	C14H16	3-methyl-2-propylnaphthalene	66577-19-3	62.890	812.35	1.2222	333.04	812.35	2	333.04	33.00
27278	C14H16	2-methyl-1-isopropylnaphthalene	32114-79-7	62.608	817.54	1.2222	333.04	817.54	2	333.04	33.03
27279	C14H16	3-methyl-2-isopropylnaphthalene	66577-18-2	62.608	817.54	1.2222	333.04	817.54	2	333.04	33.03
27280	C14H16	1-methyl-3-isopropylnaphthalene	66577-16-0	62.608	817.54	1.2222	333.04	817.54	2	333.04	33.03
27281	C14H16	1-methyl-4-isopropylnaphthalene	1680-53-1	62.608	817.54	1.2222	333.04	817.54	2	333.04	33.03
27282	C14H16	1-methyl-6-isopropylnaphthalene	10136-83-1	62.608	817.54	1.2222	333.04	817.54	2	333.04	33.03
27283	C14H16	1-methyl-7-isopropylnaphthalene	490-65-3	67.083	773.88	1.2222	333.04	773.88	2	333.04	33.72
27284	C14H16	2-methyl-8-isopropylnaphthalene	---	66.928	775.28	1.2222	333.04	775.28	2	333.04	33.70
27285	C14H16	1,2-diethylnaphthalene	19182-11-7	62.890	812.35	1.2222	333.04	812.35	2	333.04	33.00
27286	C14H16	1,4-diethylnaphthalene	37796-58-0	62.890	812.35	1.2222	293.15	812.35	2	298.15	35.96
27287	C14H16	1,6-diethylnaphthalene	19182-13-9	62.890	812.35	1.2222	333.04	812.35	2	333.04	33.00
27288	C14H16	1,7-diethylnaphthalene	66577-37-5	62.890	812.35	1.2222	333.04	812.35	2	333.04	33.00
27289	C14H16	2,3-diethylnaphthalene	66610-91-1	62.890	812.35	1.2222	333.04	812.35	2	333.04	33.00
27289.1	C14H16	2,6-diethylnaphthalene	59919-41-4	80.827	807.00	1.2828	322.15	807.00	2	322.15	42.05
27290	C14H16	2,4-dimethyl-1-ethylnaphthalene	66577-14-8	62.940	811.44	1.2222	333.04	811.44	2	333.04	33.00
27291	C14H16	4,6-dimethyl-1-ethylnaphthalene	66577-15-9	62.940	811.44	1.2222	333.04	811.44	2	333.04	33.00
27292	C14H16	2,5-dimethyl-3-ethylnaphthalene	---	62.940	811.44	1.2222	333.04	811.44	2	333.04	33.00
27293	C14H16	1,2-dimethyl-4-ethylnaphthalene	66577-38-6	62.940	811.44	1.2222	333.04	811.44	2	333.04	33.00
27294	C14H16	1,3-dimethyl-5-ethylnaphthalene	66577-40-0	62.940	811.44	1.2222	303.15	811.44	2	303.15	35.53
27295	C14H16	1,4-dimethyl-5-ethylnaphthalene	66309-90-8	62.940	811.44	1.2222	265.15	811.44	2	298.15	35.96
27296	C14H16	1,3-dimethyl-6-ethylnaphthalene	39622-45-2	62.940	811.44	1.2222	333.04	811.44	2	333.04	33.00
27297	C14H16	1,4-dimethyl-6-ethylnaphthalene	66610-92-2	62.940	811.44	1.2222	333.04	811.44	2	333.04	33.00
27298	C14H16	1,2-dimethyl-7-ethylnaphthalene	66577-39-7	62.940	811.44	1.2222	333.04	811.44	2	333.04	33.00
27299	C14H16	1,2,3,4-tetramethylnaphthalene	3031-15-0	62.990	810.54	1.2222	379.15	810.54	2	379.15	29.14
27300	C14H16	1,2,3,6-tetramethylnaphthalene	66577-20-6	62.990	810.54	1.2222	332.15	810.54	2	332.15	33.07
27301	C14H16	1,2,4,6-tetramethylnaphthalene	66577-21-7	62.990	810.54	1.2222	317.15	810.54	2	317.15	34.34
27302	C14H16	1,2,4,7-tetramethylnaphthalene	16020-17-0	62.990	810.54	1.2222	270.15	810.54	2	298.15	35.96
27303	C14H16	1,2,4,8-tetramethylnaphthalene	66577-22-8	62.990	810.54	1.2222	329.15	810.54	2	329.15	33.32
27304	C14H16	1,2,5,6-tetramethylnaphthalene	2131-43-3	62.990	810.54	1.2222	387.15	810.54	2	387.15	28.48
27305	C14H16	1,2,5,8-tetramethylnaphthalene	3031-16-1	62.990	810.54	1.2222	333.04	810.54	2	333.04	32.99
27306	C14H16	1,2,6,8-tetramethylnaphthalene	66577-00-2	62.990	810.54	1.2222	333.04	810.54	2	333.04	32.99
27307	C14H16	1,3,5,8-tetramethylnaphthalene	14558-12-4	62.990	810.54	1.2222	329.15	810.54	2	329.15	33.32
27308	C14H16	1,3,6,7-tetramethylnaphthalene	7435-50-9	62.990	810.54	1.2222	318.15	810.54	2	318.15	34.25
27309	C14H16	1,4,5,8-tetramethylnaphthalene	2717-39-7	62.990	810.54	1.2222	404.15	810.54	2	404.15	27.09
27310	C14H16	1,4,6,7-tetramethylnaphthalene	13764-18-6	62.990	810.54	1.2222	336.15	810.54	2	336.15	32.73
27311	C14H16	2,3,6,7-tetramethylnaphthalene	1134-40-3	62.990	810.54	1.2222	464.15	810.54	2	464.15	22.29
27313	C14H16	7-methyl-1-isopropylnaphthalene	66577-17-1	64.938	807.60	1.2222	327.40	807.60	2	327.40	34.40
27314	C14H16	1,3,6,8-tetramethylnaphthalene	14558-14-6	63.691	807.60	1.2222	357.65	807.60	2	357.65	31.16
27506.1	C14H18O8	di-1-glyceryl terephthalate	66032-51-76	32.486	882.00	1.2222	397.40	882.00	2	397.40	15.63
27560	C14H20	1-butyl-[1,2,3,4-tetrahydronaphthalene]	38857-76-0	59.587	756.75	1.2222	266.11	756.75	2	298.15	32.31
27561	C14H20	2-butyl-[1,2,3,4-tetrahydronaphthalene]	36230-28-1	58.988	764.18	1.2222	243.05	764.18	2	298.15	32.23
27562	C14H20	1,2,3,4-tetrahydro-1,1,2,6-tetramethylnaphthalene	1681-22-7	59.356	760.47	1.2222	247.92	760.47	2	298.15	32.31
27565	C14H20	5-butyl-1,2,3,4-tetrahydronaphthalene	66325-42-6	59.178	760.47	1.2222	224.05	760.47	2	298.15	32.21
27566	C14H20	1,2,3,4-tetrahydro-5-isobutylnaphthalene	5458-54-8	59.429	760.47	1.2222	258.45	760.47	2	298.15	32.35
27566.1	C14H20	diamantane	2292-79-7	61.049	791.00	1.3262	517.92	791.00	2	517.92	14.90
27598	C14H20O2	4-heptylbenzoic acid	38350-87-7	105.387	538.39	1.2222	376.00	403.79	2	376.00	24.35
27618	C14H21Cl	3,5-di-tert-butyl chlorobenzene	80438-67-1	69.144	752.60	1.2222	283.15	564.45	2	298.15	37.32
27644	C14H22	octylbenzene	2189-60-8	60.535	729.00	1.3279	234.20	729.00	1,2	298.15	30.11
27645	C14H22	1,2,3,4-tetraethylbenzene	642-32-0	58.141	708.20	1.2222	284.96	708.20	2	298.15	29.81
27646	C14H22	1,2,3,5-tetraethylbenzene	38842-05-6	58.178	707.52	1.2222	284.16	707.52	2	298.15	29.81
27647	C14H22	1,2,4,5-tetraethylbenzene	635-81-4	58.214	706.85	1.2222	283.16	706.85	2	298.15	29.80
27648	C14H22	1,4-di-tert-butylbenzene	1012-72-2	57.468	712.89	1.2222	352.65	712.89	2	352.65	24.95
27649	C14H22	(1-methylheptyl)benzene	777-22-0	57.797	712.89	1.2222	234.25	712.89	2	298.15	29.81
27650	C14H22	1,3-di-tert-butylbenzene	1014-60-4	57.797	712.89	1.2222	283.65	712.89	2	298.15	29.81
27652	C14H22	6,8-tetradecadiyne	16387-72-7	58.428	743.99	1.2222	274.15	557.99	2	298.15	31.25
27679	C14H22O	p-tert-octylphenol	140-66-9	59.116	765.00	1.2222	358.55	765.00	2	358.55	27.29
27680	C14H22O	2,4-di-tert-butylphenol	96-76-4	60.602	765.00	1.2222	329.65	765.00	2	329.65	30.43
27681	C14H22O	2,6-di-sec-butylphenol	5510-99-6	60.938	765.00	1.2222	231.15	765.00	2	298.15	33.32
27682	C14H22O	2,6-di-tert-butylphenol	128-39-2	61.098	765.00	1.2222	312.15	765.00	2	312.15	32.19
27687	C14H22O	4-octylphenol	1806-26-4	67.280	765.00	1.2222	316.15	765.00	2	316.15	35.06
27688	C14H22O	tert-octylphenol	27193-28-8	59.606	765.00	1.2222	346.15	765.00	2	346.15	28.55
27689	C14H22O	3,5-bis(1,1-dimethylethyl)phenol	1138-52-9	61.098	765.00	1.2222	361.15	765.00	2	361.15	27.99
27691	C14H22O	2-isopropyl-6-(1-methylbutyl)phenol	74926-98-0	61.098	765.00	1.2222	322.14	765.00	2	322.14	31.32
27724	C14H23N	2,6-diisopropyl-N,N-dimethylaniline	2909-77-5	60.926	730.00	1.2222	262.15	730.00	2	298.15	32.07
27725	C14H23N	N-(2-ethylhexyl)aniline	10137-80-1	60.926	730.00	1.2222	262.15	730.00	2	298.15	32.07
27726	C14H23N	b-sec-butyl-N,N-dimethylphenethylamine	33132-61-5	79.546	772.27	1.2222	283.15	579.20	2	298.15	43.82
27772	C14H24S	3-decylthiophene	65016-55-9	51.565	785.00	1.2222	350.00	785.00	2	350.00	25.06
27777	C14H26	1,1-dicyclohexylethane	2319-61-1	57.194	762.12	1.2222	252.33	762.12	2	298.15	31.18
27778	C14H26	1,2-dicyclohexylethane	3321-50-4	57.150	762.12	1.2222	284.65	762.12	2	298.15	31.16

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
27779	C14H26	1-nonylcyclopentene	62184-74-1	40.580	707.91	1.2222	223.13	707.91	2	298.15	20.80
27780	C14H26	1-tetradecyne	765-10-6	57.630	689.90	1.2222	294.01	689.90	2	298.15	28.86
27781	C14H26	3-tetradecyne	60212-32-0	56.601	705.58	1.2222	353.14	705.58	2	353.14	24.23
27782	C14H26	7-tetradecyne	35216-11-6	57.517	697.74	1.2222	323.58	697.74	2	323.58	26.86
27784	C14H26	1,13-tetradecadiene	21964-49-8	51.125	736.00	1.2222	350.00	736.00	2	350.00	23.23
27797	C14H26O2	methyl 12-tridecenoate	29780-00-5	60.472	738.00	1.2222	250.75	738.00	2	298.15	32.13
27798	C14H26O2	4-tetradecenoic acid	544-65-0	53.098	856.00	1.2222	291.65	856.00	2	298.15	31.46
27799	C14H26O2	5-tetradecenoic acid	544-66-1	53.098	856.00	1.2222	293.15	856.00	2	298.15	31.46
27800	C14H26O2	9-tetradecenoic acid	13147-06-3	53.098	856.00	1.2222	269.15	856.00	2	298.15	31.46
27801	C14H26O2	decyl methacrylate	3179-47-3	60.472	738.00	1.2222	250.75	738.00	2	298.15	32.13
27803	C14H26O2	isodecyl methacrylate	29964-84-9	60.472	738.00	1.2222	250.75	738.00	2	298.15	32.13
27807	C14H26O2	citronellyl butyrate	141-16-2	60.472	738.00	1.2222	250.75	738.00	2	298.15	32.13
27808	C14H26O2	citronellyl isobutyrate	97-89-2	60.472	738.00	1.2222	250.75	738.00	2	298.15	32.13
27809	C14H26O2	2,6-dimethyl-2-octen-8-yl butyrate	141-16-2	60.472	738.00	1.2222	250.75	738.00	2	298.15	32.13
27810	C14H26O2	cis-7-dodecenyl acetate	14959-86-5	60.472	738.00	1.2222	250.75	738.00	2	298.15	32.13
27825	C14H27Br	cis-1-bromo-1-tetradecene	66827-02-9	57.707	738.68	1.2222	301.76	738.68	2	301.76	30.37
27826	C14H27Br	trans-1-bromo-1-tetradecene	66827-03-0	57.707	738.68	1.2222	301.76	738.68	2	301.76	30.37
27828	C14H27Br3	1,1,1-tribromotetradecane	62155-25-3	84.173	821.99	1.2222	428.86	821.99	2	428.86	34.17
27829	C14H27Cl	cis-1-chloro-1-tetradecene	66827-04-1	60.356	745.10	1.2222	271.88	745.10	2	298.15	32.32
27830	C14H27Cl	trans-1-chloro-1-tetradecene	66827-05-2	60.356	745.10	1.2222	271.88	745.10	2	298.15	32.32
27832	C14H27Cl3	1,1,1-trichlorotetradecane	62108-58-1	69.827	775.24	1.2222	339.22	775.24	2	339.22	34.56
27833	C14H27F	cis-1-fluoro-1-tetradecene	66827-06-3	47.519	682.24	1.2222	274.11	682.24	2	298.15	23.55
27834	C14H27F	trans-1-fluoro-1-tetradecene	66827-07-4	47.519	682.24	1.2222	274.11	682.24	2	298.15	23.55
27835	C14H27F3	1,1,1-trifluorotetradecane	62126-99-2	51.317	670.40	1.2222	345.91	670.40	2	345.91	21.14
27836	C14H27I	cis-1-iodo-1-tetradecene	66827-08-5	56.714	771.57	1.2222	300.02	771.57	2	300.02	31.07
27837	C14H27I	trans-1-iodo-1-tetradecene	66827-09-6	56.714	771.57	1.2222	300.02	771.57	2	300.02	31.07
27838	C14H27I3	1,1,1-triiodotetradecane	---	61.319	1032.58	1.2222	423.64	1032.58	2	423.64	32.16
27839	C14H27N	tetradecanenitrile	629-63-0	55.790	745.12	1.2222	292.45	745.12	2	298.15	29.87
27847	C14H28	nonylcyclopentane	2882-98-6	59.316	716.95	1.2222	244.16	716.95	2	298.15	30.75
27848	C14H28	octylcyclohexane	1795-15-9	57.596	723.61	1.2222	253.46	723.61	2	298.15	30.09
27849	C14H28	cyclotetradecane	295-17-0	50.771	777.91	1.2222	328.75	777.91	2	328.75	25.95
27850	C14H28	1-tetradecene	1120-36-1	56.297	692.00	1.3469	260.30	692.00	1,2	298.15	26.35
27851	C14H28	2-tetradecene	638-60-8	52.352	716.27	1.2222	279.65	716.27	2	298.15	27.12
27852	C14H28	2-methyl-1-tridecene	18094-01-4	53.373	690.08	1.2222	251.37	690.08	2	298.15	26.73
27853	C14H28	trans-7-tetradecene	41446-63-3	52.716	699.45	1.2222	263.77	699.45	2	298.15	26.73
27854	C14H28Br2	1,1-dibromotetradecane	62168-31-4	71.513	787.47	1.2222	351.64	787.47	2	351.64	34.70
27855	C14H28Br2	1,14-dibromotetradecane	37688-96-3	71.513	787.47	1.2222	323.55	787.47	2	323.55	37.46
27856	C14H28Cl2	1,1-dichlorotetradecane	4168-40-5	73.871	758.80	1.2222	291.88	758.80	2	298.15	40.14
27857	C14H28F2	1,1-difluorotetradecane	62127-03-1	56.868	686.60	1.2222	296.34	686.60	2	298.15	28.35
27858	C14H28I2	1,1-diiodotetradecane	66826-79-7	68.015	913.90	1.2222	348.16	913.90	2	348.16	37.85
27862	C14H28O	tetradecanal	124-25-4	61.733	717.32	1.2222	298.15	717.32	2	298.15	32.01
27863	C14H28O	2-tetradecanone	2345-27-9	55.349	712.65	1.2222	306.70	712.65	2	306.70	27.82
27864	C14H28O	7-ethyl-2-methyl-4-undecanone	6976-00-7	54.064	712.65	1.2222	311.33	712.65	2	311.33	26.80
27865	C14H28O	2-methyl-3-tridecanone	40239-35-8	54.791	712.65	1.2222	320.15	712.65	2	320.15	26.43
27866	C14H28O	3-tetradecanone	629-23-2	53.435	712.65	1.2222	307.15	712.65	2	307.15	26.82
27870	C14H28O	cis-9-tetradecenol	35153-15-2	46.777	699.00	0.8000	295.00	699.00	2	298.15	29.98
27873	C14H28O2	tetradecanoic acid	544-63-8	57.420	756.00	1.2205	327.55	756.00	1,2	327.55	28.71
27874	C14H28O2	tridecyl formate	42875-41-2	63.974	725.40	1.2222	305.74	725.40	2	305.74	32.77
27875	C14H28O2	dodecyl acetate	112-66-3	59.256	720.30	1.2222	274.25	720.30	2	298.15	30.84
27876	C14H28O2	undecyl propanoate	5458-33-3	61.458	720.90	1.2222	289.37	720.90	2	298.15	32.01
27877	C14H28O2	decyl butanoate	5454-09-1	57.448	720.20	1.2222	289.37	720.20	2	298.15	29.90
27878	C14H28O2	octyl hexanoate	4887-30-3	58.337	695.00	1.2222	245.15	695.00	2	298.15	29.41
27879	C14H28O2	heptyl heptanoate	624-09-9	58.451	695.00	1.2222	240.15	695.00	2	298.15	29.47
27880	C14H28O2	hexyl octanoate	1117-55-1	58.474	695.00	1.2222	242.55	695.00	2	298.15	29.48
27881	C14H28O2	pentyl nonanoate	61531-45-1	58.992	695.00	1.2222	246.15	695.00	2	298.15	29.74
27882	C14H28O2	ethyl laurate	106-33-2	56.173	695.00	1.2222	271.45	695.00	1,2	298.15	28.32
27883	C14H28O2	methyl tridecanoate	1731-88-0	58.992	695.00	1.2222	279.65	695.00	2	298.15	29.74
27885	C14H28O2	3,7-dimethyloctanyl butyrate	67874-80-0	57.812	720.20	1.2222	289.37	720.20	2	298.15	30.09
27893	C14H28S	thiacyclopentadecane	295-51-2	53.236	827.84	1.2222	310.43	827.84	2	310.43	29.97
27895	C14H29Br	1-bromotetradecane	112-71-0	57.869	750.56	1.2222	278.75	750.56	1,2	298.15	31.17
27896	C14H29Br	1-bromo-12-methyltridecane	111772-90-8	57.646	750.56	1.2222	278.75	750.56	2	298.15	31.05
27897	C14H29Cl	1-chlorotetradecane	2425-54-9	57.645	738.54	1.2222	278.05	738.54	2	298.15	30.64
27899	C14H29F	1-fluorotetradecane	73180-09-3	68.294	688.70	1.2222	277.15	688.70	2	298.15	34.14
27901	C14H29I	1-iodotetradecane	19218-94-1	57.725	758.94	1.2222	286.75	758.94	2	298.15	31.37
27908	C14H29NO2	1-nitrotetradecane	31241-42-6	58.094	762.20	1.2222	390.65	762.20	2	390.65	24.14
27912	C14H30	tetradecane	629-59-4	56.436	692.40	1.3658	279.03	692.40	1,2	298.15	26.15
27913	C14H30	2-methyltridecane	1560-96-9	52.604	684.08	1.2222	248.15	684.08	2	298.15	26.13
27914	C14H30	3-methyltridecane	6418-41-3	52.576	685.13	1.2222	235.65	685.13	2	298.15	26.16
27915	C14H30	2,2-dimethyldodecane	49598-54-1	52.414	679.98	1.2222	249.46	679.98	2	298.15	25.89
27916	C14H30	2,3-dimethyldodecane	6117-98-2	52.408	686.04	1.2222	217.04	686.04	2	298.15	26.11
27917	C14H30	2,4-dimethyldodecane	6117-99-3	52.862	668.89	1.2222	217.04	668.89	2	298.15	25.70
27918	C14H30	7-methyltridecane	26730-14-3	52.536	682.75	1.2222	235.95	682.75	2	298.15	26.05
27922	C14H30O	1-tetradecanol	112-72-1	47.568	741.00	0.8000	311.00	741.00	2	311.00	30.78
27923	C14H30O	2-tetradecanol	4706-81-4	47.774	731.40	0.8000	307.15	731.40	2	307.15	30.90
27924	C14H30O	3-tetradecanol	1653-32-3	47.387	736.20	0.8000	304.65	736.20	2	304.65	30.91
27925	C14H30O	12-methyl-1-tridecanol	21987-21-3	47.387	736.20	0.8000	283.65	736.20	2	298.15	31.28
27926	C14H30O	2-methyl-3-tridecanol	98930-89-3	47.147	736.20	0.8000	293.15	736.20	2	298.15	31.12
27927	C14H30O	2-methyl-4-tridecanol	36691-77-7	47.387	736.20	0.8000	301.79	736.20	2	301.79	31.07
27928	C14H30O	diheptyl ether	629-64-1	52.834	692.83	1.2222	269.27	692.83	1,2	298.15	26.56
27929	C14H30O	tetradecanol; mixed isomers	27196-00-5	47.823	736.20	0.8000	311.15	736.20	2	311.15	30.82

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
27930	C14H30O2	1,2-tetradecanediol	21129-09-9	99.871	751.22	1.2222	341.15	751.22	2	341.15	47.65
27931	C14H30O2	1,3-tetradecanediol	---	99.266	764.79	1.2222	353.68	764.79	2	353.68	46.48
27932	C14H30O2	1,4-tetradecanediol	---	98.234	790.69	1.2222	353.68	790.69	2	353.68	47.59
27933	C14H30O2	1,14-tetradecanediol	19812-64-7	98.954	773.63	1.2222	357.95	773.63	2	357.95	46.31
27938	C14H30O2	2,2,9,9-tetramethyl-1,10-decanediol	35449-36-6	99.057	770.08	1.2222	334.65	770.08	2	334.65	49.34
27946	C14H30S	1-tetradecanethiol	2079-95-0	57.372	753.80	1.2222	279.26	753.80	2	298.15	31.01
27947	C14H30S	2-tetradecanethiol	62155-04-8	57.583	746.00	1.2222	274.15	746.00	2	298.15	30.86
27948	C14H30S	diheptyl sulfide	629-65-2	54.688	762.23	1.2222	343.15	762.23	1,2	343.15	26.32
27949	C14H30S	methyl tridecyl sulfide	62155-09-3	52.787	762.23	1.2222	276.16	762.23	2	298.15	28.78
27950	C14H30S	ethyl dodecyl sulfide	2851-83-4	52.787	762.23	1.2222	276.16	762.23	2	298.15	28.78
27951	C14H30S	propyl undecyl sulfide	66826-84-4	52.787	762.23	1.2222	276.16	762.23	2	298.15	28.78
27952	C14H30S	butyl decyl sulfide	19313-57-6	52.787	762.23	1.2222	276.16	762.23	2	298.15	28.78
27953	C14H30S2	diheptyl disulfide	10496-16-9	52.801	765.96	1.2222	235.16	765.96	2	298.15	28.90
27956	C14H31N	tetradecylamine	2016-42-4	61.907	722.30	1.2222	311.34	722.30	2	311.34	31.07
27957	C14H31N	methyltridecylamine	45165-81-9	55.377	710.20	1.2222	274.15	710.20	2	298.15	28.47
27958	C14H31N	ethyldodecylamine	35902-57-9	55.517	707.40	1.2222	274.15	707.40	2	298.15	28.44
27959	C14H31N	diheptylamine	2470-68-0	55.368	706.40	1.2222	274.15	706.40	2	298.15	28.33
27960	C14H31N	dimethyldodecylamine	112-18-5	51.836	714.50	1.2222	252.85	714.50	2	298.15	26.79
27961	C14H31N	diethyldecylamine	6308-94-7	53.213	675.16	1.2222	252.85	675.16	2	298.15	26.11
28029	C15H10N2O2	diphenylmethane-4,4'-diisocyanate	101-68-8	75.873	802.00	1.2222	313.57	802.00	2	313.57	41.39
28135.1	C15H12	1-phenylindene	1961-96-2	75.993	865.00	1.2889	310.65	865.00	2	310.65	42.83
28250	C15H14	1,1-diphenyl-1-propene	778-66-5	64.268	796.49	1.2222	322.15	796.49	2	322.15	34.11
28251	C15H14	1,2-diphenyl-1-propene	779-51-1	62.654	796.49	1.2222	355.15	796.49	2	355.15	30.45
28252	C15H14	1,3-diphenyl-1-propene	5209-18-7	70.712	796.49	1.2222	289.15	796.49	2	298.15	39.86
28253	C15H14	2,3-diphenyl-1-propene	948-97-0	64.268	796.49	1.2222	321.15	796.49	2	321.15	34.20
28379	C15H16	1,1-diphenylpropane	1530-03-6	65.587	774.30	1.2222	286.85	774.30	2	298.15	36.20
28380	C15H16	1,2-diphenylpropane	5814-85-7	65.136	781.16	1.2222	273.40	781.16	2	298.15	36.19
28381	C15H16	1,3-diphenylpropane	1081-75-0	63.726	797.05	1.2222	252.40	797.05	2	298.15	35.94
28382	C15H16	2,2-diphenylpropane	778-22-3	64.769	788.27	1.2222	302.35	788.27	2	302.35	35.86
28383	C15H16	2-methyl-1,1-diphenylethane	32341-92-7	64.569	787.73	1.2222	304.56	787.73	2	304.56	35.53
28384	C15H16	3-methyl-1,1-diphenylethane	32341-91-6	64.685	786.32	1.2222	304.56	786.32	2	304.56	35.54
28385	C15H16	4-methyl-1,1-diphenylethane	3717-68-8	64.454	789.13	1.2222	304.56	789.13	2	304.56	35.51
28386	C15H16	2-methyl-1,2-diphenylethane	34403-05-9	63.969	793.78	1.2222	304.56	793.78	2	304.56	35.40
28387	C15H16	3-methyl-1,2-diphenylethane	34403-06-0	64.081	792.39	1.2222	304.56	792.39	2	304.56	35.42
28388	C15H16	4-methyl-1,2-diphenylethane	14310-20-4	65.000	781.25	1.2222	304.56	781.25	2	304.56	35.54
28389	C15H16	2-ethyldiphenylmethane	28122-25-0	64.667	785.23	1.2222	262.03	785.23	2	298.15	36.07
28390	C15H16	3-ethyldiphenylmethane	28122-24-9	64.589	786.18	1.2222	263.95	786.18	2	298.15	36.06
28391	C15H16	4-ethyldiphenylmethane	620-85-9	63.965	793.82	1.2222	249.65	793.82	2	298.15	35.97
28392	C15H16	2',3'-dimethyldiphenylmethane	62155-16-2	64.022	792.88	1.2222	304.56	792.88	2	304.56	35.40
28393	C15H16	2',4'-dimethyldiphenylmethane	28122-28-3	64.134	791.49	1.2222	304.56	791.49	2	304.56	35.42
28394	C15H16	2',5'-dimethyldiphenylmethane	13540-50-6	64.248	790.10	1.2222	304.56	790.10	2	304.56	35.43
28395	C15H16	2',6'-dimethyldiphenylmethane	---	64.022	792.88	1.2222	304.56	792.88	2	304.56	35.40
28396	C15H16	3',4'-dimethyldiphenylmethane	13540-56-2	63.910	794.27	1.2222	304.56	794.27	2	304.56	35.39
28397	C15H16	3',5'-dimethyldiphenylmethane	28122-27-2	64.361	788.71	1.2222	304.56	788.71	2	304.56	35.45
28398	C15H16	2',2"-dimethyldiphenylmethane	28122-29-4	64.022	792.88	1.2222	304.56	792.88	2	304.56	35.40
28399	C15H16	2',3"-dimethyldiphenylmethane	21895-13-6	64.248	790.10	1.2222	304.56	790.10	2	304.56	35.43
28400	C15H16	2',4"-dimethyldiphenylmethane	21895-17-0	63.910	794.27	1.2222	304.56	794.27	2	304.56	35.39
28401	C15H16	3',3"-dimethyldiphenylmethane	---	64.361	788.71	1.2222	304.56	788.71	2	304.56	35.45
28402	C15H16	3',4"-dimethyldiphenylmethane	21895-16-9	64.022	792.88	1.2222	304.56	792.88	2	304.56	35.40
28403	C15H16	4',4"-dimethyldiphenylmethane	4957-14-6	63.688	797.05	1.2222	302.15	797.05	2	302.15	35.57
28404	C15H16	4-isopropylbiphenyl	7116-95-2	72.970	793.85	1.2222	391.05	595.39	2	391.05	31.84
28405	C15H16	2-(1-methylethyl)-1,1'-biphenyl	19486-60-3	73.766	770.99	1.2222	297.65	578.24	2	298.15	40.58
28406	C15H16	4-n-propylbiphenyl	10289-45-9	72.696	801.96	1.2222	288.15	601.47	2	298.15	41.19
28407	C15H16	2-propyl-1,1'-biphenyl	20282-28-4	73.397	781.50	1.2222	261.95	586.12	2	298.15	40.80
28408	C15H16	isopropylbiphenyl	25640-78-2	72.696	801.96	1.2222	309.70	601.47	2	309.70	40.04
28429	C15H16O	p-cumylphenol	599-64-4	75.478	834.00	1.2222	346.40	834.00	2	346.40	39.17
28436	C15H16O2	bisphenol a	80-05-7	92.207	849.00	1.2222	426.15	849.00	2	426.15	39.33
28495	C15H18	2-pentylnaphthalene	93-22-1	63.864	797.48	1.2222	269.16	797.48	2	298.15	36.04
28496	C15H18	1,6-dimethyl-4-isopropylnaphthalene	483-78-3	64.936	795.40	1.2222	260.16	795.40	2	298.15	36.57
28497	C15H18	1-pentylnaphthalene	86-89-5	64.287	793.32	1.2222	251.15	793.32	2	298.15	36.14
28647	C15H22	1-pentyl-[1,2,3,4-tetrahydronaphthalene]	66359-06-6	58.493	767.60	1.2222	277.38	767.60	2	298.15	32.07
28648	C15H22	2-pentyl-[1,2,3,4-tetrahydronaphthalene]	66359-07-7	57.928	774.92	1.2222	277.38	774.92	2	298.15	31.99
28649	C15H22	1-(1,5-dimethyl-4-hexenyl)-4-methylbenzene	644-30-4	50.705	802.86	1.2222	283.15	602.14	2	298.15	28.75
28671	C15H22O2	4-octylbenzoic acid	3575-31-3	82.343	656.25	1.2222	362.65	492.19	2	362.65	30.81
28674	C15H22O2	3,5-di-tert-butylbenzoic acid	16225-26-6	82.343	656.25	1.2222	447.15	492.19	2	447.15	20.35
28725	C15H24	nonylbenzene	1081-77-2	60.405	741.00	1.3371	249.00	741.00	1,2	298.15	30.35
28726	C15H24	1,2,4-triisopropylbenzene	948-32-3	55.758	741.00	1.2222	273.13	741.00	2	298.15	29.72
28727	C15H24	1,3,5-triisopropylbenzene	717-74-8	55.610	741.00	1.2222	265.75	741.00	2	298.15	29.64
28728	C15H24	3,5-di-tert-butyltoluene	15181-11-0	55.758	741.00	1.2222	304.65	741.00	2	304.65	29.19
28756	C15H24O	2,6-di-tert-butyl-p-cresol	128-37-0	63.616	720.00	1.2222	344.00	720.00	2	344.00	28.76
28757	C15H24O	nonylphenol	25154-52-3	58.660	757.00	1.2222	329.76	757.00	2	329.76	29.15
28758	C15H24O	2,4-di-tert-butyl-5-methylphenol	497-39-2	61.290	738.50	1.2222	335.25	738.50	2	335.25	29.26
28759	C15H24O	2,4-di-tert-butyl-6-methylphenol	616-55-7	62.029	738.50	1.2222	324.15	738.50	2	324.15	30.61
28764	C15H24O	4-nonylphenol	104-40-5	60.561	738.50	1.2222	315.65	738.50	2	315.65	30.63
28765	C15H24O	4-nonylphenol, isomers	84852-15-3	60.561	738.50	1.2222	329.76	738.50	2	329.76	29.39
28815	C15H28	1,1-dicyclohexylpropane	54934-91-7	56.513	766.86	1.2222	249.75	766.86	2	298.15	30.96
28816	C15H28	1,2-dicyclohexylpropane	41851-34-7	56.483	766.86	1.2222	251.15	766.86	2	298.15	30.94
28817	C15H28	1,3-dicyclohexylpropane	3178-24-3	56.255	766.86	1.2222	256.15	766.86	2	298.15	30.82
28818	C15H28	2,2-dicyclohexylpropane	54934-90-6	56.434	766.86	1.2222	288.75	766.86	2	298.15	30.92
28819	C15H28	1-decylcyclopentene	62184-75-2	39.953	718.60	1.2222	234.40	718.60	2	298.15	20.75

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
28820	C15H28	1-pentadecyne	765-13-9	56.765	711.41	1.2222	283.16	711.41	2	298.15	29.23
28821	C15H28	2-pentadecyne	52112-25-1	56.012	729.70	1.2222	364.41	729.70	2	364.41	24.04
28822	C15H28	3-pentadecyne	61886-61-1	56.445	717.83	1.2222	364.41	717.83	2	364.41	23.74
28827	C15H28O2	menthol 3-methylbutanoate	16409-46-4	61.296	760.00	1.2222	274.45	760.00	2	298.15	33.35
28829	C15H28O2	butyl 10-undecenoate	109-42-2	61.296	760.00	1.2222	274.45	760.00	2	298.15	33.35
28837	C15H29Br	cis-1-bromo-1-pentadecene	66374-76-3	57.763	750.39	1.2222	313.03	750.39	2	313.03	29.86
28838	C15H29Br	trans-1-bromo-1-pentadecene	66374-77-4	57.763	750.39	1.2222	313.03	750.39	2	313.03	29.86
28839	C15H29Br3	1,1,1-tribromopentadecane	62127-71-3	83.964	829.92	1.2222	440.13	829.92	2	440.13	33.34
28840	C15H29Cl	cis-1-chloro-1-pentadecene	66374-78-5	60.066	757.95	1.2222	283.15	757.95	2	298.15	32.61
28841	C15H29Cl	trans-1-chloro-1-pentadecene	66374-79-6	60.066	757.95	1.2222	283.15	757.95	2	298.15	32.61
28842	C15H29Cl3	1,1,1-trichloropentadecane	62108-59-2	69.491	787.14	1.2222	350.49	787.14	2	350.49	33.82
28843	C15H29F	cis-1-fluoro-1-pentadecene	66291-42-7	47.623	704.64	1.2222	285.38	704.64	2	298.15	24.31
28844	C15H29F	trans-1-fluoro-1-pentadecene	66291-43-8	47.623	704.64	1.2222	285.38	704.64	2	298.15	24.31
28845	C15H29F3	1,1,1-trifluoropentadecane	62127-00-8	51.149	684.80	1.2222	357.18	684.80	2	357.18	20.77
28846	C15H29I	cis-1-iodo-1-pentadecene	66291-44-9	56.458	781.44	1.2222	311.29	781.44	2	311.29	30.34
28847	C15H29I	trans-1-iodo-1-pentadecene	66291-45-0	56.458	781.44	1.2222	311.29	781.44	2	311.29	30.34
28848	C15H29I3	1,1,1-triiodopentadecane	---	60.197	1051.69	1.2222	434.91	1051.69	2	434.91	31.36
28849	C15H29N	pentadecanenitrile	18300-91-9	55.567	756.38	1.2222	295.85	756.38	2	298.15	30.12
28855	C15H30	decylcyclopentane	1795-21-7	54.915	730.64	1.2222	251.02	730.64	1,2	298.15	28.93
28856	C15H30	nonylcyclohexane	2883-02-5	57.681	737.79	1.2222	262.96	737.79	2	298.15	30.64
28857	C15H30	1-ethyl-1-methyl-2,4-diisopropylcyclohexane, [1R-(1alpha,2beta,4beta)]	515-12-8	57.403	737.79	1.2222	262.96	737.79	2	298.15	30.49
28858	C15H30	cyclopentadecane	295-48-7	49.529	791.72	1.2222	337.35	791.72	2	337.35	25.12
28859	C15H30	1-pentadecene	13360-61-7	56.540	708.00	1.3604	269.42	708.00	1,2	298.15	26.88
28860	C15H30	2-methyl-1-tetradecene	52254-38-3	53.358	704.33	1.2222	258.08	704.33	2	298.15	27.23
28861	C15H30	7-pentadecene	15430-98-5	53.741	706.17	1.2222	263.75	706.17	2	298.15	27.49
28862	C15H30	8-pentadecene	15430-98-5	53.741	706.17	1.2222	263.75	706.17	2	298.15	27.49
28862.1	C15H30	trans-2-pentadecene	74392-36-2	80.844	702.00	1.2556	263.00	702.00	2	298.15	40.38
28864	C15H30Br2	1,1-dibromopentadecane	62168-32-5	71.151	798.14	1.2222	362.91	798.14	2	362.91	33.91
28865	C15H30Cl2	1,1-dichloropentadecane	822-15-1	73.508	770.83	1.2222	303.15	770.83	2	303.15	39.91
28866	C15H30F2	1,1-difluoropentadecane	62127-04-2	56.791	699.80	1.2222	307.61	699.80	2	307.61	27.98
28867	C15H30I2	1,1-diiodopentadecane	66325-78-8	66.513	934.29	1.2222	359.43	934.29	2	359.43	36.74
28873	C15H30O	pentadecanal	2765-11-9	61.462	728.48	1.2222	300.15	728.48	2	300.15	32.12
28874	C15H30O	2-pentadecanone	2345-28-0	55.323	723.72	1.2222	312.20	723.72	2	312.20	27.75
28875	C15H30O	8-pentadecanone	818-23-5	55.272	723.72	1.2222	316.15	723.72	2	316.15	27.40
28877	C15H30O	1-pentadecen-3-ol	99814-65-0	48.878	713.00	0.8000	300.65	713.00	2	300.65	31.54
28879	C15H30O2	pentadecanoic acid	1002-84-2	56.075	766.00	1.2222	325.68	766.00	2	325.68	28.50
28880	C15H30O2	tetradecyl formate	5451-63-8	64.326	736.70	1.2222	317.01	736.70	2	317.01	32.34
28881	C15H30O2	tridecyl acetate	1072-33-9	59.433	732.00	1.2222	281.55	732.00	2	298.15	31.36
28882	C15H30O2	dodecyl propanoate	6221-93-8	61.716	733.10	1.2222	300.64	733.10	2	300.64	32.38
28883	C15H30O2	undecyl butanoate	5461-02-9	58.979	732.50	1.2222	300.64	732.50	2	300.64	30.92
28884	C15H30O2	octyl heptanoate	5132-75-2	58.186	708.00	1.2222	250.65	708.00	2	298.15	29.83
28885	C15H30O2	heptyl octanoate	4265-97-8	58.213	708.00	1.2222	262.55	708.00	2	298.15	29.84
28886	C15H30O2	propyl dodecanoate	3681-78-5	56.196	708.00	1.2222	268.45	708.00	1,2	298.15	28.81
28887	C15H30O2	isopropyl dodecanoate	10233-13-3	59.471	708.00	1.2222	268.45	708.00	2	298.15	30.49
28888	C15H30O2	methyl tetradecanoate	124-10-7	58.448	708.00	1.2222	292.15	708.00	2	298.15	29.96
28889	C15H30O2	ethyl tridecanoate	28267-29-0	59.471	708.00	1.2222	268.45	708.00	2	298.15	30.49
28895	C15H30S	thiacyclohexadecane	295-68-1	51.787	836.95	1.2222	318.18	836.95	2	318.18	28.86
28898	C15H31Br	1-bromopentadecane	629-72-1	57.719	762.51	1.2222	292.15	762.51	2	298.15	31.48
28899	C15H31Cl	1-chloropentadecane	4862-03-1	57.369	750.73	1.2222	287.85	750.73	2	298.15	30.91
28900	C15H31F	1-fluoropentadecane	1555-17-5	69.253	702.10	1.2222	290.15	702.10	2	298.15	35.24
28901	C15H31I	1-iodopentadecane	35599-78-1	57.288	771.45	1.2222	297.15	771.45	2	298.15	31.53
28903	C15H31NO2	1-nitropentadecane	39220-65-0	57.828	772.46	1.2222	401.92	772.46	2	401.92	23.56
28904	C15H32	pentadecane	629-62-9	56.547	706.80	1.3710	283.11	706.80	1,2	298.15	26.68
28905	C15H32	2-methyltetradecane	1560-95-8	52.550	698.98	1.2222	264.85	698.98	2	298.15	26.63
28906	C15H32	3-methyltetradecane	18435-22-8	52.512	700.41	1.2222	241.15	700.41	2	298.15	26.66
28907	C15H32	2,2-dimethyltridecane	61869-04-3	52.423	694.17	1.2222	260.73	694.17	2	298.15	26.40
28908	C15H32	2,3-dimethyltridecane	18435-20-6	52.358	701.64	1.2222	228.31	701.64	2	298.15	26.63
28909	C15H32	2,4-dimethyltridecane	61868-05-1	52.841	683.39	1.2222	228.31	683.39	2	298.15	26.22
28912	C15H32O	1-pentadecanol	629-76-5	48.999	722.53	0.8000	317.04	722.53	2	317.04	30.87
28913	C15H32O	2-pentadecanol	1653-34-5	48.005	743.20	0.8000	308.15	743.20	2	308.15	31.28
28914	C15H32O	3-pentadecanol	53346-71-7	51.687	732.87	0.8000	311.95	732.87	2	311.95	33.17
28915	C15H32O	2,8-dimethyl-6-isobutylnonanol-4	10143-20-1	49.628	732.87	0.8000	312.38	732.87	2	312.38	31.82
28916	C15H32O2	1,2-pentadecanediol	33968-47-7	99.351	766.08	1.2222	364.95	766.08	2	364.95	45.05
28917	C15H32O2	1,3-pentadecanediol	---	98.794	779.60	1.2222	364.95	779.60	2	364.95	45.67
28918	C15H32O2	1,4-pentadecanediol	---	97.853	805.42	1.2222	364.95	805.42	2	364.95	46.80
28919	C15H32O2	1,15-pentadecanediol	14722-40-8	98.489	788.66	1.2222	360.15	788.66	2	360.15	46.73
28921	C15H32S	1-pentadecanethiol	25276-70-4	57.155	764.77	1.2222	290.93	764.77	2	298.15	31.25
28922	C15H32S	2-pentadecanethiol	62155-05-9	57.390	757.00	1.2222	280.15	757.00	2	298.15	31.12
28923	C15H32S	methyl tetradecyl sulfide	7289-45-4	52.696	775.15	1.2222	284.16	775.15	2	298.15	29.11
28924	C15H32S	ethyl tridecyl sulfide	66271-81-6	52.696	775.15	1.2222	284.16	775.15	2	298.15	29.11
28925	C15H32S	propyl dodecyl sulfide	66271-82-7	52.696	775.15	1.2222	284.16	775.15	2	298.15	29.11
28926	C15H32S	butyl undecyl sulfide	66271-83-8	52.696	775.15	1.2222	284.16	775.15	2	298.15	29.11
28931	C15H33N	pentadecylamine	2570-26-5	54.809	746.50	1.2222	309.65	746.50	2	309.65	28.47
28932	C15H33N	methyltetradecylamine	29369-63-9	55.360	722.70	1.2222	301.15	722.70	2	301.15	28.65
28933	C15H33N	ethyltridecylamine	59570-06-8	55.449	720.60	1.2222	305.40	720.60	2	305.40	28.27
28934	C15H33N	dimethyltridecylamine	17373-29-4	51.834	727.40	1.2222	260.00	727.40	2	298.15	27.21
28935	C15H33N	diethylundecylamine	54334-64-4	53.130	688.97	1.2222	260.00	688.97	2	298.15	26.57
28936	C15H33N	tripentylamine	621-77-2	63.734	663.27	1.2222	315.63	663.27	2	315.63	28.94
28937	C15H33N	triisopentylamine	645-41-0	47.266	711.57	1.2222	260.00	711.57	1,2	298.15	24.34
28938	C15H33N	tris(2-methylbutyl)amine	620-43-9	49.778	711.57	1.2222	260.00	711.57	2	298.15	25.63

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
28984	C16H10	fluoranthene	206-44-0	73.532	905.00	1.2222	383.36	905.00	2	383.36	37.50
28985	C16H10	pyrene	129-00-0	69.616	936.00	1.2222	423.81	936.00	2	423.81	33.32
29024	C16H12	1-phenylnaphthalene	605-02-7	68.528	849.00	1.2222	318.15	849.00	2	318.15	38.60
29233	C16H16	1,3-diphenyl-1-butene	7614-93-9	70.489	790.85	1.2222	320.65	790.85	2	320.65	37.34
29234	C16H16	cis-2,3-diphenyl-2-butene	782-05-8	69.771	790.85	1.2222	340.65	790.85	2	340.65	35.04
29235	C16H16	trans-2,3-diphenyl-2-butene	782-06-9	69.771	790.85	1.2222	380.15	790.85	2	380.15	31.32
29290.1	C16H16O2	trans-3,5-dimethoxystilbene	21956-56-9	78.599	885.00	1.4082	329.55	885.00	2	329.55	40.79
29342	C16H18	1,1-diphenylbutane	719-79-9	65.298	778.30	1.2222	247.95	778.30	2	298.15	36.18
29343	C16H18	1,2-diphenylbutane	5223-59-6	65.096	778.30	1.2222	302.63	778.30	2	302.63	35.66
29344	C16H18	1,4-diphenylbutane	1083-56-3	64.321	778.30	1.2222	325.65	778.30	2	325.65	33.16
29346	C16H18	1,3-diphenylbutane, (±)	116783-21-2	65.036	778.30	1.2222	302.63	778.30	2	302.63	35.63
29347	C16H18	1,3-diphenyl-2-methylpropane	1520-46-3	64.737	778.30	1.2222	239.45	778.30	2	298.15	35.87
29348	C16H18	2-butyl-1,1'-biphenyl	54532-97-7	72.435	809.75	1.2222	319.40	607.31	2	319.40	39.24
29349	C16H18	2,2',4,4'-tetramethyl-1,1'-biphenyl	3976-36-1	72.917	795.41	1.2222	314.15	596.56	2	314.15	39.46
29350	C16H18	2,2',5,5'-tetramethyl-1,1'-biphenyl	3075-84-1	73.014	792.57	1.2222	324.65	594.43	2	324.65	38.34
29356	C16H18	DL-2,3-diphenylbutane	2726-21-8	64.706	778.30	1.2222	302.63	778.30	2	302.63	35.45
29358	C16H18	meso-2,3-diphenylbutane	4613-11-0	64.914	778.30	1.2222	397.45	778.30	2	397.45	27.10
29359.1	C16H18	4-ethyl-bibenzyl	7439-15-8	93.602	771.00	1.2801	292.00	771.00	2	298.15	50.06
29440	C16H20	1-hexylnaphthalene	2876-53-1	62.260	813.00	1.2993	255.15	813.00	1,2	298.15	34.39
29441	C16H20	2-hexylnaphthalene	2876-46-2	62.761	803.49	1.2222	267.65	803.49	2	298.15	35.61
29442	C16H20	1-isopropyl-2,4,7-trimethylnaphthalene	6995-30-8	63.360	808.25	1.2222	303.85	808.25	2	303.85	35.61
29443	C16H20	1,2,5-trimethyl-8-isopropylnaphthalene	6897-76-3	63.360	808.25	1.2222	360.15	808.25	2	360.15	30.81
29444	C16H20	1,3,8-trimethyl-5-isopropylnaphthalene	6897-88-7	63.360	808.25	1.2222	294.65	808.25	2	298.15	36.10
29445	C16H20	2,6-diisopropylnaphthalene	24157-81-1	65.063	808.25	1.2222	341.65	808.25	2	341.65	33.24
29446	C16H20	bis(isopropyl)naphthalene	38640-62-9	63.360	808.25	1.2222	303.85	808.25	2	303.85	35.61
29518	C16H22O4	dibutyl phthalate	84-74-2	67.371	781.00	1.2222	238.15	781.00	2	298.15	37.43
29559	C16H24	1-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-11-9	57.533	777.35	1.2222	288.65	777.35	2	298.15	31.85
29560	C16H24	2-hexyl-[1,2,3,4-tetrahydronaphthalene]	66325-09-5	57.033	784.07	1.2222	288.65	784.07	2	298.15	31.78
29561	C16H24	1,2,3,4-tetrahydro-6-ethyl-1,1,4,4-tetramethylnaphthalene	80-81-9	57.281	780.71	1.2222	288.65	780.71	2	298.15	31.82
29595	C16H26	decylbenzene	104-72-3	60.054	753.00	1.3430	258.77	753.00	1,2	298.15	30.52
29596	C16H26	pentaethylbenzene	605-01-6	57.722	723.64	1.2222	327.66	723.64	2	327.66	27.63
29598	C16H26	6,10-hexadecadiyne	10160-99-3	56.951	797.02	1.2222	283.15	597.77	2	298.15	32.12
29599	C16H26	(1-methylnonyl)benzene	4537-13-7	57.071	738.32	1.2222	272.65	738.32	2	298.15	30.33
29608	C16H26O	2,6-di-tert-butyl-4-ethylphenol	4130-42-1	61.082	750.00	1.2222	317.15	750.00	2	317.15	31.20
29609	C16H26O	2,4-di-tert-amylphenol	120-95-6	61.082	750.00	1.2222	298.15	750.00	2	298.15	32.88
29622	C16H27N	4-decylaniline	37529-30-9	56.360	750.00	1.2222	298.15	750.00	2	298.15	30.34
29637	C16H28S	3-dodecylthiophene	104934-52-3	50.309	815.00	1.2222	350.00	815.00	2	350.00	25.34
29640	C16H30	1-hexadecyne	629-74-3	56.521	724.26	1.2222	288.16	724.26	2	298.15	29.56
29641	C16H30	2-hexadecyne	629-75-4	55.795	742.19	1.2222	293.15	742.19	2	298.15	29.78
29642	C16H30	3-hexadecyne	61886-62-2	56.272	729.15	1.2222	375.68	729.15	2	375.68	23.22
29643	C16H30	1,1-dicyclohexylbutane	54890-00-5	56.135	768.14	1.2222	262.75	768.14	2	298.15	30.79
29644	C16H30	1,4-dicyclohexylbutane	6165-44-2	55.747	768.14	1.2222	285.15	768.14	2	298.15	30.58
29645	C16H30	1,3-dicyclohexyl-2-methylpropane	2883-08-1	56.063	768.14	1.2222	273.75	768.14	2	298.15	30.75
29646	C16H30	1-undecylcyclopentene	62184-76-3	39.338	729.70	1.2222	245.67	729.70	2	298.15	20.70
29648	C16H30	1,3-dicyclohexylbutane	41851-35-8	55.806	768.14	1.2222	273.88	768.14	2	298.15	30.61
29660	C16H30O2	7-hexadecenoic acid	1191-75-9	52.597	896.00	1.2222	306.15	896.00	2	306.15	31.55
29661	C16H30O2	9-hexadecenoic acid	2091-29-4	52.597	896.00	1.2222	273.65	896.00	2	298.15	32.08
29662	C16H30O2	cis-9-hexadecenoic acid	373-49-9	52.597	896.00	1.2222	273.05	896.00	2	298.15	32.08
29663	C16H30O2	lauryl methacrylate	142-90-5	61.841	782.00	1.2222	298.15	782.00	2	298.15	34.39
29665	C16H30O2	cis-9-tetradecenyl acetate	16725-53-4	61.841	782.00	1.2222	298.15	782.00	2	298.15	34.39
29666	C16H30O2	cis-tetradec-11-en-1-yl acetate	20711-10-8	61.841	782.00	1.2222	298.15	782.00	2	298.15	34.39
29667	C16H30O2	trans-tetradec-11-en-1-yl acetate	33189-72-9	61.841	782.00	1.2222	298.15	782.00	2	298.15	34.39
29684	C16H31Br	cis-1-bromo-1-hexadecene	66271-67-8	57.846	761.27	1.2222	324.30	761.27	2	324.30	29.35
29685	C16H31Br	trans-1-bromo-1-hexadecene	66271-68-9	57.846	761.27	1.2222	324.30	761.27	2	324.30	29.35
29688	C16H31Br3	1,1,1-tribromohexadecane	62127-72-4	83.727	838.47	1.2222	451.40	838.47	2	451.40	32.55
29689	C16H31Cl	cis-1-chloro-1-hexadecene	66271-69-0	59.725	771.23	1.2222	294.42	771.23	2	298.15	32.87
29690	C16H31Cl	trans-1-chloro-1-hexadecene	66271-70-3	59.725	771.23	1.2222	294.42	771.23	2	298.15	32.87
29692	C16H31Cl3	1,1,1-trichlorohexadecane	62108-60-5	69.159	798.28	1.2222	361.76	798.28	2	361.76	33.07
29693	C16H31F	cis-1-fluoro-1-hexadecene	66271-71-4	47.998	727.24	1.2222	296.65	727.24	2	298.15	25.19
29694	C16H31F	trans-1-fluoro-1-hexadecene	66271-72-5	47.998	727.24	1.2222	296.65	727.24	2	298.15	25.19
29695	C16H31F3	1,1,1-trifluorohexadecane	62127-01-9	51.031	698.20	1.2222	368.45	698.20	2	368.45	20.40
29696	C16H31I	cis-1-iodo-1-hexadecene	66271-73-6	56.194	791.82	1.2222	322.56	791.82	2	322.56	29.65
29697	C16H31I	trans-1-iodo-1-hexadecene	66271-74-7	56.194	791.82	1.2222	322.56	791.82	2	322.56	29.65
29698	C16H31I3	1,1,1-triiodohexadecane	---	59.102	1071.39	1.2222	446.18	1071.39	2	446.18	30.60
29699	C16H31N	hexadecanenitrile	629-79-8	55.342	768.13	1.2222	304.65	768.13	2	304.65	29.85
29704	C16H32	undecylcyclopentane	6785-23-5	59.426	743.30	1.2222	263.16	743.30	2	298.15	31.76
29705	C16H32	decylcyclohexane	1795-16-0	58.198	751.25	1.3552	271.43	751.25	1,2	298.15	29.33
29706	C16H32	cyclohexadecane	295-65-8	48.332	804.08	1.2222	335.25	804.08	2	335.25	25.00
29707	C16H32	1-hexadecene	629-73-2	56.860	722.00	1.3758	277.51	722.00	1,2	298.15	27.32
29708	C16H32	2-methyl-1-pentadecene	29833-69-0	53.283	718.92	1.2222	266.58	718.92	2	298.15	27.69
29709	C16H32	2-methyl-1-propene, tetramer	15220-85-6	50.997	720.46	1.2222	175.15	720.46	2	298.15	26.55
29710	C16H32Br2	1,16-dibromohexadecane	45223-18-5	70.835	808.08	1.2222	329.15	808.08	2	329.15	37.37
29711	C16H32Br2	1,1-dibromohexadecane	62168-33-6	70.835	808.08	1.2222	374.18	808.08	2	374.18	33.13
29712	C16H32Cl2	1,1-dichlorohexadecane	62017-19-0	73.149	782.08	1.2222	314.42	782.08	2	314.42	39.02
29713	C16H32F2	1,1-difluorohexadecane	62127-05-3	56.697	712.10	1.2222	318.88	712.10	2	318.88	27.44
29714	C16H32I2	1,1-diiodohexadecane	66271-75-8	65.070	955.15	1.2222	370.70	955.15	2	370.70	35.70
29717	C16H32O	hexadecanal	629-80-1	61.137	740.10	1.2222	309.15	740.10	2	309.15	31.57
29718	C16H32O	2-hexadecanone	18787-63-8	55.269	736.51	1.2222	317.15	736.51	2	317.15	27.77
29719	C16H32O	3-hexadecanone	18787-64-9	54.754	736.51	1.2222	316.15	736.51	2	316.15	27.59
29721	C16H32O2	hexadecanoic acid	57-10-3	56.400	776.00	1.1865	336.00	776.00	1,2	336.00	28.77

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
29722	C16H32O2	2-hexyldecanoic acid	25354-97-6	54.168	776.00	1.2222	336.00	776.00	2	336.00	27.08
29723	C16H32O2	pentadecyl formate	66271-76-9	64.669	747.30	1.2222	286.83	747.30	2	298.15	34.71
29724	C16H32O2	tetradecyl acetate	638-59-5	59.517	742.90	1.2222	287.15	742.90	2	298.15	31.79
29725	C16H32O2	tridecyl propanoate	66271-77-0	61.992	744.30	1.2222	272.73	744.30	2	298.15	33.16
29726	C16H32O2	dodecyl butanoate	3724-61-6	59.228	743.90	1.2222	259.15	743.90	2	298.15	31.67
29727	C16H32O2	octyl octanoate	2306-88-9	58.111	721.00	1.2222	255.05	721.00	2	298.15	30.27
29728	C16H32O2	heptyl nonanoate	71605-85-1	58.433	721.00	1.2222	257.65	721.00	2	298.15	30.44
29729	C16H32O2	ethyl myristate	124-06-1	57.524	721.00	1.2222	285.45	721.00	2	298.15	29.96
29730	C16H32O2	methyl pentadecanoate	7132-64-1	47.151	721.00	1.2222	291.65	721.00	2	298.15	24.56
29731	C16H32O2	n-butyl laurate	106-18-3	55.961	721.00	1.2222	266.31	721.00	1,2	298.15	29.15
29732	C16H32O2	2-ethylhexyl-2-ethylhexanoate	7425-14-1	58.433	721.00	1.2222	271.22	721.00	2	298.15	30.44
29738	C16H32S	thiacycloheptadecane	296-00-4	50.399	844.72	1.2222	325.93	844.72	2	325.93	27.78
29739	C16H33Br	1-bromohexadecane	112-82-3	57.377	773.66	1.2222	291.05	773.66	1,2	298.15	31.65
29740	C16H33Cl	1-chlorohexadecane	4860-03-1	57.010	762.66	1.2222	291.05	762.66	1,2	298.15	31.10
29744	C16H33F	1-fluorohexadecane	408-38-8	70.137	714.60	1.2222	291.15	714.60	2	298.15	36.25
29746	C16H33I	1-iodohexadecane	544-77-4	58.783	783.25	1.2222	297.85	783.25	1,2	298.15	32.73
29750	C16H33NO2	1-nitrohexadecane	66271-50-9	57.598	782.00	1.2222	413.19	782.00	2	413.19	22.99
29754	C16H34	hexadecane	544-76-3	56.990	720.60	1.3929	291.34	720.60	1,2	298.15	27.09
29755	C16H34	2-methylpentadecane	1560-93-6	52.469	713.05	1.2222	266.15	713.05	2	298.15	27.07
29756	C16H34	3-methylpentadecane	2882-96-4	52.455	713.56	1.2222	250.85	713.56	2	298.15	27.08
29757	C16H34	2,2-dimethyltetradecane	59222-86-5	52.368	708.68	1.2222	272.00	708.68	2	298.15	26.87
29758	C16H34	2,3-dimethyltetradecane	18435-23-9	52.282	716.26	1.2222	239.58	716.26	2	298.15	27.08
29759	C16H34	2,4-dimethyltetradecane	61868-06-2	52.825	695.62	1.2222	239.58	695.62	2	298.15	26.65
29760	C16H34	2,2,4,4,6,8,8-heptamethylnonane	4390-04-9	50.670	711.29	1.2222	259.92	711.29	2	298.15	26.08
29766	C16H34O	1-hexadecanol	36653-82-4	47.934	761.00	0.8000	322.35	761.00	2	322.35	30.85
29767	C16H34O	2-hexadecanol	14852-31-4	48.236	754.20	0.8000	317.15	754.20	2	317.15	31.18
29768	C16H34O	3-hexadecanol	593-03-3	47.370	757.60	0.8000	323.15	757.60	2	323.15	30.36
29769	C16H34O	2-methyl-1-pentadecanol	25354-98-7	47.370	757.60	0.8000	285.65	757.60	2	298.15	31.75
29770	C16H34O	6-methyl-6-pentadecanol	108836-86-8	47.370	757.60	0.8000	312.08	757.60	2	312.08	30.98
29771	C16H34O	dioctyl ether	629-82-3	54.773	707.00	1.2694	265.55	707.00	1,2	298.15	27.33
29772	C16H34O	bis(2-ethylhexyl) ether	10143-60-9	53.904	707.00	1.2222	265.55	707.00	2	298.15	27.60
29773	C16H34O	2-hexyl-1-decanol	2425-77-6	47.370	757.60	0.8000	312.08	757.60	2	312.08	30.98
29776	C16H34O2	1,2-hexadecanediol	6920-24-7	98.818	781.52	1.2222	347.15	781.52	2	347.15	48.20
29777	C16H34O2	1,3-hexadecanediol	34014-79-4	98.312	795.01	1.2222	376.22	795.01	2	376.22	44.91
29778	C16H34O2	1,4-hexadecanediol	---	97.466	820.77	1.2222	376.22	820.77	2	376.22	46.07
29780	C16H34O2	1,16-hexadecanediol	7735-42-4	97.706	804.31	1.2222	365.65	804.31	2	365.65	46.57
29789	C16H34S	1-hexadecanethiol	2917-26-2	56.946	774.68	1.2222	290.93	774.68	2	298.15	31.44
29790	C16H34S	2-hexadecanethiol	66271-53-2	57.142	768.00	1.2222	288.15	768.00	2	298.15	31.34
29791	C16H34S	dioctyl sulfide	2690-08-6	54.121	787.27	1.2222	288.16	787.27	1,2	298.15	30.25
29792	C16H34S	methyl pentadecyl sulfide	62155-10-6	52.674	787.27	1.2222	288.16	787.27	2	298.15	29.44
29793	C16H34S	ethyl tetradecyl sulfide	66271-54-3	52.456	791.68	1.2222	288.16	791.68	2	298.15	29.44
29794	C16H34S	propyl tridecyl sulfide	66271-55-4	52.674	787.27	1.2222	288.16	787.27	2	298.15	29.44
29795	C16H34S	butyl dodecyl sulfide	16900-08-6	52.674	787.27	1.2222	288.16	787.27	2	298.15	29.44
29797	C16H34S2	dioctyl disulfide	822-27-5	51.396	784.46	1.2222	244.16	784.46	2	298.15	28.65
29798	C16H35N	hexadecylamine	143-27-1	61.364	757.50	1.2222	319.92	757.50	2	319.92	31.38
29799	C16H35N	ethyltetradecylamine	66271-56-5	55.379	732.80	1.2222	287.77	732.80	2	298.15	29.25
29800	C16H35N	dioctylamine	1120-48-5	55.170	732.40	1.2222	287.77	732.40	2	298.15	29.12
29801	C16H35N	methylpentadecylamine	29664-53-7	55.284	734.30	1.2222	287.77	734.30	2	298.15	29.25
29802	C16H35N	N-(1-methylheptyl)-2-octanamine	5412-92-0	54.211	732.83	1.2222	287.77	732.83	2	298.15	28.63
29803	C16H35N	dimethyltetradecylamine	112-75-4	51.814	739.40	1.2222	270.15	739.40	2	298.15	27.57
29804	C16H35N	diethyldodecylamine	4271-27-6	53.065	700.59	1.2222	270.15	700.59	2	298.15	26.95
29805	C16H35N	bis(2-ethylhexyl)amine	106-20-7	55.089	732.83	1.2222	287.77	732.83	2	298.15	29.10
30056	C17H18	1,1-diphenyl-1-pentene	1530-11-6	60.757	797.63	1.2222	266.11	797.63	2	298.15	34.29
30117	C17H20	1,1-diphenylpentane	1726-12-1	64.090	786.40	1.2222	261.13	786.40	2	298.15	35.79
30118	C17H20	1,3-diphenylpentane	838-45-9	64.205	786.40	1.2222	263.14	786.40	2	298.15	35.86
30119	C17H20	1,5-diphenylpentane	1718-50-9	63.529	786.40	1.2222	265.15	786.40	2	298.15	35.48
30121	C17H20	4-pentylbiphenyl	7116-96-3	71.795	829.28	1.2222	213.15	621.96	2	298.15	41.65
30122	C17H20	amyl biphenyl	63990-96-5	71.795	829.28	1.2222	213.15	621.96	2	298.15	41.65
30177	C17H22	1-heptylnaphthalene	2876-52-0	61.522	811.44	1.2222	265.15	811.44	2	298.15	35.15
30178	C17H22	2-heptylnaphthalene	2876-45-1	61.267	814.10	1.2222	274.15	814.10	2	298.15	35.09
30241	C17H26	1-heptyl-[1,2,3,4-tetrahydronaphthalene]	66563-99-3	56.521	788.41	1.2222	299.92	788.41	2	299.92	31.49
30242	C17H26	2-heptyl-[1,2,3,4-tetrahydronaphthalene]	26438-24-4	56.141	793.72	1.2222	299.92	793.72	2	299.92	31.43
30264	C17H28	undecylbenzene	6742-54-7	56.112	764.00	1.2222	268.00	764.00	2	298.15	30.65
30267	C17H28O	2,6-di-tert-pentyl-4-methylphenol	56103-67-4	59.830	760.00	1.2222	351.15	760.00	2	351.15	28.04
30284	C17H32	1-heptadecyne	26186-00-5	56.270	736.21	1.2222	295.16	736.21	2	298.15	29.83
30285	C17H32	2-heptadecyne	61847-96-9	55.570	753.80	1.2222	386.95	753.80	2	386.95	23.04
30286	C17H32	3-heptadecyne	61886-63-3	56.089	739.60	1.2222	386.95	739.60	2	386.95	22.69
30287	C17H32	1,1-dicyclohexylpentane	54833-30-6	55.233	776.31	1.2222	288.52	776.31	2	298.15	30.55
30288	C17H32	1,3-dicyclohexyl-2-ethylpropane	54833-34-0	55.264	776.31	1.2222	274.04	776.31	2	298.15	30.56
30289	C17H32	1,5-dicyclohexylpentane	54833-31-7	54.663	776.31	1.2222	259.55	776.31	2	298.15	30.23
30290	C17H32	1-dodecylcyclopentene	62184-77-4	38.796	739.92	1.2222	256.94	739.92	2	298.15	20.65
30292	C17H32O2	9-heptadecenoic acid	10136-52-4	52.410	916.00	1.2222	285.65	916.00	2	298.15	32.39
30294	C17H33Br	cis-1-bromo-1-heptadecene	66563-89-1	57.924	772.65	1.2222	335.57	772.65	2	335.57	28.87
30295	C17H33Br	trans-1-bromo-1-heptadecene	66563-90-4	57.924	772.65	1.2222	335.57	772.65	2	335.57	28.87
30296	C17H33Br3	1,1,1-tribromoheptadecane	62127-73-5	83.465	847.65	1.2222	462.67	847.65	2	462.67	31.81
30297	C17H33Cl	cis-1-chloro-1-heptadecene	66563-91-5	59.437	782.44	1.2222	305.69	782.44	2	305.69	32.44
30298	C17H33Cl	trans-1-chloro-1-heptadecene	66563-92-6	59.437	782.44	1.2222	305.69	782.44	2	305.69	32.44
30300	C17H33Cl3	1,1,1-trichloroheptadecane	62108-61-6	68.837	808.70	1.2222	373.03	808.70	2	373.03	32.32
30301	C17H33F	cis-1-fluoro-1-heptadecene	66577-63-7	48.441	750.10	1.2222	307.92	750.10	2	307.92	25.39
30302	C17H33F	trans-1-fluoro-1-heptadecene	66577-51-3	48.441	750.10	1.2222	307.92	750.10	2	307.92	25.39

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
30303	C17H33F3	1,1,1-trifluoroheptadecane	62126-84-5	50.959	710.60	1.2222	379.72	710.60	2	379.72	20.02
30304	C17H33I	cis-1-iodo-1-heptadecene	66577-52-4	55.923	802.73	1.2222	333.83	802.73	2	333.83	28.99
30305	C17H33I	trans-1-iodo-1-heptadecene	66577-53-5	55.923	802.73	1.2222	333.83	802.73	2	333.83	28.99
30306	C17H33I3	1,1,1-triiocloheptadecane	---	58.035	1091.73	1.2222	457.45	1091.73	2	457.45	29.88
30307	C17H33N	heptadecanenitrile	5399-02-0	55.152	779.15	1.2222	306.45	779.15	2	306.45	29.94
30310	C17H34	dodecylcyclopentane	5634-30-0	59.439	755.17	1.2222	268.16	755.17	2	298.15	32.17
30311	C17H34	undecylcyclohexane	54105-66-7	57.793	761.74	1.2222	278.96	761.74	2	298.15	31.50
30312	C17H34	cycloheptadecane	295-97-6	47.174	815.06	1.2222	338.35	815.06	2	338.35	24.49
30313	C17H34	1-heptadecene	6765-39-5	57.230	736.00	1.3949	284.40	736.00	1,2	298.15	27.73
30314	C17H34	2-methyl-1-hexadecene	61868-19-7	53.194	732.59	1.2222	274.65	732.59	2	298.15	28.09
30315	C17H34Br2	1,1-dibromoheptadecane	62168-34-7	70.506	818.59	1.2222	385.45	818.59	2	385.45	32.39
30316	C17H34Br2	1,17-dibromoheptadecane	81726-82-1	70.506	818.59	1.2222	311.15	818.59	2	311.15	39.30
30317	C17H34Cl2	1,1-dichloroheptadecane	62046-36-0	72.799	792.59	1.2222	325.69	792.59	2	325.69	38.13
30318	C17H34F2	1,1-difluoroheptadecane	62127-06-4	56.589	723.60	1.2222	330.15	723.60	2	330.15	26.87
30319	C17H34I2	1,1-diiodoheptadecane	66577-55-7	63.682	976.52	1.2222	381.97	976.52	2	381.97	34.72
30322	C17H34O	9-heptadecanone	540-08-9	51.967	745.97	1.2222	326.15	745.97	2	326.15	25.74
30323	C17H34O	2-heptadecanone	2922-51-2	55.300	745.97	1.2222	321.15	745.97	2	321.15	27.79
30324	C17H34O	heptadecanal	629-90-3	60.767	752.20	1.2222	310.15	752.20	2	310.15	31.73
30325	C17H34O2	heptadecanoic acid	506-12-7	56.090	789.15	1.2222	334.35	789.15	2	334.35	28.60
30326	C17H34O2	hexadecyl formate	4113-08-0	65.032	757.10	1.2222	339.55	757.10	2	339.55	31.42
30327	C17H34O2	pentadecyl acetate	629-58-3	59.622	753.00	1.2222	291.65	753.00	2	298.15	32.20
30328	C17H34O2	tetradecyl propanoate	6221-95-0	62.285	754.80	1.2222	323.18	754.80	2	323.18	31.46
30329	C17H34O2	tridecyl butanoate	56164-20-6	59.501	754.50	1.2222	323.18	754.50	2	323.18	30.04
30330	C17H34O2	isopropyl tetradecanoate	110-27-0	60.447	733.00	1.2222	302.20	733.00	2	302.20	31.57
30331	C17H34O2	propyl tetradecanoate	14303-70-9	60.447	733.00	1.2222	302.20	733.00	2	302.20	31.57
30332	C17H34O2	methyl palmitate	112-39-0	55.909	733.00	1.2222	290.00	733.00	1,2	298.15	29.53
30336	C17H34S	thiacyclooctadecane	296-21-9	49.094	852.59	1.2222	333.68	852.59	2	333.68	26.76
30337	C17H35Br	1-bromoheptadecane	3508-00-7	57.920	784.07	1.2222	302.75	784.07	2	302.75	31.90
30338	C17H35Cl	1-chloroheptadecane	62016-75-5	56.790	773.57	1.2222	299.35	773.57	2	299.35	31.23
30339	C17H35F	1-fluoroheptadecane	1545-17-1	70.958	726.20	1.2222	302.15	726.20	2	302.15	36.77
30340	C17H35I	1-iodoheptadecane	26825-83-2	56.471	796.86	1.2222	306.85	796.86	2	306.85	31.17
30343	C17H35NO2	1-nitroheptadecane	39220-66-1	57.355	792.11	1.2222	424.46	792.11	2	424.46	22.45
30346	C17H36	heptadecane	629-78-7	57.080	733.37	1.3978	295.13	733.37	1,2	298.15	27.52
30347	C17H36	2-methylhexadecane	1560-92-5	52.374	726.23	1.2222	277.15	726.23	2	298.15	27.45
30348	C17H36	3-methylhexadecane	6418-43-5	52.342	727.50	1.2222	258.15	727.50	2	298.15	27.47
30349	C17H36	2,2-dimethylpentadecane	61869-05-4	52.293	722.25	1.2222	283.27	722.25	2	298.15	27.28
30350	C17H36	2,3-dimethylpentadecane	2882-97-5	52.192	729.97	1.2222	250.85	729.97	2	298.15	27.47
30351	C17H36	2,4-dimethylpentadecane	61868-07-3	52.753	708.24	1.2222	250.85	708.24	2	298.15	27.05
30352	C17H36O	1-heptadecanol	1454-85-9	48.106	770.00	0.8000	327.05	770.00	2	327.05	30.91
30353	C17H36O	2-heptadecanol	16813-18-6	48.435	764.40	0.8000	317.65	764.40	2	317.65	31.52
30354	C17H36O	9-heptadecanol	624-08-8	48.270	767.20	0.8000	334.15	767.20	2	334.15	30.55
30355	C17H36O	heptadecanol (mixed primary isomers)	52783-44-5	48.270	767.20	0.8000	327.15	767.20	2	327.15	30.94
30356	C17H36O2	1,2-heptadecanediol	34719-63-6	98.280	797.59	1.2222	387.49	797.59	2	387.49	43.59
30357	C17H36O2	1,3-heptadecanediol	---	97.826	811.07	1.2222	387.49	811.07	2	387.49	44.22
30358	C17H36O2	1,4-heptadecanediol	---	97.079	836.79	1.2222	387.49	836.79	2	387.49	45.40
30359	C17H36O2	1,17-heptadecanediol	66577-59-1	97.544	820.62	1.2222	402.49	820.62	2	402.49	42.79
30362	C17H36S	1-heptadecanethiol	53193-22-9	56.662	786.01	1.2222	300.37	786.01	2	300.37	31.46
30363	C17H36S	2-heptadecanethiol	66577-60-4	56.990	777.00	1.2222	293.15	777.00	2	298.15	31.54
30364	C17H36S	methyl hexadecyl sulfide	27563-68-4	52.712	798.63	1.2222	294.16	798.63	2	298.15	29.77
30365	C17H36S	ethyl pentadecyl sulfide	64919-20-6	52.712	798.63	1.2222	294.16	798.63	2	298.15	29.77
30366	C17H36S	propyl tetradecyl sulfide	66577-61-5	52.712	798.63	1.2222	294.16	798.63	2	298.15	29.77
30367	C17H36S	butyl tridecyl sulfide	66577-62-6	52.712	798.63	1.2222	294.16	798.63	2	298.15	29.77
30369	C17H37N	heptadecylamine	4200-95-7	61.405	767.80	1.2222	317.15	767.80	2	317.15	32.02
30370	C17H37N	methylhexadecylamine	13417-08-8	55.253	745.00	1.2222	309.15	745.00	2	309.15	28.69
30371	C17H37N	ethylpentadecylamine	56392-13-3	55.345	744.20	1.2222	309.15	744.20	2	309.15	28.72
30372	C17H37N	dimethylpentadecylamine	17678-60-3	51.829	750.50	1.2222	277.65	750.50	2	298.15	27.91
30373	C17H37N	diethyltridecylamine	66577-48-8	52.953	712.65	1.2222	260.35	712.65	2	298.15	27.30
30374	C17H37N	methyldioctylamine	4455-26-9	52.269	744.03	1.2222	243.05	744.03	2	298.15	27.95
30406	C18H12	chrysene	218-01-9	70.845	979.00	1.2222	531.15	979.00	2	531.15	27.24
30456.1	C18H13N3O4	4,4'-dinitrotriphenylamine	1100-1-3	89.251	946.00	1.2259	479.65	946.00	2	479.65	37.50
30457	C18H14	m-terphenyl	92-06-8	72.743	924.85	1.3188	360.00	924.85	1,2	360.00	37.97
30458	C18H14	o-terphenyl	84-15-1	75.200	890.95	1.4467	329.35	890.95	1,2	329.35	38.57
30459	C18H14	p-terphenyl	92-94-4	69.100	925.95	1.2550	486.30	925.95	1,2	486.30	27.13
30567	C18H15P	triphenylphosphine	603-35-0	79.380	1008.00	1.7010	354.40	1008.00	1,2	354.40	37.99
30588	C18H16N2	N,N'-diphenyl-p-phenylenediamine	74-31-7	80.115	906.00	1.2222	409.00	906.00	2	409.00	38.46
30714	C18H20	1,1-diphenyl-1-hexene	1530-19-4	59.266	803.60	1.2222	261.01	803.60	2	298.15	33.63
30715	C18H20	2,4-diphenyl-4-methyl-1-pentene	6362-80-7	56.336	803.60	1.2222	261.01	803.60	2	298.15	31.97
30777	C18H22	2,2',4,4',6,6'-hexamethyl-1,1'-biphenyl	4482-03-5	72.439	809.61	1.2222	376.65	607.21	2	376.65	33.71
30778	C18H22	1,1-diphenylhexane	1530-04-7	63.228	794.40	1.2222	261.61	794.40	2	298.15	35.58
30779	C18H22	2,3-dimethyl-2,3-diphenylbutane	1889-67-4	62.772	805.00	1.2222	392.15	805.00	2	392.15	27.75
30782	C18H22	4-hexylbiphenyl	59662-31-6	71.385	842.12	1.2222	304.10	631.59	2	304.10	41.29
30806	C18H22O2	dicumyl peroxide	80-43-3	73.595	884.00	1.2222	311.15	884.00	2	311.15	43.31
30836	C18H24	1-octylnaphthalene	2876-51-9	60.167	821.26	1.2222	271.15	821.26	2	298.15	34.67
30837	C18H24	2-octylnaphthalene	2876-44-0	59.802	825.21	1.2222	285.15	825.21	2	298.15	34.57
30838	C18H24	2,6-bis(1,1-dimethylethyl)-naphthalene	3905-64-4	61.302	823.23	1.2222	419.05	823.23	2	419.05	25.70
30899	C18H26O4	dipentyl phthalate	131-18-0	51.648	862.15	1.2222	278.15	646.61	1,2	298.15	30.75
30913	C18H28	1-octyl-[1,2,3,4-tetrahydronaphthalene]	29138-91-8	55.707	797.31	1.2222	311.19	797.31	2	311.19	30.43
30914	C18H28	2-octyl-[1,2,3,4-tetrahydronaphthalene]	66553-10-4	55.343	802.56	1.2222	311.19	802.56	2	311.19	30.38
30947	C18H30	dodecylbenzene	123-01-3	55.893	774.26	1.2222	275.93	774.26	2	298.15	30.85
30948	C18H30	hexaethylbenzene	604-88-6	57.517	734.78	1.2222	401.16	734.78	2	401.16	21.91

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
30949	C18H30	1,2,4,5-tetraisopropylbenzene	635-11-0	55.316	754.52	1.2222	391.55	754.52	2	391.55	22.62
30950	C18H30	7,11-octadecadiyne	103697-14-9	56.615	809.82	1.2222	283.15	607.36	2	298.15	32.30
30952	C18H30	1,3,5-tri-tert-butylbenzene	1460-02-2	55.048	754.52	1.2222	344.65	754.52	2	344.65	26.11
30953	C18H30	1,2,4-tri-tert-butylbenzene	1459-11-6	56.264	754.52	1.2222	321.15	754.52	2	321.15	28.57
30960	C18H30O	2,4,6-tri-tert-butylphenol	732-26-3	59.496	770.00	1.2222	404.15	770.00	2	404.15	23.96
30961	C18H30O	4-sec-butyl-2,6-di-tert-butylphenol	17540-75-9	58.897	770.00	1.2222	298.15	770.00	2	298.15	32.37
30962	C18H30O	4-dodecylphenol	104-43-8	58.303	770.00	1.2222	351.15	770.00	2	351.15	27.70
30963	C18H30O	dodecylphenols	27193-86-8	58.897	770.00	1.2222	351.15	770.00	2	351.15	27.98
30991	C18H32O2	linoleic acid	60-33-3	63.577	775.00	1.2222	268.15	775.00	2	298.15	35.12
31013	C18H34	9-octadecyne	35365-59-4	55.808	754.15	1.2222	274.65	754.15	2	298.15	30.17
31014	C18H34	1-octadecyne	629-89-0	56.017	747.33	1.2222	300.16	747.33	2	300.16	29.90
31015	C18H34	2-octadecyne	61847-97-0	55.341	764.58	1.2222	303.15	764.58	2	303.15	29.85
31016	C18H34	3-octadecyne	61886-64-4	55.853	750.52	1.2222	275.55	750.52	2	298.15	30.08
31017	C18H34	1,1-dicyclohexylhexane	55030-20-1	54.433	783.63	1.2222	282.05	783.63	2	298.15	30.32
31018	C18H34	1-tridecylcyclopentene	62184-78-5	38.317	749.34	1.2222	268.21	749.34	2	298.15	20.61
31030	C18H34O2	oleic acid	112-80-1	48.165	936.00	1.0386	286.53	936.00	1,2	298.15	32.34
31031	C18H34O2	elaidic acid	112-79-8	52.260	936.00	1.2222	318.15	936.00	2	318.15	31.46
31032	C18H34O2	trans-2-octadecenoic acid	2825-79-8	52.260	936.00	1.2222	331.65	936.00	2	331.65	30.62
31033	C18H34O2	trans-11-octadecenoic acid	693-72-1	52.260	936.00	1.2222	317.15	936.00	2	317.15	31.52
31034	C18H34O2	petroselinic acid	593-39-5	51.348	966.00	1.2222	302.30	966.00	2	302.30	32.46
31041	C18H34O4	dibutyl sebacate	109-43-3	58.834	768.00	1.2222	263.95	768.00	2	298.15	32.27
31042	C18H34O4	dihexyl adipate	110-33-8	58.701	767.00	1.2222	259.35	767.00	2	298.15	32.16
31054	C18H35Br	cis-1-bromo-1-octadecene	66292-44-2	58.016	783.30	1.2222	346.84	783.30	2	346.84	28.39
31055	C18H35Br	trans-1-bromo-1-octadecene	66292-45-3	58.016	783.30	1.2222	346.84	783.30	2	346.84	28.39
31057	C18H35Br3	1,1,1-tribromooctadecane	62127-74-6	83.231	856.21	1.2222	473.94	856.21	2	473.94	31.06
31058	C18H35Cl	cis-1-chloro-1-octadecene	66292-46-4	59.109	794.17	1.2222	316.96	794.17	2	316.96	31.72
31059	C18H35Cl	trans-1-chloro-1-octadecene	66292-47-5	59.109	794.17	1.2222	316.96	794.17	2	316.96	31.72
31061	C18H35Cl3	1,1,1-trichlorooctadecane	62108-62-7	68.476	819.70	1.2222	384.30	819.70	2	384.30	31.60
31062	C18H35F	cis-1-fluoro-1-octadecene	66292-48-6	48.663	773.26	1.2222	319.19	773.26	2	319.19	25.39
31063	C18H35F	trans-1-fluoro-1-octadecene	66292-49-7	48.663	773.26	1.2222	319.19	773.26	2	319.19	25.39
31064	C18H35F3	1,1,1-trifluorooctadecane	1511-82-6	50.648	722.30	1.2222	390.99	722.30	2	390.99	19.54
31065	C18H35I	cis-1-iodo-1-octadecene	66292-50-0	55.687	812.93	1.2222	345.10	812.93	2	345.10	28.34
31066	C18H35I	trans-1-iodo-1-octadecene	66292-51-1	55.687	812.93	1.2222	345.10	812.93	2	345.10	28.34
31067	C18H35I3	1,1,1-triiodooctadecane	---	56.992	1112.75	1.2222	468.72	1112.75	2	468.72	29.21
31069	C18H35N	octadecanenitrile	638-65-3	54.957	790.72	1.2222	314.65	790.72	2	314.65	29.56
31071	C18H36	1-octadecene	112-88-9	57.541	748.00	1.4107	290.76	748.00	1,2	298.15	28.08
31072	C18H36	9-octadecene	5557-31-3	53.302	746.71	1.2222	242.65	746.71	2	298.15	28.59
31073	C18H36	2-methyl-1-heptadecene	42764-74-9	53.097	745.42	1.2222	281.65	745.42	2	298.15	28.44
31074	C18H36	tridecylcyclopentane	6006-34-4	59.433	766.47	1.2222	278.16	766.47	2	298.15	32.55
31075	C18H36	dodecylcyclohexane	1795-17-1	57.813	772.83	1.2222	258.80	772.83	2	298.15	31.86
31076	C18H36	cyclooctadecane	296-18-4	46.050	824.69	1.2222	345.15	824.69	2	345.15	23.74
31079	C18H36Br2	1,1-dibromooctadecane	62168-35-8	70.214	828.45	1.2222	396.72	828.45	2	396.72	31.66
31080	C18H36Cl2	1,1-dichlorooctadecane	62017-20-3	72.405	803.67	1.2222	336.96	803.67	2	336.96	37.26
31083	C18H36F2	1,1-difluorooctadecane	62127-07-5	56.518	734.40	1.2222	341.42	734.40	2	341.42	26.32
31084	C18H36I2	1,1-diiodooctadecane	66292-27-1	62.344	998.46	1.2222	393.24	998.46	2	393.24	33.81
31090	C18H36O	octadecanal	638-66-4	60.459	762.31	1.2222	316.15	762.31	2	316.15	31.41
31091	C18H36O	2-octadecanone	7373-13-9	55.275	758.47	1.2222	325.15	758.47	2	325.15	27.89
31092	C18H36O	3-octadecanone	18261-92-2	55.343	758.47	1.2222	324.15	758.47	2	324.15	28.00
31094	C18H36O	cis-9-octadecen-1-ol	143-28-2	48.982	755.00	0.8000	279.65	755.00	2	298.15	32.77
31095	C18H36O	trans-9-octadecen-1-ol	506-42-3	48.932	755.00	0.8000	309.65	755.00	2	309.65	32.08
31097	C18H36O2	octadecanoic acid	57-11-4	56.263	799.00	1.2222	342.75	799.00	2	342.75	28.37
31098	C18H36O2	2-octyldecanoic acid	619-39-6	57.182	799.00	1.2222	311.65	799.00	2	311.65	31.25
31099	C18H36O2	heptadecyl formate	66292-28-2	65.421	766.30	1.2222	350.82	766.30	2	350.82	30.96
31100	C18H36O2	hexadecyl acetate	629-70-9	59.741	762.50	1.2222	297.35	762.50	2	298.15	32.58
31101	C18H36O2	pentadecyl propanoate	66292-29-3	62.620	764.50	1.2222	334.45	764.50	2	334.45	31.00
31102	C18H36O2	tetradecyl butanoate	6221-98-3	59.820	764.20	1.2222	334.45	764.20	2	334.45	29.60
31103	C18H36O2	ethyl palmitate	628-97-7	60.604	746.00	1.2222	298.00	746.00	1,2	298.15	32.48
31104	C18H36O2	methyl heptadecanoate	1731-92-6	60.108	746.00	1.2222	303.15	746.00	2	303.15	31.78
31105	C18H36O2	n-butyl myristate	110-36-1	60.108	746.00	1.2222	279.95	746.00	2	298.15	32.22
31113	C18H36S	thiacyclononadecane	296-47-9	47.834	859.18	1.2222	341.43	859.18	2	341.43	25.76
31115	C18H37Br	1-bromooctadecane	112-89-0	58.017	795.03	1.2222	301.35	795.03	2	301.35	32.41
31116	C18H37Cl	1-chlorooctadecane	3386-33-2	56.534	783.25	1.2222	301.75	783.25	2	301.75	31.19
31118	C18H37F	1-fluorooctadecane	1649-73-6	71.707	737.10	1.2222	302.15	737.10	2	302.15	37.63
31119	C18H37I	1-iodooctadecane	629-93-6	56.126	808.59	1.2222	307.15	808.59	2	307.15	31.30
31124	C18H37NO2	1-nitrooctadecane	66292-30-6	57.139	801.56	1.2222	435.73	801.56	2	435.73	21.91
31131	C18H38	octadecane	593-45-3	57.460	745.26	1.4092	301.50	745.26	1,2	301.50	27.67
31132	C18H38	9-methylheptadecane	18869-72-2	52.257	737.16	1.2222	277.73	737.16	2	298.15	27.74
31133	C18H38	2-methylheptadecane	1560-89-0	52.254	739.33	1.2222	279.15	739.33	2	298.15	27.80
31134	C18H38	3-methylheptadecane	6418-44-6	52.223	740.59	1.2222	266.95	740.59	2	298.15	27.82
31135	C18H38	2,2-dimethylhexadecane	19486-08-9	52.207	734.97	1.2222	294.54	734.97	2	298.15	27.64
31136	C18H38	2,3-dimethylhexadecane	61868-02-8	52.094	742.82	1.2222	262.12	742.82	2	298.15	27.82
31137	C18H38	2,4-dimethylhexadecane	61868-08-4	52.668	720.01	1.2222	262.12	720.01	2	298.15	27.40
31140	C18H38O	1-octadecanol	112-92-5	48.294	777.00	0.8000	331.05	777.00	2	331.05	30.97
31141	C18H38O	2-octadecanol	593-32-8	48.607	773.90	0.8000	325.15	773.90	2	325.15	31.43
31142	C18H38O	3-octadecanol, (±)	111897-18-8	48.206	775.45	0.8000	324.15	775.45	2	324.15	31.26
31143	C18H38O	dinonyl ether	2456-27-1	54.402	736.00	1.2222	314.35	736.00	2	314.35	27.54
31144	C18H38O2	1,2-octadecanediol	20294-76-2	97.745	814.33	1.2222	354.15	814.33	2	354.15	48.66
31145	C18H38O2	1,3-octadecanediol	---	97.345	827.80	1.2222	398.76	827.80	2	398.76	43.60
31146	C18H38O2	1,4-octadecanediol	---	96.696	853.51	1.2222	398.76	853.51	2	398.76	44.79
31147	C18H38O2	1,18-octadecanediol	3155-43-9	97.077	837.63	1.2222	364.15	837.63	2	364.15	48.34

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
31149	C18H38S	1-octadecanethiol	2885-00-9	56.429	795.36	1.2222	300.93	795.36	2	300.93	31.56
31150	C18H38S	2-octadecanethiol	62155-06-0	56.743	787.00	1.2222	299.15	787.00	2	299.15	31.63
31151	C18H38S	2-thianonadecane	62155-11-7	56.971	790.00	1.2222	298.15	790.00	2	298.15	31.92
31152	C18H38S	dinonyl sulfide	929-98-6	52.746	810.53	1.2222	298.16	810.53	2	298.16	30.11
31153	C18H38S	methyl heptadecyl sulfide	---	52.746	810.53	1.2222	298.16	810.53	2	298.16	30.11
31154	C18H38S	ethyl hexadecyl sulfide	66292-31-7	52.746	810.53	1.2222	298.16	810.53	2	298.16	30.11
31155	C18H38S	propyl pentadecyl sulfide	66292-32-8	52.746	810.53	1.2222	298.16	810.53	2	298.16	30.11
31156	C18H38S	butyl tetradecyl sulfide	66292-33-9	52.746	810.53	1.2222	298.16	810.53	2	298.16	30.11
31157	C18H38S2	dinonyl disulfide	4485-77-2	50.152	802.30	1.2222	252.16	802.30	2	298.15	28.42
31162	C18H39N	octadecylamine	124-30-1	61.438	777.40	1.2222	326.23	777.40	2	326.23	31.60
31163	C18H39N	methylheptadecylamine	66292-34-0	55.207	755.10	1.2222	298.15	755.10	2	298.15	29.88
31164	C18H39N	ethylhexadecylamine	5877-76-9	55.266	754.80	1.2222	298.15	754.80	2	298.15	29.90
31165	C18H39N	dinonylamine	2044-21-5	54.839	761.50	1.2222	298.15	761.50	2	298.15	29.88
31166	C18H39N	dimethylhexadecylamine	112-69-6	51.788	760.90	1.2222	285.15	760.90	2	298.15	28.20
31167	C18H39N	diethyltetradecylamine	7307-58-6	52.835	723.91	1.2222	285.15	723.91	2	298.15	27.62
31168	C18H39N	trihexylamine	102-86-3	54.328	673.74	1.2222	285.15	673.74	2	298.15	26.60
31477	C19H22	1,1-diphenyl-1-heptene	1530-20-7	57.995	817.04	1.2222	255.91	817.04	2	298.15	33.30
31535	C19H24	1,1-diphenylheptane	1530-05-8	62.378	802.70	1.2222	286.15	802.70	2	298.15	35.36
31568	C19H26	1-nonylnaphthalene	26438-26-6	58.080	849.00	1.2222	284.15	849.00	2	298.15	34.23
31569	C19H26	2-nonylnaphthalene	61886-67-7	58.597	834.22	1.2222	284.15	834.22	2	298.15	34.13
31621	C19H30	1-nonyl-[1,2,3,4-tetrahydronaphthalene]	33425-49-9	54.979	805.45	1.2222	322.46	805.45	2	322.46	29.43
31622	C19H30	2-nonyl-[1,2,3,4-tetrahydronaphthalene]	26437-45-6	54.717	809.34	1.2222	322.46	809.34	2	322.46	29.40
31641	C19H31Cl	dodecylbenzyl chloride	28061-21-4	66.866	823.60	1.2222	283.15	617.70	2	298.15	38.61
31646	C19H32	tridecylbenzene	123-02-4	55.757	783.00	1.2222	283.15	783.00	2	298.15	31.04
31647	C19H32	(1-hexylheptyl)benzene	2400-01-3	55.757	783.00	1.2222	244.95	783.00	2	298.15	31.04
31670	C19H36	1-nonadecyne	26186-01-6	55.718	758.94	1.2222	306.16	758.94	2	306.16	29.64
31671	C19H36	2-nonadecyne	61847-98-1	55.069	775.87	1.2222	409.49	775.87	2	409.49	22.01
31672	C19H36	3-nonadecyne	61886-65-5	55.618	760.66	1.2222	409.49	760.66	2	409.49	21.62
31673	C19H36	1,1-dicyclohexylheptane	2090-15-5	53.723	790.20	1.2222	318.15	790.20	2	318.15	28.62
31674	C19H36	1-tetradecylcyclopentene	62184-79-6	37.893	757.98	1.2222	279.48	757.98	2	298.15	20.57
31675	C19H36O2	methyl oleate	112-62-9	55.716	764.00	1.2222	293.05	764.00	2	298.15	30.44
31678	C19H37Br	cis-1-bromo-1-nonadecene	66359-51-1	58.099	794.49	1.2222	358.11	794.49	2	358.11	27.93
31679	C19H37Br	trans-1-bromo-1-nonadecene	66359-52-2	58.099	794.49	1.2222	358.11	794.49	2	358.11	27.93
31680	C19H37Br3	1,1,1-tribromononadecane	62127-75-7	83.017	864.19	1.2222	485.21	864.19	2	485.21	30.31
31681	C19H37Cl	cis-1-chloro-1-nonadecene	66359-53-3	58.792	805.20	1.2222	328.23	805.20	2	328.23	31.00
31682	C19H37Cl	trans-1-chloro-1-nonadecene	66359-54-4	58.792	805.20	1.2222	328.23	805.20	2	328.23	31.00
31683	C19H37Cl3	1,1,1-trichlorononadecane	62108-63-8	68.131	830.05	1.2222	395.57	830.05	2	395.57	30.88
31684	C19H37F	cis-1-fluoro-1-nonadecene	66359-55-5	48.291	796.80	1.2222	330.46	796.80	2	330.46	25.09
31685	C19H37F	trans-1-fluoro-1-nonadecene	66359-56-6	48.291	796.80	1.2222	330.46	796.80	2	330.46	25.09
31686	C19H37F3	1,1,1-trifluorononadecane	62126-85-6	50.692	733.20	1.2222	402.26	733.20	2	402.26	19.17
31687	C19H37I	cis-1-iodo-1-nonadecene	66359-57-7	55.478	822.45	1.2222	356.37	822.45	2	356.37	27.71
31688	C19H37I	trans-1-iodo-1-nonadecene	66359-58-8	55.478	822.45	1.2222	356.37	822.45	2	356.37	27.71
31689	C19H37I3	1,1,1-triiododononadecane	---	55.975	1134.48	1.2222	479.99	1134.48	2	479.99	28.58
31690	C19H37N	nonadecanenitrile	28623-46-3	54.786	801.62	1.2222	315.85	801.62	2	315.85	29.70
31695	C19H38	tetradecylcyclopentane	1795-22-8	59.717	772.00	1.2222	282.00	772.00	2	298.15	32.89
31696	C19H38	tridecylcyclohexane	6006-33-3	57.819	783.38	1.2222	291.66	783.38	2	298.15	32.20
31697	C19H38	cyclononadecane	296-44-6	44.982	834.39	1.2222	269.25	834.39	2	298.15	26.20
31698	C19H38	1-nonadecene	18435-45-5	57.565	760.00	1.4170	296.55	760.00	1,2	298.15	28.42
31699	C19H38	2-methyl-1-octadecene	61868-20-0	52.999	757.46	1.2222	287.15	757.46	2	298.15	28.76
31700	C19H38Br2	1,1-dibromononadecane	62168-36-9	69.951	837.69	1.2222	407.99	837.69	2	407.99	30.93
31701	C19H38Cl2	1,1-dichlorononadecane	62017-21-4	72.028	814.08	1.2222	348.23	814.08	2	348.23	36.41
31702	C19H38F2	1,1-difluorononadecane	62127-08-6	56.436	744.50	1.2222	352.69	744.50	2	352.69	25.75
31703	C19H38I2	1,1-diiodononadecane	66359-60-2	61.054	1021.00	1.2222	404.51	1021.00	2	404.51	32.96
31704	C19H38O	nonadecanal	17352-32-8	60.062	774.21	1.2222	317.15	774.21	2	317.15	31.54
31705	C19H38O	2-nonadecanone	629-66-3	55.327	766.51	1.2222	329.15	766.51	2	329.15	27.87
31706	C19H38O	10-nonadecanone	504-57-4	55.506	766.51	1.2222	338.65	766.51	2	338.65	27.22
31708	C19H38O2	nonadecanoic acid	646-30-0	56.297	810.00	1.2222	341.23	810.00	2	341.23	28.85
31709	C19H38O2	14-methyloctadecanoic acid	94434-64-7	58.039	810.00	1.2222	310.65	810.00	2	310.65	32.13
31710	C19H38O2	17-methyloctadecanoic acid	2724-59-6	58.039	810.00	1.2222	340.65	810.00	2	340.65	29.79
31711	C19H38O2	9-methyloctadecanoic acid	86073-38-3	58.039	810.00	1.2222	313.15	810.00	2	313.15	31.94
31712	C19H38O2	octadecyl formate	5451-75-2	65.851	774.90	1.2222	362.09	774.90	2	362.09	30.50
31713	C19H38O2	heptadecyl acetate	822-20-8	59.884	771.30	1.2222	303.39	771.30	2	303.39	32.51
31714	C19H38O2	hexadecyl propanoate	6221-96-1	63.003	773.50	1.2222	345.72	773.50	2	345.72	30.55
31715	C19H38O2	pentadecyl butanoate	125164-51-4	60.179	773.30	1.2222	345.72	773.30	2	345.72	29.17
31716	C19H38O2	ethyl heptadecanoate	14010-23-2	60.295	759.00	1.2222	301.15	759.00	2	301.15	32.51
31717	C19H38O2	isopropyl palmitate	142-91-6	60.295	759.00	1.2222	286.65	759.00	2	298.15	32.77
31718	C19H38O2	propyl palmitate	2239-78-3	60.295	759.00	1.2222	293.55	759.00	2	298.15	32.77
31719	C19H38O2	methyl stearate	112-61-8	55.659	759.00	1.2222	290.00	759.00	1,2	298.15	30.25
31726	C19H38S	thiacycloeicosane	66359-61-3	46.638	865.90	1.2222	349.18	865.90	2	349.18	24.81
31727	C19H39Br	1-bromononadecane	4434-66-6	58.117	805.31	1.2222	311.65	805.31	2	311.65	31.96
31728	C19H39Cl	1-chlorononadecane	62016-76-6	56.287	792.26	1.2222	308.85	792.26	2	308.85	30.77
31729	C19H39F	1-fluorononadecane	1480-63-3	72.513	747.30	1.2222	312.15	747.30	2	312.15	37.44
31730	C19H39I	1-iodononadecane	62127-51-9	55.775	820.94	1.2222	315.15	820.94	2	315.15	30.86
31732	C19H39NO2	1-nitrononadecane	66359-36-2	56.945	810.40	1.2222	447.00	810.40	2	447.00	21.37
31733	C19H40	7-hexyltridecane	7225-66-3	52.002	748.87	1.2222	244.85	748.87	2	298.15	27.96
31734	C19H40	2,6,10,14-tetramethylpentadecane	1921-70-6	51.012	748.87	1.2222	280.65	748.87	2	298.15	27.43
31735	C19H40	nonadecane	629-92-5	56.440	755.93	1.3820	305.33	755.93	1,2	305.33	27.61
31736	C19H40	2-methyloctadecane	1560-88-9	52.134	751.64	1.2222	288.15	751.64	2	298.15	28.11
31737	C19H40	3-methyloctadecane	6561-44-0	52.105	752.90	1.2222	273.65	752.90	2	298.15	28.14
31738	C19H40	2,2-dimethylheptadecane	53594-82-4	52.115	746.87	1.2222	305.81	746.87	2	305.81	27.38

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
31739	C19H40	2,3-dimethylheptadecane	61868-03-9	51.995	754.89	1.2222	273.39	754.89	2	298.15	28.14
31740	C19H40	2,4-dimethylheptadecane	61868-09-5	52.577	730.99	1.2222	273.39	730.99	2	298.15	27.71
31742	C19H40O	1-nonadecanol	1454-84-8	49.157	775.30	0.8000	334.87	775.30	2	334.87	31.27
31743	C19H40O	2-nonadecanol	26533-36-8	48.789	782.80	0.8000	325.15	782.80	2	325.15	31.76
31744	C19H40O2	1,2-nonadecanediol	39516-65-9	97.218	831.78	1.2222	410.03	831.78	2	410.03	42.39
31745	C19H40O2	1,3-nonadecanediol	66359-38-4	96.872	845.25	1.2222	348.15	845.25	2	348.15	50.63
31746	C19H40O2	1,4-nonadecanediol	---	96.323	870.97	1.2222	410.03	870.97	2	410.03	44.25
31747	C19H40O2	1,19-nonanecanediol	---	96.622	855.38	1.2222	425.03	855.38	2	425.03	41.73
31750	C19H40S	1-nonadecanethiol	62155-07-1	56.161	805.29	1.2222	307.04	805.29	2	307.04	31.23
31751	C19H40S	2-nonadecanethiol	---	56.570	795.00	1.2222	304.15	795.00	2	304.15	31.38
31752	C19H40S	methyl octadecyl sulfide	40289-98-3	52.661	821.75	1.2222	303.16	821.75	2	303.16	30.00
31753	C19H40S	ethyl heptadecyl sulfide	66359-40-8	52.661	821.75	1.2222	303.16	821.75	2	303.16	30.00
31754	C19H40S	propyl hexadecyl sulfide	66359-41-9	52.661	821.75	1.2222	303.16	821.75	2	303.16	30.00
31755	C19H40S	butyl pentadecyl sulfide	66359-42-0	52.661	821.75	1.2222	303.16	821.75	2	303.16	30.00
31756	C19H41N	nonadecylamine	14130-05-3	61.469	786.30	1.2222	325.15	786.30	2	325.15	32.02
31757	C19H41N	methyloctadecylamine	2439-55-6	55.199	764.50	1.2222	315.15	764.50	2	315.15	28.83
31758	C19H41N	ethylheptadecylamine	66359-43-1	55.227	764.70	1.2222	315.15	764.70	2	315.15	28.85
31759	C19H41N	dimethylheptadecylamine	3002-57-1	51.819	770.60	1.2222	290.00	770.60	2	298.15	28.50
31760	C19H41N	diethylpentadecylamine	36555-73-4	52.683	735.67	1.2222	290.00	735.67	2	298.15	27.91
31976	C20H16	triphenylethylene	58-72-0	63.052	908.00	1.2222	342.15	908.00	2	342.15	35.37
32214	C20H24	1,1-diphenyl-1-octene	1530-21-8	56.671	828.02	1.2222	250.81	828.02	2	298.15	32.84
32259	C20H26	1,1-diphenyloctane	1530-06-9	61.633	810.00	1.2222	269.15	810.00	2	298.15	35.17
32260	C20H26	2,5-dimethyl-2,5-diphenylhexane	17648-05-4	61.633	810.00	1.2222	334.95	810.00	2	334.95	32.10
32261	C20H26	4,4'-di-tert-butyl-biphenyl	1625-91-8	70.246	879.19	1.2222	396.60	659.39	2	396.60	33.75
32262	C20H26	3,4-dimethyl-3,4-diphenylhexane	10192-93-5	61.633	810.00	1.2222	302.05	810.00	2	302.05	34.84
32302	C20H28	1-decylnaphthalene	26438-27-7	57.852	838.67	1.2222	288.15	838.67	2	298.15	33.82
32303	C20H28	2-decylnaphthalene	14188-79-5	57.403	843.81	1.2222	296.15	843.81	2	298.15	33.69
32346	C20H30O2	abietic acid	514-10-3	64.013	832.00	1.2222	446.65	832.00	2	446.65	24.99
32358.1	C20H30O2	isopimaric acid	5835-26-7	73.393	807.10	1.1180	435.65	807.10	2	435.65	30.82
32367	C20H31N	dehydroabietylamine	1446-61-3	58.991	863.00	1.2222	317.65	863.00	2	317.65	33.66
32376	C20H32	1-decyl-[1,2,3,4-tetrahydronaphthalene]	55255-57-7	54.244	814.16	1.2222	333.73	814.16	2	333.73	28.47
32377	C20H32	2-decyl-[1,2,3,4-tetrahydronaphthalene]	66455-67-2	54.076	816.73	1.2222	333.73	816.73	2	333.73	28.46
32391.1	C20H32O2	isoagatholal	17990-11-3	46.913	790.00	1.1778	325.00	790.00	2	325.00	25.13
32399	C20H34	1-phenyltetradecane	1459-10-5	55.599	792.00	1.2222	289.16	792.00	2	298.15	31.21
32407.1	C20H34O2	agathadiol	1857-24-5	61.019	790.00	1.2222	379.55	790.00	2	379.55	27.41
32436	C20H38	1-eicosyne	765-27-5	55.427	769.79	1.2222	309.16	769.79	2	309.16	29.59
32437	C20H38	2-eicosyne	61847-99-2	54.804	786.42	1.2222	420.76	786.42	2	420.76	21.49
32438	C20H38	3-eicosyne	61886-66-6	55.808	758.74	1.2222	420.76	758.74	2	420.76	20.77
32439	C20H38	1,1-dicyclohexyloctane	62016-87-9	53.001	797.35	1.2222	329.42	797.35	2	329.42	27.63
32440	C20H38	1-pentadecylcyclopentene	62184-80-9	37.464	767.17	1.2222	290.75	767.17	2	298.15	20.53
32445	C20H38O2	cis-9-eicosenoic acid	29204-02-2	52.350	966.00	1.2222	297.65	966.00	2	298.15	33.34
32446	C20H38O2	9-eicosenoic acid	506-31-0	52.350	966.00	1.2222	296.15	966.00	2	298.15	33.34
32447	C20H38O2	11-eicosenoic acid	2462-94-4	52.350	966.00	1.2222	297.15	966.00	2	298.15	33.34
32450	C20H38O2	cis-11-eicosenoic acid	5561-99-9	52.350	966.00	1.2222	296.65	966.00	2	298.15	33.34
32450.1	C20H38O2	cetyl methacrylate	2495-27-4	53.540	793.00	1.2300	288.15	793.00	2	298.15	29.98
32457	C20H39Br	cis-1-bromo-1-eicosene	66455-60-5	58.186	805.01	1.2222	369.38	805.01	2	369.38	27.47
32458	C20H39Br	trans-1-bromo-1-eicosene	66455-61-6	58.186	805.01	1.2222	369.38	805.01	2	369.38	27.47
32459	C20H39Br3	1,1,1-tribromoeicosane	62127-76-8	82.729	874.10	1.2222	496.48	874.10	2	496.48	29.66
32460	C20H39Cl	cis-1-chloro-1-eicosene	66455-62-7	58.489	815.57	1.2222	339.50	815.57	2	339.50	30.29
32461	C20H39Cl	trans-1-chloro-1-eicosene	66455-41-2	58.489	815.57	1.2222	339.50	815.57	2	339.50	30.29
32462	C20H39Cl3	1,1,1-trichloroeicosane	62108-64-9	67.754	841.03	1.2222	406.84	841.03	2	406.84	30.20
32463	C20H39F	cis-1-fluoro-1-eicosene	66455-42-3	46.901	820.75	1.2222	341.73	820.75	2	341.73	24.29
32464	C20H39F	trans-1-fluoro-1-eicosene	66455-43-4	46.901	820.75	1.2222	341.73	820.75	2	341.73	24.29
32465	C20H39F3	1,1,1-trifluoroeicosane	62126-86-7	50.599	743.40	1.2222	413.53	743.40	2	413.53	18.74
32466	C20H39I	cis-1-iodo-1-eicosene	66455-45-6	55.256	832.59	1.2222	367.64	832.59	2	367.64	27.11
32467	C20H39I	trans-1-iodo-1-eicosene	66455-44-5	55.256	832.59	1.2222	367.64	832.59	2	367.64	27.11
32468	C20H39I3	1,1,1-triiodoeicosane	---	54.980	1156.96	1.2222	491.26	1156.96	2	491.26	27.98
32469	C20H39N	eicosanenitrile	4616-73-3	54.606	813.13	1.2222	323.75	813.13	2	323.75	29.36
32473	C20H40	pentadecylcyclopentane	4669-01-6	59.806	780.00	1.2222	290.00	780.00	2	298.15	33.20
32474	C20H40	tetradecylcyclohexane	1795-18-2	57.827	792.82	1.2222	297.16	792.82	2	298.15	32.49
32475	C20H40	cycloeicosane	296-56-0	43.937	842.81	1.2222	277.00	842.81	2	298.15	25.77
32476	C20H40	1-eicosene	3452-07-1	57.948	771.00	1.4355	301.76	771.00	1,2	301.76	28.41
32476.1	C20H40	trans-2-eicosene	42448-85-1	121.450	745.00	1.3622	285.00	745.00	2	298.15	60.53
32477	C20H40	2-methyl-1-nonadecene	52254-50-9	52.901	768.75	1.2222	292.65	768.75	2	298.15	29.04
32479	C20H40Br2	1,1-dibromoeicosane	62168-37-0	69.668	847.57	1.2222	419.26	847.57	2	419.26	30.25
32480	C20H40Cl2	1,1-dichloroeicosane	62017-22-5	71.615	825.11	1.2222	359.50	825.11	2	359.50	35.59
32481	C20H40F2	1,1-difluoroeicosane	62127-09-7	56.387	754.00	1.2222	363.96	754.00	2	363.96	25.19
32482	C20H40I2	1,1-diiodoeicosane	66455-47-8	59.807	1044.20	1.2222	415.78	1044.20	2	415.78	32.15
32486	C20H40O	eicosanal	2400-66-0	59.732	784.21	1.2222	324.15	784.21	2	324.15	31.13
32487	C20H40O	2-eicosanone	29703-52-4	55.378	773.72	1.2222	332.15	773.72	2	332.15	27.90
32489	C20H40O	3,7,11,15-tetramethyl-1-hexadecen-3-ol	505-32-8	59.828	783.00	1.2222	350.00	783.00	2	350.00	29.00
32491	C20H40O2	eicosanoic acid	506-30-9	56.313	822.00	1.2222	348.45	822.00	2	348.45	28.70
32492	C20H40O2	3,7,11,15-tetramethylhexadecanoic acid	14721-66-5	58.303	822.00	1.2222	208.15	822.00	2	298.15	33.62
32493	C20H40O2	nonadecyl formate	66455-49-0	66.331	782.90	1.2222	373.36	782.90	2	373.36	30.05
32494	C20H40O2	octadecyl acetate	822-23-1	60.043	779.60	1.2222	305.99	779.60	2	305.99	32.65
32495	C20H40O2	heptadecyl propanoate	---	63.430	782.00	1.2222	356.99	782.00	2	356.99	30.11
32496	C20H40O2	hexadecyl butanoate	6221-99-4	60.587	781.80	1.2222	356.99	781.80	2	356.99	28.75
32497	C20H40O2	decyl decanoate	1654-86-0	60.108	772.00	1.2222	282.85	772.00	2	298.15	33.10
32498	C20H40O2	butyl palmitate	111-06-8	60.108	772.00	1.2222	290.05	772.00	2	298.15	33.10
32499	C20H40O2	ethyl stearate	111-61-5	60.108	772.00	1.2222	306.15	772.00	2	306.15	32.42

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
32500	C20H40O2	methyl nonadecanoate	1731-94-8	60.108	772.00	1.2222	314.45	772.00	2	314.45	31.72
32504	C20H40S	thiacycloheneicosane	42425-07-0	45.499	872.75	1.2222	356.93	872.75	2	356.93	23.93
32505	C20H41Br	1-bromoeicosane	4276-49-7	58.205	816.19	1.2222	310.05	816.19	2	310.05	32.46
32506	C20H41Cl	1-chloroeicosane	42217-02-7	56.051	800.64	1.2222	310.75	800.64	2	310.75	30.75
32507	C20H41F	1-fluoroeicosane	676-44-8	73.256	756.80	1.2222	311.15	756.80	2	311.15	38.35
32508	C20H41I	1-iodoeicosane	34994-81-5	55.419	833.96	1.2222	315.05	833.96	2	315.05	31.03
32511	C20H41NO2	1-nitroeicosane	66455-50-3	56.698	821.10	1.2222	458.27	821.10	2	458.27	20.90
32515	C20H42	eicosane	112-95-8	56.480	767.04	1.3870	308.80	767.04	1,2	308.80	27.64
32516	C20H42	2-methylnonadecane	1560-86-7	52.016	763.21	1.2222	291.45	763.21	2	298.15	28.39
32517	C20H42	3-methylnonadecane	6418-45-7	51.988	764.46	1.2222	281.15	764.46	2	298.15	28.41
32518	C20H42	2,2-dimethyloctadecane	61869-06-5	51.994	759.27	1.2222	317.08	759.27	2	317.08	26.85
32519	C20H42	2,3-dimethyloctadecane	61868-04-0	51.869	767.45	1.2222	284.66	767.45	2	298.15	28.43
32520	C20H42	2,4-dimethyloctadecane	61868-10-8	52.451	742.46	1.2222	284.66	742.46	2	298.15	28.00
32522	C20H42O	1-eicosanol	629-96-9	48.581	792.00	0.8000	338.55	792.00	2	338.55	31.10
32523	C20H42O	2-eicosanol	4340-76-5	48.947	791.20	0.8000	333.15	791.20	2	333.15	31.61
32524	C20H42O	didecyl ether	2456-28-2	54.682	730.80	1.2222	257.15	730.80	2	298.15	28.81
32525	C20H42O	2-octyl-1-dodecanol	5333-42-6	48.255	791.60	0.8000	273.20	791.60	2	298.15	33.06
32526	C20H42O2	1,2-eicosanediol	39825-93-9	96.705	849.99	1.2222	358.15	849.99	2	358.15	49.55
32527	C20H42O2	1,3-eicosanediol	---	96.412	863.48	1.2222	421.30	863.48	2	421.30	42.55
32528	C20H42O2	1,4-eicosanediol	---	95.960	889.23	1.2222	421.30	889.23	2	421.30	43.78
32529	C20H42O2	1,20-eicosanediol	---	96.180	873.91	1.2222	436.30	873.91	2	436.30	41.30
32537	C20H42S	1-eicosanethiol	13373-97-2	55.905	814.57	1.2222	310.37	814.57	2	310.37	31.11
32538	C20H42S	2-eicosanethiol	62155-08-2	56.389	803.00	1.2222	308.15	803.00	2	308.15	31.21
32539	C20H42S	didecyl sulfide	693-83-4	52.621	832.33	1.2222	308.16	832.33	2	308.16	29.90
32540	C20H42S	methyl nonadecyl sulfide	62155-12-8	52.621	832.33	1.2222	308.16	832.33	2	308.16	29.90
32541	C20H42S	ethyl octadecyl sulfide	41947-84-6	52.621	832.33	1.2222	308.16	832.33	2	308.16	29.90
32542	C20H42S	propyl heptadecyl sulfide	66455-35-4	52.621	832.33	1.2222	308.16	832.33	2	308.16	29.90
32543	C20H42S	butyl hexadecyl sulfide	18437-89-3	52.621	832.33	1.2222	308.16	832.33	2	308.16	29.90
32544	C20H42S2	didecyl disulfide	10496-18-1	49.021	820.08	1.2222	259.16	820.08	2	298.15	28.22
32546	C20H43N	eicosylamine	10525-37-8	61.537	794.60	1.2222	332.15	794.60	2	332.15	31.75
32547	C20H43N	methylnonadecylamine	66455-36-5	55.178	773.40	1.2222	311.15	773.40	2	311.15	29.41
32548	C20H43N	ethyloctadecylamine	7317-85-3	55.228	773.90	1.2222	309.15	773.90	2	309.15	29.61
32549	C20H43N	didecylamine	1120-49-6	54.700	782.30	1.2222	307.15	782.30	2	307.15	29.74
32550	C20H43N	dimethyloctadecylamine	124-28-7	51.802	779.70	1.2222	296.04	779.70	2	298.15	28.74
32551	C20H43N	diethylhexadecylamine	30951-88-3	52.533	746.71	1.2222	280.15	746.71	2	298.15	28.18
32860	C21H26	1,1-diphenyl-1-nonene	1530-26-3	55.260	835.60	1.2222	245.71	835.60	2	298.15	32.22
32914	C21H28	1,1-diphenylnonane	1726-13-2	60.975	816.50	1.2222	288.15	816.50	2	298.15	34.99
32944	C21H30	1-undecylnaphthalene	7225-71-0	56.868	846.34	1.2222	296.15	846.34	2	298.15	33.45
32945	C21H30	2-undecylnaphthalene	61886-68-8	56.327	852.71	1.2222	293.15	852.71	2	298.15	33.29
32998	C21H36	pentadecylbenzene	2131-18-2	55.488	800.00	1.2222	295.16	800.00	2	298.15	31.38
33021	C21H40	1,1-dicyclohexylnonane	62155-19-5	52.269	805.09	1.2222	340.69	805.09	2	340.69	26.68
33022	C21H40	1-hexadecylcyclopentene	62184-81-0	37.083	775.66	1.2222	302.02	775.66	2	302.02	20.29
33023	C21H40	1-heneicosyne	61847-81-2	55.056	782.42	1.2222	314.15	782.42	2	314.15	29.40
33032	C21H41N	heneicosanenitrile	66326-13-4	54.442	824.05	1.2222	324.15	824.05	2	324.15	29.55
33036	C21H42	hexadecylcyclopentane	6812-39-1	59.350	797.25	1.2222	294.16	797.25	2	298.15	33.48
33037	C21H42	pentadecylcyclohexane	6006-95-7	57.794	803.46	1.2222	302.16	803.46	2	302.16	32.47
33038	C21H42	1-heneicosene	1599-68-4	52.844	779.35	1.2222	306.45	779.35	2	306.45	28.70
33039	C21H42Br2	1,1-dibromoheneicosane	62168-38-1	69.367	858.13	1.2222	430.53	858.13	2	430.53	29.61
33040	C21H42Cl2	1,1-dichloroheneicosane	62017-23-6	71.223	835.53	1.2222	370.77	835.53	2	370.77	34.78
33041	C21H42F2	1,1-difluoroheneicosane	62127-10-0	56.704	756.52	1.2222	375.23	756.52	2	375.23	24.54
33042	C21H42I2	1,1-diiodoheneicosane	66326-14-5	58.601	1068.11	1.2222	427.05	1068.11	2	427.05	31.40
33043	C21H42O2	eicosyl formate	66326-15-6	66.856	790.50	1.2222	384.63	790.50	2	384.63	29.60
33044	C21H42O2	nonadecyl acetate	53939-51-8	60.222	787.40	1.2222	310.75	787.40	2	310.75	32.61
33045	C21H42O2	octadecyl propanoate	52663-48-6	63.913	789.90	1.2222	303.95	789.90	2	303.95	35.30
33046	C21H42O2	heptadecyl butanoate	84869-41-0	61.048	789.70	1.2222	368.26	789.70	2	368.26	28.34
33047	C21H42O2	isopropyl stearate	112-10-7	60.611	785.00	1.2222	301.15	785.00	2	301.15	33.55
33048	C21H42O2	propyl stearate	3634-92-2	60.611	785.00	1.2222	302.05	785.00	2	302.05	33.47
33049	C21H42O2	methyl eicosanoate	1120-28-1	60.611	785.00	1.2222	318.56	785.00	2	318.56	32.08
33050	C21H42O2	heneicosanoic acid	2363-71-5	59.531	834.00	1.2222	348.15	834.00	2	348.15	30.76
33051	C21H42O2	isopropyl isostearate	68171-33-5	60.611	785.00	1.2222	307.25	785.00	2	307.25	33.03
33055	C21H43Br	1-bromoheneicosane	4276-50-0	58.288	826.47	1.2222	319.25	826.47	2	319.25	32.09
33056	C21H43Cl	1-chloroheneicosane	66326-16-7	55.741	810.87	1.2222	317.15	810.87	2	317.15	30.40
33057	C21H43F	1-fluoroheneicosane	62126-78-7	73.546	772.53	1.2222	320.15	772.53	2	320.15	38.24
33058	C21H43I	1-iodoheneicosane	62127-52-0	55.091	846.44	1.2222	322.25	846.44	2	322.25	30.67
33059	C21H44	heneicosane	629-94-7	51.829	779.52	1.2222	313.65	779.52	2	313.65	27.63
33062	C21H44O	henicosanol	15594-90-8	48.738	801.60	0.8000	342.65	801.60	2	342.65	31.20
33065	C21H45N	heneicosylamine	14130-15-5	60.529	822.40	1.2222	331.15	822.40	2	331.15	32.24
33066	C21H45N	methyleicosylamine	66326-20-3	54.638	791.58	1.2222	319.15	791.58	2	319.15	29.08
33067	C21H45N	ethylnonadecylamine	66326-79-0	54.564	795.27	1.2222	319.15	795.27	2	319.15	29.15
33068	C21H45N	isopropyloctadecylamine	13329-71-0	54.759	783.99	1.2222	319.15	783.99	2	319.15	28.91
33069	C21H45N	dimethylnonadecylamine	49859-87-2	51.649	791.64	1.2222	300.00	791.64	2	300.00	28.85
33070	C21H45N	diethylheptadecylamine	66326-18-9	52.359	758.30	1.2222	300.00	758.30	2	300.00	28.29
33071	C21H45N	triheptylamine	2411-36-1	52.688	744.72	1.2222	300.00	744.72	2	300.00	28.06
33313	C22H28	1,1-diphenyl-1-decene	1530-27-4	53.835	843.78	1.2222	240.61	843.78	2	298.15	31.60
33343	C22H30	1,1-diphenyldecane	1530-07-0	60.578	822.00	1.2222	276.15	822.00	2	298.15	34.93
33361	C22H32	1-dodecylnaphthalene	26438-28-8	55.882	854.65	1.2222	301.15	854.65	2	301.15	32.86
33362	C22H32	2-dodecylnaphthalene	60899-39-0	55.255	862.23	1.2222	305.15	862.23	2	305.15	32.40
33401	C22H38	1-phenylhexadecane	1459-09-2	55.387	808.00	1.2222	300.16	808.00	2	300.16	31.40
33425	C22H42	1,1-dicyclohexyldecane	62155-20-8	51.616	812.16	1.2222	351.96	812.16	2	351.96	25.78
33426	C22H42	1-docosyne	61847-82-3	54.745	793.12	1.2222	318.15	793.12	2	318.15	29.25

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
33431	C22H42O2	cis-13-docosenoic acid	112-86-7	52.255	996.00	1.2222	307.85	996.00	2	307.85	33.26
33432	C22H42O2	trans-13-docosenoic acid	506-33-2	52.255	996.00	1.2222	335.05	996.00	2	335.05	31.66
33433	C22H42O2	13-docosenoic acid	1072-39-5	52.255	996.00	1.2222	307.85	996.00	2	307.85	33.26
33454	C22H44	heptadecylcyclopentane	62016-52-8	59.265	808.79	1.2222	300.15	808.79	2	300.15	33.62
33455	C22H44	hexadecylcyclohexane	6812-38-0	57.761	813.42	1.2222	306.76	813.42	2	306.76	32.39
33456	C22H44	1-docosene	1599-67-3	52.716	790.73	1.2222	310.95	790.73	2	310.95	28.62
33457	C22H44Br2	1,1-dibromodocosane	62168-39-2	69.088	868.14	1.2222	441.80	868.14	2	441.80	28.97
33458	C22H44Cl2	1,1-dichlorodocosane	62017-24-7	70.803	846.62	1.2222	382.04	846.62	2	382.04	34.00
33459	C22H44F2	1,1-difluorodocosane	62127-11-1	56.524	766.65	1.2222	386.50	766.65	2	386.50	23.98
33460	C22H44I2	1,1-diiododocosane	66326-05-4	57.434	1092.78	1.2222	438.32	1092.78	2	438.32	30.69
33462	C22H44O	cis-13-docosen-1-ol	629-98-1	48.825	811.00	0.8000	308.15	811.00	2	308.15	33.31
33463	C22H44O2	eicosyl acetate	822-24-2	60.018	794.70	1.2222	313.15	794.70	2	313.15	32.54
33464	C22H44O2	nonadecyl propanoate	66326-06-5	64.445	797.30	1.2222	379.53	797.30	2	379.53	29.25
33465	C22H44O2	octadecyl butanoate	13373-83-6	61.550	797.20	1.2222	379.53	797.20	2	379.53	27.93
33466	C22H44O2	butyl stearate	123-95-5	57.292	764.00	1.2222	299.45	764.00	2	299.45	31.19
33467	C22H44O2	isobutyl stearate	646-13-9	61.418	764.00	1.2222	302.05	764.00	2	302.05	33.21
33468	C22H44O2	docosanoic acid	112-85-6	58.315	846.00	1.2222	354.65	846.00	2	354.65	30.02
33469	C22H44O2	ethyl eicosanoate	18281-05-5	61.418	764.00	1.2222	323.15	764.00	2	323.15	31.36
33470	C22H44O2	methyl heneicosanoate	6064-90-0	61.418	764.00	1.2222	322.15	764.00	2	322.15	31.45
33473	C22H45Br	1-bromodocosane	6938-66-5	58.356	837.39	1.2222	317.45	837.39	2	317.45	32.59
33474	C22H45Cl	1-chlorodocosane	42217-03-8	55.405	821.75	1.2222	318.15	821.75	2	318.15	30.45
33475	C22H45F	1-fluorodocosane	62126-79-8	74.090	783.55	1.2222	319.15	783.55	2	319.15	39.09
33476	C22H45I	1-iododocosane	62127-53-1	54.786	858.41	1.2222	321.95	858.41	2	321.95	30.84
33477	C22H46	docosane	629-97-0	51.686	791.32	1.2222	317.55	791.32	2	317.55	27.61
33479	C22H46O	1-docosanol	661-19-8	48.822	811.60	0.8000	345.65	811.60	2	345.65	31.32
33483	C22H47N	docosylamine	14130-06-4	60.381	834.97	1.2222	336.15	834.97	2	336.15	32.17
33484	C22H47N	methylheneicosylamine	66326-08-7	54.477	803.02	1.2222	321.15	803.02	2	321.15	29.18
33485	C22H47N	ethyleicosylamine	66326-07-6	54.409	806.70	1.2222	318.15	806.70	2	318.15	29.48
33486	C22H47N	diundecylamine	16165-33-6	54.454	804.24	1.2222	315.15	804.24	2	315.15	29.65
33487	C22H47N	dimethyleicosylamine	45275-74-9	51.526	802.46	1.2222	306.15	802.46	2	306.15	28.64
33488	C22H47N	diethyloctadecylamine	30427-51-1	52.191	769.24	1.2222	306.15	769.24	2	306.15	28.07
33607	C23H30	1,1-diphenyl-1-undecene	1530-28-5	52.326	850.03	1.2222	235.51	850.03	2	298.15	30.86
33633	C23H32	1,1-diphenylundecane	1530-08-1	59.837	827.90	1.2222	294.15	827.90	2	298.15	34.67
33674	C23H40	heptadecylbenzene	14752-75-1	54.942	823.00	1.2222	305.15	823.00	2	305.15	31.19
33677	C23H44	1,1-dicyclohexylundecane	62155-21-9	51.036	818.57	1.2222	363.23	818.57	2	363.23	24.92
33678	C23H44	1-tricosyne	61847-83-4	54.405	804.42	1.2222	322.15	804.42	2	322.15	29.11
33684	C23H46	octadecylcyclopentane	62016-53-9	59.186	819.70	1.2222	303.15	819.70	2	303.15	33.66
33685	C23H46	heptadecylcyclohexane	19781-73-8	57.707	823.97	1.2222	310.95	823.97	2	310.95	32.34
33686	C23H46	1-tricosene	18835-32-0	52.570	802.72	1.2222	314.75	802.72	2	314.75	28.61
33687	C23H46	cis-9-tricosene	27519-02-4	51.105	802.72	1.2222	273.15	802.72	2	298.15	28.97
33688	C23H46Br2	1,1-dibromotricosane	62168-40-5	68.789	878.87	1.2222	453.07	878.87	2	453.07	28.37
33689	C23H46Cl2	1,1-dichlorotricosane	62017-25-8	70.406	857.18	1.2222	393.31	857.18	2	393.31	33.24
33690	C23H46F2	1,1-difluorotricosane	62127-12-2	56.292	778.63	1.2222	397.77	778.63	2	397.77	23.49
33691	C23H46I2	1,1-diiodotricosane	66325-82-4	56.303	1118.27	1.2222	449.59	1118.27	2	449.59	30.03
33694	C23H46O	12-tricosanone	540-09-0	56.731	794.72	1.2222	343.35	794.72	2	343.35	28.41
33695	C23H46O2	eicosyl propanoate	65591-14-2	65.016	804.30	1.2222	390.80	804.30	2	390.80	28.83
33696	C23H46O2	nonadecyl butanoate	84869-42-1	62.095	804.20	1.2222	390.80	804.20	2	390.80	27.53
33697	C23H46O2	isopentyl stearate	627-88-3	61.730	798.00	1.2222	298.65	798.00	2	298.65	34.81
33698	C23H46O2	pentyl stearate	6382-13-4	50.839	798.00	1.2222	303.15	798.00	1,2	303.15	28.35
33699	C23H46O2	methyl docosanoate	929-77-1	61.730	798.00	1.2222	327.15	798.00	2	327.15	32.39
33700	C23H46O2	tricosanoic acid	2433-96-7	61.072	858.00	1.2222	352.65	858.00	2	352.65	31.98
33701	C23H46O2	isostearyl neopentanoate	58958-60-4	61.730	798.00	1.2222	309.65	798.00	2	309.65	33.87
33702	C23H47Br	1-bromotricosane	62108-44-5	58.412	847.76	1.2222	325.85	847.76	2	325.85	32.29
33703	C23H47Cl	1-chlorotricosane	62016-77-7	55.086	832.05	1.2222	324.15	832.05	2	324.15	30.13
33704	C23H47F	1-fluorotricosane	62126-80-1	74.612	795.19	1.2222	327.15	795.19	2	327.15	39.04
33705	C23H47I	1-iodotricosane	62127-54-2	54.441	872.37	1.2222	328.35	872.37	2	328.35	30.57
33706	C23H48	tricosane	638-67-5	51.538	803.12	1.2222	324.05	803.12	2	324.05	27.41
33707	C23H48	9-hexylheptadecane	55124-79-3	51.538	803.12	1.2222	253.75	803.12	2	298.15	29.23
33708	C23H48O	1-tricosanol	3133-01-5	48.909	821.60	0.8000	348.15	821.60	2	348.15	31.47
33710	C23H49N	tricosylamine	14130-07-5	60.241	846.99	1.2222	337.15	846.99	2	337.15	32.39
33711	C23H49N	methyldocosylamine	66375-05-1	54.300	815.11	1.2222	324.15	815.11	2	324.15	29.22
33712	C23H49N	ethylheneicosylamine	66375-04-0	54.238	818.78	1.2222	324.15	818.78	2	324.15	29.29
33713	C23H49N	dimethylheneicosylamine	66375-03-9	51.387	813.93	1.2222	311.00	813.93	2	311.00	28.53
33714	C23H49N	diethylnonadecylamine	66375-02-8	52.003	780.79	1.2222	311.00	780.79	2	311.00	27.95
33887	C24H32	1,1-diphenyl-1-dodecene	1530-29-6	50.774	856.93	1.2222	230.41	856.93	2	298.15	30.11
33906	C24H34	1,1-diphenyldodecane	1603-53-8	59.349	832.80	1.2222	283.15	832.80	2	298.15	34.53
33925	C24H38O4	dioctyl phthalate	117-84-0	54.836	806.00	1.2222	223.15	806.00	2	298.15	31.18
33931.1	C24H38O4	heptyl nonyl phthalate	19295-81-9	59.961	841.00	1.1939	240.00	841.00	2	298.15	35.55
33959	C24H42	octadecylbenzene	4445-07-2	54.768	832.72	1.2222	309.15	832.72	2	309.15	31.06
33967	C24H46	1,1-dicyclohexyldodecane	18254-57-4	50.441	825.63	1.2222	300.58	825.63	2	300.58	29.01
33968	C24H46	1-tetracosyne	61847-84-5	54.082	815.11	1.2222	325.15	815.11	2	325.15	29.03
33970	C24H46O2	cis-15-tetracosenoic acid	506-37-6	53.019	996.00	1.2222	316.15	996.00	2	316.15	33.25
33971	C24H46O2	trans-15-tetracosenoic acid	14490-79-0	53.019	996.00	1.2222	334.15	996.00	2	334.15	32.17
33983	C24H48	nonadecylcyclopentane	62016-54-0	59.109	829.99	1.2222	308.15	829.99	2	308.15	33.52
33984	C24H48	octadecylcyclohexane	4445-06-1	57.654	833.93	1.2222	313.65	833.93	2	313.65	32.39
33985	C24H48	1-tetracosene	10192-32-2	52.432	814.11	1.2222	318.45	814.11	2	318.45	28.59
33986	C24H48Br2	1,1-dibromotetracosane	62168-03-0	68.508	889.11	1.2222	464.34	889.11	2	464.34	27.77
33987	C24H48Cl2	1,1-dichlorotetracosane	62017-26-9	69.983	868.44	1.2222	404.58	868.44	2	404.58	32.52
33988	C24H48F2	1,1-difluorotetracosane	62127-13-3	56.095	788.81	1.2222	409.04	788.81	2	409.04	22.96
33989	C24H48I2	1,1-diiodotetracosane	66374-96-7	55.206	1144.63	1.2222	460.86	1144.63	2	460.86	29.41

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
33990	C24H48O2	eicosyl butanoate	41927-66-6	62.672	810.70	1.2222	402.07	810.70	2	402.07	27.13
33991	C24H48O2	ethyl docosanoate	5908-87-2	61.723	815.00	1.2222	323.15	815.00	2	323.15	33.30
33992	C24H48O2	tetracosanoic acid	557-59-5	61.882	870.00	1.2222	360.65	870.00	2	360.65	32.17
33993	C24H48O2	hexadecyl 2-ethylhexanoate	59130-69-7	61.723	815.00	1.2222	323.15	815.00	2	323.15	33.30
33994	C24H48O2	octyl palmitate	29806-73-3	61.723	815.00	1.2222	323.15	815.00	2	323.15	33.30
33998	C24H49Br	1-bromotetracosane	6946-24-3	58.452	858.84	1.2222	323.85	858.84	2	323.85	32.78
33999	C24H49Cl	1-chlorotetracosane	6422-18-0	54.746	843.04	1.2222	325.15	843.04	2	325.15	30.18
34000	C24H49F	1-fluorotetracosane	62126-81-2	75.075	806.26	1.2222	326.15	806.26	2	326.15	39.84
34001	C24H49I	1-iodotetracosane	62127-55-3	54.118	885.88	1.2222	327.85	885.88	2	327.85	30.76
34002	C24H50	tetracosane	646-31-1	51.386	814.95	1.2222	324.05	814.95	2	324.05	27.66
34003	C24H50	2-methyltricosane	1928-30-9	51.386	814.95	1.2222	310.75	814.95	2	310.75	28.57
34004	C24H50O	2-decyl-1-tetradecanol	58670-89-6	49.001	831.60	0.8000	291.65	831.60	2	298.15	34.35
34005	C24H50O	tetracosanol	506-51-4	48.742	841.60	0.8000	349.15	841.60	2	349.15	31.75
34008	C24H50S	dodecyl sulfide	2469-45-6	52.329	876.33	1.2222	312.65	876.33	2	312.65	30.52
34012	C24H51N	tetracosylamine	14130-08-6	60.088	859.72	1.2222	340.15	859.72	2	340.15	32.47
34013	C24H51N	methyltricosylamine	66374-99-0	54.130	826.65	1.2222	326.15	826.65	2	326.15	29.32
34014	C24H51N	ethyldocosylamine	66374-98-9	54.073	830.33	1.2222	325.15	830.33	2	325.15	29.46
34015	C24H51N	didodecylamine	3007-31-6	54.111	827.88	1.2222	324.15	827.88	2	324.15	29.48
34016	C24H51N	dimethyldocosylamine	21542-96-1	51.252	824.83	1.2222	317.15	824.83	2	317.15	28.32
34017	C24H51N	diethyleicosylamine	66374-97-8	51.822	791.74	1.2222	277.85	791.74	2	298.15	29.09
34018	C24H51N	trioctylamine	1116-76-3	52.225	772.14	1.2222	238.55	772.14	2	298.15	28.76
34019	C24H51N	triisooctylamine	2757-28-0	51.352	819.04	1.2222	277.85	819.04	2	298.15	29.53
34140	C25H34	1,1-diphenyl-1-tridecene	62155-37-7	49.142	863.24	1.2222	225.31	863.24	2	298.15	29.28
34150	C25H36	1,1-diphenyltridecane	62155-14-0	58.854	838.00	1.2222	300.15	838.00	2	300.15	34.23
34171	C25H44	nonadecylbenzene	29136-19-4	54.609	841.84	1.2222	313.15	841.84	2	313.15	30.93
34172	C25H44	(3-octylundecyl)benzene	5637-96-7	54.609	841.84	1.2222	246.45	841.84	2	298.15	32.00
34173	C25H44	9-(4-tolyl)octadecane	4445-08-3	54.609	841.84	1.2222	233.15	841.84	2	298.15	32.00
34178	C25H48	1,1-dicyclohexyltridecane	62155-22-0	49.833	833.34	1.2222	385.77	833.34	2	385.77	23.31
34179	C25H48	1-pentacosyne	61847-85-6	53.776	825.22	1.2222	328.15	825.22	2	328.15	28.94
34182	C25H50	eicosylcyclopentane	22331-38-0	59.034	839.72	1.2222	311.15	839.72	2	311.15	33.53
34183	C25H50	nonadecylcyclohexane	22349-03-7	57.601	843.31	1.2222	318.35	843.31	2	318.35	32.27
34184	C26H52	heneicosylcyclopentane	6703-82-8	58.939	850.13	1.2222	315.15	850.13	2	315.15	33.46
34185	C25H50	1-pentacosene	16980-85-1	52.279	826.16	1.2222	321.85	826.16	2	321.85	28.60
34186	C25H50	9-octyl-8-heptadecene	24306-18-1	52.279	826.16	1.2222	233.15	826.16	2	298.15	30.25
34187	C25H50Br2	1,1-dibromopentacosane	62168-04-1	68.174	901.35	1.2222	475.61	901.35	2	475.61	27.26
34188	C25H50Cl2	1,1-dichloropentacosane	62017-27-0	69.539	880.46	1.2222	415.85	880.46	2	415.85	31.84
34189	C25H50F2	1,1-difluoropentacosane	62127-14-4	55.853	800.89	1.2222	420.31	800.89	2	420.31	22.50
34190	C25H50I2	1,1-diiodopentacosane	66359-84-0	54.141	1171.95	1.2222	472.13	1171.95	2	472.13	28.83
34192	C25H50O2	methyl tetracosanoate	2442-49-1	61.351	830.00	1.2222	334.15	830.00	2	334.15	32.69
34193	C25H51Br	1-bromopentacosane	62108-45-6	58.476	869.43	1.2222	331.45	869.43	2	331.45	32.52
34194	C25H51Cl	1-chloropentacosane	62016-78-8	54.387	854.75	1.2222	330.15	854.75	2	330.15	29.95
34195	C25H51F	1-fluoropentacosane	62126-82-3	75.517	818.02	1.2222	333.15	818.02	2	333.15	39.85
34196	C25H51I	1-iodopentacosane	62127-56-4	53.810	899.00	1.2222	333.75	899.00	2	333.75	30.52
34197	C25H52	pentacosane	629-99-2	51.230	826.84	1.2222	326.85	826.84	2	326.85	27.70
34198	C25H52	9-octylheptadecane	7225-64-1	51.230	826.84	1.2222	259.35	826.84	2	298.15	29.66
34199	C25H53N	pentacosylamine	14130-09-7	59.938	871.97	1.2222	341.15	871.97	2	341.15	32.68
34200	C25H53N	methyltetracosylamine	66359-78-2	53.963	837.69	1.2222	327.15	837.69	2	327.15	29.46
34201	C25H53N	ethyltricosylamine	66359-77-1	53.894	842.59	1.2222	327.15	842.59	2	327.15	29.56
34202	C25H53N	dimethyltricosylamine	66359-76-0	51.102	836.42	1.2222	320.00	836.42	2	320.00	28.35
34203	C25H53N	diethylheneicosylamine	66359-75-9	51.624	803.37	1.2222	320.00	803.37	2	320.00	27.75
34221	C26H20	tetraphenylethylene	632-51-9	40.721	996.00	1.2222	496.15	996.00	2	496.15	17.53
34296	C26H36	1,1-diphenyl-1-tetradecene	62155-38-8	47.424	868.99	1.2222	220.21	868.99	2	298.15	28.38
34302	C26H38	1,1-diphenyltetradecane	55268-63-8	58.441	842.20	1.2222	291.15	842.20	2	298.15	34.26
34319.1	C26H42O4	heptyl undecyl phthalate	65185-88-8	50.962	878.00	1.2222	240.00	878.00	2	298.15	30.69
34326	C26H46	eicosylbenzene	2398-68-7	54.432	851.65	1.2222	317.15	851.65	2	317.15	30.80
34327	C26H46	(1-butylhexadecyl)benzene	2400-04-6	54.432	851.65	1.2222	303.35	851.65	2	303.35	31.78
34328	C26H46	(1-ethyloctadecyl)benzene	2400-02-4	54.432	851.65	1.2222	302.45	851.65	2	302.45	31.84
34329	C26H46	(1-methylnonadecyl)benzene	2398-66-5	54.432	851.65	1.2222	302.15	851.65	2	302.15	31.86
34330	C26H46	(1-octyldodecyl)benzene	2398-65-4	54.432	851.65	1.2222	291.05	851.65	2	298.15	32.15
34331	C26H46	(1-propylheptadecyl)benzene	2400-03-5	54.432	851.65	1.2222	304.55	851.65	2	304.55	31.69
34338	C26H50	1,1-dicyclohexyltetradecane	55334-08-2	49.290	840.47	1.2222	310.75	840.47	2	310.75	28.04
34339	C26H50	1-hexacosyne	61847-86-7	53.448	836.00	1.2222	330.15	836.00	2	330.15	28.92
34348	C26H52	eicosylcyclohexane	4443-55-4	57.528	853.38	1.2222	321.65	853.38	2	321.65	32.27
34349	C26H52	1-hexacosene	18835-33-1	52.131	837.68	1.2222	324.95	837.68	2	324.95	28.61
34350	C26H52	3-cyclohexyleicosane	4443-57-6	57.320	853.38	1.2222	295.88	853.38	2	298.15	33.90
34351	C26H52	9-cyclohexyleicosane	4443-61-2	57.320	853.38	1.2222	314.00	853.38	2	314.00	32.72
34352	C26H52Br2	1,1-dibromohexacosane	62168-05-2	67.886	911.94	1.2222	486.88	911.94	2	486.88	26.70
34353	C26H52Cl2	1,1-dichlorohexacosane	62017-28-1	69.120	892.02	1.2222	427.12	892.02	2	427.12	31.17
34354	C26H52F2	1,1-difluorohexacosane	62127-15-5	55.619	812.45	1.2222	431.58	812.45	2	431.58	22.03
34355	C26H52I2	1,1-diiodohexacosane	66291-94-9	53.107	1200.28	1.2222	483.40	1200.28	2	483.40	28.29
34356	C26H52O2	hexacosanoic acid	506-46-7	62.389	894.00	1.2222	361.65	894.00	2	361.65	33.11
34357	C26H52O2	hexadecyl neodecanoate	67749-11-5	61.000	845.00	1.2222	323.15	845.00	2	323.15	33.85
34358	C26H52O2	octyl stearate	22047-49-0	61.000	845.00	1.2222	323.15	845.00	2	323.15	33.85
34360	C26H53Br	1-bromohexacosane	4276-51-1	58.485	881.99	1.2222	329.55	881.99	2	329.55	33.02
34361	C26H53Cl	1-chlorohexacosane	56134-53-3	54.047	865.98	1.2222	331.15	865.98	2	331.15	29.99
34362	C26H53F	1-fluorohexacosane	62126-83-4	75.896	829.26	1.2222	332.15	829.26	2	332.15	40.61
34363	C26H53I	1-iodohexacosane	52644-81-2	53.492	912.99	1.2222	333.05	912.99	2	333.05	30.72
34364	C26H54	hexacosane	630-01-3	50.072	839.06	1.2222	329.55	839.06	1,2	329.55	27.22
34365	C26H54	5-butyldocosane	55282-16-1	51.068	839.06	1.2222	481.15	839.06	2	481.15	18.03
34366	C26H54	7-butyldocosane	55282-15-0	51.068	839.06	1.2222	274.75	839.06	2	298.15	29.86

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n							(sigma - dynes/cm, T - K)	
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
34367	C26H54	9-butyldocosane	55282-14-9	51.068	839.06	1.2222	273.85	839.06	2	298.15	29.86
34368	C26H54	11-butyldocosane	13475-76-8	51.068	839.06	1.2222	299.23	839.06	2	299.23	29.79
34369	C26H54	11-(2,2-dimethylpropyl)heneicosane	55282-10-5	51.068	839.06	1.2222	252.15	839.06	2	298.15	29.86
34370	C26H54	6,11-dipentylhexadecane	15874-03-0	51.068	839.06	1.2222	256.95	839.06	2	298.15	29.86
34371	C26H54	3-ethyl-5-(2-ethylbutyl)octadecane	55282-12-7	51.068	839.06	1.2222	222.15	839.06	2	298.15	29.86
34372	C26H54	3-ethyltetracosane	55282-17-2	51.068	839.06	1.2222	303.25	839.06	2	303.25	29.52
34373	C26H54O	1-hexacosanol	506-52-5	49.202	851.60	0.8000	353.15	851.60	2	353.15	32.05
34377	C26H55N	hexacosylamine	14130-10-0	59.775	884.99	1.2222	344.15	884.99	2	344.15	32.74
34378	C26H55N	methylpentacosylamine	66291-92-7	53.764	850.70	1.2222	329.15	850.70	2	329.15	29.57
34379	C26H55N	ethyltetracosylamine	66291-91-6	53.703	855.60	1.2222	329.15	855.60	2	329.15	29.66
34380	C26H55N	ditridecylamine	5910-75-8	50.881	851.92	1.2222	329.65	851.92	2	329.65	27.98
34381	C26H55N	dimethyltetracosylamine	66291-90-5	50.939	848.75	1.2222	322.15	848.75	2	322.15	28.42
34382	C26H55N	diethyldocosylamine	66291-89-2	51.432	814.46	1.2222	325.90	814.46	2	325.90	27.54
34464	C27H38	1,1-diphenyl-1-pentadecene	62155-39-9	45.638	875.43	1.2222	215.11	875.43	2	298.15	27.44
34475	C27H40	1,1-diphenylpentadecane	62155-15-1	58.020	846.70	1.2222	306.15	846.70	2	306.15	33.53
34536	C27H48	heneicosylbenzene	40775-09-5	54.266	860.93	1.2222	321.15	860.93	2	321.15	30.67
34537	C27H48	11-phenylheneicosane	6703-80-6	54.266	860.93	1.2222	294.30	860.93	2	298.15	32.27
34547	C27H52	1,1-dicyclohexylpentadecane	62155-23-1	48.734	848.27	1.2222	408.31	848.27	2	408.31	21.85
34548	C27H52	1-heptacosyne	61847-87-8	53.099	847.49	1.2222	333.15	847.49	2	333.15	28.84
34549	C27H54	docosylcyclopentane	62016-55-1	58.826	861.25	1.2222	318.15	861.25	2	318.15	33.48
34550	C27H54	heneicosylcyclohexane	26718-82-1	57.438	864.14	1.2222	324.65	864.14	2	324.65	32.30
34551	C27H54	(1-decylundecyl)cyclohexane	6703-99-7	57.275	864.14	1.2222	272.60	864.14	2	298.15	34.15
34552	C27H54	1-heptacosene	15306-27-1	51.970	849.93	1.2222	327.85	849.93	2	327.85	28.65
34553	C27H54Br2	1,1-dibromoheptacosane	62168-06-3	67.549	924.58	1.2222	498.15	924.58	2	498.15	26.23
34554	C27H54Cl2	1,1-dichloroheptacosane	62017-29-2	68.681	904.39	1.2222	438.39	904.39	2	438.39	30.54
34555	C27H54F2	1,1-difluoroheptacosane	62127-16-6	55.369	824.74	1.2222	442.85	824.74	2	442.85	21.61
34556	C27H54I2	1,1-diiodoheptacosane	66291-84-7	52.102	1229.70	1.2222	494.67	1229.70	2	494.67	27.78
34557	C27H54O	14-heptacosanone	542-50-7	58.490	822.72	1.2222	350.65	822.72	2	350.65	29.66
34558	C27H54O2	methyl hexacosanoate	5802-82-4	60.676	860.00	1.2222	336.95	860.00	2	336.95	33.04
34559	C27H55Br	1-bromoheptacosane	62108-46-7	58.476	894.13	1.2222	336.55	894.13	2	336.55	32.83
34560	C27H55Cl	1-chloroheptacosane	62016-79-9	53.689	877.97	1.2222	335.15	877.97	2	335.15	29.83
34561	C27H55F	1-fluoroheptacosane	62108-81-0	76.254	841.24	1.2222	338.15	841.24	2	338.15	40.68
34562	C27H55I	1-iodoheptacosane	62127-57-5	53.295	920.45	1.2222	338.45	920.45	2	338.45	30.43
34563	C27H56	heptacosane	593-49-7	50.900	851.53	1.2222	332.15	851.53	2	332.15	27.82
34566	C27H57N	heptacosylamine	14130-11-1	59.600	898.82	1.2222	345.15	898.82	2	345.15	32.97
34567	C27H57N	methylhexacosylamine	66291-81-4	53.569	863.26	1.2222	331.15	863.26	2	331.15	29.65
34568	C27H57N	ethylpentacosylamine	66291-80-3	53.515	868.17	1.2222	331.15	868.17	2	331.15	29.75
34569	C27H57N	dimethylpentacosylamine	66291-79-0	50.779	860.60	1.2222	325.00	860.60	2	325.00	28.44
34570	C27H57N	diethyltricosylamine	66291-86-9	51.224	826.28	1.2222	325.00	826.28	2	325.00	27.81
34571	C27H57N	trinonylamine	2044-22-6	51.607	802.99	1.2222	325.00	802.99	2	325.00	27.37
34663	C28H40	1,1-diphenyl-1-hexadecene	13456-25-2	43.761	881.36	1.2222	210.01	881.36	2	298.15	26.42
34677	C28H42	1,1-diphenylhexadecane	13456-23-0	57.680	850.10	1.2222	299.15	850.10	2	299.15	33.95
34691	C28H46O4	diisodecyl phthalate	26761-40-0	46.726	887.00	1.2222	227.59	887.00	2	298.15	28.32
34704	C28H50	docosylbenzene	5634-22-0	54.081	870.93	1.2222	324.15	870.93	2	324.15	30.62
34712	C28H54	1,1-dicyclohexylhexadecane	13287-09-7	48.166	856.76	1.2222	419.58	856.76	2	419.58	21.16
34713	C28H54	1-octacosyne	61847-88-9	52.770	858.49	1.2222	335.15	858.49	2	335.15	28.82
34716	C28H56	tricosylcyclopentane	62016-56-2	58.712	871.87	1.2222	322.15	871.87	2	322.15	33.41
34717	C28H56	docosylcyclohexane	61828-07-7	57.346	874.41	1.2222	327.55	874.41	2	327.55	32.31
34718	C28H56	1-octacosene	18835-34-2	51.811	861.70	1.2222	330.65	861.70	2	330.65	28.67
34719	C28H56Br2	1,1-dibromooctacosane	62168-07-4	67.223	936.86	1.2222	509.42	936.86	2	509.42	25.76
34720	C28H56Cl2	1,1-dichlorooctacosane	62017-30-5	68.224	917.60	1.2222	449.66	917.60	2	449.66	29.96
34721	C28H56F2	1,1-difluorooctacosane	62127-17-7	55.123	836.58	1.2222	454.12	836.58	2	454.12	21.18
34722	C28H56I2	1,1-diiodooctacosane	66291-74-5	51.124	1260.30	1.2222	505.94	1260.30	2	505.94	27.30
34723	C28H56O2	octacosanoic acid	506-48-9	62.969	918.00	1.2222	364.05	918.00	2	364.05	33.96
34728	C28H57Br	1-bromooctacosane	16331-21-8	58.445	905.86	1.2222	334.55	905.86	2	334.55	33.27
34729	C28H57Cl	1-chlorooctacosane	62016-80-2	53.317	890.78	1.2222	336.15	890.78	2	336.15	29.88
34730	C28H57F	1-fluorooctacosane	62108-82-1	76.593	854.00	1.2222	337.15	854.00	2	337.15	41.46
34731	C28H57I	1-iodooctacosane	62154-80-7	52.826	943.74	1.2222	337.75	943.74	2	337.75	30.74
34732	C28H58	octacosane	630-02-4	50.726	864.27	1.2222	337.65	864.27	2	337.65	27.69
34733	C28H58	2,2,4,10,12,12-hexamethyl-7-(3,5,5-trimethylhexyl)tridecane	3035-75-4	50.726	864.27	1.2222	301.25	864.27	2	301.25	30.04
34734	C28H58	7-hexyldocosane	55373-86-9	50.726	864.27	1.2222	292.45	864.27	2	298.15	30.25
34735	C28H58	9-octyleicosane	13475-77-9	50.726	864.27	1.2222	273.65	864.27	2	298.15	30.25
34737	C28H58O	1-octacosanol	557-61-9	49.672	861.60	0.8000	356.55	861.60	2	356.55	32.40
34738	C28H59N	octacosylamine	14130-12-2	59.424	912.27	1.2222	348.15	912.27	2	348.15	33.02
34739	C28H59N	methylheptacosylamine	66291-78-9	53.374	875.40	1.2222	332.15	875.40	2	332.15	29.79
34740	C28H59N	ethylhexacosylamine	66291-77-8	53.315	881.56	1.2222	332.96	881.56	2	332.96	29.86
34741	C28H59N	ditetradecylamine	17361-44-3	53.350	877.86	1.2222	333.77	877.86	2	333.77	29.73
34742	C28H59N	dimethylhexacosylamine	66291-76-7	50.606	873.23	1.2222	328.15	873.23	2	328.15	28.45
34743	C28H59N	diethyltetracosylamine	66291-75-6	51.002	838.85	1.2222	328.15	838.85	2	328.15	27.81
34812	C29H52	tricosylbenzene	61828-04-4	53.903	880.45	1.2222	327.15	880.45	2	327.15	30.55
34814	C29H56	1-nonacosyne	61847-89-0	52.423	870.24	1.2222	338.15	870.24	2	338.15	28.73
34815	C29H58	tetracosylcyclopentane	62016-57-3	58.593	882.04	1.2222	324.15	882.04	2	324.15	33.47
34816	C29H58	tricosylcyclohexane	61828-08-8	57.247	884.21	1.2222	330.15	884.21	2	330.15	32.33
34817	C29H58	1-nonacosene	18835-35-3	51.627	875.48	1.2222	323.15	875.48	2	323.15	29.40
34818	C29H58Br2	1,1-dibromononacosane	62168-08-5	66.879	950.04	1.2222	520.69	950.04	2	520.69	25.33
34819	C29H58Cl2	1,1-dichlorononacosane	62017-31-6	67.790	930.45	1.2222	460.93	930.45	2	460.93	29.38
34820	C29H58F2	1,1-difluorononacosane	62127-18-8	54.862	849.23	1.2222	465.39	849.23	2	465.39	20.79
34821	C29H58I2	1,1-diiodononacosane	66213-91-0	50.173	1292.15	1.2222	517.21	1292.15	2	517.21	26.86
34823	C29H59Br	1-bromononacosane	62108-47-8	58.405	919.68	1.2222	340.95	919.68	2	340.95	33.16
34824	C29H59Cl	1-chlorononacosane	62016-81-3	52.964	903.20	1.2222	340.15	903.20	2	340.15	29.73

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
34825	C29H59F	1-fluorononacosane	62108-83-2	76.861	866.34	1.2222	343.15	866.34	2	343.15	41.50
34826	C29H59I	1-iodononacosane	62154-81-8	52.499	959.36	1.2222	342.65	959.36	2	342.65	30.59
34827	C29H60	nonacosane	630-03-5	50.545	877.44	1.2222	336.85	877.44	2	336.85	27.96
34828	C29H60O	1-nonacosanol	6624-76-6	49.792	871.60	0.8000	357.65	871.60	2	357.65	32.63
34829	C29H61N	nonacosylamine	66213-93-2	59.235	926.61	1.2222	349.15	926.61	2	349.15	33.23
34830	C29H61N	methyloctacosylamine	66213-97-6	53.155	889.63	1.2222	334.15	889.63	2	334.15	29.89
34831	C29H61N	ethylheptacosylamine	66213-96-5	53.104	895.80	1.2222	334.15	895.80	2	334.15	30.01
34832	C29H61N	dimethylheptacosylamine	66213-95-4	50.431	885.47	1.2222	330.00	885.47	2	330.00	28.52
34833	C29H61N	diethylpentacosylamine	66213-94-3	50.784	850.99	1.2222	330.00	850.99	2	330.00	27.88
34922.1	C30H48O6	tri-n-heptyl trimellitate	1528-48-9	349.365	1020.00	1.6075	339.00	1020.00	2	339.00	182.49
34936	C30H54	tetracosylbenzene	61828-05-5	53.707	890.74	1.2222	330.15	890.74	2	330.15	30.50
34940	C30H58	1-triacontyne	61847-90-3	52.061	882.79	1.2222	340.15	882.79	2	340.15	28.72
34946	C30H60	pentacosylcyclopentane	62016-74-4	58.445	894.22	1.2222	327.15	894.22	2	327.15	33.50
34947	C30H60	tetracosylcyclohexane	61828-09-9	57.119	896.02	1.2222	332.65	896.02	2	332.65	32.40
34948	C30H60	1-triacontene	18435-53-5	51.455	887.64	1.2222	325.55	887.64	2	325.55	29.44
34949	C30H60Br2	1,1-dibromotriacontane	62168-09-6	66.519	964.17	1.2222	531.96	964.17	2	531.96	24.95
34950	C30H60Cl2	1,1-dichlorotriacontane	62017-32-7	67.340	944.23	1.2222	472.20	944.23	2	472.20	28.86
34951	C30H60F2	1,1-difluorotriacontane	62127-19-9	54.587	862.72	1.2222	476.66	862.72	2	476.66	20.43
34952	C30H60I2	1,1-diiodotriacontane	66213-98-7	49.246	1325.37	1.2222	528.48	1325.37	2	528.48	26.44
34954	C30H60O2	triacontanoic acid	506-50-3	63.618	942.00	1.2222	366.75	942.00	2	366.75	34.82
34957	C30H61Br	1-bromotriacontane	4209-22-7	58.342	933.17	1.2222	338.95	933.17	2	338.95	33.61
34958	C30H61Cl	1-chlorotriacontane	62016-82-4	52.597	916.50	1.2222	340.15	916.50	2	340.15	29.84
34959	C30H61F	1-fluorotriacontane	62108-84-3	77.110	879.52	1.2222	342.15	879.52	2	342.15	42.23
34960	C30H61I	1-iodotriacontane	62154-82-9	52.162	976.04	1.2222	281.85	976.04	2	298.15	33.41
34961	C30H62	triacontane	638-68-6	50.357	891.09	1.2222	338.95	891.09	2	338.95	28.05
34962	C30H62	2,6,10,15,19,23-hexamethyltetracosane	111-01-3	48.078	891.09	1.2222	235.15	891.09	2	298.15	29.22
34963	C30H62	9-octyldocosane	55319-83-0	48.728	891.09	1.2222	281.75	891.09	2	298.15	29.62
34964	C30H62O	1-triacontanol	593-50-0	49.919	881.60	0.8000	361.15	881.60	2	361.15	32.75
34965	C30H63N	triacontylamine	66214-00-4	59.033	941.88	1.2222	351.15	941.88	2	351.15	33.38
34966	C30H63N	methylnonacosylamine	66214-04-8	52.934	903.52	1.2222	335.15	903.52	2	335.15	30.04
34967	C30H63N	ethyloctacosylamine	66214-03-7	52.892	909.72	1.2222	335.80	909.72	2	335.80	30.12
34968	C30H63N	dipentadecylamine	35551-81-6	52.917	906.00	1.2222	336.45	906.00	2	336.45	30.01
34969	C30H63N	dimethyloctacosylamine	66214-02-6	50.243	898.56	1.2222	333.15	898.56	2	333.15	28.52
34970	C30H63N	diethylhexacosylamine	66214-01-5	50.538	865.20	1.2222	302.65	865.20	2	302.65	29.86
34971	C30H63N	tri-N-decylamine	1070-01-5	50.851	839.25	1.2222	272.15	839.25	2	298.15	29.74
35019	C31H56	pentacosylbenzene	61828-06-6	53.494	901.84	1.2222	332.15	901.84	2	332.15	30.51
35020	C31H56	13-phenylpentacosane	6006-90-2	53.494	901.84	1.2222	304.85	901.84	2	304.85	32.31
35023	C31H60	1-hentriacontyne	61847-91-4	51.686	896.17	1.2222	342.15	896.17	2	342.15	28.71
35025	C31H62	hexacosylcyclopentane	62016-58-4	58.291	905.99	1.2222	329.15	905.99	2	329.15	33.57
35026	C31H62	pentacosylcyclohexane	61828-10-2	56.986	907.42	1.2222	335.05	907.42	2	335.05	32.45
35027	C31H62	1-hentriacontene	18435-54-6	51.260	901.89	1.2222	327.75	901.89	2	327.75	29.52
35028	C31H62	13-cyclohexylpentacosane	6697-15-0	58.227	905.99	1.2222	270.20	905.99	2	298.15	35.75
35029	C31H62Br2	1,1-dibromohentriacontane	62168-10-9	66.143	979.29	1.2222	543.23	979.29	2	543.23	24.61
35030	C31H62Cl2	1,1-dichlorohentriacontane	62017-33-8	66.876	958.98	1.2222	483.47	958.98	2	483.47	28.37
35031	C31H62F2	1,1-difluorohentriacontane	62127-20-2	54.300	877.11	1.2222	487.93	877.11	2	487.93	20.11
35032	C31H62I2	1,1-diiodohentriacontane	66214-07-1	48.344	1360.04	1.2222	539.75	1360.04	2	539.75	26.06
35033	C31H62O	16-hentriacontanone	502-73-8	61.117	860.00	1.2222	356.95	860.00	2	356.95	31.73
35034	C31H63Br	1-bromohentriacontane	62108-48-9	58.253	946.37	1.2222	344.85	946.37	2	344.85	33.48
35035	C31H63Cl	1-chlorohentriacontane	62016-83-5	52.217	930.73	1.2222	344.15	930.73	2	344.15	29.70
35036	C31H63F	1-fluorohentriacontane	62108-85-4	77.339	893.61	1.2222	347.15	893.61	2	347.15	42.40
35037	C31H63I	1-iodohentriacontane	57094-91-4	51.816	993.86	1.2222	346.45	993.86	2	346.45	30.69
35039	C31H64	hentriacontane	630-04-6	50.163	904.88	1.2222	341.05	904.88	2	341.05	28.14
35040	C31H64	11-decylheneicosane	55320-06-4	50.163	904.88	1.2222	282.34	904.88	2	298.15	30.78
35041	C31H65N	hentriacontylamine	66214-08-2	58.821	958.15	1.2222	352.15	958.15	2	352.15	33.60
35042	C31H65N	methyltriacontylamine	66214-12-8	52.701	918.35	1.2222	336.15	918.35	2	336.15	30.19
35043	C31H65N	ethylnonacosylamine	66214-11-7	52.667	924.58	1.2222	336.15	924.58	2	336.15	30.32
35044	C31H65N	dimethylnonacosylamine	66214-10-6	50.043	912.56	1.2222	335.00	912.56	2	335.00	28.61
35045	C31H65N	diethylheptacosylamine	66214-09-3	50.307	877.80	1.2222	335.00	877.80	2	335.00	27.96
35105	C32H58	hexacosylbenzene	13024-80-1	53.265	913.77	1.2222	335.15	913.77	2	335.15	30.47
35108	C32H62	1-dotriacontyne	61847-92-5	51.329	909.18	1.2222	344.15	909.18	2	344.15	28.70
35111	C32H64	heptacosylcyclopentane	61827-90-5	58.120	918.63	1.2222	332.15	918.63	2	332.15	33.58
35112	C32H64	hexacosylcyclohexane	61828-11-3	56.835	919.67	1.2222	337.15	919.67	2	337.15	32.53
35113	C32H64	1-dotriacontene	18435-55-7	51.063	915.81	1.2222	329.85	915.81	2	329.85	29.58
35114	C32H64Br2	1,1-dibromodotriacontane	62168-11-0	65.775	994.22	1.2222	554.50	994.22	2	554.50	24.27
35115	C32H64Cl2	1,1-dichlorodotriacontane	62017-34-9	66.398	974.75	1.2222	494.74	974.75	2	494.74	27.93
35116	C32H64F2	1,1-difluorodotriacontane	62127-21-3	54.013	891.19	1.2222	499.20	891.19	2	499.20	19.79
35117	C32H64I2	1,1-diiododotriacontane	66214-13-9	47.464	1396.28	1.2222	551.02	1396.28	2	551.02	25.70
35118	C32H64O2	hexadecyl hexadecanoate	540-10-3	0.735	875.00	1.2222	327.15	875.00	2	327.15	0.41
35119	C32H64O2	tetradecyl stearate	17661-50-6	0.735	875.00	1.2222	327.15	875.00	2	327.15	0.41
35122	C32H65Br	1-bromodotriacontane	7596-92-1	58.159	961.80	1.2222	342.85	961.80	2	342.85	33.93
35123	C32H65Cl	1-chlorodotriacontane	62016-84-6	51.827	945.94	1.2222	344.15	945.94	2	344.15	29.82
35124	C32H65F	1-fluorodotriacontane	62108-86-5	77.551	908.63	1.2222	346.15	908.63	2	346.15	43.15
35125	C32H65I	1-iododotriacontane	62154-83-0	51.476	1011.61	1.2222	345.55	1011.61	2	345.55	30.89
35126	C32H66	dotriacontane	544-85-4	49.954	920.46	1.2222	342.85	920.46	2	342.85	28.26
35127	C32H66	3-methylhentriacontane	4981-99-1	49.954	920.46	1.2222	274.15	920.46	2	298.15	30.96
35129	C32H67N	dotriacontylamine	66214-14-0	58.600	974.21	1.2222	354.15	974.21	2	354.15	33.73
35130	C32H67N	methylhentriacontylamine	66214-18-4	52.464	932.92	1.2222	338.15	932.92	2	338.15	30.26
35131	C32H67N	ethyltriacontylamine	66214-17-3	52.432	940.45	1.2222	339.17	940.45	2	339.17	30.35
35132	C32H67N	dihexadecylamine	16724-63-3	52.447	936.69	1.2222	340.18	936.69	2	340.18	30.21
35133	C32H67N	dimethyltriacontylamine	66214-16-2	49.832	927.51	1.2222	338.15	927.51	2	338.15	28.63

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
35134	C32H67N	diethyloctacosylamine	66214-15-1	50.062	891.32	1.2222	338.15	891.32	2	338.15	27.94
35178	C33H60	heptacosylbenzene	61828-25-9	53.038	925.34	1.2222	337.15	925.34	2	337.15	30.48
35179	C33H64	1-tritriacontyne	61847-93-6	50.960	923.11	1.2222	346.15	923.11	2	346.15	28.69
35180	C33H66	octacosylcyclopentane	61827-91-6	57.935	932.17	1.2222	334.15	932.17	2	334.15	33.68
35181	C33H66	heptacosylcyclohexane	61828-12-4	56.674	931.57	1.2222	339.25	931.57	2	339.25	32.59
35182	C33H66	1-tritriacontene	61868-11-9	50.854	930.68	1.2222	331.85	930.68	2	331.85	29.67
35183	C33H66Br2	1,1-dibromotritriacontane	62168-12-1	65.390	1010.24	1.2222	565.77	1010.24	2	565.77	23.97
35184	C33H66Cl2	1,1-dichlorotritriacontane	62017-35-0	65.940	990.34	1.2222	506.01	990.34	2	506.01	27.51
35185	C33H66F2	1,1-difluorotritriacontane	62127-22-4	53.713	906.25	1.2222	510.47	906.25	2	510.47	19.51
35186	C33H66I2	1,1-diiodotritriacontane	66214-19-5	46.607	1434.22	1.2222	562.29	1434.22	2	562.29	25.37
35187	C33H67Br	1-bromotritriacontane	62108-49-0	58.038	977.03	1.2222	348.45	977.03	2	348.45	33.85
35188	C33H67Cl	1-chlorotritriacontane	62016-85-7	51.453	960.92	1.2222	348.15	960.92	2	348.15	29.69
35189	C33H67F	1-fluorotritriacontane	62108-87-6	77.683	923.40	1.2222	350.15	923.40	2	350.15	43.38
35190	C33H67I	1-iodotritriacontane	62154-84-1	51.114	1031.91	1.2222	349.85	1031.91	2	349.85	30.81
35191	C33H68	tritriacontane	630-05-7	49.742	935.79	1.2222	344.20	935.79	2	344.20	28.40
35192	C33H69N	tritriacontylamine	---	58.366	991.36	1.2222	355.15	991.36	2	355.15	33.94
35193	C33H69N	methyldotriacontylamine	66214-25-3	52.210	949.80	1.2222	339.15	949.80	2	339.15	30.43
35194	C33H69N	ethylhentriacontylamine	66214-24-2	52.190	956.12	1.2222	339.15	956.12	2	339.15	30.55
35195	C33H69N	dimethylhentriacontylamine	66214-23-1	49.614	942.21	1.2222	340.00	942.21	2	340.00	28.71
35196	C33H69N	diethylnonacosylamine	66214-22-0	49.795	907.05	1.2222	340.00	907.05	2	340.00	28.04
35197	C33H69N	triundecylamine	42910-16-7	50.006	880.67	1.2222	340.00	880.67	2	340.00	27.55
35257	C34H62	octacosylbenzene	61828-26-0	52.796	937.81	1.2222	339.15	937.81	2	339.15	30.50
35260	C34H66	1-tetratriacontyne	26185-83-1	50.607	936.74	1.2222	347.15	936.74	2	347.15	28.74
35263	C34H67I	1-iodotetratriacontane	62154-85-2	50.757	1052.30	1.2222	348.95	1052.30	2	348.95	31.02
35265	C34H68	nonacosylcyclopentane	61827-92-7	57.739	945.42	1.2222	336.15	945.42	2	336.15	33.75
35266	C34H68	octacosylcyclohexane	61828-13-5	56.496	944.39	1.2222	341.15	944.39	2	341.15	32.67
35267	C34H68	1-tetratriacontene	61868-12-0	50.634	946.56	1.2222	343.65	946.56	2	343.65	29.18
35268	C34H68Br2	1,1-dibromotetratriacontane	62168-13-2	64.992	1027.44	1.2222	577.04	1027.44	2	577.04	23.72
35269	C34H68Cl2	1,1-dichlorotetratriacontane	62017-36-1	65.469	1007.06	1.2222	517.28	1007.06	2	517.28	27.13
35270	C34H68F2	1,1-difluorotetratriacontane	62127-23-5	53.402	922.37	1.2222	521.74	922.37	2	521.74	19.27
35271	C34H68I2	1,1-diiodotetratriacontane	66214-26-4	45.771	1474.00	1.2222	573.56	1474.00	2	573.56	25.06
35272	C34H68O2	hexadecyl stearate	1190-63-2	0.727	890.00	1.2222	330.15	890.00	2	330.15	0.41
35273	C34H68O2	isocetyl stearate	25339-09-7	0.727	890.00	1.2222	330.15	890.00	2	330.15	0.41
35274	C34H69Br	1-bromotetratriacontane	62108-50-3	57.902	993.37	1.2222	346.45	993.37	2	346.45	34.28
35275	C34H69Cl	1-chlorotetratriacontane	62016-86-8	51.069	976.98	1.2222	348.15	976.98	2	348.15	29.80
35276	C34H69F	1-fluorotetratriacontane	62108-88-7	77.796	939.21	1.2222	349.15	939.21	2	349.15	44.08
35277	C34H70	tetratriacontane	14167-59-0	49.523	950.88	1.2222	343.25	950.88	2	343.25	28.65
35278	C34H70	11-decyltetracosane	55429-84-0	49.523	950.88	1.2222	283.95	950.88	2	298.15	31.27
35280	C34H71N	tetratriacontylamine	66214-29-7	58.119	1008.41	1.2222	357.15	1008.41	2	357.15	34.06
35281	C34H71N	methyltritriacontylamine	66214-33-3	51.949	966.53	1.2222	340.15	966.53	2	340.15	30.57
35282	C34H71N	ethyldotriacontylamine	66214-32-2	51.934	974.18	1.2222	342.15	974.18	2	342.15	30.60
35283	C34H71N	diheptadecylamine	16130-73-7	51.943	969.08	1.2222	344.15	969.08	2	344.15	30.39
35284	C34H71N	dimethyldotriacontylamine	66214-31-1	49.382	959.24	1.2222	342.15	959.24	2	342.15	28.80
35285	C34H71N	diethyltriacontylamine	66214-30-0	49.520	923.81	1.2222	342.15	923.81	2	342.15	28.13
35312	C35H64	nonacosylbenzene	61828-27-1	52.538	951.23	1.2222	341.15	951.23	2	341.15	30.53
35313	C35H68	1-pentatriacontyne	61847-94-7	50.216	952.63	1.2222	349.15	952.63	2	349.15	28.74
35314	C35H70	triacontylcyclopentane	61827-93-8	57.527	959.65	1.2222	338.15	959.65	2	338.15	33.83
35315	C35H70	nonacosylcyclohexane	61828-14-6	56.302	958.18	1.2222	343.05	958.18	2	343.05	32.75
35316	C35H70	1-pentatriacontene	61868-13-1	50.405	963.51	1.2222	345.45	963.51	2	345.45	29.30
35317	C35H70Br2	1,1-dibromopentatriacontane	---	64.580	1045.87	1.2222	588.31	1045.87	2	588.31	23.51
35318	C35H70Cl2	1,1-dichloropentatriacontane	62017-37-2	64.987	1024.98	1.2222	528.55	1024.98	2	528.55	26.79
35319	C35H70F2	1,1-difluoropentatriacontane	62127-24-6	53.080	939.61	1.2222	533.01	939.61	2	533.01	19.07
35320	C35H70I2	1,1-diiodopentatriacontane	66576-85-0	44.954	1515.76	1.2222	584.83	1515.76	2	584.83	24.77
35321	C35H70O	18-pentatriacontanone	504-53-0	63.942	900.00	1.2222	362.15	900.00	2	362.15	34.08
35322	C35H71Br	1-bromopentatriacontane	62108-51-4	57.752	1010.87	1.2222	351.65	1010.87	2	351.65	34.25
35323	C35H71Cl	1-chloropentatriacontane	---	50.674	994.20	1.2222	351.15	994.20	2	351.15	29.75
35324	C35H71F	1-fluoropentatriacontane	62108-89-8	77.890	956.14	1.2222	354.15	956.14	2	354.15	44.25
35325	C35H71I	1-iodopentatriacontane	62154-86-3	50.392	1074.15	1.2222	352.85	1074.15	2	352.85	30.97
35326	C35H72	pentatriacontane	630-07-9	49.290	968.33	1.2222	347.85	968.33	2	347.85	28.61
35327	C35H73N	pentatriacontylamine	66576-87-2	57.860	1027.97	1.2222	358.15	1027.97	2	358.15	34.28
35328	C35H73N	methyltetratriacontylamine	66576-91-8	51.678	984.44	1.2222	341.15	984.44	2	341.15	30.72
35329	C35H73N	ethyltritriacontylamine	66576-90-7	51.670	992.16	1.2222	341.15	992.16	2	341.15	30.87
35330	C35H73N	dimethyltritriacontylamine	66576-89-4	49.142	976.13	1.2222	342.00	976.13	2	342.00	29.01
35331	C35H73N	diethylhentriacontylamine	66576-88-3	49.243	940.41	1.2222	342.00	940.41	2	342.00	28.34
35400	C36H66	triacontylbenzene	50715-02-1	52.267	965.65	1.2222	343.15	965.65	2	343.15	30.56
35408	C36H70	1-hexatriacontyne	61847-95-8	49.841	968.33	1.2222	350.15	968.33	2	350.15	28.80
35418	C36H72	hentriacontylcyclopentane	61827-94-9	57.299	974.92	1.2222	340.15	974.92	2	340.15	33.91
35419	C36H72	triacontylcyclohexane	61828-15-7	56.092	972.99	1.2222	344.75	972.99	2	344.75	32.86
35420	C36H72	1-hexatriacontene	61868-14-2	50.167	980.33	1.2222	347.05	980.33	2	347.05	29.41
35421	C36H72Br2	1,1-dibromohexatriacontane	62168-15-4	64.171	1064.34	1.2222	599.58	1064.34	2	599.58	23.31
35422	C36H72Cl2	1,1-dichlorohexatriacontane	62017-38-3	64.494	1044.19	1.2222	539.82	1044.19	2	539.82	26.50
35424	C36H72F2	1,1-difluorohexatriacontane	62127-25-7	52.749	958.04	1.2222	544.28	958.04	2	544.28	18.90
35425	C36H72I2	1,1-diiodohexatriacontane	66576-72-5	44.158	1559.68	1.2222	596.10	1559.68	2	596.10	24.51
35430	C36H73Br	1-bromohexatriacontane	7461-19-0	57.588	1029.64	1.2222	349.65	1029.64	2	349.65	34.68
35431	C36H73Cl	1-chlorohexatriacontane	62016-88-0	50.272	1012.64	1.2222	351.15	1012.64	2	351.15	29.87
35432	C36H73F	1-fluorohexatriacontane	62108-90-1	77.966	974.25	1.2222	353.15	974.25	2	353.15	44.97
35433	C36H73I	1-iodohexatriacontane	62154-87-4	50.030	1096.24	1.2222	351.95	1096.24	2	351.95	31.17
35434	C36H74	hexatriacontane	630-06-8	49.050	985.67	1.2222	349.35	985.67	2	349.35	28.73
35435	C36H74	13-undecylpentacosane	55517-89-0	49.050	985.67	1.2222	282.85	985.67	2	298.15	31.58
35437	C36H75N	hexatriacontylamine	45313-33-5	57.586	1047.57	1.2222	359.15	1047.57	2	359.15	34.47

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
35438	C36H75N	methylpentatriacontylamine	66577-27-3	48.654	1002.31	1.2222	342.15	1002.31	2	342.15	29.21
35439	C36H75N	ethyltetratriacontylamine	66577-26-2	51.396	1011.41	1.2222	345.45	1011.41	2	345.45	30.84
35440	C36H75N	dioctadecylamine	112-99-2	51.396	1006.21	1.2222	345.45	1006.21	2	345.45	30.74
35441	C36H75N	dimethyltetratriacontylamine	66577-25-1	48.893	992.92	1.2222	346.15	992.92	2	346.15	28.95
35442	C36H75N	diethyldotriacontylamine	66577-24-0	48.960	956.87	1.2222	325.72	956.87	2	325.72	29.44
35443	C36H75N	tridodecylamine	102-87-4	49.081	928.54	1.2222	288.85	928.54	2	298.15	30.57
35476	C37H68	hentriacontylbenzene	61828-28-2	51.994	979.86	1.2222	345.15	979.86	2	345.15	30.58
35477	C37H72	1-heptatriacontyne	---	49.456	985.15	1.2222	352.15	985.15	2	352.15	28.80
35478	C37H74	dotriacontylcyclopentane	---	57.058	990.03	1.2222	342.15	990.03	2	342.15	33.98
35479	C37H74	hentriacontylcyclohexane	61828-16-8	55.868	987.61	1.2222	346.45	987.61	2	346.45	32.95
35480	C37H74	1-heptatriacontene	61868-15-3	49.919	998.34	1.2222	348.65	998.34	2	348.65	29.53
35481	C37H74Br2	1,1-dibromoheptatriacontane	62168-16-5	63.734	1085.52	1.2222	610.85	1085.52	2	610.85	23.19
35482	C37H74Cl2	1,1-dichloroheptatriacontane	62017-39-4	63.994	1064.78	1.2222	551.09	1064.78	2	551.09	26.26
35483	C37H74F2	1,1-difluoroheptatriacontane	62127-26-8	52.413	976.45	1.2222	555.55	976.45	2	555.55	18.74
35484	C37H74I2	1,1-diiodoheptatriacontane	66577-05-7	43.380	1605.93	1.2222	607.37	1605.93	2	607.37	24.27
35486	C37H75Br	1-bromoheptatriacontane	62108-52-5	57.412	1049.74	1.2222	354.55	1049.74	2	354.55	34.69
35487	C37H75Cl	1-chloroheptatriacontane	62016-89-1	49.863	1032.39	1.2222	354.15	1032.39	2	354.15	29.84
35488	C37H75F	1-fluoroheptatriacontane	62108-91-2	78.026	993.63	1.2222	357.15	993.63	2	357.15	45.27
35489	C37H75I	1-iodoheptatriacontane	62154-88-5	49.651	1121.36	1.2222	355.65	1121.36	2	355.65	31.15
35490	C37H76	heptatriacontane	7194-84-5	48.800	1004.23	1.2222	350.85	1004.23	2	350.85	28.86
35491	C37H77N	heptatriacontylamine	66577-08-0	57.300	1068.57	1.2222	360.15	1068.57	2	360.15	34.67
35492	C37H77N	methylhexatriacontylamine	66577-12-6	51.105	1024.15	1.2222	343.15	1024.15	2	343.15	31.04
35493	C37H77N	ethylpentatriacontylamine	66577-11-5	51.111	1030.72	1.2222	343.15	1030.72	2	343.15	31.16
35494	C37H77N	dimethylpentatriacontylamine	66577-10-4	48.632	1012.28	1.2222	317.65	1012.28	2	317.65	30.69
35495	C37H77N	diethyltritriacontylamine	66577-09-1	48.664	975.85	1.2222	317.65	975.85	2	317.65	30.07
35496	C37H77N	N-methyldioctadecylamine	4088-22-6	48.480	1022.31	1.2222	317.65	1022.31	2	317.65	30.76
35513	C38H70	dotriacontylbenzene	61828-29-3	51.708	995.18	1.2222	347.15	995.18	2	347.15	30.61
35514	C38H74	1-octatriacontyne	---	49.064	1003.17	1.2222	353.15	1003.17	2	353.15	28.87
35518	C38H76	tritriacontylcyclopentane	---	56.801	1007.57	1.2222	343.15	1007.57	2	343.15	34.15
35519	C38H76	dotriacontylcyclohexane	61828-17-9	55.628	1004.63	1.2222	347.95	1004.63	2	347.95	33.08
35520	C38H76	1-octatriacontene	61868-16-4	49.661	1017.62	1.2222	350.15	1017.62	2	350.15	29.66
35521	C38H76Br2	1,1-dibromooctatriacontane	62168-17-6	63.300	1106.90	1.2222	622.12	1106.90	2	622.12	23.08
35522	C38H76Cl2	1,1-dichlorooctatriacontane	62017-40-7	63.506	1085.53	1.2222	562.36	1085.53	2	562.36	26.02
35523	C38H76F2	1,1-difluorooctatriacontane	62126-87-8	52.066	996.21	1.2222	566.82	996.21	2	566.82	18.61
35524	C38H76I2	1,1-diiodooctatriacontane	66577-13-7	42.620	1654.72	1.2222	618.64	1654.72	2	618.64	24.05
35526	C38H77Br	1-bromooctatriacontane	62108-53-6	57.206	1069.97	1.2222	352.55	1069.97	2	352.55	35.10
35527	C38H77Cl	1-chlorooctatriacontane	62016-90-4	49.466	1052.23	1.2222	354.15	1052.23	2	354.15	29.96
35528	C38H77F	1-fluorooctatriacontane	62108-92-3	77.997	1013.07	1.2222	355.15	1013.07	2	355.15	46.02
35529	C38H77I	1-iodooctatriacontane	62154-89-6	49.274	1146.96	1.2222	354.75	1146.96	2	354.75	31.35
35530	C38H78	octatriacontane	7194-85-6	48.539	1024.12	1.2222	352.15	1024.12	2	352.15	29.00
35531	C38H78	13-dodecylhexacosane	55517-73-2	48.539	1024.12	1.2222	286.85	1024.12	2	298.15	31.88
35532	C38H79N	octatriacontylamine	66576-94-1	57.001	1091.09	1.2222	361.15	1091.09	2	361.15	34.87
35533	C38H79N	methylheptatriacontylamine	66576-99-6	50.801	1043.48	1.2222	344.15	1043.48	2	344.15	31.15
35534	C38H79N	ethylhexatriacontylamine	66576-98-5	50.817	1052.80	1.2222	348.15	1052.80	2	348.15	31.11
35535	C38H79N	dinonadecylamine	66576-97-4	50.807	1047.47	1.2222	351.15	1047.47	2	351.15	30.85
35536	C38H79N	dimethylhexatriacontylamine	66576-96-3	51.087	1031.69	1.2222	349.15	1031.69	2	349.15	30.83
35537	C38H79N	diethyltetratriacontylamine	66576-95-2	48.360	994.85	1.2222	337.00	994.85	2	337.00	29.17
35553	C39H72	tritriacontylbenzene	61828-30-6	51.408	1011.66	1.2222	348.15	1011.66	2	348.15	30.70
35553.1	C39H72O5	glycerol dioleate	2465-32-9	4879.944	1025.00	1.1732	294.65	1025.00	2	298.15	3260.47
35555	C39H76	1-nonatriacontyne	---	48.684	1021.18	1.2222	355.15	1021.18	2	355.15	28.88
35556	C39H78	tetratriacontylcyclopentane	---	56.530	1025.07	1.2222	345.15	1025.07	2	345.15	34.23
35557	C39H78	tritriacontylcyclohexane	55517-75-4	55.374	1021.59	1.2222	349.45	1021.59	2	349.45	33.20
35558	C39H78	1-nonatriacontene	61868-17-5	49.392	1038.28	1.2222	351.55	1038.28	2	351.55	29.80
35559	C39H78Br2	1,1-dibrononatriacontane	62168-18-7	62.854	1129.91	1.2222	633.39	1129.91	2	633.39	23.01
35560	C39H78Cl2	1,1-dichlorononatriacontane	62017-41-8	63.010	1107.85	1.2222	573.63	1107.85	2	573.63	25.84
35561	C39H78F2	1,1-difluorononatriacontane	62126-88-9	51.710	1018.78	1.2222	578.09	1018.78	2	578.09	18.57
35562	C39H78I2	1,1-diiodononatriacontane	66576-58-7	41.878	1706.29	1.2222	629.91	1706.29	2	629.91	23.85
35563	C39H79Br	1-bromononatriacontane	62108-54-7	56.986	1091.72	1.2222	357.25	1091.72	2	357.25	35.11
35564	C39H79Cl	1-chlorononatriacontane	62016-91-5	49.062	1073.56	1.2222	357.15	1073.56	2	357.15	29.93
35565	C39H79F	1-fluorononatriacontane	62108-93-4	78.024	1035.28	1.2222	359.15	1035.28	2	359.15	46.35
35566	C39H79I	1-iodononatriacontane	62154-90-9	48.889	1174.54	1.2222	358.15	1174.54	2	358.15	31.34
35567	C39H80	nonatriacontane	7194-86-7	48.270	1045.41	1.2222	353.45	1045.41	2	353.45	29.15
35568	C39H81N	nonatriacontylamine	66576-42-9	56.690	1115.25	1.2222	362.15	1115.25	2	362.15	35.08
35569	C39H81N	methyloctatriacontylamine	66576-46-3	50.488	1065.67	1.2222	345.15	1065.67	2	345.15	31.29
35570	C39H81N	ethylheptatriacontylamine	66576-45-2	50.511	1075.11	1.2222	345.15	1075.11	2	345.15	31.47
35571	C39H81N	dimethylheptatriacontylamine	66576-44-1	48.081	1053.87	1.2222	347.00	1053.87	2	347.00	29.51
35572	C39H81N	diethylpentatriacontylamine	66576-43-0	48.048	1016.58	1.2222	347.00	1016.58	2	347.00	28.84
35573	C39H81N	tritridecylamine	5910-77-0	48.078	985.94	1.2222	347.00	985.94	2	347.00	28.29
35615	C40H74	tetratriacontylbenzene	61828-31-7	51.096	1029.38	1.2222	350.15	1029.38	2	350.15	30.74
35616	C40H78	1-tetracontyne	---	48.276	1041.84	1.2222	356.15	1041.84	2	356.15	28.95
35617	C40H80	pentatriacontylcyclopentane	61827-98-3	56.244	1043.89	1.2222	347.15	1043.89	2	347.15	34.31
35618	C40H80	tetratriacontylcyclohexane	61828-19-1	55.105	1039.83	1.2222	350.85	1039.83	2	350.85	33.32
35619	C40H80	1-tetracontene	61868-18-6	49.112	1059.09	1.2222	352.95	1059.09	2	352.95	29.92
35620	C40H80Br2	1,1-dibromotetracontane	62168-19-8	62.398	1154.67	1.2222	644.66	1154.67	2	644.66	22.98
35621	C40H80Cl2	1,1-dichlorotetracontane	62017-42-9	62.504	1131.86	1.2222	584.90	1131.86	2	584.90	25.70
35622	C40H80F2	1,1-difluorotetracontane	62126-89-0	51.345	1040.24	1.2222	589.36	1040.24	2	589.36	18.48
35623	C40H80I2	1,1-diiodotetracontane	66576-47-4	41.152	1760.88	1.2222	641.18	1760.88	2	641.18	23.66
35626	C40H81Br	1-bromotetracontane	62108-55-8	56.755	1115.11	1.2222	355.25	1115.11	2	355.25	35.51
35627	C40H81Cl	1-chlorotetracontane	62016-92-6	48.650	1096.50	1.2222	357.15	1096.50	2	357.15	30.05
35628	C40H81F	1-fluorotetracontane	62108-94-5	77.960	1057.73	1.2222	358.15	1057.73	2	358.15	47.04

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
35629	C40H81I	1-iodotetracontane	62154-91-0	48.499	1204.29	1.2222	357.25	1204.29	2	357.25	31.55
35630	C40H82	tetracontane	4181-95-7	47.992	1068.24	1.2222	354.65	1068.24	2	354.65	29.31
35631	C40H83N	tetracontylamine	66576-50-9	56.361	1139.81	1.2222	363.15	1139.81	2	363.15	35.27
35632	C40H83N	methylnonatriacontylamine	66576-36-1	50.166	1089.54	1.2222	346.15	1089.54	2	346.15	31.44
35633	C40H83N	ethyloctatriacontylamine	66576-53-2	50.195	1099.12	1.2222	349.65	1099.12	2	349.65	31.43
35634	C40H83N	dieicosylamine	3071-00-9	50.178	1093.64	1.2222	353.15	1093.64	2	353.15	31.15
35635	C40H83N	dimethyloctatriacontylamine	66576-52-1	47.790	1076.31	1.2222	352.15	1076.31	2	352.15	29.44
35636	C40H83N	diethylhexatriacontylamine	66576-51-0	47.727	1038.51	1.2222	352.15	1038.51	2	352.15	28.77
35656	C41H76	pentatriacontylbenzene	61828-32-8	50.773	1048.44	1.2222	352.15	1048.44	2	352.15	30.79
35658	C41H82	hexatriacontylcyclopentane	61827-99-4	55.945	1064.12	1.2222	348.15	1064.12	2	348.15	34.47
35659	C41H82	pentatriacontylcyclohexane	61828-20-4	54.825	1060.75	1.2222	352.25	1060.75	2	352.25	33.48
35660	C41H84	n-hentetracontane	7194-87-8	47.744	1089.24	1.2222	353.90	1089.24	2	353.90	29.54
35703	C42H78	hexatriacontylbenzene	61828-33-9	50.446	1067.60	1.2222	353.15	1067.60	2	353.15	30.88
35705	C42H84	hexatriacontylcyclohexane	61828-21-5	54.522	1079.19	1.2222	353.55	1079.19	2	353.55	33.57
35708	C42H86	n-dotetracontane	7098-20-6	47.516	1110.24	1.2222	356.10	1110.24	2	356.10	29.62
35709	C42H87N	tritetradecylamine	27911-72-4	47.008	1054.03	1.2222	306.15	1054.03	2	306.15	30.91
35735	C43H88	tritetracontane	7098-21-7	47.291	1131.24	1.2222	358.65	1131.24	2	358.65	29.67
35763	C44H90	n-tetratetracontane	7098-22-8	47.082	1152.24	1.2222	359.15	1152.24	2	359.15	29.83
35774	C45H92	n-pentatetracontane	7098-23-9	46.903	1173.24	1.2222	360.00	1173.24	2	360.00	29.97
35775	C45H93N	tripentadecylamine	66576-66-7	47.036	1076.51	1.2222	310.00	1076.51	2	310.00	31.06
35788	C46H94	n-hexatetracontane	7098-24-0	46.708	1194.24	1.2222	361.00	1194.24	2	361.00	30.08
35798	C47H96	n-heptatetracontane	7098-25-1	46.526	1215.24	1.2222	361.20	1215.24	2	361.20	30.23
35816	C48H98	n-octatetracontane	7098-26-2	46.384	1236.24	1.2222	361.40	1236.24	2	361.40	30.40
35817	C48H99N	trihexadecylamine	28947-77-5	46.440	1133.51	1.2222	316.15	1133.51	2	316.15	31.14
35823	C49H100	n-nonatetracontane	7098-27-3	46.196	1257.24	1.2222	363.00	1257.24	2	363.00	30.46
35831	C50H102	n-pentacontane	6596-40-3	46.046	1278.24	1.2222	365.30	1278.24	2	365.30	30.52
35838	C51H104	n-henpentacontane	7667-76-7	45.904	1299.24	1.2222	366.00	1299.24	2	366.00	30.64
35839	C51H105N	triheptadecylamine	66575-83-5	46.214	1171.51	1.2222	325.00	1171.51	2	325.00	31.07
35847	C52H106	n-dopentacontane	7719-79-1	45.745	1320.24	1.2222	367.00	1320.24	2	367.00	30.72
35849	C53H108	n-tripentacontane	'7719-80-4	45.619	1341.24	1.2222	367.50	1341.24	2	367.50	30.84
35869	C54H110	n-tetrapentacontane	5856-66-6	45.474	1362.24	1.2222	368.00	1362.24	2	368.00	30.95
35871	C54H111N	trioctadecylamine	102-88-5	45.703	1229.51	1.2222	327.15	1229.51	2	327.15	31.31
35880	C55H112	n-pentapentacontane	5846-40-2	45.337	1383.24	1.2222	368.50	1383.24	2	368.50	31.05
35891	C56H114	n-hexapentacontane	7719-82-6	45.205	1404.24	1.2222	369.00	1404.24	2	369.00	31.14
35900	C57H116	n-heptapentacontane	5856-67-7	45.080	1425.24	1.2222	369.70	1425.24	2	369.70	31.23
35901	C57H117N	trinonadecylamine	66575-72-2	45.296	1286.51	1.2222	330.00	1286.51	2	330.00	31.53
35904	C58H118	n-octapentacontane	7667-78-9	44.959	1446.24	1.2222	370.00	1446.24	2	370.00	31.33
35908	C59H120	n-nonapentacontane	7667-79-0	44.843	1467.24	1.2222	371.00	1467.24	2	371.00	31.40
35922	C60H122	n-hexacontane	7667-80-3	45.257	1488.24	1.2222	372.10	1488.24	1,2	372.10	31.84
35923	C60H123N	trieicosylamine	45324-58-1	44.930	1343.51	1.2222	335.15	1343.51	2	335.15	31.64
35925	C61H124	n-henhexacontane	7667-81-4	44.603	1509.24	1.2222	373.00	1509.24	2	373.00	31.53
35932	C62H126	n-dohexacontane	7719-83-7	44.498	1530.24	1.2222	375.00	1530.24	2	375.00	31.56
35940	C63H128	n-trihexacontane	7719-84-8	44.378	1551.24	1.2222	375.10	1551.24	2	375.10	31.64
35943	C64H130	n-tetrahexacontane	7719-87-1	44.261	1572.24	1.2222	375.20	1572.24	2	375.20	31.72
35944	C65H132	n-pentahexacontane	7719-88-2	44.148	1593.24	1.2222	376.00	1593.24	2	376.00	31.77
35949	C66H134	n-hexahexacontane	7719-89-3	44.055	1614.24	1.2222	376.80	1614.24	2	376.80	31.83
35952	C67H136	n-heptahexacontane	7719-90-6	43.947	1635.24	1.2222	377.30	1635.24	2	377.30	31.89
35956	C68H138	n-octahexacontane	7719-91-7	43.842	1656.24	1.2222	377.70	1656.24	2	377.70	31.95
35958	C69H140	n-nonahexacontane	7719-92-8	43.739	1677.24	1.2222	378.10	1677.24	2	378.10	32.01
35960	C70H142	n-heptacontane	7719-93-9	43.638	1698.24	1.2222	378.40	1698.24	2	378.40	32.07
35961	C71H144	n-henheptacontane	7667-82-5	43.526	1719.24	1.2222	373.80	1719.24	2	373.80	32.26
35968	C72H146	n-doheptacontane	7667-83-6	43.430	1740.24	1.2222	374.60	1740.24	2	374.60	32.29
35970	C73H148	n-triheptacontane	7667-84-7	43.335	1761.24	1.2222	375.40	1761.24	2	375.40	32.33
35972	C74H150	n-tetraheptacontane	7667-85-8	43.230	1782.24	1.2222	376.20	1782.24	2	376.20	32.35
35975	C75H152	n-pentaheptacontane	7667-86-9	43.138	1803.24	1.2222	377.00	1803.24	2	377.00	32.39
35977	C76H154	n-hexaheptacontane	7667-87-0	43.037	1824.24	1.2222	377.80	1824.24	2	377.80	32.41
35979	C77H156	n-heptaheptacontane	7719-94-0	42.947	1845.24	1.2222	378.60	1845.24	2	378.60	32.44
35980	C78H158	n-octaheptacontane	7719-85-9	42.850	1866.24	1.2222	379.40	1866.24	2	379.40	32.46
35982	C79H160	n-nonaheptacontane	7719-86-0	42.761	1887.24	1.2222	380.20	1887.24	2	380.20	32.48
35984	C80H162	n-octacontane	7667-88-1	42.667	1908.24	1.2222	381.00	1908.24	2	381.00	32.50
35985	C81H164	n-henoctacontane	7667-89-2	42.574	1929.24	1.2222	382.00	1929.24	2	382.00	32.51
35986	C82H166	n-dooctacontane	7719-95-1	42.482	1950.24	1.2222	383.50	1950.24	2	383.50	32.51
35987	C83H168	n-trioctacontane	7667-90-5	42.392	1971.24	1.2222	383.80	1971.24	2	383.80	32.53
35990	C84H170	n-tetraoctacontane	7667-91-6	42.303	1992.24	1.2222	384.10	1992.24	2	384.10	32.56
35991	C85H172	n-pentaoctacontane	7719-96-2	42.214	2013.24	1.2222	384.40	2013.24	2	384.40	32.58
35992	C86H174	n-hexaoctacontane	7667-92-7	42.127	2034.24	1.2222	384.70	2034.24	2	384.70	32.61
35993	C87H176	n-heptaoctacontane	7667-93-8	42.041	2055.24	1.2222	385.00	2055.24	2	385.00	32.63
35998	C88H178	n-octaoctacontane	7667-94-9	41.955	2076.24	1.2222	385.30	2076.24	2	385.30	32.65
36000	C89H180	n-nonaoctacontane	7719-76-8	41.870	2097.24	1.2222	385.60	2097.24	2	385.60	32.66
36002	C90H182	n-nonacontane	7667-51-8	41.786	2118.24	1.2222	385.90	2118.24	2	385.90	32.68
36003	C91H184	n-hennonacontane	7719-97-3	41.702	2139.24	1.2222	386.20	2139.24	2	386.20	32.69
36004	C92H186	n-dononacontane	7667-95-0	41.618	2160.24	1.2222	386.50	2160.24	2	386.50	32.71
36005	C93H188	n-trinonacontane	7667-96-1	41.535	2181.24	1.2222	386.80	2181.24	2	386.80	32.72
36006	C94H190	n-tetranonacontane	1574-32-9	41.455	2202.24	1.2222	387.40	2202.24	2	387.40	32.73
36008	C95H192	n-pentanonacontane	7667-97-2	41.373	2223.24	1.2222	387.50	2223.24	2	387.50	32.74
36010	C96H194	n-hexanonacontane	7763-13-5	41.291	2244.24	1.2222	387.60	2244.24	2	387.60	32.75
36011	C97H196	n-heptanonacontane	7670-25-9	41.215	2265.24	1.2222	387.70	2265.24	2	387.70	32.76
36012	C98H198	n-octanonacontane	7670-26-0	41.133	2286.24	1.2222	387.80	2286.24	2	387.80	32.77
36013	C99H200	n-nonanonacontane	7670-27-1	41.059	2307.24	1.2222	387.90	2307.24	2	387.90	32.79
36014	C100H202	n-hectane	6703-98-6	40.978	2328.24	1.2222	388.40	2328.24	2	388.40	32.78

Table 21 Surface Tension - Organic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
code: 1 - data, 2 - estimate											
sigma - surface tension, dynes/cm											
A, B, and n - regression coefficients of chemical compound											
T- temperature, K											
TMAX - maximum temperature, K											
TMIN - minimum temperature, K											

Chapter 22

SURFACE TENSION – INORGANIC COMPOUNDS

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Tabulation Results

The results are given in Table 22. For the tabulation, a modified Othmer relation was selected for correlation of surface tension as a function of temperature:

$$\text{sigma} = A\,(1 - T/B)^n \qquad (22)$$

where sigma = surface tension, dynes/cm
A, B, and n = regression coefficients for chemical compound
T = temperature, K

The tabulation is arranged by alphabetical order (Ag, Al, Ar, ..., Zr) to provide ease of use in quickly locating the data by using the chemical formula. The compound name and CAS No (Chemical Abstracts Registry Number) are next provided. Values for regression coefficients are given in the adjacent columns. The temperature range for use is given in the next columns (TMIN and TMAX). The equation should not be used for temperatures outside this range. The next column provides the code for the tabulation. The last two columns provide a representative temperature and value for surface tension at the representative temperature.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-38). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of values for the remaining compounds was performed.

The compilations of CRC (3-4); Daubert and Danner (6); Jasper (13); Keene (16); Lu and Jiang (19); Mills and Su (21); and Yaws (35-38) were used extensively. The reviews of Keene (16) and Mills and Su (21) were especially valuable and helpful for the metals. The review of Jasper (13) was especially valuable and helpful for gases and liquids. Estimates were primarily based on the Sugden method (24-25). Experimental data and estimates were then regressed to provide the same equation for all compounds.

A comparison of calculated and data values is shown in Figure 22 for a representative compound. The graph shows favorable agreement of equation and data.

Example

In an engineering analysis, the surface tension is needed for xenon (Xe) at 215 K. Determine the surface tension of xenon at this temperature.

Substitution of the coefficients from the tabulation and temperature into the above equation yields:

$$\text{surface tension} = 54.300\,(1-215.0/289.74)^{1.2829}$$

surface tension = 9.55 dynes/cm

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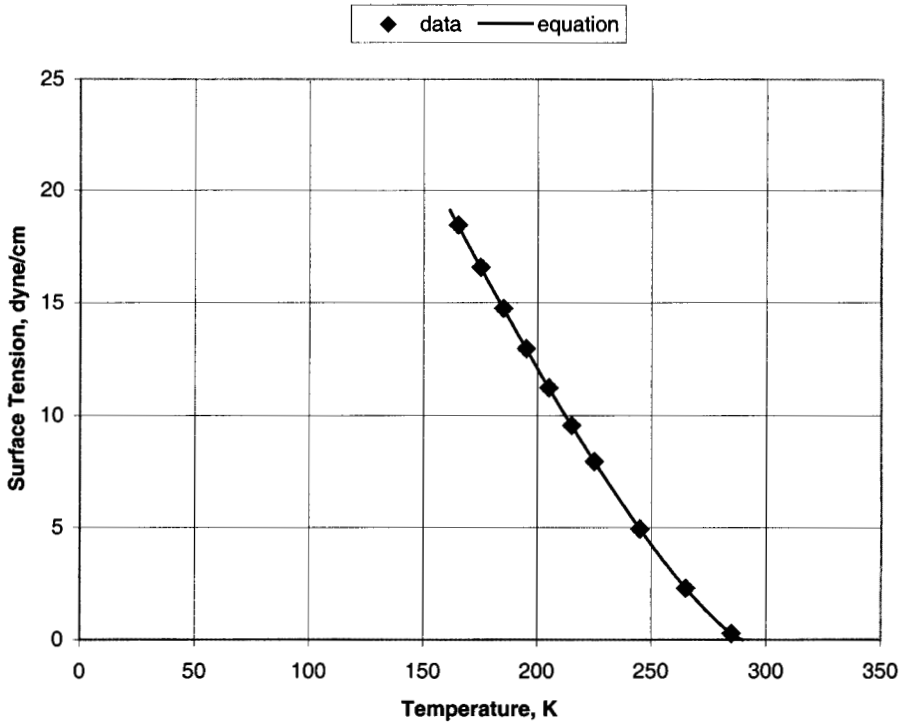


Figure 22 Surface Tension of Xenon

Table 22 Surface Tension - Inorganic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
13	Ag	silver	7440-22-4	1207.136	6410.00	1.2411	1233.00	1610.00	1,2	1233.00	926.00
16	AgBr	silver bromide	7785-23-1	175.450	6500.00	1.1330	773.15	1023.15	1,2	773.15	152.00
35	AgCl	silver (i) chloride	7783-90-6	214.950	4500.00	1.0605	773.15	1023.15	1,2	773.15	176.00
45	AgI	silver (i) iodide	7783-96-2	194.762	2493.45	1.2222	873.15	923.15	1,2	873.15	115.00
49	AgNO3	silver (i) nitrate	7761-88-8	192.866	2600.00	1.1492	517.15	723.15	1,2	517.15	149.48
77	Al	aluminum	7429-90-5	1310.640	9300.00	2.0973	933.00	1700.00	1,2	933.00	1050.00
80	AlB3H12	aluminum borohydride	16962-07-5	142.470	513.77	1.2222	209.15	513.77	2	298.15	49.30
96	AlC6H15	aluminum, triethyl	97-93-8	53.492	678.15	1.2222	301.15	678.15	1,2	301.15	26.10
127	AlCl3	aluminum chloride	7446-70-0	85.633	629.00	1.5519	465.70	629.00	2	465.70	10.56
155	Al2C6H15Cl3	aluminum, ethyl sesquichloride	12075-68-2	55.899	800.00	1.2222	293.15	350.00	1,2	298.15	31.61
167	Al2O3	aluminum oxide	1344-28-1	1148.443	6975.00	1.2222	2323.15	2373.15	1,2	2323.15	700.00
200	Ar	argon	7440-37-1	38.245	150.86	1.2927	83.80	150.86	1,2	83.80	13.41
203	AsBr3	arsenic (iii) bromide	7784-33-0	76.665	1000.00	1.2489	394.15	552.85	1,2	394.15	41.00
228	AsCl3	arsenic trichloride	7784-34-1	70.705	800.00	1.2648	252.15	483.15	1,2	298.15	39.20
230	AsF3	arsenic trifluoride	7784-35-2	114.538	530.21	1.2222	267.25	530.21	2	298.15	41.72
231	AsF5	arsenic pentafluoride	7784-36-3	46.608	357.73	1.2222	193.35	357.73	2	298.15	5.21
234	AsH3	arsine	7784-42-1	66.865	373.00	1.3006	156.23	373.00	2	298.15	8.28
256	Au	gold	7440-57-5	1353.159	10000.00	1.1326	1338.00	1650.00	1,2	1338.00	1150.00
283	B	boron	7440-42-8	1636.592	7934.59	1.2222	2348.15	2800.00	1,2	2348.15	1065.84
285	BBr3	boron tribromide	10294-33-4	69.048	581.00	1.2222	228.15	581.00	2	298.15	28.65
361	BCl3	boron trichloride	10294-34-5	56.811	451.95	1.1470	166.15	451.95	2	298.15	16.50
363	BF3	boron trifluoride	7637-07-2	57.520	260.90	1.1078	144.79	260.90	2	144.79	23.46
368	BH2CO	borine carbonyl	---	61.008	340.03	1.2222	136.15	340.03	2	298.15	4.72
391	B2D6	diborane, deutero	20396-66-1	33.206	293.74	1.2222	100.00	293.74	2	100.00	19.97
393	B2H5Br	diborane hydrobromide	---	55.196	466.98	1.2222	168.95	466.98	2	298.15	15.92
394	B2H6	diborane	19287-45-7	43.269	289.80	1.1520	107.65	289.80	1,2	107.65	25.34
401	B3N3H6	borazine	6569-51-3	47.906	521.20	1.2222	214.95	521.20	2	298.15	16.98
404	B4H10	tetraborane	18283-93-7	49.076	466.66	1.2222	153.25	466.66	2	298.15	14.13
405	B5H9	pentaborane	19624-22-7	51.430	568.45	1.2222	226.35	568.45	2	298.15	20.73
406	B5H11	pentaborane	18433-84-6	55.631	547.13	1.2222	225.00	547.13	2	298.15	21.25
416	Ba	barium	7440-39-3	347.594	5500.00	1.2038	1000.00	1600.00	1,2	1000.00	273.00
423	BaBr2	barium bromide	10553-31-8	233.875	3500.00	1.0879	1173.15	1323.15	1,2	1173.15	150.00
454	BaCl2	barium chloride	10361-37-2	247.216	4200.00	1.0846	1239.15	1373.15	1,2	1239.15	169.20
487	BaN2O6	barium nitrate	10022-31-8	147.926	11500.00	1.1838	873.15	983.15	1,2	873.15	134.73
530	Be	beryllium	7440-41-7	1830.039	5205.00	1.2222	1773.00	1873.00	1,2	1773.00	1100.00
562	Bi	bismuth	7440-69-9	426.032	6000.00	1.1478	544.00	873.00	1,2	544.00	382.00
564	BiBr3	bismuth tribromide	7787-58-8	134.356	1473.45	1.6208	523.15	773.15	1,2	523.15	66.00
576	BiCl3	bismuth trichloride	7787-60-2	158.164	1200.00	1.4075	548.15	698.15	1,2	548.15	67.00
626	BrF3	bromine trifluoride	7787-71-5	65.631	845.76	1.3938	285.15	368.15	1,2	298.15	35.81
628	BrF5	bromine pentafluoride	7789-30-2	49.677	637.95	1.2459	282.15	356.15	1,2	298.15	22.66
633	Br2	bromine	7726-95-6	93.909	584.15	1.1620	265.85	584.15	1,2	298.15	40.95
641	CCl2O	carbonyl chloride	75-44-5	65.193	455.00	1.1600	145.37	455.00	2	298.15	18.95
642	CF2O	carbonyl fluoride	353-50-4	67.776	297.00	1.2222	161.89	297.00	2	161.89	25.88
645	CH4N2S	thiourea	62-56-6	26.302	854.00	1.2222	454.15	854.00	2	454.15	10.40
646	CNBr	cyanogen bromide	506-68-3	89.778	545.03	1.2222	331.15	545.03	2	331.15	28.62
647	CNCl	cyanogen chloride	506-77-4	79.260	449.00	1.1873	266.65	449.00	2	298.15	21.71
648	CNF	cyanogen fluoride	1495-50-7	89.491	368.51	1.2222	150.00	368.51	2	298.15	11.83
651	CN4O8	tetranitromethane	509-14-8	68.260	540.00	1.0356	287.05	540.00	1,2	298.15	29.71
652	CO	carbon monoxide	630-08-0	27.960	132.92	1.1330	68.15	132.92	1,2	68.15	12.38
653	COS	carbonyl sulfide	463-58-1	75.960	378.80	1.4660	134.30	378.80	1,2	298.15	7.87
654	COSe	carbon oxyselenide	1603-84-5	101.334	406.58	1.2222	150.00	406.58	2	298.15	20.15
655	CO2	carbon dioxide	124-38-9	79.971	304.19	1.2617	216.58	304.19	1,2	298.15	0.57
656	CS2	carbon disulfide	75-15-0	82.120	552.00	1.2283	161.11	552.00	1,2	298.15	31.63
661	C2N2	cyanogen	460-19-5	79.777	399.90	1.2222	238.75	399.90	2	298.15	14.98
675	Ca	calcium	7440-70-2	479.360	5500.00	1.2276	1100.00	1720.00	1,2	1100.00	364.50
682	CaBr2	calcium bromide	7789-41-5	167.554	4200.00	1.2349	1053.15	1123.15	1,2	1053.15	117.31
713	CaCl2	calcium chloride	10043-52-4	207.540	4100.00	1.0574	1073.15	1323.15	1,2	1073.15	150.57
746	CaI2	calcium iodide	10102-68-8	106.587	5500.00	1.0426	1073.15	1323.15	1,2	1073.15	85.00
751	CaN2O6	calcium nitrate	10124-37-5	166.483	2502.45	1.2222	833.15	883.15	1,2	833.15	101.50
776	Cd	cadmium	7440-43-9	727.579	5500.00	1.1633	594.00	1000.00	1,2	594.00	637.00
777	CdBr2	cadmium bromide	7789-42-6	84.823	4800.00	1.1748	873.15	1023.15	1,2	873.15	67.00
791	CdCl2	cadmium chloride	10108-64-2	105.122	4500.00	1.0954	873.15	1123.15	1,2	873.15	83.00
830	Ce	cerium	7440-45-1	874.589	13000.00	1.1135	1081.00	1580.00	1,2	1081.00	794.00
891	ClF	chlorine monofluoride	7790-89-8	79.825	282.32	1.2222	128.15	282.32	2	128.15	38.11
892	ClFO3	perchloryl fluoride	7616-94-6	66.214	368.40	1.2957	125.41	368.40	2	298.15	7.74
893	ClF3	chlorine trifluoride	7790-91-2	81.618	459.39	1.2222	190.15	459.39	2	298.15	22.70
894	ClF5	chlorine pentafluoride	13637-63-3	65.891	415.90	1.2222	190.00	415.90	2	298.15	14.09
898	ClO2	chlorine dioxide	10049-04-4	100.290	465.00	1.2523	213.55	465.00	2	298.15	27.79
899	Cl2	chlorine	7782-50-5	67.559	417.15	1.0850	172.12	417.15	1,2	298.15	17.32
900	Cl2O	chlorine monoxide	7791-21-1	91.930	444.68	1.2222	157.15	444.68	2	298.15	23.67
905	Cl2O7	chlorine heptoxide	10294-48-1	69.470	565.78	1.2222	182.15	565.78	2	298.15	27.83
916	Co	cobalt	7440-48-4	2522.664	7398.48	1.0380	1768.00	2000.00	1,2	1768.00	1900.00
1002	CoNC3O4	cobalt nitrosyl tricarbonyl	14096-82-3	64.857	567.68	1.2222	262.15	567.68	2	298.15	26.10
1035	Cr	chromium	7440-47-3	3059.065	8560.93	1.9841	1920.00	2218.00	1,2	1920.00	1848.24
1099	CrO2Cl2	chromium oxychloride	14977-61-8	84.894	626.33	1.2222	176.65	626.33	2	298.15	38.53
1124	Cs	cesium	7440-46-2	704.220	17000.00	1.1419	301.00	1200.00	1,2	301.00	690.00
1128	CsBr	cesium bromide	7787-69-1	142.992	2500.00	1.1934	923.15	1323.15	1,2	923.15	82.50
1137	CsCl	cesium chloride	7647-17-8	174.620	2200.00	1.1832	973.15	1423.15	1,2	973.15	87.50
1140	CsF	cesium fluoride	13400-13-0	179.820	2868.45	1.2731	973.15	1423.15	1,2	973.15	106.10
1144	CsI	cesium iodide	7789-17-5	133.045	2500.00	1.2885	923.15	1323.15	1,2	923.15	73.47

Table 22 Surface Tension - Inorganic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
1147	CsNO3	cesium nitrate	7789-18-6	140.288	2061.45	1.0272	694.15	920.15	1,2	694.15	92.02
1165	Cs2SO4	cesium sulfate	10294-54-9	203.443	3834.45	1.4299	1273.15	1823.15	1,2	1273.15	114.25
1169	Cu	copper	7440-50-8	1712.134	7000.00	1.2060	1358.00	1770.00	1,2	1358.00	1320.00
1298	DCN	deuterium cyanide	3017-23-0	140.257	482.63	1.2222	261.15	482.63	2	298.15	43.30
1302	D2	deuterium	7782-39-0	10.392	38.35	1.3365	18.73	38.35	1,2	18.73	4.24
1303	D2O	deuterium oxide	7789-20-0	147.796	643.89	1.2222	278.15	643.89	1,2	298.15	69.12
1307	Dy	dysprosium	7429-91-6	890.438	8561.50	1.3697	1773.00	1980.00	1,2	1773.00	648.00
1332	Er	erbium	7440-52-0	866.509	9714.25	1.4987	1803.00	1980.00	1,2	1803.00	637.00
1369	Eu	europium	7440-53-1	320.345	7500.00	1.2209	1099.00	1500.00	1,2	1099.00	264.00
1406	FNO	nitrosyl fluoride	7789-25-5	61.495	352.67	1.2222	139.15	352.67	2	298.15	6.28
1409	F2	fluorine	7782-41-4	39.925	144.31	1.2215	53.48	144.31	1,2	53.48	22.68
1412	F2O	fluorine oxide	7783-41-7	42.925	215.10	1.2222	49.25	215.10	2	49.25	31.24
1420	Fe	iron	7439-89-6	2707.417	9340.00	1.6921	1811.00	2450.00	1,2	1811.00	1880.00
1434	FeC5O5	iron pentacarbonyl	13463-40-6	49.272	607.20	1.2222	252.15	607.20	2	298.15	21.58
1532	FeO	iron (ii) oxide	1345-25-1	966.879	4950.00	1.2222	1673.15	1723.15	1,2	1673.15	584.00
1575	Ga	gallium	7440-55-3	745.335	12000.00	1.1356	303.00	1000.00	1,2	303.00	724.00
1584	GaCl2	gallium (ii) chloride	24597-12-4	171.720	1216.16	2.4491	439.15	493.15	1,2	439.15	57.32
1585	GaCl3	gallium trichloride	13450-90-3	74.510	800.00	1.7430	353.15	463.15	1,2	353.15	27.00
1610	Gd	gadolinium	7440-54-2	758.727	14000.00	1.0823	1623.00	1950.00	1,2	1623.00	664.00
1637	Ge	germanium	7440-56-4	791.848	9803.00	2.0161	1211.00	1500.00	1,2	1211.00	607.00
1639	GeBr4	germanium bromide	13450-92-5	67.626	740.00	1.2222	299.25	740.00	2	299.25	35.90
1661	GeCl4	germanium chloride	10038-98-9	56.194	574.00	1.2222	223.65	574.00	2	298.15	22.95
1668	GeHCl3	germane, trichloro	1184-65-2	62.848	559.78	1.2222	202.05	559.78	2	298.15	24.81
1675	GeH4	germane	7782-65-2	46.414	308.00	1.1826	107.26	308.00	2	298.15	0.79
1686	Ge2H6	digermane	13818-89-8	60.271	491.01	1.2222	164.15	491.01	2	298.15	19.23
1687	Ge3H8	trigermane	14691-44-2	66.422	616.37	1.2222	167.55	616.37	2	298.15	29.61
1691	HBr	hydrogen bromide	10035-10-6	75.307	363.15	1.2220	185.15	363.15	1,2	298.15	9.20
1694	HCN	hydrogen cyanide	74-90-8	52.256	456.65	1.0198	259.91	456.65	2	298.15	17.76
1695	HCl	hydrogen chloride	7647-01-0	85.199	324.65	1.2970	158.97	324.65	2	298.15	3.30
1696	HClO3S	chlorosulfonic acid	7790-94-5	87.912	700.00	1.1833	193.15	700.00	2	298.15	45.59
1697	HClO4	perchloric acid	7601-90-3	75.746	631.00	1.2222	171.95	631.00	2	298.15	34.66
1698	HF	hydrogen fluoride	7664-39-3	36.481	461.15	1.4122	189.79	461.15	1,2	298.15	8.40
1699	HI	hydrogen iodide	10034-85-2	63.771	423.85	1.0749	222.38	423.85	1,2	298.15	17.27
1702	HNO3	nitric acid	7697-37-2	108.597	520.00	1.2222	273.15	520.00	1,2	298.15	38.34
1709	H2	hydrogen	1333-74-0	5.336	33.18	1.0622	13.95	33.18	1,2	13.95	2.99
1712	H2O	water	7732-18-5	134.834	647.13	1.0000	273.16	647.13	1,2	298.15	72.71
1713	H2O2	hydrogen peroxide	7722-84-1	140.467	730.15	1.2222	272.74	730.15	2	298.15	73.96
1714	H2S	hydrogen sulfide	7783-06-4	74.257	373.53	1.2997	187.68	373.53	1,2	298.15	9.28
1716	H2SO4	sulfuric acid	7664-93-9	82.651	925.00	1.2222	283.15	925.00	1,2	298.15	51.37
1718	H2S2	hydrogen disulfide	13465-07-1	116.241	542.39	1.2222	183.45	542.39	2	298.15	43.84
1719	H2Se	hydrogen selenide	7783-07-5	88.314	411.10	1.3180	207.45	411.10	1,2	298.15	16.09
1721	H2Te	hydrogen telluride	7783-09-7	98.345	438.04	1.2222	224.15	438.04	2	298.15	24.37
1722	H3NO	hydroxylamine	7803-49-8	280.055	574.00	1.2222	306.25	574.00	2	306.25	110.27
1738	He	helium-3	14762-55-1	0.204	3.31	1.0000	1.01	3.31	1,2	1.01	0.14
1739	He	helium-4	7440-59-7	0.511	5.20	1.0000	2.20	5.20	1,2	2.20	0.29
1740	Hf	hafnium	7440-58-6	1865.959	20000.00	1.0845	2504.00	2680.00	1,2	2504.00	1614.00
1771	Hg	mercury	7439-97-6	543.863	2700.00	1.1677	235.00	440.00	1,2	298.15	474.40
1773	HgBr2	mercuric bromide	7789-47-1	135.960	1527.45	1.8360	514.15	599.15	1,2	514.15	64.00
1800	HgCl2	mercuric chloride	7487-94-7	93.690	1647.45	1.2222	566.15	616.15	1,2	566.15	56.00
1841	Ho	holmium	7440-60-0	879.252	9067.21	1.3846	1745.00	1950.00	1,2	1745.00	654.00
1868	IF5	iodine pentafluoride	7783-66-6	189.605	500.00	2.0744	291.15	351.15	1,2	298.15	28.88
1869	IF7	iodine heptafluoride	16921-96-3	51.301	447.53	1.2222	278.65	447.53	2	298.15	13.42
1873	I2	iodine	7553-56-2	333.047	500.00	1.2222	386.75	819.15	1,2	386.75	54.23
1877	In	indium	7440-74-6	598.651	6730.00	1.0133	429.00	1000.00	1,2	429.00	560.00
1917	Ir	iridium	7439-88-5	2958.942	15035.00	1.3747	2716.00	3000.00	1,2	2716.00	2250.00
1960	K	potassium	7440-09-7	135.120	2223.00	1.2511	337.00	900.00	1,2	337.00	110.00
1971	KBO2	potassium metaborate	13709-94-9	387.776	2100.00	1.2404	1265.15	1515.15	1,2	1265.15	123.50
1972	KBr	potassium bromide	7758-02-3	188.236	2800.00	1.6225	1023.15	1223.15	1,2	1023.15	90.00
2009	KCl	potassium chloride	7447-40-7	187.885	2600.00	1.2227	1073.15	1423.15	1,2	1073.15	98.00
2018	KF	potassium fluoride	7789-23-3	233.009	3393.45	1.2328	1173.15	1623.15	1,2	1173.15	138.12
2035	KI	potassium iodide	7681-11-0	182.130	2300.00	1.5470	964.00	1224.00	1,2	964.00	78.60
2041	KNO2	potassium nitrite	7758-09-0	165.025	2142.45	1.0658	718.15	724.15	1,2	718.15	106.80
2042	KNO3	potassium nitrate	7757-79-1	151.235	2700.00	1.2617	623.15	1123.15	1,2	623.15	108.61
2064	K2CO3	potassium carbonate	584-08-7	244.203	4300.00	1.1545	1171.15	1380.00	1,2	1171.15	169.18
2089	K2Cr2O7	potassium dichromate	7778-50-9	168.454	4800.00	1.1735	693.15	843.15	1,2	693.15	140.28
2112	K2MoO4	potassium molybdate	13446-49-6	226.257	3800.00	1.0869	1173.15	1823.15	1,2	1173.15	151.47
2127	K2SO4	potassium sulfate	7778-80-5	243.945	4026.45	1.2806	1373.15	1823.15	1,2	1373.15	143.00
2140	K2WO4	potassium tungstate	7790-60-5	290.967	3582.45	1.4698	1173.15	1823.15	1,2	1173.15	162.41
2162	Kr	krypton	7439-90-9	44.249	209.35	1.2317	115.78	209.35	1,2	115.78	16.41
2168	La	lanthanum	7439-91-0	849.329	9511.00	1.1501	1193.00	1900.00	1,2	1193.00	728.00
2200	La2O3	lanthanum oxide	1312-81-8	922.480	7734.45	1.2222	2593.15	2643.15	1,2	2593.15	560.00
2203	Li	lithium	7439-93-2	470.276	3500.00	1.1692	459.00	1200.00	1,2	459.00	399.00
2212	LiBO2	lithium metaborate	13453-69-5	390.323	3800.00	1.1056	1152.15	1893.15	1,2	1152.15	261.80
2213	LiBr	lithium bromide	7550-35-8	188.102	3000.00	1.1909	825.15	1210.00	1,2	825.15	128.24
2253	LiCl	lithium chloride	7447-41-8	199.461	3000.00	1.0891	873.15	1323.15	1,2	873.15	137.14
2261	LiF	lithium fluoride	7789-24-4	374.719	3500.00	1.0411	1123.15	1573.15	1,2	1123.15	250.46
2270	LiI	lithium iodide	10377-51-2	143.284	2800.00	1.2045	742.15	1210.00	1,2	742.15	98.88
2274	LiNO3	lithium nitrate	7790-69-4	151.752	2800.00	1.2046	632.15	982.15	1,2	632.15	111.50
2283	Li2CO3	lithium carbonate	554-13-2	285.502	8000.00	1.1758	996.15	1230.00	1,2	996.15	244.18
2306	Li2SO4	lithium sulfate	10377-48-7	307.419	4800.00	1.1455	1173.15	1523.15	1,2	1173.15	223.00

Table 22 Surface Tension - Inorganic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
2308	Li2SiO3	lithium metasilicate	10102-24-6	501.573	7000.00	1.1860	1527.15	1974.15	1,2	1527.15	374.60
2316	Lu	lutetium	7439-94-3	1085.621	17000.00	1.1675	1973.00	2050.00	1,2	1973.00	940.00
2335	Mg	magnesium	7439-95-4	827.082	3500.00	1.1761	923.00	1280.00	1,2	923.00	577.00
2392	MgCl2	magnesium chloride	7786-30-3	76.798	8500.00	1.1264	987.15	1310.00	1,2	987.15	66.83
2464	Mn	manganese	7439-96-5	1741.062	6902.82	1.6630	1518.00	1780.00	1,2	1518.00	1152.00
2548	Mo	molybdenum	7439-98-7	3218.869	9620.00	1.2222	2890.00	2990.00	1,2	2890.00	2080.00
2573	MoF6	molybdenum fluoride	7783-77-9	65.311	498.12	1.2222	290.15	498.12	2	298.15	21.41
2607	NClO	nitrosyl chloride	2696-92-6	78.157	500.00	1.2494	240.15	367.65	1,2	298.15	25.16
2608	NCl3	nitrogen trichloride	10025-85-1	79.176	564.00	1.2222	246.15	564.00	2	298.15	31.58
2610	ND3	heavy ammonia	---	141.079	388.40	1.2222	199.15	388.40	2	298.15	23.70
2613	NF3	nitrogen trifluoride	7783-54-2	63.151	233.85	1.2517	66.46	233.85	2	66.46	41.56
2619	NH3	ammonia	7664-41-7	101.620	405.65	1.2160	195.41	405.65	1,2	298.15	20.21
2674	NO	nitric oxide	10102-43-9	121.260	180.15	1.5494	109.50	180.15	1,2	109.50	28.44
2676	NO2	nitrogen dioxide	10102-44-0	84.514	431.35	1.0000	261.90	431.35	2	298.15	26.10
2678	N2	nitrogen	7727-37-9	29.039	126.10	1.2485	63.15	126.10	1,2	63.15	12.20
2684	N2F4	tetrafluorohydrazine	10036-47-2	43.167	309.35	1.2203	111.65	309.35	2	298.15	0.75
2685	N2H4	hydrazine	302-01-2	125.009	653.15	1.0254	274.69	653.15	1,2	298.15	66.90
2686	N2H4C	ammonium cyanide	12211-52-8	136.540	491.32	1.2222	309.15	491.32	2	309.15	40.61
2689	N2H4O3	ammonium nitrate	6484-52-2	150.242	1600.00	1.1972	443.15	543.15	1,2	443.15	101.90
2699	N2H6CO2	ammonium carbamate	1111-78-0	57.294	539.82	1.2222	270.00	539.82	2	298.15	21.46
2747	N2O	nitrous oxide	10024-97-2	71.371	309.57	1.2062	182.30	309.57	1,2	298.15	1.33
2748	N2O3	nitrogen trioxide	10544-73-7	98.286	425.00	1.2222	170.00	425.00	2	298.15	22.42
2749	N2O4	nitrogen tetraoxide	10544-72-6	185.819	431.15	1.2222	261.90	431.15	2	298.15	44.14
2750	N2O5	nitrogen pentoxide	10102-03-1	84.206	515.51	1.2222	303.15	515.51	2	303.15	28.48
2781	Na	sodium	7440-23-5	245.047	2573.00	1.3040	371.15	2573.00	1,2	371.15	200.00
2798	NaBO2	sodium metaborate	7775-19-1	420.785	2700.00	1.1953	1289.15	1814.15	1,2	1289.15	193.70
2800	NaBr	sodium bromide	7647-15-6	183.230	3060.00	1.3447	1023.15	1473.15	1,2	1023.15	106.00
2855	NaCl	sodium chloride	7647-14-5	243.533	3222.00	1.8220	1073.15	1423.15	1,2	1073.15	116.42
2860	NaClO3	sodium chlorate	7775-09-9	1458.034	600.00	1.2222	538.15	1000.00	1,2	538.15	90.71
2864	NaF	sodium fluoride	7681-49-4	294.393	3807.00	1.1383	1273.15	1823.15	1,2	1273.15	185.21
2888	NaI	sodium iodide	7681-82-5	180.389	2100.00	1.2211	943.00	1203.00	1,2	943.00	87.11
2893	NaNO2	sodium nitrite	7632-00-0	144.121	4000.00	1.1705	564.15	707.15	1,2	564.15	120.63
2894	NaNO3	sodium nitrate	7631-99-4	134.322	1740.45	0.3550	583.15	923.15	1,2	583.15	116.21
2899	NaO3P	sodium metaphosphate	10361-03-2	281.874	4300.00	1.1823	1073.15	1823.15	1,2	1073.15	200.74
2916	Na2CO3	sodium carbonate	497-19-8	269.398	6000.00	1.1528	1131.15	1390.00	1,2	1131.15	211.74
2960	Na2MoO4	sodium molybdate	7631-95-0	290.425	4300.00	1.2326	973.15	1523.15	1,2	973.15	211.68
2968	Na2O4W	sodium tungstate	13472-45-2	266.240	4300.00	1.0866	973.15	1923.15	1,2	973.15	201.46
2974	Na2SO4	sodium sulfate	7757-82-6	273.871	4600.00	1.1887	1173.15	1373.15	1,2	1173.15	193.00
2976	Na2S4	sodium tetrasulfide	12034-39-8	178.531	3000.00	1.1690	567.15	813.00	1,2	567.15	139.74
2983	Na3AlF6	sodium hexafluoroaluminate	13775-53-6	338.487	3100.00	1.7515	1273.15	1343.15	1,2	1273.15	134.06
3017	Na6O18P6	sodium hexametaphosphate	10124-56-8	366.614	2800.00	1.2222	1100.10	1800.00	1,2	1100.10	199.21
3019	Nb	niobium	7440-03-1	2514.955	17904.10	1.5708	2742.00	2920.00	1,2	2742.00	1937.00
3057	Nd	neodymium	7440-00-8	803.444	10665.10	1.2075	1297.00	1850.00	1,2	1297.00	687.00
3091	Ne	neon	7440-01-9	15.633	44.40	1.2611	24.56	44.40	1,2	24.56	5.66
3092	Ni	nickel	7440-02-0	2370.833	7500.00	1.0624	1728.00	1950.00	1,2	1728.00	1795.00
3105	NiC4O4	nickel carbonyl	13463-39-3	45.077	508.40	1.2222	248.15	508.40	2	298.15	15.32
3198	O2	oxygen	7782-44-7	38.065	154.58	1.2136	54.35	154.58	1,2	54.35	22.50
3199	O3	ozone	10028-15-6	63.972	261.00	1.1726	77.20	261.00	2	77.20	42.40
3200	Os	osmium	7440-04-2	3131.034	16878.70	1.2222	3300.00	3400.00	1,2	3300.00	2400.00
3222	OsO4	osmium tetroxide	20816-12-0	74.322	656.60	1.2222	329.15	656.60	2	329.15	31.76
3223	OsOF5	osmium oxide pentafluoride	---	67.217	608.55	1.2222	332.95	608.55	2	332.95	25.53
3234	P	phosphorus (white)	7723-14-0	110.647	993.75	1.2222	317.25	993.75	1,2	317.25	69.15
3238	PBr3	phosphorus tribromide	7789-60-8	107.589	620.00	1.3088	297.15	445.15	1,2	298.15	45.61
3252	PC3H9O4	phosphate, trimethyl	512-56-1	76.295	729.00	1.3794	227.00	729.00	1,2	298.15	36.94
3280	PC6H15O4	phosphate, triethyl	78-40-0	63.769	757.00	1.5325	216.65	757.00	1,2	298.15	29.61
3282	PC6H18N3O	phosphoramide, hexamethyl	680-31-9	59.044	800.00	1.2222	293.15	400.00	1,2	298.15	33.39
3380	PCl2F3	phosphorus (v) dichloride trifluoride	13454-99-4	50.753	457.02	1.2222	265.15	457.02	2	298.15	13.95
3381	PCl3	phosphorus (iii) chloride	7719-12-2	71.007	563.15	1.2247	181.15	563.15	1,2	298.15	28.21
3389	PH3	phosphine	7803-51-2	50.062	324.75	1.0268	139.37	324.75	1,2	298.15	3.83
3390	PH4Br	phosphonium bromide	---	80.724	501.76	1.2222	250.00	501.76	2	298.15	26.81
3391	PH4Cl	phosphonium chloride	24567-53-1	123.360	322.30	1.2222	244.65	322.30	2	298.15	5.20
3392	PH4I	phosphonium iodide	12125-09-6	102.632	539.70	1.2222	291.65	539.70	2	298.15	38.42
3394	PI3	phosphorus (iii) iodide	13455-01-1	81.588	1400.00	1.2838	348.45	523.15	1,2	348.45	56.50
3396	POCl3	phosphorus oxychloride	10025-87-3	72.912	602.15	1.2150	274.33	602.15	1,2	298.15	31.78
3397	PSBr3	phosphorus thiobromide	3931-89-3	85.402	729.89	1.2222	311.15	729.89	2	311.15	43.30
3398	PSCl3	phosphorus thiochloride	3982-91-0	69.573	638.82	1.2222	398.15	638.82	1,2	398.15	21.10
3448	P2O3	phosphorus trioxide	1314-24-5	77.414	700.00	1.2951	307.45	482.55	1,2	307.45	36.60
3461	P4O6	phosphorous (iii) oxide	12440-00-5	72.103	714.86	1.2222	295.65	714.86	2	298.15	37.28
3483	Pb	lead	7439-92-1	524.526	5400.00	1.1700	600.00	1280.00	1,2	600.00	457.00
3504	PbC8H20	tetraethyl lead	78-00-2	59.396	655.00	1.2316	139.41	655.00	1,2	298.15	28.11
3514	PbCl2	lead chloride	7758-95-4	250.996	1998.62	1.2222	774.15	1998.62	2	774.15	137.91
3537	PbO	lead oxide	1317-36-8	253.003	2842.26	1.2222	1163.15	2842.26	2	1163.15	132.97
3571	Pd	palladium	7440-05-3	2029.130	10669.10	1.6749	1825.00	1980.00	1,2	1825.00	1482.00
3637	Pm	promethium	7440-12-2	804.562	10228.86	1.2222	1315.15	1415.15	1,2	1315.15	680.00
3650	Pr	praseodymium	7440-10-0	814.434	12306.26	1.2500	1205.00	1880.00	1,2	1205.00	716.00
3691	Pt	platinum	7440-06-4	2374.249	7800.00	1.0126	2042.00	2180.00	1,2	2042.00	1746.00
3756	Pu	plutonium	7440-07-5	971.339	11130.13	1.2222	550.00	650.00	1,2	550.00	913.00
3781	Rb	rubidium	7440-17-7	108.866	2093.00	1.1789	312.00	1300.00	1,2	312.00	90.00
3786	RbBr	rubidium bromide	7789-39-1	158.429	2865.45	1.1145	973.15	1423.15	1,2	973.15	99.77
3791	RbCl	rubidium chloride	7791-11-9	208.344	2964.45	1.8576	1023.15	1473.15	1,2	1023.15	94.90

Table 22 Surface Tension - Inorganic Compounds

			sigma = A (1 - T/B)^n				(sigma - dynes/cm, T - K)				
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
3795	RbF	rubidium fluoride	13446-74-7	285.576	3318.45	1.4224	1073.15	1323.15	1,2	1073.15	163.83
3801	RbI	rubidium iodide	7790-29-6	159.965	2745.45	1.6747	973.15	1323.15	1,2	973.15	76.86
3803	RbNO3	rubidium nitrate	13126-12-0	151.743	2400.00	1.1947	573.15	1023.15	1,2	573.15	109.53
3822	Rb2SO4	rubidium sulfate	7488-54-2	202.982	3969.45	1.0351	1373.15	1823.15	1,2	1373.15	130.80
3828	Re	rhenium	7440-15-5	3230.494	21482.80	1.2222	3440.00	3540.00	1,2	3440.00	2610.00
3880	Rh	rhodium	7440-16-6	2659.476	12906.60	1.6572	2237.00	2380.00	1,2	2237.00	1940.00
3941	Ru	ruthenium	7440-18-8	2908.077	15247.10	1.3446	2607.00	2730.00	1,2	2607.00	2260.00
3991	S	sulfur	7704-34-9	86.000	1313.00	1.0000	388.36	750.00	1,2	388.36	60.56
3994	SCl2	sulfur dichloride	10545-99-0	85.374	542.00	1.2222	151.15	542.00	2	298.15	32.16
3996	SCl2O	thionyl chloride	7719-09-7	84.705	567.00	1.2921	168.65	567.00	2	298.15	32.30
3998	SF4	sulfur tetrafluoride	7783-60-0	67.860	364.00	1.2222	149.15	364.00	2	298.15	8.40
4001	SF6	sulfur hexafluoride	2551-62-4	48.559	318.69	1.2222	205.00	318.69	1,2	298.15	1.70
4004	SOBr2	thionyl bromide	507-16-4	67.818	1050.00	1.2682	290.15	398.15	1,2	298.15	44.40
4005	SOCl2	thionyl chloride	7719-09-7	80.356	580.00	1.2597	293.15	423.15	1,2	298.15	32.37
4006	SOF2	thionyl fluoride	7783-42-8	68.096	371.25	1.2222	162.65	371.25	2	298.15	9.34
4007	SO2	sulfur dioxide	7446-09-5	87.200	430.75	1.1810	197.67	430.75	1,2	298.15	21.69
4008	SO2Cl2	sulfuryl chloride	7791-25-5	102.222	510.00	1.2926	286.15	420.65	1,2	298.15	32.84
4010	SO3	sulfur trioxide	7446-11-9	103.340	490.85	1.2184	289.95	490.85	1,2	298.15	33.08
4013	S2Cl2	sulfur monochloride	10025-67-9	87.836	659.37	1.2084	288.65	451.45	1,2	298.15	42.45
4023	Sb	antimony	7440-36-0	446.146	5070.00	1.2222	913.15	1163.15	1,2	913.15	350.00
4042	SbCl3	antimony trichloride	10025-91-9	97.665	820.00	1.2502	382.65	539.65	1,2	382.65	44.51
4044	SbCl5	antimony pentachloride	7647-18-9	57.152	662.54	1.2222	275.95	662.54	2	298.15	27.52
4047	SbH3	stibine	7803-52-3	72.532	440.35	1.2222	185.15	440.35	2	298.15	18.22
4065	Sc	scandium	7440-20-2	1165.920	10000.00	1.0820	1813.00	1980.00	1,2	1813.00	939.00
4083	Se	selenium (gray)	7782-49-2	130.901	1976.60	1.2222	494.15	694.15	1,2	494.15	92.10
4089	SeCS	selenosulfide, carbon	5951-19-9	100.793	576.53	1.2222	197.95	576.53	2	298.15	41.40
4110	SeF6	selenium hexafluoride	7783-79-1	51.410	368.80	1.2222	238.45	368.80	2	298.15	6.82
4115	SeOCl2	selenium oxychloride	7791-23-3	113.623	706.80	1.2222	281.65	706.80	2	298.15	58.16
4140	Si	silicon	7440-21-3	1273.207	5159.00	1.0233	1683.00	1950.00	1,2	1683.00	850.00
4143	SiBrCl2F	silane, bromodichlorofluoro	---	49.579	497.17	1.2222	160.85	497.17	2	298.15	16.19
4144	SiBr2ClF	silane, dibromochlorofluoro	---	52.472	535.27	1.2222	173.85	535.27	2	298.15	19.40
4149	SiCH3Cl3	silane, methyltrichloro	75-79-6	57.879	517.00	1.2640	195.35	517.00	1,2	298.15	19.53
4150	SiCH4Cl2	silane, methyldichloro	75-54-7	67.489	483.00	1.3756	182.55	483.00	1,2	298.15	18.01
4152	SiC2H5Cl3	silane, ethyltrichloro	115-21-9	65.674	559.95	1.3833	167.55	559.95	2	298.15	22.94
4153	SiC2H6Cl2	silane, dimethyldichloro	75-78-5	55.058	520.35	1.2137	197.05	520.35	1,2	298.15	19.60
4157	SiC3H10	silane, trimethyl	933-07-7	46.168	432.00	1.2955	137.26	432.00	2	298.15	10.12
4187	SiC7H8Cl2	silane, methylphenyldichloro	149-74-6	71.464	689.00	1.4334	229.65	689.00	2	298.15	31.71
4196	SiC8H20	silane, tetraethyl	631-36-7	52.911	606.00	1.2631	190.65	606.00	1,2	298.15	22.49
4238	SiClC3H9	chlorotrimethylsilane	75-77-4	47.737	497.75	1.1147	215.45	497.75	1,2	298.15	17.24
4240	SiClF3	silane, chlorotrifluoro	14049-36-6	38.469	330.54	1.2222	131.15	330.54	2	298.15	2.25
4241	SiCl2F2	silane, dichlorodifluoro	18356-71-3	42.163	390.93	1.2222	133.45	390.93	2	298.15	7.27
4243	SiCl3F	silane, trichlorofluoro	14965-52-7	46.747	460.49	1.2222	152.35	460.49	2	298.15	13.07
4244	SiCl4	silicon tetrachloride	10026-04-7	51.627	507.00	1.1398	204.30	507.00	1,2	298.15	18.79
4245	SiF4	silicon tetrafluoride	7783-61-1	73.456	259.00	1.0620	186.35	259.00	2	186.35	19.04
4246	SiHBr3	silane, tribromo	7789-57-3	69.122	610.00	1.2222	199.65	610.00	2	298.15	30.44
4247	SiHCl3	silane, trichloro	10025-78-2	53.744	479.00	1.1590	144.95	479.00	1,2	298.15	17.38
4248	SiHF3	silane, trifluoro	13465-71-9	41.376	291.02	1.2222	141.75	291.02	2	141.75	18.30
4250	SiH2Br2	silane, dibromo	13768-94-0	72.685	550.00	1.2222	202.95	550.00	2	298.15	27.98
4251	SiH2Cl2	silane, dichloro	4109-96-0	55.804	459.00	1.2810	151.15	459.00	1,2	298.15	14.57
4252	SiH2F2	silane, difluoro	13824-36-7	51.341	318.21	1.2222	170.00	318.21	2	298.15	1.75
4253	SiH2I2	silane, diiodo	13760-02-6	105.137	660.00	1.2222	272.15	660.00	2	298.15	50.44
4257	SiH3Br	silane, monobromo	13465-73-1	65.933	454.00	1.2222	179.25	454.00	2	298.15	17.85
4258	SiH3Cl	silane, monochloro	13465-78-6	55.653	396.65	1.2222	155.05	396.65	2	298.15	10.14
4259	SiH3F	silane, monofluoro	13537-33-2	48.274	286.28	1.2222	150.00	286.28	2	150.00	19.49
4260	SiH3I	silane, iodo	13598-42-0	89.400	515.00	1.2222	216.15	515.00	2	298.15	31.06
4261	SiH4	silane	7803-62-5	327.659	269.70	1.2110	44.48	269.70	1,2	44.48	263.41
4265	SiO2	silicon dioxide (alpha quartz)	14808-60-7	731.433	4076.87	1.2222	2073.15	2300.00	1,2	2073.15	307.00
4274	Si2C6H18O	disiloxane, hexamethyl	107-46-0	45.660	518.70	1.2720	204.93	518.70	1,2	298.15	15.39
4275	Si2C6H19N	disilazane, hexamethyl	999-97-3	44.591	544.00	1.1280	293.15	544.00	1,2	298.15	18.20
4286	Si2Cl6	disilane, hexachloro	13465-77-5	41.695	660.96	1.2222	271.95	660.96	2	298.15	20.03
4287	Si2Cl6O	disiloxane, hexachloro	14986-21-1	39.741	655.58	1.2222	239.95	655.58	2	298.15	18.94
4288	Si2F6	disilane, hexafluoro	---	35.854	411.33	1.2222	254.55	411.33	2	298.15	7.41
4288.1	Si2H5Cl	disilanyl chloride	---	54.351	506.89	1.2222	250.00	506.89	2	298.15	18.38
4289	Si2H6	disilane	1590-87-0	42.415	432.00	1.2870	140.65	432.00	2	298.15	9.39
4290	Si2H6O	disiloxane	13597-73-4	43.589	416.86	1.2222	128.95	416.86	2	298.15	9.39
4291	Si2OCl3F3	disiloxane, trichlorotrifluoro	---	34.422	508.78	1.2222	250.00	508.78	2	298.15	11.71
4295	Si3Cl8	octachlorotrisilane	---	37.167	775.41	1.2222	250.00	775.41	2	298.15	20.54
4296	Si3H8	trisilane	7783-26-8	44.454	525.15	1.2222	155.95	525.15	2	298.15	15.95
4297	Si3H9N	trisilazane	---	41.420	518.20	1.2222	167.45	518.20	2	298.15	14.54
4300	Si4H10	tetrasilane	7783-29-1	40.979	599.30	1.2222	179.55	599.30	2	298.15	17.67
4303	Sm	samarium	7440-19-9	528.297	8000.00	1.1184	1345.00	1750.00	1,2	1345.00	430.00
4332	Sn	tin (white)	7440-31-5	590.603	9500.00	1.1383	505.00	930.00	1,2	505.00	555.00
4335	SnBr4	stannic bromide	7789-67-5	66.560	764.82	1.2222	304.15	764.82	2	304.15	35.82
4422	SnCl2	stannous chloride	7772-99-8	146.310	1900.00	1.1522	573.15	823.15	1,2	573.15	96.74
4424	SnCl4	stannic chloride	7646-78-8	59.674	619.85	1.2222	242.95	619.85	2	298.15	26.77
4431	SnH4	stannane	2406-52-2	60.591	358.52	1.2222	123.25	358.52	2	298.15	6.87
4461	Sr	strontium	7440-24-6	382.677	5500.00	1.2214	1043.00	1580.00	1,2	1043.00	296.00
4464	SrBr2	strontium bromide	10476-81-0	189.882	4700.00	1.1033	973.15	1323.15	1,2	973.15	147.00
4479	SrCl2	strontium chloride	10476-85-4	240.783	4500.00	1.1916	1173.15	1323.15	1,2	1173.15	168.00
4492	SrI2	strontium iodide	10476-86-5	148.934	4600.00	1.3540	873.15	1273.15	1,2	873.15	112.00

Table 22 Surface Tension - Inorganic Compounds

			sigma = A (1 - T/B)^n								(sigma - dynes/cm, T - K)
ID	FORMULA	NAME	CAS No	A	B	n	TMIN	TMAX	code	T	sigma @ T
4517	Ta	tantalum	7440-25-7	2556.286	19900.90	1.2222	3288.00	3388.00	1,2	3288.00	2050.00
4550	Tb	terbium	7440-27-9	760.479	14000.00	1.0361	1629.00	1980.00	1,2	1629.00	669.00
4570	Tc	technetium	7440-26-8	2824.285	17400.80	1.2222	2430.00	2530.00	1,2	2430.00	2350.00
4583	Te	tellurium	13494-80-9	292.137	4840.00	1.2222	722.66	2000.00	1,2	722.66	239.75
4590	TeF6	tellurium hexafluoride	7783-80-4	39.899	380.18	1.2222	235.35	380.18	2	298.15	6.12
4609	Th	thorium	7440-29-1	1161.753	17668.05	1.2222	1963.00	2063.00	1,2	1963.00	1006.00
4639	Ti	titanium	7440-32-6	1984.840	14000.00	1.1560	1943.00	2050.00	1,2	1943.00	1670.00
4678	TiCl4	titanium tetrachloride	7550-45-0	70.873	638.00	1.2222	249.05	638.00	2	298.15	32.82
4703	Tl	thallium	7440-28-0	520.514	5000.00	1.0238	578.00	1450.00	1,2	578.00	459.00
4731	TlNO3	thallium (i) nitrate	10102-45-1	134.073	1900.00	1.1917	499.15	781.15	1,2	499.15	93.24
4743	Tl2S	thallium (i) sulfide	1314-97-2	241.406	7500.00	1.1230	773.15	1023.15	1,2	773.15	213.64
4766	U	uranium	7440-61-1	1963.908	13712.60	2.1809	1403.00	1780.00	1,2	1403.00	1552.00
4787	UF6	uranium fluoride	7783-81-5	67.457	505.80	1.2222	342.35	505.80	2	342.35	16.96
4836	V	vanadium	7440-62-2	2413.858	11325.00	1.2222	2175.00	2275.00	1,2	2175.00	1860.00
4860	VCl4	vanadium tetrachloride	7632-51-1	82.377	697.00	1.2222	247.45	697.00	2	298.15	41.64
4880	VOCl3	vanadium oxytrichloride	7727-18-6	77.100	636.00	1.2243	193.65	636.00	1,2	298.15	35.54
4891	V2O5	vanadium (v) oxide	1314-62-1	178.566	2829.45	1.2222	1273.15	1323.15	1,2	1273.15	86.00
4899	W	tungsten	7440-33-7	3280.072	14756.00	1.2222	3680.00	3780.00	1,2	3680.00	2310.00
4917	WF6	tungsten fluoride	7783-82-6	59.258	468.56	1.2222	272.65	468.56	2	298.15	17.21
4945	Xe	xenon	7440-63-3	54.300	289.74	1.2829	161.36	289.74	1,2	161.36	19.11
4960	Y	yttrium	7440-65-5	1028.692	14000.00	1.2058	1793.00	1980.00	1,2	1793.00	872.00
4995	Yb	ytterbium	7440-64-4	433.309	4365.92	1.0476	1097.00	1780.00	1,2	1097.00	320.00
5021	Zn	zinc	7440-66-6	936.701	5000.00	1.1501	693.00	880.00	1,2	693.00	789.00
5113	Zr	zirconium	7440-67-7	1734.093	16000.00	1.0177	2125.00	2400.00	1,2	2125.00	1500.00

code: 1 - data, 2 - estimate

sigma - surface tension, dynes/cm

A, B, and n - regression coefficients of chemical compound

T- temperature, K

TMAX - maximum temperature, K

TMIN - minimum temperature, K

Appendix A

Conversion Table

1. **Temperature**
   To convert from Centigrade to:
   Kelvin, add 273.15
   Rankine, multiply Kelvin by 1.8
   Fahrenheit, multiply Centigrade by 1.8 and add 32

2. **Pressure**
   To convert from psia to:
   kPa, multiply by 6.895
   psig, subtract 14.7
   mm Hg, multiply by 51.71
   atmospheres, divide by 14.7
   bars, divide by 14.508

3. **Heat of Vaporization**
   To convert from kj/kg to:
   BTU/lb, multiply by 0.43
   cal/gram, multiply by 0.239

4. **Density**
   To convert from g/ml to:
   lb/ft^3, multiply by 62.43
   lb/gallon, multiply by 8.345

5. **Surface Tension**
   To convert from dynes/cm to:
   N/m, multiply by 0.001

6. **Heat Capacity**
   To convert from j/g K to:
   BTU/lb R, multiply by 0.239
   cal/gram K, multiply by 0.239

7. **Viscosity**
   To convert from micropoise to:
   lb/ft s, multiply by 0.0672E-06
   centipoise, multiply by 1.0E-04
   poise, multiply by 1.0E-06
   Pa s (Pascal seconds), multiply by 1.0E-07

   To convert from centipoise to:
   lb/ft s, multiply by 0.000672
   micropoise, multiply by 10,000
   poise, multiply by 0.01
   Pa s (Pascal seconds), multiply by 0.001

8. **Thermal Conductivity**
   To convert from W/m K to:
   BTU/hr ft R, multiply by 0.5770
   calorie/cm s K, multiply by .002388

9. **Enthalpy of Formation**
   To convert from kj/mol to:
   kcal/mol, multiply by 0.239

10. **Gibbs Energy of Formation**
    To convert from kj/mol to:
    kcal/mol, multiply by 0.239

11. **Henry's Law Constant for Compound in Water**
    To convert from atm/mol fraction to:
    atm/(mol/m^3), divide by 55,556
    kPa/(mol/m^3), divide by 548.295

Appendix B

Thermophysical and Transport Properties of Water

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Abstract

Thermophysical and transport properties are presented for water. The results include physical constants, critical values, vapor pressure, density of liquid, enthalpy of vaporization, surface tension, heat capacity, viscosity, and thermal conductivity. Both gas and liquid are covered. The coefficients for property values as a function of temperature are provided in an easy to use tabular format.

Importance of Properties

Thermophysical and transport properties are important to engineers in chemical processing and petroleum refining. In vapor-liquid operations, such as distillation, knowledge of vapor pressure is required to determine K-values for the design. The design of storage and process vessels requires knowledge of the density of liquid in the vessels. In the design of condensers and vaporizers, knowledge of enthalpy of vaporization is required to ascertain the heat duties for the equipment. Knowledge of heat capacity is required for the design of heat exchangers. The design of piping systems requires knowledge of viscosity of the fluid flowing in the piping. Other applications involve environmental, green, safety, and simulation engineering.

Tabulation of Properties

The results are given in Table B. The initial entries in the table are physical and critical properties. This includes molecular weight, freezing point, boiling point, density, refractive index, and acentric factor for the physical properties. Critical temperature, pressure, volume, density, and compressibility factor are provided for the critical properties.

Subsequent entries in the table provide coverage for properties which vary with temperature. This includes vapor pressure, density of liquid, enthalpy of vaporization, surface tension, heat capacity, viscosity, and thermal conductivity. For the subsequent entries, regression coefficients (A, B, C, ...) are given for the temperature dependency. The range of application is denoted by minimum and maximum temperatures (TMIN and TMAX) in the adjacent columns. Temperatures outside the range of application should not be used. The next column provides the code for the tabulation which is based on both experimental data and estimated values. The last several columns provide representative values for the property. For gas, the table applies to gas at low pressure. For liquid, the table primarily applies to liquid at saturation.

The format for the tablulation is constructed for rapid usage. For each property, the equation showing the temperature dependency is given on the row for the property. The regression coefficients for use in the equation are provided in the adjacent rows. These displayed regression coefficients in the adjacent rows can be used for quick calculation of the property value at the temperature of interest.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-13). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of the values for the remaining compounds was performed. The numerous point values were processed using a computer program for minimum deviation.

The compilations of Beaton and Hewitt (1); CRC (2); Daubert and Danner (3); Perrys (7); and Yaws (11-13) were used extensively for the compilation. Estimates were primarily based on literature estimated values and proprietary techniques of the senior author.

A comparison of calculated and data values is shown in Figures B-1 to B-11 for representative properties. The graphs disclose favorable agreement of equation and data.

Example

In an engineering analysis, the liquid viscosity of water at 400 K is required. Calculate the liquid viscosity at this temperature.

Substitution of the coefficients from the table and temperature into the equation for liquid viscosity yields:

$$\log_{10} n_{liq} = A + B/T + C\,T + D\,T^2$$

$$= -11.6225 + 1.9490E+03/400 + 2.1641E-02*400 - 1.5990E-05*400^2 = -0.6519$$

$$n_{liq} = 10^{-0.6519} = 0.223 \text{ centipoise}$$

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Table B Thermophysical and Transport Properties of Water

1. Physical Properties

ID	NAME	CAS No	MW, g/mol	T_{freeze}, K	code	T_{boil}, K	code	T, C	den@T, g/cm3	ref index @T	acentric factor	state
1712	water	7732-18-5	18.015	273.15	1	373.15	1	25	0.997	1.3325	0.3449	colorless liquid

2. Critical Properties

NO	NAME	CAS No	T_c, K	code	P_c, bar	code	V_c, ml/mol	code	rho_c, g/ml	code	Z_c	code
1712	water	7732-18-5	647.13	1	220.55	1	55.95	1	0.3220	1	0.229	1

3. Vapor Pressure $\log_{10} P = A - B/(T + C)$ (P - mm Hg, T - C)

NO	NAME	CAS No	A	B	C	TMIN, C	TMAX, C	code	P@TMIN	P@25 C	P@100 C	P@TMAX
1712	water	7732-18-5	8.05573	1723.6425	233.08	0.01	373.98	1,2	4.58	23.82	760.00	1.646E+05

4. Density of Liquid $density = A\ B^{-(1 - T/C)^{\wedge}D}$ (density - g/ml, T - K)

NO	NAME	CAS No	A	B	C	D	TMIN	TMAX	code	den @TMIN	den @25 C	den @ TMAX
1712	water	7732-18-5	0.32500	0.27000	647.13	0.23000	290.00	647.13	1,2	1.000	0.997	0.325

5. Enthalpy of Vaporization $HVAP = A\ (1 - T/B)^C$ (HVAP - kjoule/mol, T - K)

NO	NAME	CAS No	A	B	C	TMIN	TMAX	code	HVAP@TMIN	HVAP@25 C	HVAP@100 C	HVAP@TMAX
1712	water	7732-18-5	54.0000	647.13	0.3400	273.15	647.13	1,2	44.815	43.773	40.316	0.000

6. Surface Tension $sigma = A\ (1 - T/B)^C$ (sigma - dynes/cm, T - K)

NO	NAME	CAS No	A	B	C	TMIN	TMAX	code	sigma@TMIN	sigma@25 C	sigma@100 C	sigma@TMAX
1712	water	7732-18-5	134.834	647.13	1.0000	273.16	647.13	1,2	77.919	72.712	57.085	0.000

7. Heat Capacity of Gas $C_P = A + B\ T + C\ T^2 + D\ T^3$ (C_P - joule/(mol K), T - K)

NO	NAME	CAS No	A	B	C	D	TMIN	TMAX	code	Cp@TMIN	Cp@25 C	Cp@TMAX
1712	water	7732-18-5	33.174	-3.2463E-03	1.7437E-05	-5.9796E-09	150	1500	1,2	33.060	33.598	47.356

8. Heat Capacity of Liquid $C_P = A + B\ T + C\ T^2 + D\ T^3$ (C_P - joule/(mol K), T - K)

NO	NAME	CAS No	A	B	C	D	TMIN	TMAX	code	Cp@TMIN	Cp@25 C	Cp@TMAX
1712	water	7732-18-5	-22.417	8.7697E-01	-2.5704E-03	2.4838E-06	273	585	1,2	75.969	76.392	108.226

9. Heat Capacity of Solid $C_P = A + B\ T + C\ T^2 + D\ T^3$ (C_P - joule/(mol K), T - K)

NO	NAME	CAS No	A	B	C	D	TMIN	TMAX	code	Cp@TMIN	Cp@50	Cp@TMAX
1712	water	7732-18-5	-0.262	1.4052E-01	0.0000E+00	0.0000E+00	3	273	1	0.180	6.764	38.121

10. Viscosity of Gas $n_{gas} = A + B\ T + C\ T^2 + D\ T^3$ (n_{gas} - micropoise, T - K)

NO	NAME	CAS No	A	B	C	D	TMIN	TMAX	code	n_{gas}@TMIN	n_{gas}@25 C	n_{gas}@TMAX
1712	water	7732-18-5	22.8211	1.7387E-01	3.2465E-04	-1.4334E-07	150	1500	1,2	55.72	99.72	530.32

11. Viscosity of Liquid $\log_{10} n_{liq} = A + B/T + C\ T + D\ T^2$ (n_{liq} - centipoise, T - K)

NO	NAME	CAS No	A	B	C	D	TMIN	TMAX	code	n_{liq}@TMIN	n_{liq}@25 C	n_{liq}@TMAX
1712	water	7732-18-5	-11.6225	1.9490E+03	2.1641E-02	-1.5990E-05	273.15	646.15	1,2	1.702	0.882	0.050

12. Thermal Conductivity of Gas $k_{gas} = A + B\ T + C\ T^2 + D\ T^3$ (k_{gas} - W/(m K), T - K)

NO	NAME	CAS No	A	B	C	D	TMIN	TMAX	code	k_{gas}@TMIN	k_{gas}@25 C	k_{gas}@TMAX
1712	water	7732-18-5	5.6199E-03	1.5699E-05	1.0106E-07	-2.4282E-11	150	1500	1,2	0.01017	0.01864	0.17461

13. Thermal Conductivity of Liquid $k_{liq} = A + B\ T + C\ T^2$ (k_{liq} - W/(m K), T - K)

NO	NAME	CAS No	A	B	C	TMIN	TMAX	code	k_{liq}@TMIN	k_{liq}@25 C	k_{liq}@100 C	k_{liq}@TMAX
1712	water	7732-18-5	-3.5667E-01	5.0570E-03	-6.1071E-06	273.15	635.00	1,2	0.5690	0.6082	0.6800	0.3920

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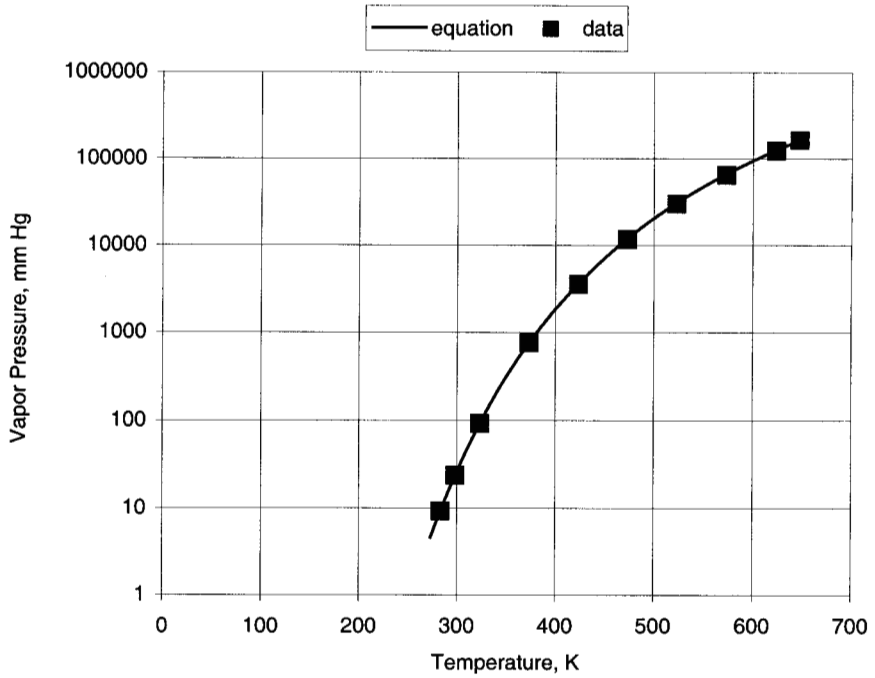


Figure B-1 Vapor Pressure of Water

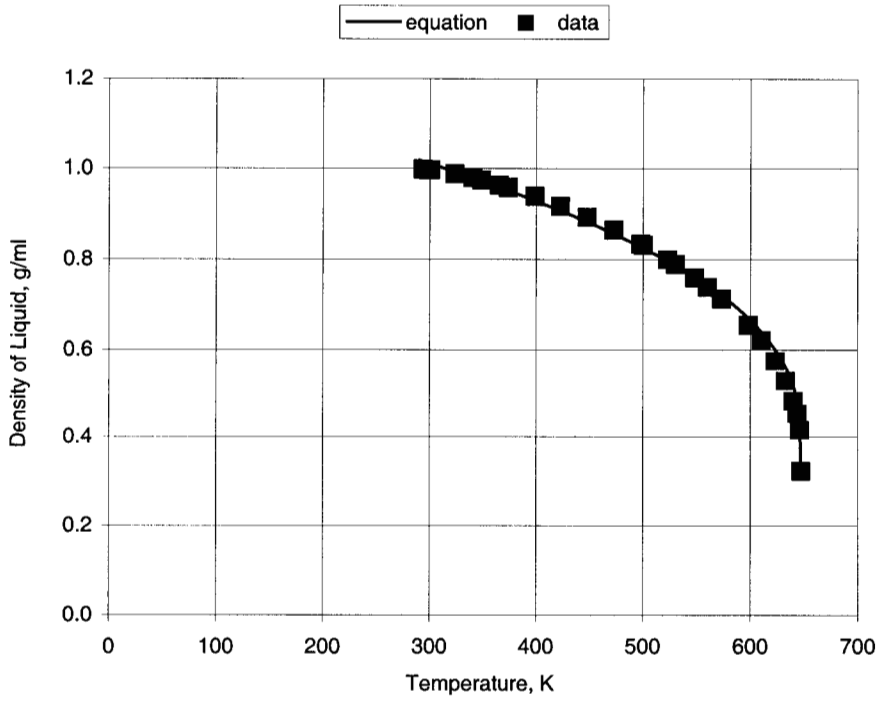


Figure B-2 Density of Water

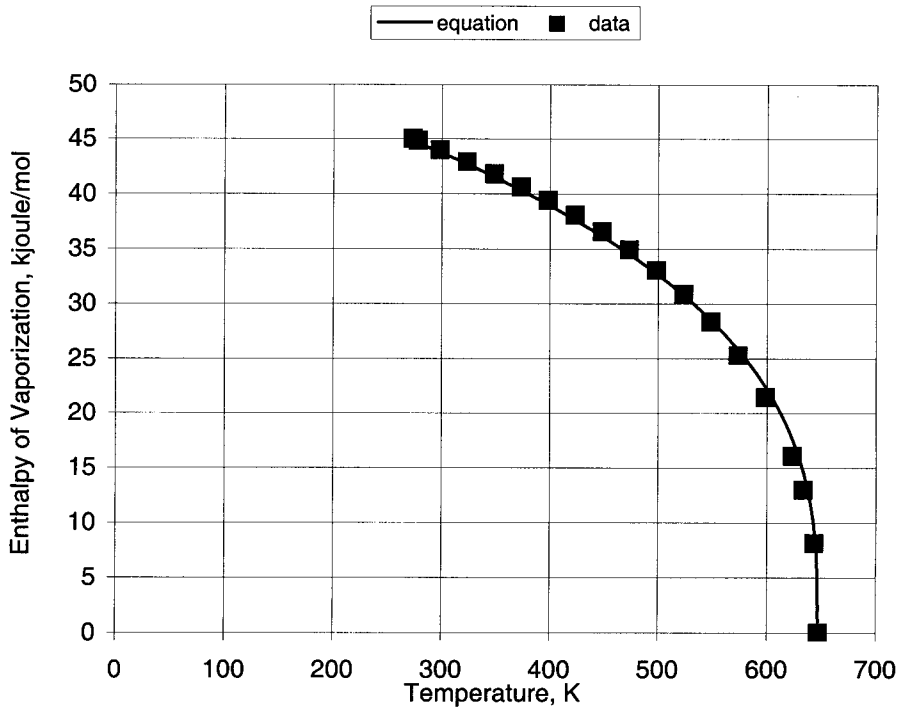


Figure B-3 Enthalpy of Vaporization of Water

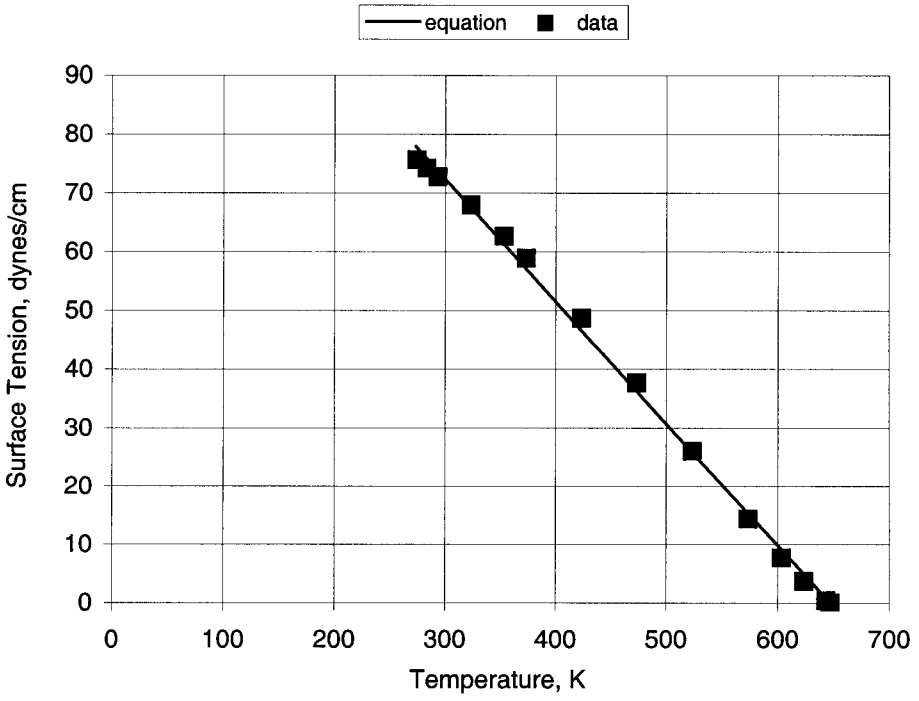


Figure B-4 Surface Tension of Water

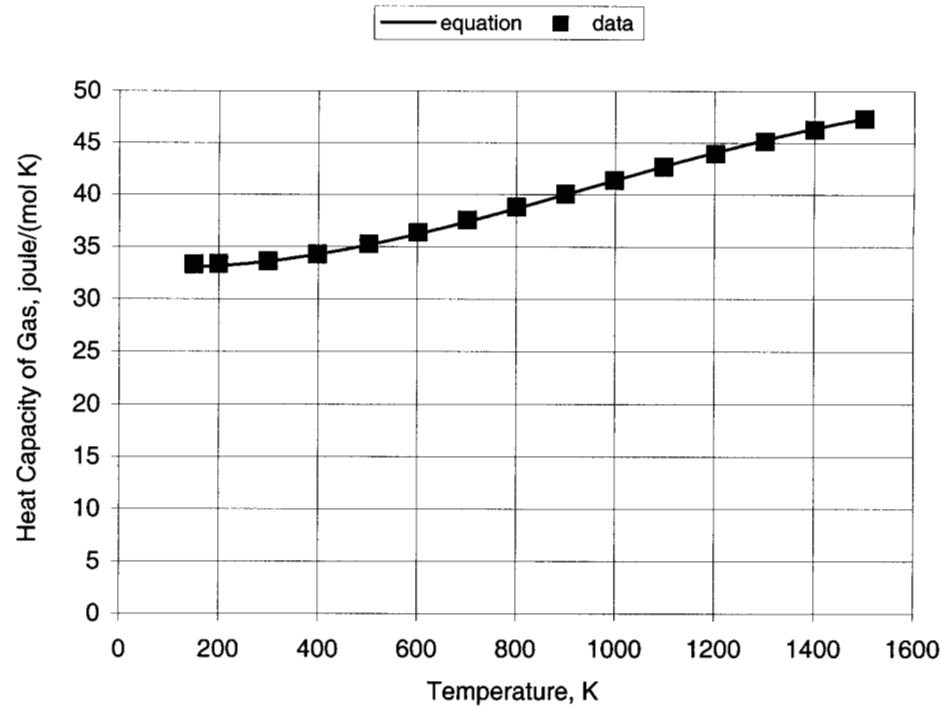


Figure B-5 Heat Capacity of Gas for Water

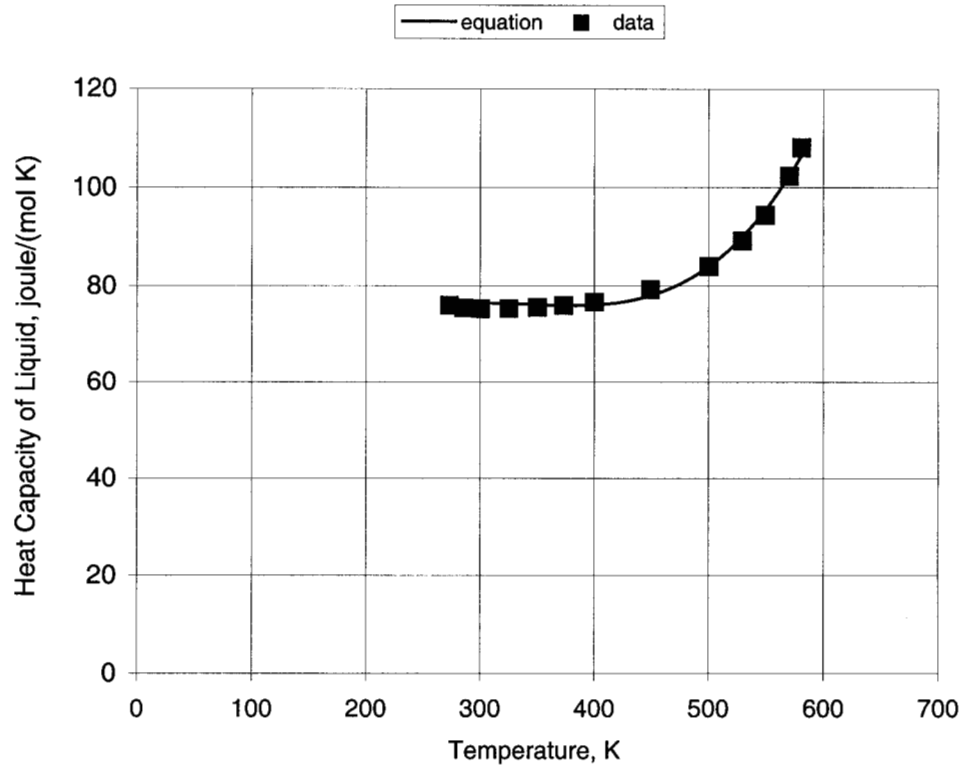


Figure B-6 Heat Capacity of Liquid for Water

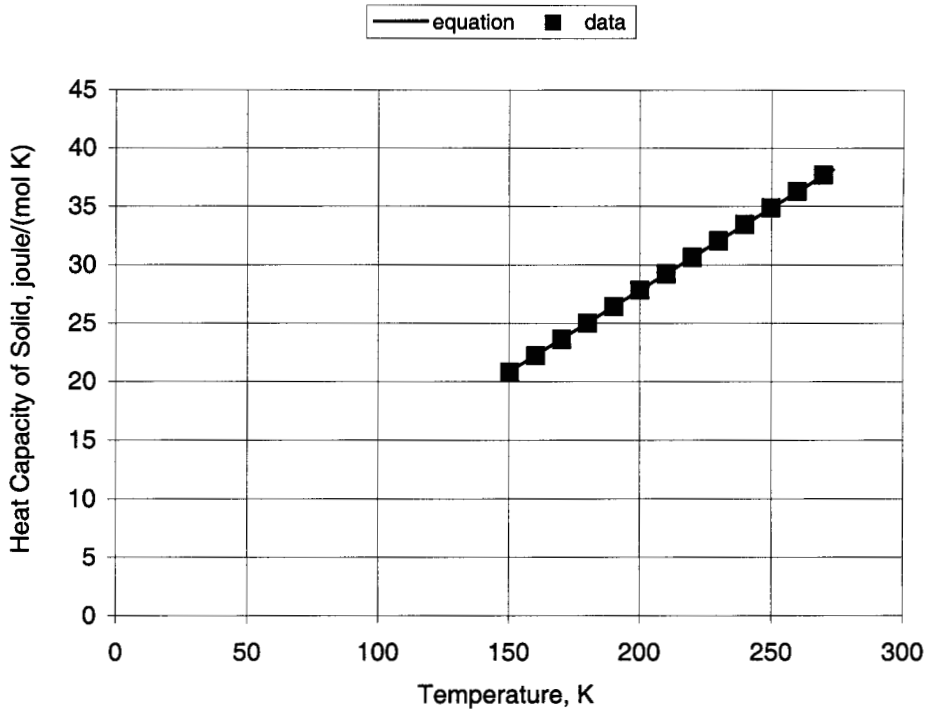


Figure B-7 Heat Capacity of Solid for Water

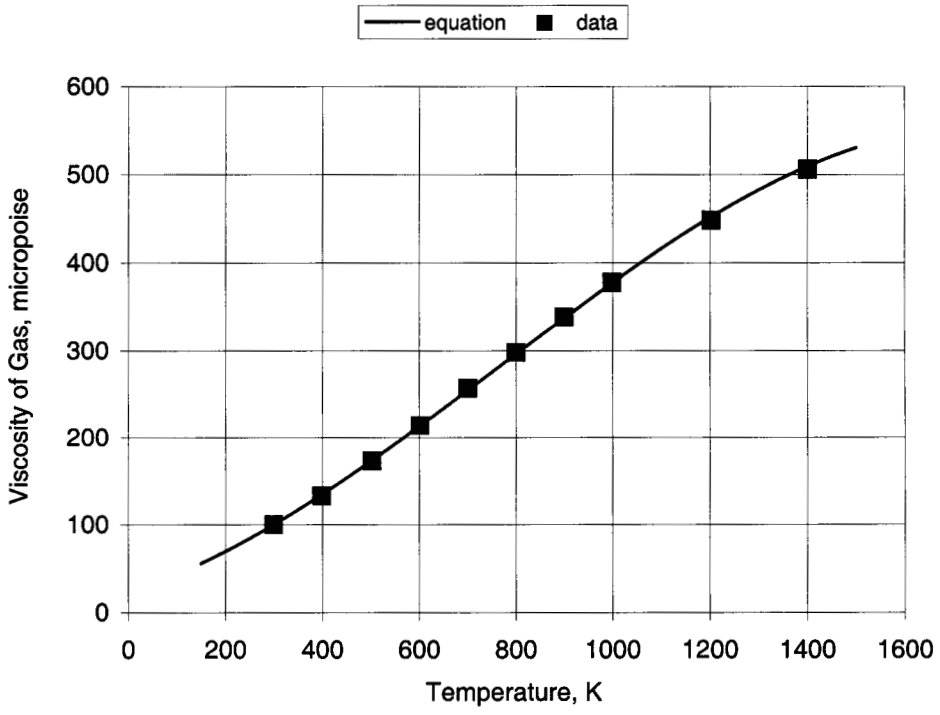


Figure B-8 Viscosity of Gas for Water

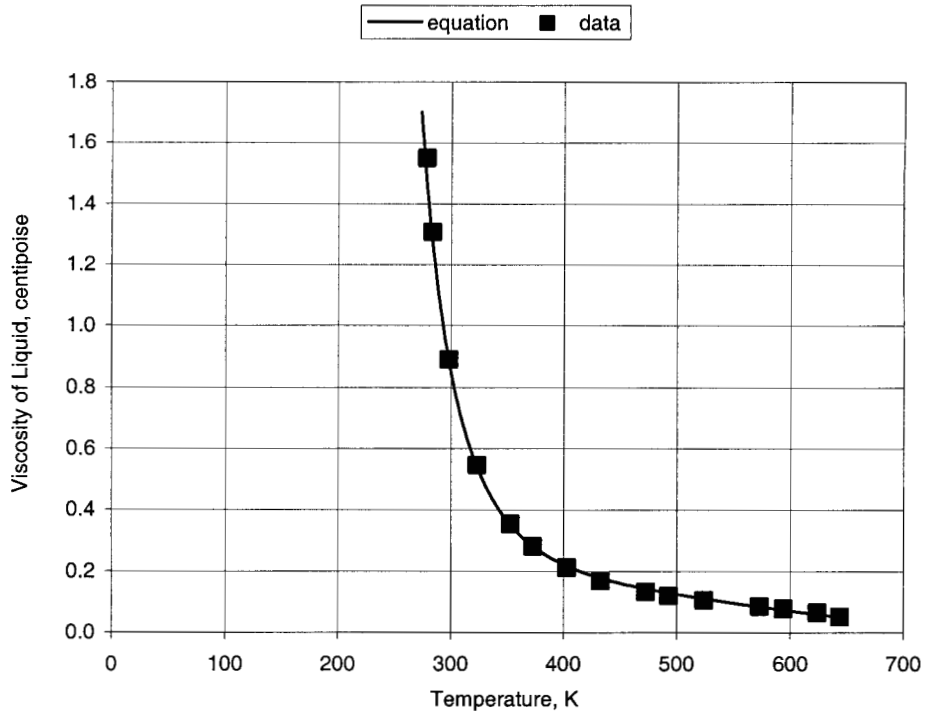


Figure B-9 Viscosity of Liquid for Water

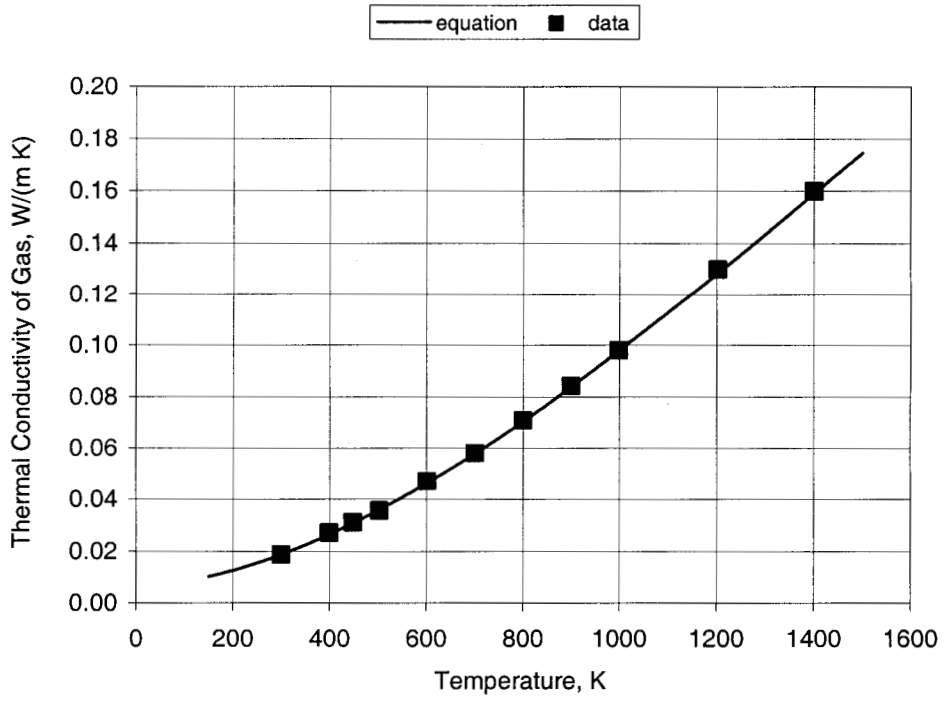


Figure B-10 Thermal Conductivity of Gas for Water

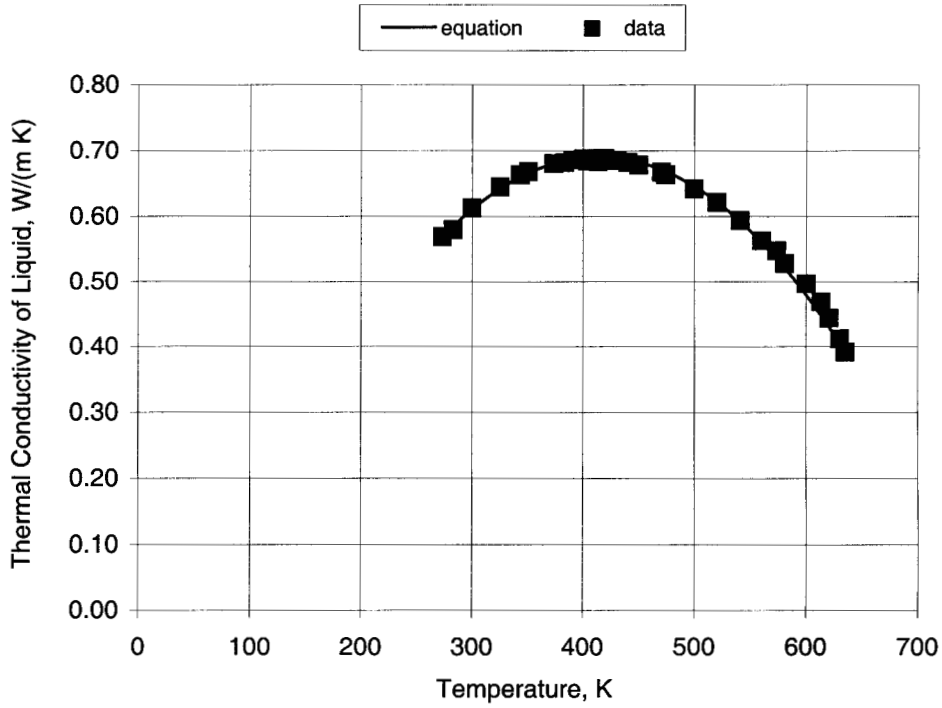


Figure B-11 Thermal Conductivity of Liquid for Water

Appendix C

Thermophysical and Transport Properties of Air

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Abstract

Thermophysical and transport properties are presented for air. The results include physical constants, critical values, saturation pressure, density of liquid, enthalpy of vaporization, surface tension, heat capacity, viscosity, and thermal conductivity. Both gas and liquid are covered. The coefficients for property values as a function of temperature are provided in an easy to use tabular format.

Tabulation of Properties

The results are given in Table C. The initial entries in the table are physical and critical properties. This includes molecular weight, freezing point, boiling point, density, refractive index, and acentric factor for the physical properties. Critical temperature, pressure, volume, density, and compressibility factor are provided for the critical properties.

Subsequent entries in the table provide coverage for properties which vary with temperature. This includes saturation pressure, density of liquid, enthalpy of vaporization, surface tension, heat capacity, viscosity, and thermal conductivity. For the subsequent entries, regression coefficients (A, B, C, ...) are given for the temperature dependency. The range of application is denoted by minimum and maximum temperatures (TMIN and TMAX) in the adjacent columns. Temperatures outside the range of application should not be used. The next column provides the code for the tabulation which is based on both experimental data and estimated values. The last several columns provide representative values for the property. For gas, the table applies to gas at low pressure. For liquid, the table primarily applies to liquid at saturation.

The format for the tablulation is constructed for rapid usage. For each property, the equation showing the temperature dependency is given on the row for the property. The regression coefficients for use in the equation are provided in the adjacent rows. These displayed regression coefficients in the adjacent rows can be used for quick calculation of the property value at the temperature of interest.

In preparing the tabulation, a literature search was conducted to identify data source publications (1-12). Both experimental values for the property under consideration and parameter values for estimation of the property are included in the source publications. The publications were screened and copies of appropriate data were made. These data were then keyed into the computer to provide a database of values for compounds for which experimental data are available. The database also served as a basis to check the accuracy of the estimation methods. Upon completion of data collection, estimation of the values for the remaining compounds was performed. The numerous point values were processed using a computer program for minimum deviation.

The compilations of Beaton and Hewitt (1); CRC (2); Daubert and Danner (3); and Perrys (8) were used extensively for the compilation. Estimates were primarily based on literature estimated values and proprietary techniques of the senior author.

A comparison of calculated and data values is shown in Figures C-1 to C-12 for representative properties. The graphs disclose favorable agreement of equation and data.

Example

In an engineering analysis, the liquid viscosity of air at 80 K is required. Calculate the liquid viscosity at this temperature.

Substitution of the coefficients from the table and temperature into the equation for liquid viscosity yields:

$$\log_{10} n_{liq} = A + B/T + C\,T + D\,T^2$$

$$= -3.1963 + 1.0982E{+}03/80 + 1.9485E{-}02*80 - 8.0902E{-}05*80^2 = -0.7825$$

$$n_{liq} = 10^{-0.7825} = 0.165 \text{ centipoise}$$

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Table C Thermophysical and Transport Properties of Air

1. Physical Properties

ID	NAME	CAS No	MW, g/mol	T_{freeze}, K	code	T_{boil}, K	code	T, C	den@T, g/cm3	ref index @T	acentric factor	state
0	air	132259-10-0	28.951	59.15	1	78.67	1	25	gas	1.0010	0.00	colorless gas

2. Critical Properties

NO	NAME	CAS No	T_C, K	code	P_C, bar	code	V_C, ml/mol	code	rho_C, g/ml	code	Z_C	code
0	air	132259-10-0	132.45	1	37.74	1	91.47	1	0.3165	1	0.313	1

3a. Saturation Pressure for Liquid Air $\log_{10} P = A - B/(T + C)$ (P - mm Hg, T - C)

NO	NAME	CAS No	A	B	C	TMIN, C	TMAX, C	code	P@TMIN	P@-200 C	P@-190 C	P@TMAX
0	air	132259-10-0	6.63892	281.3595	269.35	-209.15	-140.70	1,2	92.25	381.65	1238.79	28305.00

3b. Saturation Pressure for Gaseous Air $\log_{10} P = A - B/(T + C)$ (P - mm Hg, T - C)

NO	NAME	CAS No	A	B	C	TMIN, C	TMAX, C	code	P@TMIN	P@-200 C	P@-190 C	P@TMAX
0	air	132259-10-0	6.91461	320.8954	271.00	-209.15	-140.70	1,2	53.25	248.29	897.29	28305.00

4. Density of Liquid $density = A\ B^{-(1 - T/C)^{\wedge}D}$ (density - g/ml, T - K)

NO	NAME	CAS No	A	B	C	D	TMIN	TMAX	code	den @TMIN	den @80 K	den @ TMAX
0	air	132259-10-0	0.3165	0.2680	132.45	0.28571	59.15	132.45	1,2	0.962	0.869	0.317

5. Enthalpy of Vaporization $HVAP = A\ (1 - T/B)^C$ (HVAP - kjoule/mol, T - K)

NO	NAME	CAS No	A	B	C	TMIN	TMAX	code	HVAP@TMIN	HVAP@80 K	HVAP@100 K	HVAP@TMAX
0	air	132259-10-0	7.9700	132.45	0.3400	59.15	132.45	1,2	6.518	5.817	4.941	0.000

6. Surface Tension $sigma = A\ (1 - T/B)^C$ (sigma - dynes/cm, T - K)

NO	NAME	CAS No	A	B	C	TMIN	TMAX	code	sigma@TMIN	HVAP@80 K	HVAP@100 K	sigma@TMAX
0	air	132259-10-0	28.800	132.45	1.2222	59.15	132.45	1,2	13.975	9.283	5.162	0.000

7. Heat Capacity of Gas $C_P = A + B\,T + C\,T^2 + D\,T^3$ (C_P - joule/(mol K), T - K)

NO	NAME	CAS No	A	B	C	D	TMIN	TMAX	code	Cp@TMIN	Cp@25 C	Cp@TMAX
0	air	132259-10-0	29.643	-5.1373E-03	1.3106E-05	-4.8325E-09	150	1500	1,2	29.151	29.148	35.115

8. Heat Capacity of Liquid $C_P = A + B\,T + C\,T^2 + D\,T^3$ (C_P - joule/(mol K), T - K)

NO	NAME	CAS No	A	B	C	D	TMIN	TMAX	code	Cp@TMIN	Cp@100 K	Cp@TMAX
0	air	132259-10-0	-617.738	2.2399E+01	-2.4905E-01	9.2633E-04	78.9	125.0	1,2	54.138	58.000	99.992

9. Heat Capacity of Solid $C_P = A + B\,T + C\,T^2 + D\,T^3$ (C_P - joule/(mol K), T - K)

NO	NAME	CAS No	A	B	C	D	TMIN	TMAX	code	Cp@TMIN	Cp@3.5 K	Cp@TMAX
0	air	132259-10-0	-0.0180	8.0076E-01	-2.3200E-01	2.0952E-02	3.0	4.0	1,2	0.862	0.841	0.814

10. Viscosity of Gas $n_{gas} = A + B\,T + C\,T^2 + D\,T^3$ (n_{gas} - micropoise, T - K)

NO	NAME	CAS No	A	B	C	D	TMIN	TMAX	code	n_{gas}@TMIN	n_{gas}@25 C	n_{gas}@TMAX
0	air	132259-10-0	4.5608	7.0077E-01	-3.7287E-04	9.0437E-08	100	1500	1,2	71.00	182.75	522.00

11. Viscosity of Liquid $\log_{10} n_{liq} = A + B/T + C\,T + D\,T^2$ (n_{liq} - centipoise, T - K)

NO	NAME	CAS No	A	B	C	D	TMIN	TMAX	code	n_{liq}@TMIN	n_{liq}@80 K	n_{liq}@TMAX
0	air	132259-10-0	-3.1963	1.0982E+02	1.9485E-02	-8.0902E-05	60.00	120.00	1,2	0.325	0.165	0.078

12. Thermal Conductivity of Gas $k_{gas} = A + B\,T + C\,T^2 + D\,T^3$ (k_{gas} - W/(m K), T - K)

NO	NAME	CAS No	A	B	C	D	TMIN	TMAX	code	k_{gas}@TMIN	k_{gas}@25 C	k_{gas}@TMAX
0	air	132259-10-0	-3.8603E-04	1.0311E-04	-5.4199E-08	1.7429E-11	100	1500	1,2	0.0094	0.0260	0.0911

13. Thermal Conductivity of Liquid $k_{liq} = A + B\,T + C\,T^2$ (k_{liq} - W/(m K), T - K)

NO	NAME	CAS No	A	B	C	TMIN	TMAX	code	k_{liq}@TMIN	k_{liq}@80 K	k_{liq}@100 K	k_{liq}@TMAX
0	air	132259-10-0	0.278	-1.5877E-03	-7.9383E-07	64	125	1,2	0.1730	0.1458	0.1112	0.0670

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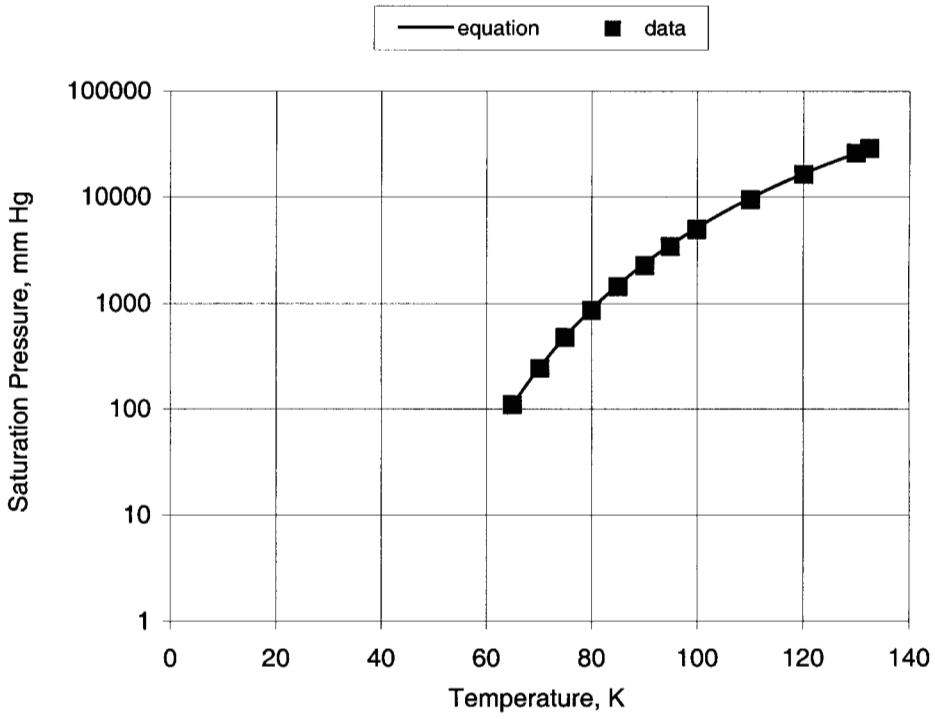


Figure C-1 Saturation Pressure of Liquid Air

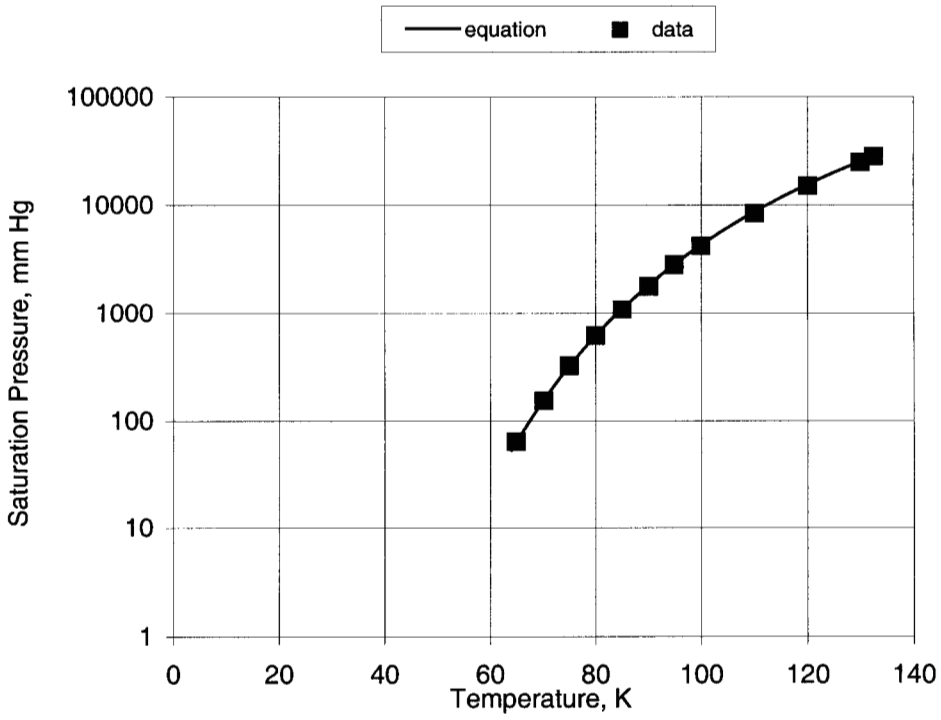


Figure C-2 Saturation Pressure of Gaseous Air

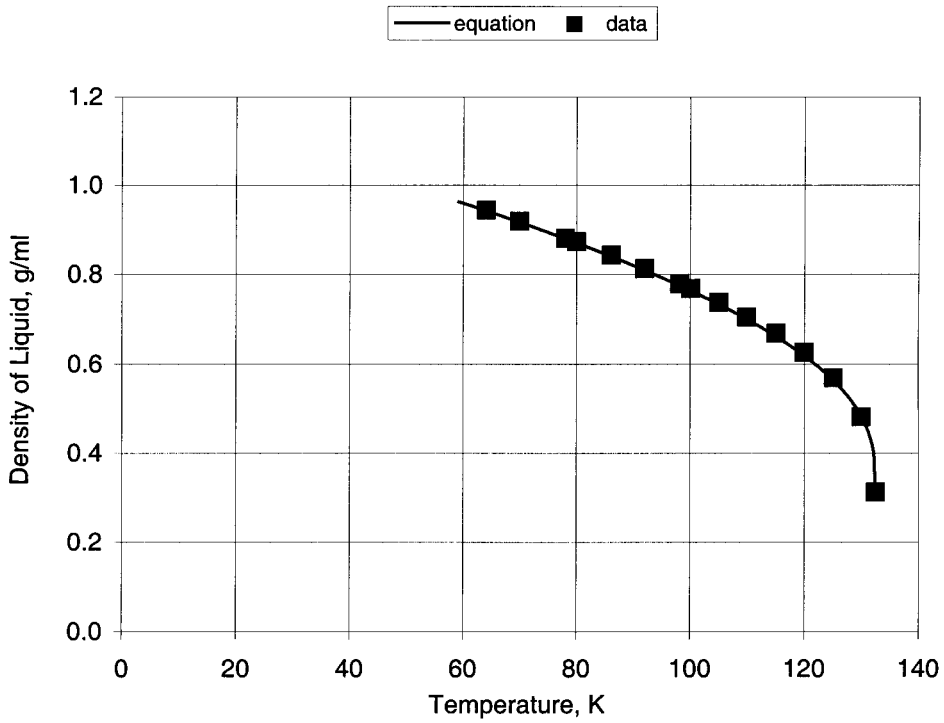


Figure C-3 Density of Air

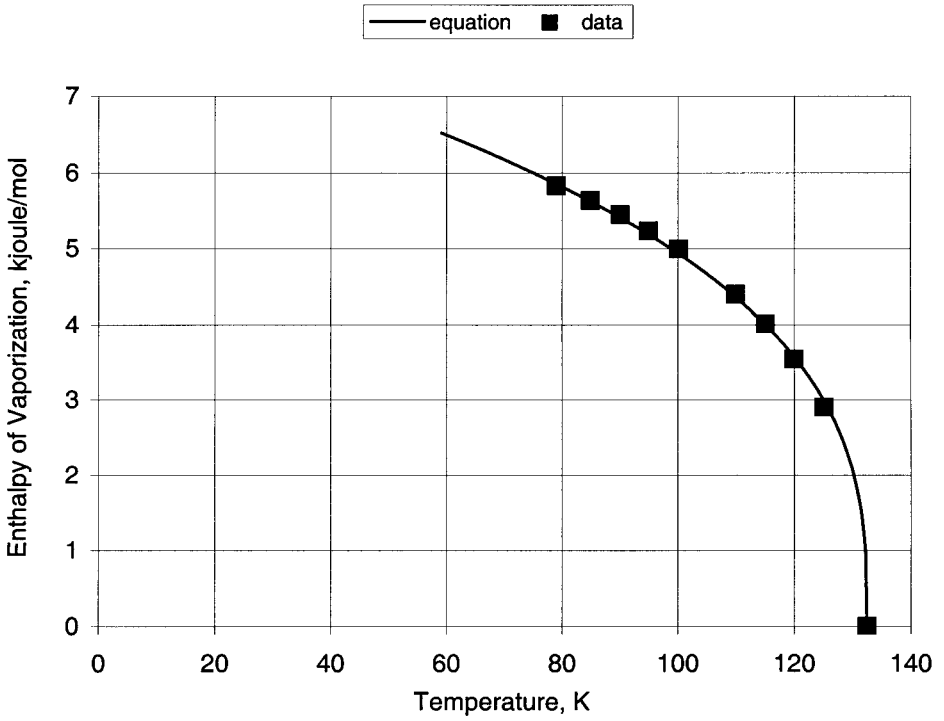


Figure C-4 Enthalpy of Vaporization of Air

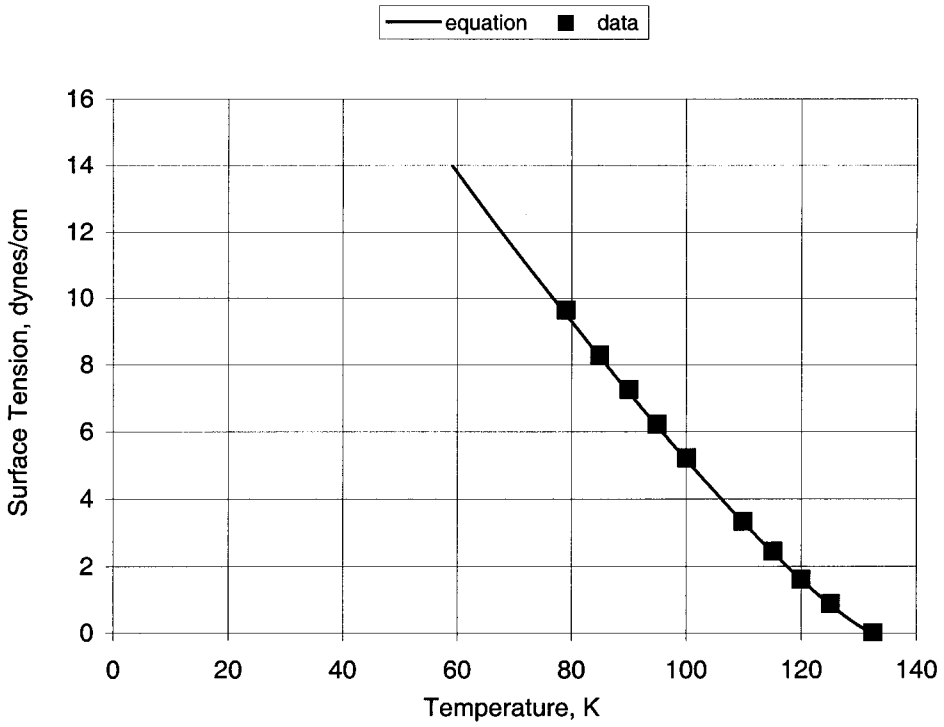


Figure C-5 Surface Tension of Air

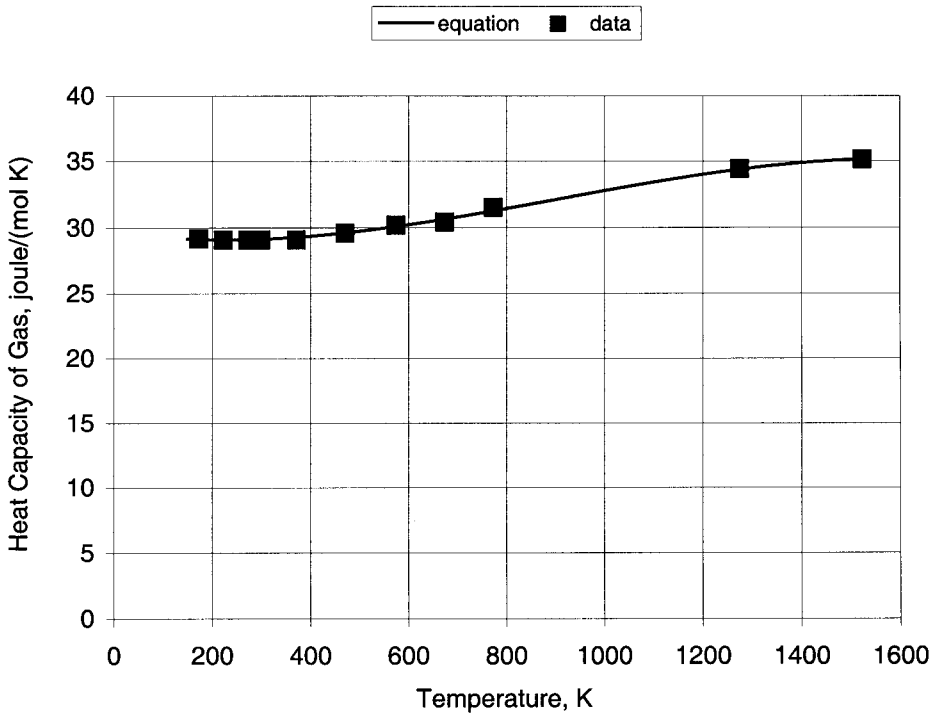


Figure C-6 Heat Capacity of Gas for Air

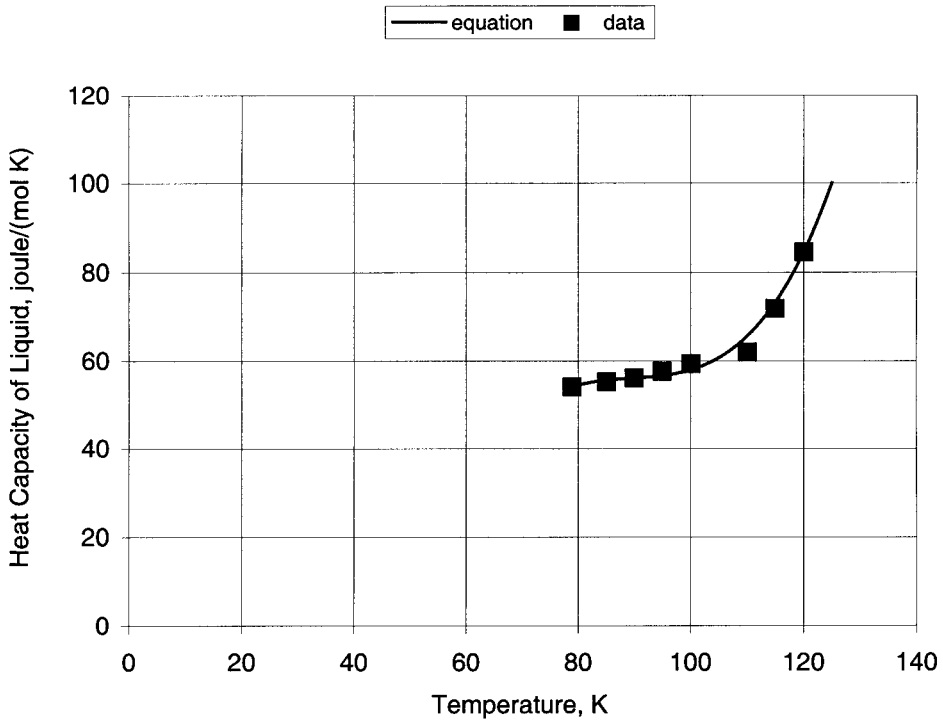


Figure C-7 Heat Capacity of Liquid for Air

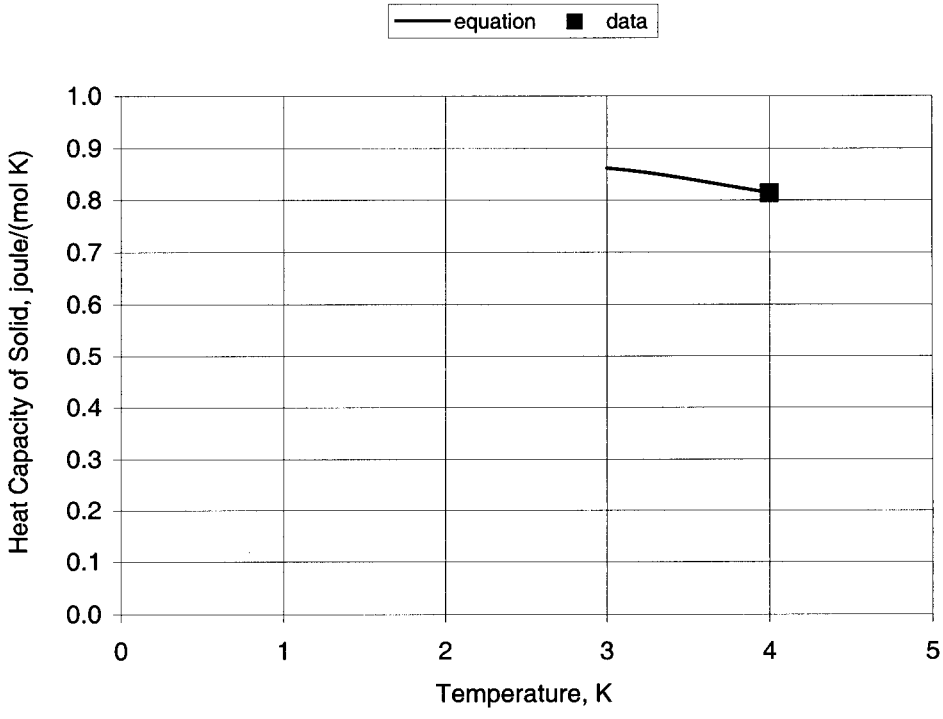


Figure C-8 Heat Capacity of Solid for Air

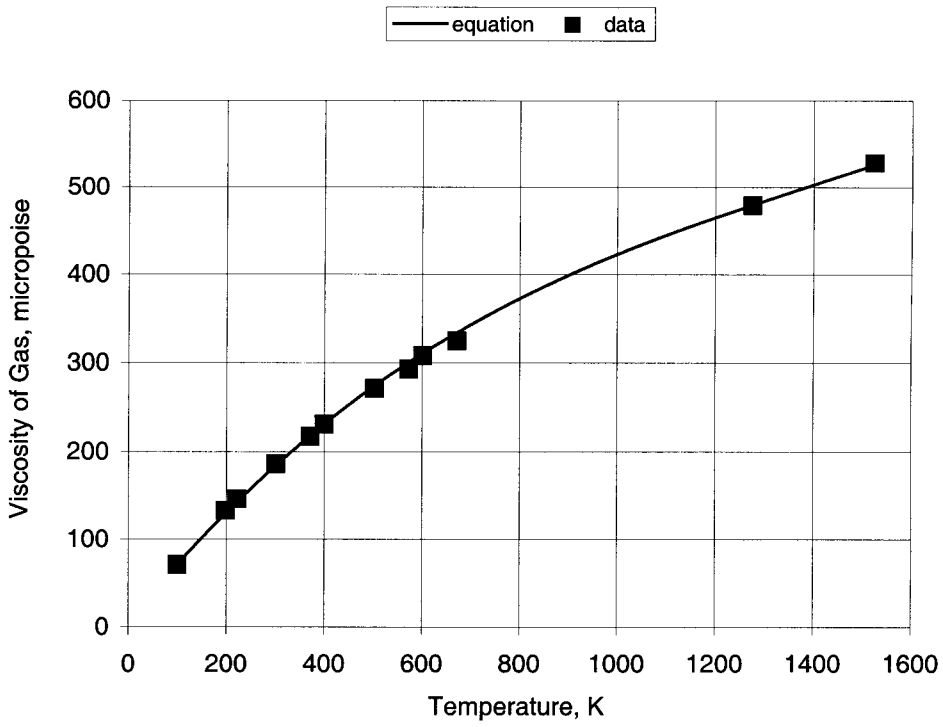


Figure C-9 Viscosity of Gas for Air

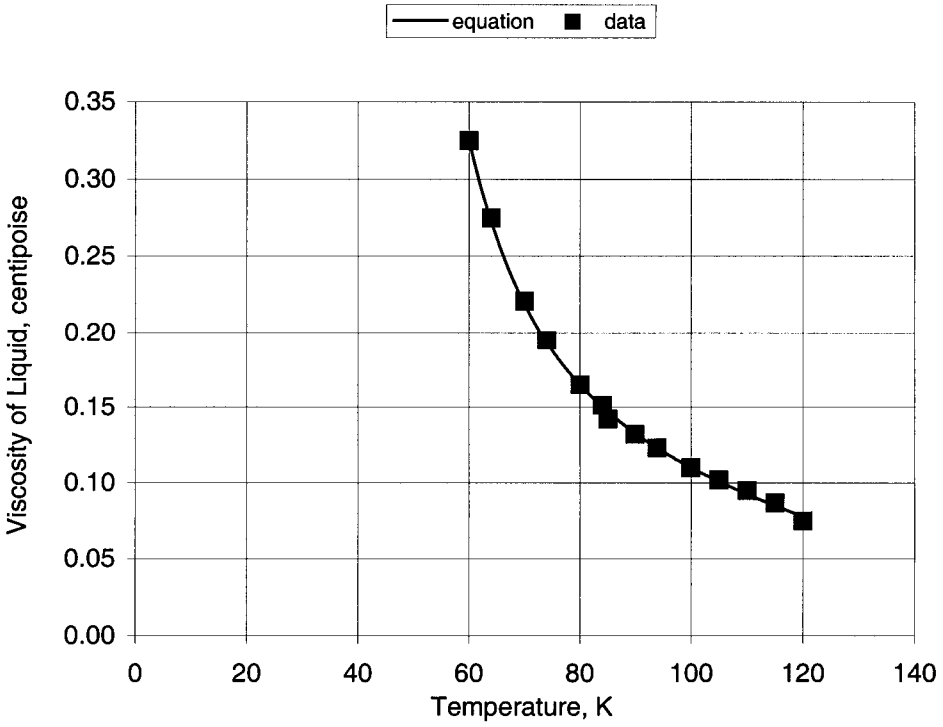


Figure C-10 Viscosity of Liquid for Air

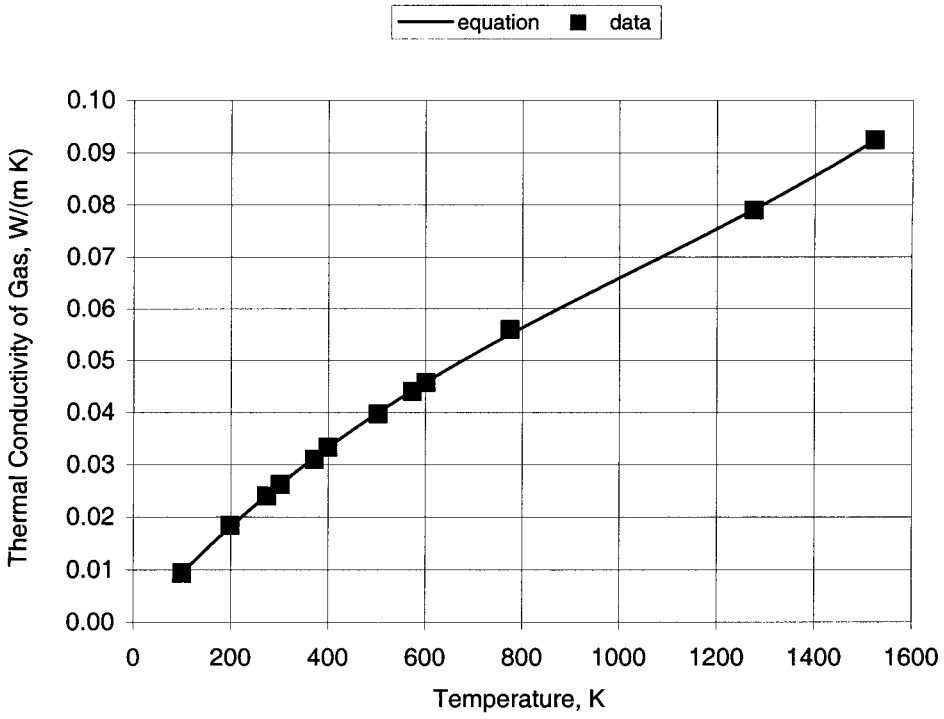


Figure C-11 Thermal Conductivity of Gas for Air

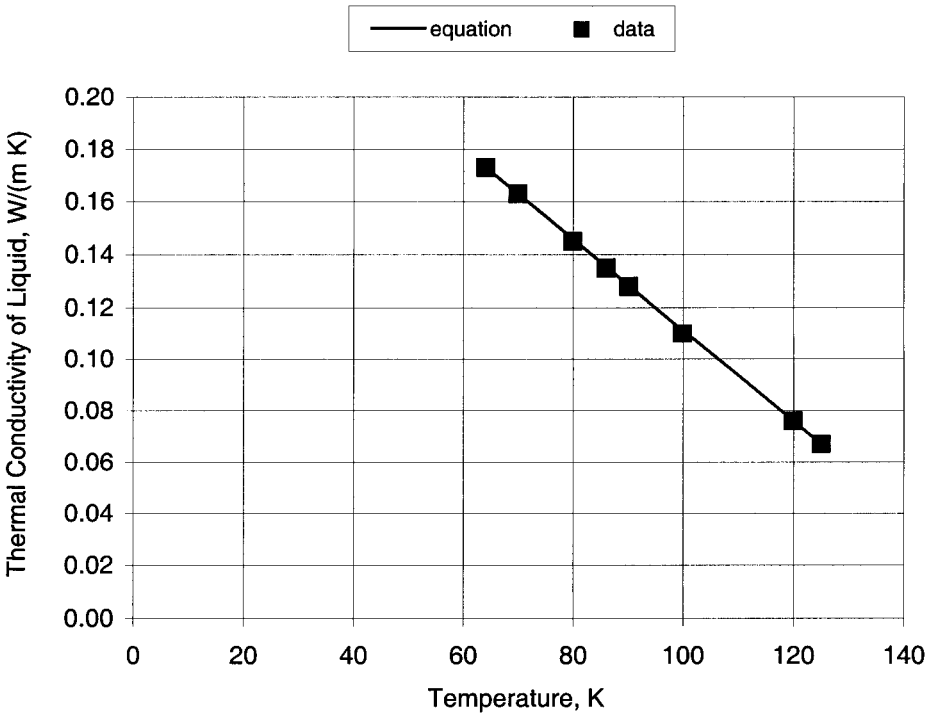


Figure C-12 Thermal Conductivity of Liquid for Air

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